

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 5 PAD

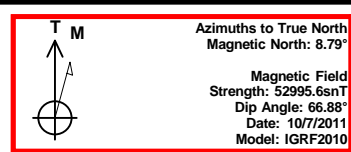
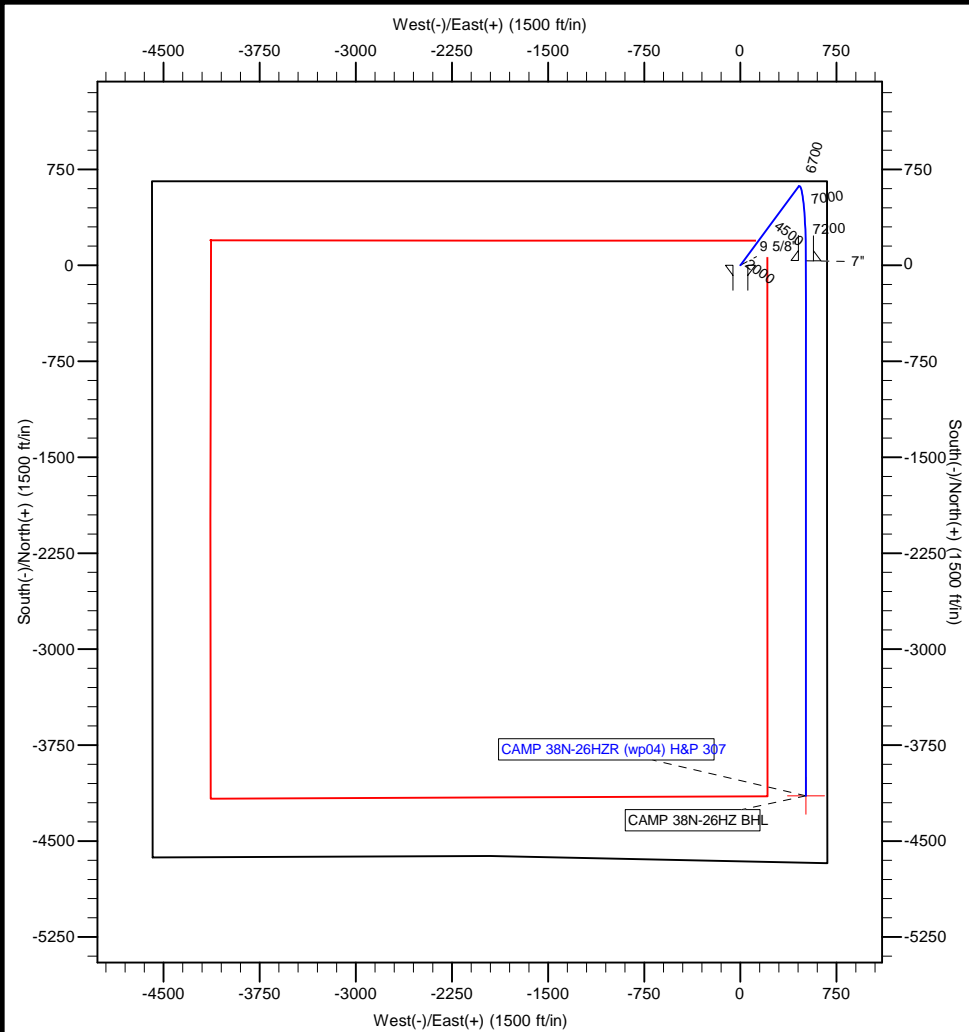
CAMP 38N-26HZR

CAMP 38N-26HZR

Plan: CAMP 38N-26HZR (wp04) H&P 307

Standard Planning Report

06 February, 2012



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_CAMP 5 PAD
Well: CAMP 38N-26HZR
Wellbore: CAMP 38N-26HZR
Section:
SHL:
Design: CAMP 38N-26HZR (wp04) H&P 307
Latitude: 40.201658
Longitude: -104.737353
GL: 5014.00
KB: 25' RKB + 5014' GL @ 5039.00ft

WELL DETAILS: CAMP 38N-26HZR

+N/-S	+E/-W	Northing	Ground Level: Easting	5014.00 Latitude	Longitude	Slot
0.00	0.00	1317222.49	3213023.88	40.201658	-104.737353	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
1726.26	8.53	36.40	1724.69	25.48	18.79	2.00	36.40	-22.98
6674.65	8.53	36.40	6618.41	615.89	454.15	0.00	0.00	-555.58
7654.21	91.11	180.00	7257.00	36.00	512.09	10.00	143.19	27.04
7665.44	91.22	180.00	7256.77	24.77	512.09	1.00	0.00	38.19
1837.41	91.22	180.00	7168.00	-4146.26	512.09	0.00	0.00	4177.76

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

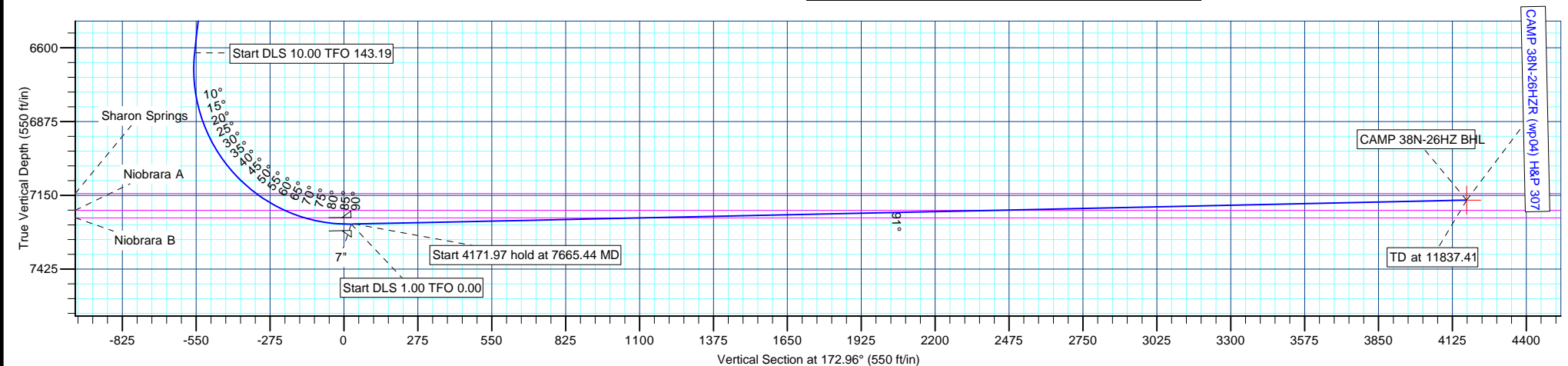
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CAMP 38N-26HZ BHL	7168.00	-4146.26	512.09	40.190276	-104.735520	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4106.00	4134.18	Parkman
4691.00	4725.71	Sussex
7143.00	7274.45	Sharon Springs
7206.00	7398.77	Niobrara A
7234.00	7479.49	Niobrara B

CASING DETAILS

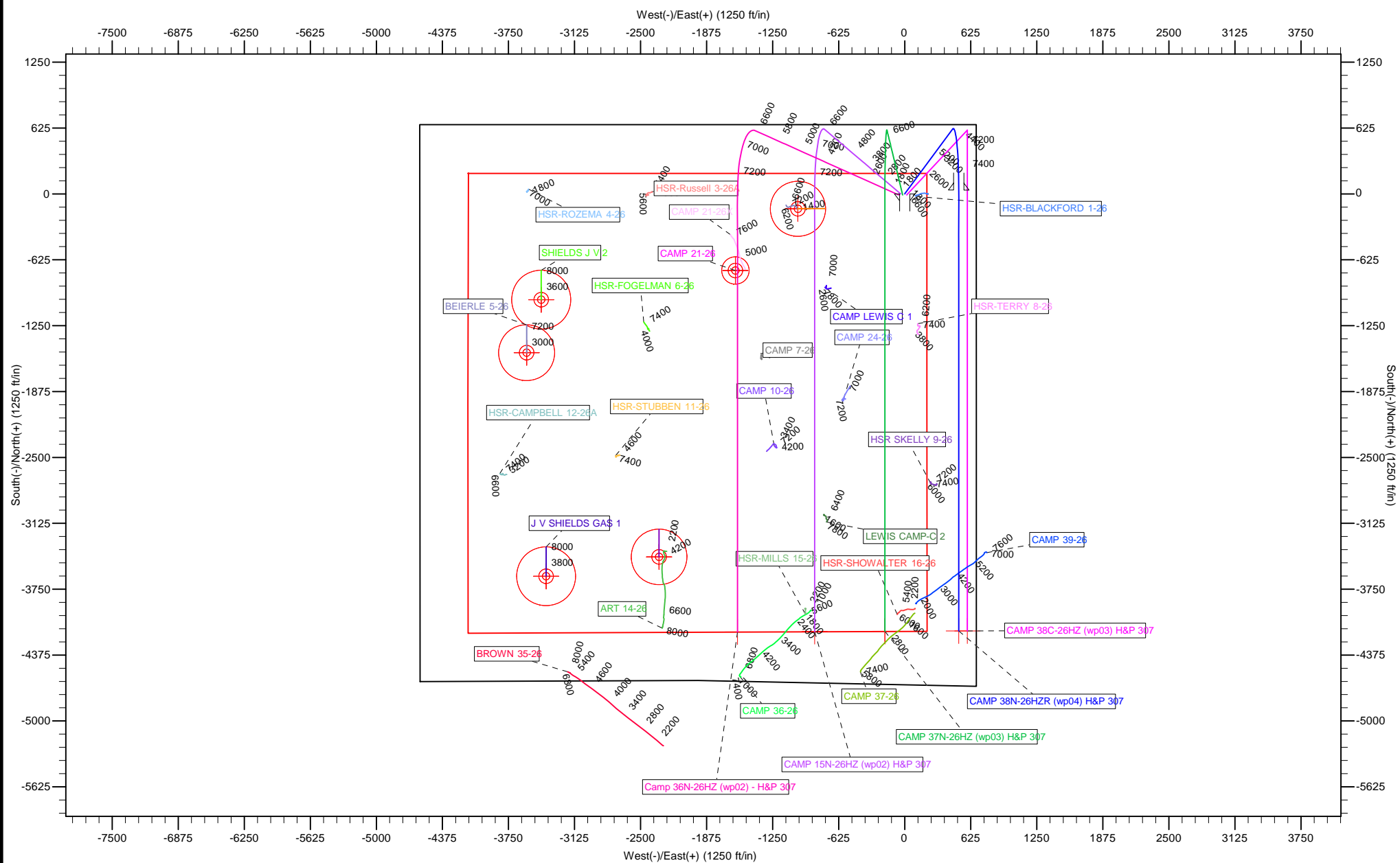
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7257.00	7654.21	7"	7





Azimuths to True North
Magnetic North: 8.79°
Magnetic Field
Strength: 52995.6snT
Dip Angle: 66.88°
Date: 10/7/2011
Model: IGRF2010

Project: COLORADO NORTHERN ZONE - 83
Site: WELD CAMP 5 PAD
Well: CAMP 38N-26HZR
Wellbore: CAMP 38N-26HZR
Section:
SHL:
Design: CAMP 38N-26HZR (wp04) H&P 307
Latitude: 40.201658
Longitude: -104.737353
GL: 5014.00
KB: 25' RKB + 5014' GL @ 5039.00ft



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Company:	US ROCKIES REGION PLANNING	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38N-26HZR		
Design:	CAMP 38N-26HZR (wp04) H&P 307		

Project	COLORADO NORTHERN ZONE - 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		WELD_CAMP 5 PAD			
Site Position:		Northing:	1,317,212.46 usft	Latitude:	40.201630
From:	Lat/Long	Easting:	3,213,042.68 usft	Longitude:	-104.737286
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	CAMP 38N-26HZR					
Well Position	+N/-S	10.19 ft	Northing:	1,317,222.49 usft	Latitude:	40.201658
	+E/-W	-18.71 ft	Easting:	3,213,023.88 usft	Longitude:	-104.737353
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,014.00 ft

Wellbore	CAMP 38N-26HZR				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/7/2011	8.79	66.88	52,996

Design	CAMP 38N-26HZR (wp04) H&P 307			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	172.96

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,726.26	8.53	36.40	1,724.69	25.48	18.79	2.00	2.00	0.00	36.40	
6,674.65	8.53	36.40	6,618.41	615.89	454.15	0.00	0.00	0.00	0.00	
7,654.21	91.11	180.00	7,257.00	36.00	512.09	10.00	8.43	14.66	143.19	
7,665.44	91.22	180.00	7,256.77	24.77	512.09	1.00	1.00	0.00	0.00	
11,837.41	91.22	180.00	7,168.00	-4,146.26	512.09	0.00	0.00	0.00	0.00	CAMP 38N-26HZ BHI

Anadarko Petroleum Corp

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38N-26HZR		
Design:	CAMP 38N-26HZR (wp04) H&P 307		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,400.00	2.00	36.40	1,399.98	1.40	1.04	-1.27	2.00	2.00	0.00
1,500.00	4.00	36.40	1,499.84	5.62	4.14	-5.07	2.00	2.00	0.00
1,600.00	6.00	36.40	1,599.45	12.63	9.31	-11.39	2.00	2.00	0.00
1,700.00	8.00	36.40	1,698.70	22.44	16.55	-20.24	2.00	2.00	0.00
1,726.26	8.53	36.40	1,724.69	25.48	18.79	-22.98	2.00	2.00	0.00
Start 4948.39 hold at 1726.26 MD									
1,800.00	8.53	36.40	1,797.61	34.27	25.27	-30.92	0.00	0.00	0.00
1,900.00	8.53	36.40	1,896.51	46.21	34.07	-41.68	0.00	0.00	0.00
2,000.00	8.53	36.40	1,995.40	58.14	42.87	-52.44	0.00	0.00	0.00
2,100.00	8.53	36.40	2,094.30	70.07	51.67	-63.21	0.00	0.00	0.00
2,200.00	8.53	36.40	2,193.19	82.00	60.47	-73.97	0.00	0.00	0.00
2,300.00	8.53	36.40	2,292.09	93.93	69.26	-84.73	0.00	0.00	0.00
2,400.00	8.53	36.40	2,390.98	105.86	78.06	-95.50	0.00	0.00	0.00
2,500.00	8.53	36.40	2,489.88	117.79	86.86	-106.26	0.00	0.00	0.00
2,600.00	8.53	36.40	2,588.77	129.73	95.66	-117.02	0.00	0.00	0.00
2,700.00	8.53	36.40	2,687.67	141.66	104.46	-127.79	0.00	0.00	0.00
2,800.00	8.53	36.40	2,786.56	153.59	113.25	-138.55	0.00	0.00	0.00
2,900.00	8.53	36.40	2,885.46	165.52	122.05	-149.31	0.00	0.00	0.00
3,000.00	8.53	36.40	2,984.36	177.45	130.85	-160.07	0.00	0.00	0.00
3,100.00	8.53	36.40	3,083.25	189.38	139.65	-170.84	0.00	0.00	0.00
3,200.00	8.53	36.40	3,182.15	201.31	148.45	-181.60	0.00	0.00	0.00
3,300.00	8.53	36.40	3,281.04	213.25	157.24	-192.36	0.00	0.00	0.00
3,400.00	8.53	36.40	3,379.94	225.18	166.04	-203.13	0.00	0.00	0.00
3,500.00	8.53	36.40	3,478.83	237.11	174.84	-213.89	0.00	0.00	0.00
3,600.00	8.53	36.40	3,577.73	249.04	183.64	-224.65	0.00	0.00	0.00
3,700.00	8.53	36.40	3,676.62	260.97	192.44	-235.42	0.00	0.00	0.00
3,800.00	8.53	36.40	3,775.52	272.90	201.23	-246.18	0.00	0.00	0.00
3,900.00	8.53	36.40	3,874.41	284.83	210.03	-256.94	0.00	0.00	0.00
4,000.00	8.53	36.40	3,973.31	296.77	218.83	-267.70	0.00	0.00	0.00
4,100.00	8.53	36.40	4,072.20	308.70	227.63	-278.47	0.00	0.00	0.00
4,134.18	8.53	36.40	4,106.00	312.77	230.63	-282.15	0.00	0.00	0.00
Parkman									
4,200.00	8.53	36.40	4,171.10	320.63	236.43	-289.23	0.00	0.00	0.00
4,300.00	8.53	36.40	4,269.99	332.56	245.22	-299.99	0.00	0.00	0.00
4,400.00	8.53	36.40	4,368.89	344.49	254.02	-310.76	0.00	0.00	0.00
4,500.00	8.53	36.40	4,467.78	356.42	262.82	-321.52	0.00	0.00	0.00
4,600.00	8.53	36.40	4,566.68	368.35	271.62	-332.28	0.00	0.00	0.00
4,700.00	8.53	36.40	4,665.57	380.29	280.42	-343.05	0.00	0.00	0.00

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Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38N-26HZR		
Design:	CAMP 38N-26HZR (wp04) H&P 307		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,725.71	8.53	36.40	4,691.00	383.35	282.68	-345.81	0.00	0.00	0.00
Sussex									
4,800.00	8.53	36.40	4,764.47	392.22	289.21	-353.81	0.00	0.00	0.00
4,900.00	8.53	36.40	4,863.36	404.15	298.01	-364.57	0.00	0.00	0.00
5,000.00	8.53	36.40	4,962.26	416.08	306.81	-375.33	0.00	0.00	0.00
5,100.00	8.53	36.40	5,061.15	428.01	315.61	-386.10	0.00	0.00	0.00
5,200.00	8.53	36.40	5,160.05	439.94	324.41	-396.86	0.00	0.00	0.00
5,300.00	8.53	36.40	5,258.94	451.87	333.20	-407.62	0.00	0.00	0.00
5,400.00	8.53	36.40	5,357.84	463.81	342.00	-418.39	0.00	0.00	0.00
5,500.00	8.53	36.40	5,456.73	475.74	350.80	-429.15	0.00	0.00	0.00
5,600.00	8.53	36.40	5,555.63	487.67	359.60	-439.91	0.00	0.00	0.00
5,700.00	8.53	36.40	5,654.52	499.60	368.40	-450.68	0.00	0.00	0.00
5,800.00	8.53	36.40	5,753.42	511.53	377.19	-461.44	0.00	0.00	0.00
5,900.00	8.53	36.40	5,852.31	523.46	385.99	-472.20	0.00	0.00	0.00
6,000.00	8.53	36.40	5,951.21	535.39	394.79	-482.97	0.00	0.00	0.00
6,100.00	8.53	36.40	6,050.10	547.33	403.59	-493.73	0.00	0.00	0.00
6,200.00	8.53	36.40	6,149.00	559.26	412.39	-504.49	0.00	0.00	0.00
6,300.00	8.53	36.40	6,247.89	571.19	421.18	-515.25	0.00	0.00	0.00
6,400.00	8.53	36.40	6,346.79	583.12	429.98	-526.02	0.00	0.00	0.00
6,500.00	8.53	36.40	6,445.68	595.05	438.78	-536.78	0.00	0.00	0.00
6,600.00	8.53	36.40	6,544.58	606.98	447.58	-547.54	0.00	0.00	0.00
6,674.65	8.53	36.40	6,618.41	615.89	454.15	-555.58	0.00	0.00	0.00
Start DLS 10.00 TFO 143.19									
6,700.00	6.67	49.59	6,643.53	618.36	456.38	-557.75	10.00	-7.32	52.03
6,800.00	7.63	138.19	6,743.00	617.17	465.25	-555.49	10.00	0.96	88.60
6,900.00	16.48	162.36	6,840.75	598.66	474.00	-536.04	10.00	8.84	24.16
7,000.00	26.16	169.44	6,933.82	563.38	482.36	-500.01	10.00	9.68	7.09
7,100.00	36.00	172.85	7,019.36	512.42	490.08	-448.48	10.00	9.85	3.41
7,200.00	45.91	174.95	7,094.79	447.32	496.92	-383.03	10.00	9.91	2.09
7,274.45	53.30	176.09	7,143.00	390.83	501.31	-326.43	10.00	9.93	1.54
Sharon Springs									
7,284.85	54.34	176.23	7,149.14	382.45	501.87	-318.05	10.00	9.94	1.36
CAMP 38N-26HZ heel									
7,300.00	55.85	176.43	7,157.81	370.05	502.67	-305.65	10.00	9.94	1.32
7,398.77	65.67	177.59	7,206.00	284.09	507.11	-219.79	10.00	9.95	1.17
Niobrara A									
7,400.00	65.79	177.60	7,206.51	282.97	507.16	-218.67	10.00	9.95	1.07
7,479.49	73.71	178.41	7,234.00	208.50	509.74	-144.44	10.00	9.95	1.01
Niobrara B									
7,500.00	75.75	178.60	7,239.40	188.72	510.26	-124.75	10.00	9.96	0.95
7,600.00	85.71	179.52	7,255.49	90.17	511.86	-26.74	10.00	9.96	0.91
7,654.21	91.11	180.00	7,257.00	36.00	512.09	27.04	10.00	9.96	0.89
Start DLS 1.00 TFO 0.00 - 7"									
7,665.44	91.22	180.00	7,256.77	24.77	512.09	38.19	1.00	1.00	0.00
Start 4171.97 hold at 7665.44 MD									
7,700.00	91.22	180.00	7,256.04	-9.78	512.09	72.48	0.00	0.00	0.00
7,800.00	91.22	180.00	7,253.91	-109.76	512.09	171.70	0.00	0.00	0.00
7,900.00	91.22	180.00	7,251.78	-209.74	512.09	270.93	0.00	0.00	0.00
8,000.00	91.22	180.00	7,249.65	-309.71	512.09	370.15	0.00	0.00	0.00
8,100.00	91.22	180.00	7,247.53	-409.69	512.09	469.37	0.00	0.00	0.00
8,200.00	91.22	180.00	7,245.40	-509.67	512.09	568.60	0.00	0.00	0.00
8,300.00	91.22	180.00	7,243.27	-609.65	512.09	667.82	0.00	0.00	0.00
8,400.00	91.22	180.00	7,241.14	-709.62	512.09	767.04	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
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Wellbore:	CAMP 38N-26HZR		
Design:	CAMP 38N-26HZR (wp04) H&P 307		

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8,500.00	91.22	180.00	7,239.01	-809.60	512.09	866.27	0.00	0.00	0.00
8,600.00	91.22	180.00	7,236.89	-909.58	512.09	965.49	0.00	0.00	0.00
8,700.00	91.22	180.00	7,234.76	-1,009.56	512.09	1,064.71	0.00	0.00	0.00
8,800.00	91.22	180.00	7,232.63	-1,109.53	512.09	1,163.94	0.00	0.00	0.00
8,900.00	91.22	180.00	7,230.50	-1,209.51	512.09	1,263.16	0.00	0.00	0.00
9,000.00	91.22	180.00	7,228.38	-1,309.49	512.09	1,362.38	0.00	0.00	0.00
9,100.00	91.22	180.00	7,226.25	-1,409.47	512.09	1,461.61	0.00	0.00	0.00
9,200.00	91.22	180.00	7,224.12	-1,509.44	512.09	1,560.83	0.00	0.00	0.00
9,300.00	91.22	180.00	7,221.99	-1,609.42	512.09	1,660.05	0.00	0.00	0.00
9,400.00	91.22	180.00	7,219.86	-1,709.40	512.09	1,759.28	0.00	0.00	0.00
9,500.00	91.22	180.00	7,217.74	-1,809.38	512.09	1,858.50	0.00	0.00	0.00
9,600.00	91.22	180.00	7,215.61	-1,909.35	512.09	1,957.72	0.00	0.00	0.00
9,700.00	91.22	180.00	7,213.48	-2,009.33	512.09	2,056.95	0.00	0.00	0.00
9,800.00	91.22	180.00	7,211.35	-2,109.31	512.09	2,156.17	0.00	0.00	0.00
9,900.00	91.22	180.00	7,209.22	-2,209.28	512.09	2,255.39	0.00	0.00	0.00
10,000.00	91.22	180.00	7,207.10	-2,309.26	512.09	2,354.62	0.00	0.00	0.00
10,100.00	91.22	180.00	7,204.97	-2,409.24	512.09	2,453.84	0.00	0.00	0.00
10,200.00	91.22	180.00	7,202.84	-2,509.22	512.09	2,553.06	0.00	0.00	0.00
10,300.00	91.22	180.00	7,200.71	-2,609.19	512.09	2,652.29	0.00	0.00	0.00
10,400.00	91.22	180.00	7,198.59	-2,709.17	512.09	2,751.51	0.00	0.00	0.00
10,500.00	91.22	180.00	7,196.46	-2,809.15	512.09	2,850.74	0.00	0.00	0.00
10,600.00	91.22	180.00	7,194.33	-2,909.13	512.09	2,949.96	0.00	0.00	0.00
10,700.00	91.22	180.00	7,192.20	-3,009.10	512.09	3,049.18	0.00	0.00	0.00
10,800.00	91.22	180.00	7,190.07	-3,109.08	512.09	3,148.41	0.00	0.00	0.00
10,900.00	91.22	180.00	7,187.95	-3,209.06	512.09	3,247.63	0.00	0.00	0.00
11,000.00	91.22	180.00	7,185.82	-3,309.04	512.09	3,346.85	0.00	0.00	0.00
11,100.00	91.22	180.00	7,183.69	-3,409.01	512.09	3,446.08	0.00	0.00	0.00
11,200.00	91.22	180.00	7,181.56	-3,508.99	512.09	3,545.30	0.00	0.00	0.00
11,300.00	91.22	180.00	7,179.44	-3,608.97	512.09	3,644.52	0.00	0.00	0.00
11,400.00	91.22	180.00	7,177.31	-3,708.94	512.09	3,743.75	0.00	0.00	0.00
11,500.00	91.22	180.00	7,175.18	-3,808.92	512.09	3,842.97	0.00	0.00	0.00
11,600.00	91.22	180.00	7,173.05	-3,908.90	512.09	3,942.19	0.00	0.00	0.00
11,700.00	91.22	180.00	7,170.92	-4,008.88	512.09	4,041.42	0.00	0.00	0.00
11,800.00	91.22	180.00	7,168.80	-4,108.85	512.09	4,140.64	0.00	0.00	0.00
11,837.41	91.22	180.00	7,168.00	-4,146.26	512.09	4,177.76	0.00	0.00	0.00
TD at 11837.41 - CAMP 38N-26HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
CAMP 38N-26HZ BHL	0.00	0.00	7,168.00	-4,146.26	512.09	1,313,080.80	3,213,571.61	40.190276	-104.735520
- plan hits target center									
- Point									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Company:	US ROCKIES REGION PLANNING	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site:	WELD_CAMP 5 PAD	North Reference:	True
Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 38N-26HZR		
Design:	CAMP 38N-26HZR (wp04) H&P 307		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
900.00	900.00	9 5/8"	9-5/8	12-1/4
7,654.21	7,257.00	7"	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,134.18	4,106.00	Parkman			
4,725.71	4,691.00	Sussex			
7,274.45	7,143.00	Sharon Springs			
7,398.77	7,206.00	Niobrara A			
7,479.49	7,234.00	Niobrara B			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
1,726.26	1,724.69	25.48	18.79	Start 4948.39 hold at 1726.26 MD
6,674.65	6,618.41	615.89	454.15	Start DLS 10.00 TFO 143.19
7,654.21	7,257.00	36.00	512.09	Start DLS 1.00 TFO 0.00
7,665.44	7,256.77	24.77	512.09	Start 4171.97 hold at 7665.44 MD
11,837.41	7,168.00	-4,146.26	512.09	TD at 11837.41

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP 5 PAD

CAMP 38N-26HZR

CAMP 38N-26HZR

CAMP 38N-26HZR (wp04) H&P 307

Anticollision Report

06 February, 2012

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Reference	CAMP 38N-26HZR (wp04) H&P 307		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria	WARNING: There is hidden tight data in this project	
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2/6/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	11,837.41	CAMP 38N-26HZR (wp04) H&P 307 (CAM	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_CAMP 5 PAD						
ART 14-26 offset - ART 14-26 - ART 14-26	11,767.25	7,173.24	2,797.58	2,695.95	27.528	CC
ART 14-26 offset - ART 14-26 - ART 14-26	11,837.41	7,180.01	2,798.45	2,695.43	27.165	ES, SF
BEIERLE 5-26 offset - BEIERLE 5-26 - BEIERLE 5-26	1,344.33	1,327.16	3,865.18	3,859.35	662.630	CC, ES
BEIERLE 5-26 offset - BEIERLE 5-26 - BEIERLE 5-26	11,837.41	7,002.58	5,004.56	4,901.37	48.495	SF
BROWN 35-26 offset - BROWN 35-26 - BROWN 35-26	11,837.41	7,200.16	3,705.51	3,600.74	35.369	CC, ES, SF
CAMP 10-26 offset - CAMP 10-26 - CAMP 10-26	10,088.00	7,128.11	1,741.67	1,675.13	26.174	CC
CAMP 10-26 offset - CAMP 10-26 - CAMP 10-26	10,100.00	7,127.58	1,741.72	1,674.96	26.092	ES
CAMP 10-26 offset - CAMP 10-26 - CAMP 10-26	11,000.00	7,087.41	1,965.52	1,881.85	23.493	SF
CAMP 15N-26HZ - CAMP 15N-26HZ - CAMP 15N-26HZ	1,300.00	1,300.00	37.99	32.43	6.829	CC, ES
CAMP 15N-26HZ - CAMP 15N-26HZ - CAMP 15N-26HZ	1,400.00	1,398.94	40.34	34.34	6.724	SF
CAMP 21-26X offset - CAMP 21-26X - CAMP 21-26X	3,344.39	3,546.00	1,932.86	1,925.14	250.396	CC, ES
CAMP 21-26X offset - CAMP 21-26X - CAMP 21-26X	11,700.00	6,989.54	4,187.11	4,094.62	45.268	SF
CAMP 24-26 offset - CAMP 24-26 - CAMP 24-26	9,635.03	7,162.56	1,083.59	1,025.77	18.740	CC, ES
CAMP 24-26 offset - CAMP 24-26 - CAMP 24-26	10,000.00	7,157.37	1,143.39	1,078.91	17.731	SF
CAMP 36-26 offset - CAMP 36-26 - CAMP 36-26	11,837.41	7,241.54	2,107.80	2,003.98	20.303	CC, ES, SF
Camp 36N-26HZ - Camp 36N-26HZ - Camp 36N-26HZ (1,100.00	1,100.00	57.28	52.61	12.281	CC, ES
Camp 36N-26HZ - Camp 36N-26HZ - Camp 36N-26HZ (1,300.00	1,296.43	63.08	57.54	11.394	SF
CAMP 37-26 offset - CAMP 37-26 - CAMP 37-26	11,837.41	7,212.04	1,007.35	901.92	9.555	CC, ES, SF
CAMP 37N-26HZ - CAMP 37N-26HZ - CAMP 37N-26HZ	1,300.00	1,300.00	21.32	15.75	3.832	CC, ES
CAMP 37N-26HZ - CAMP 37N-26HZ - CAMP 37N-26HZ	1,400.00	1,399.98	22.91	16.91	3.815	SF
CAMP 38C-26HZ - CAMP 38C-26HZ - CAMP 38C-26HZ	1,100.00	1,100.00	21.31	16.65	4.569	CC, ES
CAMP 38C-26HZ - CAMP 38C-26HZ - CAMP 38C-26HZ	11,837.41	12,084.04	244.80	160.40	2.901	SF
CAMP 39-26 offset - CAMP 39-26 - CAMP 39-26	11,091.28	7,248.33	263.19	177.23	3.062	CC
CAMP 39-26 offset - CAMP 39-26 - CAMP 39-26	11,100.00	7,248.21	263.33	177.22	3.058	ES, SF
CAMP 7-26 offset - CAMP 7-26 - CAMP 7-26	9,208.95	7,161.99	1,870.34	1,820.39	37.447	CC, ES
CAMP 7-26 offset - CAMP 7-26 - CAMP 7-26	10,500.00	7,100.00	2,271.71	2,198.37	30.976	SF
CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LE	100.00	62.78	1,134.43	1,134.26	6,763.199	CC
CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LE	500.00	461.29	1,135.02	1,132.98	556.519	ES
CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LE	9,300.00	7,190.92	1,455.38	1,401.68	27.103	SF
HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR	10,886.57	7,151.56	2,836.10	2,750.89	33.283	CC
HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR	10,900.00	7,150.80	2,836.13	2,750.68	33.188	ES
HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR	11,837.41	7,098.16	2,990.77	2,887.25	28.891	SF
HSR-BLACKFORD 1-26 offset - HSR-BLACKFORD 1-26	2,416.30	2,379.24	170.90	160.10	15.825	CC, ES
HSR-BLACKFORD 1-26 offset - HSR-BLACKFORD 1-26	7,710.79	7,233.63	407.35	374.73	12.487	SF
HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-2	10,348.54	7,049.13	4,339.01	4,266.71	60.009	CC
HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-2	10,400.00	7,047.71	4,339.32	4,266.08	59.252	ES
HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-2	11,837.41	7,004.65	4,587.14	4,486.27	45.478	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_CAMP 5 PAD						
HSR-FOGELMAN 6-26 offset - HSR-FOGELMAN 6-26 -	100.00	30.75	2,741.80	2,741.67	10,000.000	CC
HSR-FOGELMAN 6-26 offset - HSR-FOGELMAN 6-26 -	1,300.00	1,222.39	2,742.70	2,736.98	479.246	ES
HSR-FOGELMAN 6-26 offset - HSR-FOGELMAN 6-26 -	11,837.41	6,900.00	4,152.70	4,052.93	41.625	SF
HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILL	11,676.93	7,157.74	1,450.55	1,352.70	14.823	CC
HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILL	11,700.00	7,157.32	1,450.74	1,352.46	14.761	ES
HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILL	11,837.41	7,154.89	1,459.40	1,358.45	14.457	SF
HSR-ROZEMA 4-26 offset - HSR-ROZEMA 4-26 - HSR-	100.00	11.01	3,573.17	3,573.07	10,000.000	CC
HSR-ROZEMA 4-26 offset - HSR-ROZEMA 4-26 - HSR-	1,300.00	1,204.99	3,576.25	3,570.77	652.698	ES
HSR-ROZEMA 4-26 offset - HSR-ROZEMA 4-26 - HSR-	11,837.41	7,092.58	5,843.57	5,742.49	57.813	SF
HSR-RUSSELL 3-26A offset - HSR-Russell 3-26A - HSR	291.72	223.73	2,422.58	2,421.64	2,559.903	CC
HSR-RUSSELL 3-26A offset - HSR-Russell 3-26A - HSR	300.00	230.76	2,422.59	2,421.61	2,484.796	ES
HSR-RUSSELL 3-26A offset - HSR-Russell 3-26A - HSR	11,837.41	7,054.23	5,077.09	4,978.06	51.269	SF
HSR-SHOWALTER 16-26 offset - HSR-SHOWALTER 1	11,679.98	7,162.65	581.51	479.76	5.715	CC
HSR-SHOWALTER 16-26 offset - HSR-SHOWALTER 1	11,700.00	7,162.35	581.85	479.74	5.698	ES, SF
HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINT	100.00	56.66	1,029.34	1,029.18	6,446.369	CC
HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINT	1,300.29	1,264.41	1,030.17	1,024.59	184.644	ES
HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINT	9,400.00	7,100.00	2,282.93	2,226.74	40.624	SF
HSR-SKELLY 9-26 offset - HSR-SKELLY 9-26 - HSR SK	10,437.27	7,200.00	265.76	192.65	3.635	CC, ES, SF
HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - H	10,184.59	7,123.14	3,247.57	3,178.72	47.167	CC
HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - H	10,200.00	7,122.15	3,247.60	3,178.48	46.981	ES
HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - H	11,837.41	7,045.97	3,642.94	3,542.53	36.284	SF
HSR-TERRY 8-26 offset - HSR-TERRY 8-26 - HSR-TER	8,926.17	7,219.13	388.68	340.52	8.071	CC, ES
HSR-TERRY 8-26 offset - HSR-TERRY 8-26 - HSR-TER	9,000.00	7,214.71	395.60	346.38	8.036	SF
HSR-THOMPSON 2-26 offset - HSR-THOMPSON 2-26 -	1,440.36	1,449.86	976.28	970.01	155.747	CC, ES
HSR-THOMPSON 2-26 offset - HSR-THOMPSON 2-26 -	8,600.00	7,260.71	1,488.00	1,444.19	33.968	SF
J V SHIELDS GAS 1 offset - J V SHIELDS GAS 1 - J V S	11,071.23	7,129.62	3,905.52	3,816.78	44.007	CC
J V SHIELDS GAS 1 offset - J V SHIELDS GAS 1 - J V S	11,100.00	7,128.01	3,905.63	3,816.35	43.749	ES
J V SHIELDS GAS 1 offset - J V SHIELDS GAS 1 - J V S	11,837.41	7,086.60	3,979.74	3,876.22	38.444	SF
LEWIS CAMP-C 2 offset - LEWIS CAMP-C 2 - LEWIS C	10,786.78	7,157.68	1,245.59	1,164.52	15.363	CC
LEWIS CAMP-C 2 offset - LEWIS CAMP-C 2 - LEWIS C	10,800.00	7,157.76	1,245.66	1,164.34	15.318	ES
LEWIS CAMP-C 2 offset - LEWIS CAMP-C 2 - LEWIS C	11,200.00	7,160.02	1,312.34	1,223.26	14.732	SF
SHIELDS J V 2 offset - SHIELDS J V 2 - SHIELDS J V 2	1,334.16	1,285.45	3,571.32	3,565.60	624.597	CC, ES
SHIELDS J V 2 offset - SHIELDS J V 2 - SHIELDS J V 2	11,837.41	6,971.04	5,204.12	5,101.05	50.490	SF

Offset Design													WELD_CAMP 5 PAD - ART 14-26 offset - ART 14-26 - ART 14-26		Offset Site Error:		0.00 ft	
Survey Program: 913-NS-GYRO-MS													Offset Well Error:		0.00 ft			
Reference		Offset		Semi Major Axis				Distance						Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor						
0.00	0.00	0.00	0.00	0.00	0.00	-146.40	-3,390.31	-2,252.51	4,070.67									
100.00	100.00	50.08	50.08	0.08	0.07	-146.40	-3,390.31	-2,252.52	4,070.39	4,070.23	0.15	N/A						
200.00	200.00	148.26	148.26	0.31	0.20	-146.40	-3,390.33	-2,252.57	4,070.43	4,069.92	0.51	8,043.955						
300.00	300.00	246.45	246.45	0.53	0.33	-146.40	-3,390.36	-2,252.68	4,070.52	4,069.66	0.86	4,727.112						
400.00	400.00	344.63	344.63	0.76	0.46	-146.40	-3,390.42	-2,252.83	4,070.65	4,069.44	1.22	3,347.088						
500.00	500.00	442.82	442.82	0.98	0.59	-146.40	-3,390.49	-2,253.04	4,070.83	4,069.26	1.57	2,590.817						
600.00	600.00	541.01	541.01	1.21	0.72	-146.39	-3,390.58	-2,253.31	4,071.06	4,069.13	1.93	2,113.373						
700.00	700.00	639.19	639.19	1.43	0.85	-146.39	-3,390.68	-2,253.62	4,071.32	4,069.04	2.28	1,784.567						
800.00	800.00	737.38	737.38	1.66	0.98	-146.39	-3,390.81	-2,253.99	4,071.64	4,069.00	2.64	1,544.344						
900.00	900.00	835.56	835.56	1.88	1.11	-146.38	-3,390.95	-2,254.41	4,071.99	4,069.00	2.99	1,361.162						
1,000.00	1,000.00	934.35	934.35	2.11	1.27	-146.38	-3,391.10	-2,254.89	4,072.39	4,069.02	3.37	1,207.247						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - ART 14-26 offset - ART 14-26 - ART 14-26													Offset Site Error:	0.00 ft
Survey Program: 913-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
1,100.00	1,100.00	1,035.40	1,035.39	2.33	1.52	-146.37	-3,391.12	-2,255.58	4,072.79	4,068.93	3.85	1,056.625		
1,200.00	1,200.00	1,136.45	1,136.43	2.56	1.78	-146.36	-3,390.93	-2,256.54	4,073.16	4,068.82	4.34	939.435		
1,300.00	1,300.00	1,228.75	1,228.73	2.78	2.02	-146.34	-3,390.66	-2,257.65	4,073.58	4,068.78	4.80	849.193		
1,400.00	1,399.98	1,317.23	1,317.20	3.00	2.24	177.27	-3,390.56	-2,258.89	4,076.01	4,070.76	5.25	776.046		
1,500.00	1,499.84	1,420.00	1,419.96	3.23	2.51	177.28	-3,390.68	-2,260.55	4,082.23	4,076.50	5.74	711.483		
1,600.00	1,599.45	1,509.19	1,509.14	3.45	2.74	177.30	-3,390.78	-2,262.15	4,092.00	4,085.81	6.19	661.388		
1,700.00	1,698.70	1,615.49	1,615.41	3.69	3.02	177.32	-3,390.60	-2,264.17	4,105.09	4,098.41	6.68	614.947		
1,800.00	1,797.61	1,720.85	1,720.76	3.95	3.29	177.35	-3,390.14	-2,266.29	4,120.52	4,113.35	7.17	574.942		
1,900.00	1,896.51	1,825.63	1,825.51	4.22	3.56	177.39	-3,389.54	-2,268.32	4,135.92	4,128.26	7.66	539.945		
2,000.00	1,995.40	1,929.88	1,929.74	4.51	3.82	177.43	-3,388.84	-2,270.23	4,151.19	4,143.04	8.15	509.168		
2,100.00	2,094.30	2,026.63	2,026.47	4.80	4.06	177.46	-3,388.27	-2,271.83	4,166.42	4,157.81	8.62	483.588		
2,200.00	2,193.19	2,123.37	2,123.21	5.10	4.29	177.49	-3,387.89	-2,273.21	4,181.70	4,172.62	9.08	460.541		
2,300.00	2,292.09	2,220.11	2,219.94	5.41	4.52	177.51	-3,387.72	-2,274.38	4,197.03	4,187.49	9.55	439.680		
2,400.00	2,390.98	2,316.84	2,316.67	5.72	4.75	177.53	-3,387.75	-2,275.33	4,212.41	4,202.40	10.01	420.715		
2,500.00	2,489.88	2,413.57	2,413.39	6.04	4.99	177.55	-3,387.98	-2,276.07	4,227.84	4,217.36	10.48	403.405		
2,600.00	2,588.77	2,514.84	2,514.66	6.36	5.23	177.56	-3,388.40	-2,276.65	4,243.31	4,232.35	10.96	387.204		
2,700.00	2,687.67	2,626.14	2,625.96	6.68	5.49	177.58	-3,388.37	-2,277.57	4,258.56	4,247.10	11.46	371.618		
2,800.00	2,786.56	2,727.35	2,727.15	7.01	5.73	177.60	-3,387.85	-2,278.73	4,273.58	4,261.64	11.94	358.012		
2,900.00	2,885.46	2,817.93	2,817.73	7.34	5.95	177.62	-3,387.62	-2,279.61	4,288.73	4,276.34	12.39	346.145		
3,000.00	2,984.36	2,908.46	2,908.26	7.67	6.16	177.64	-3,387.78	-2,280.25	4,304.06	4,291.22	12.84	335.118		
3,100.00	3,083.25	3,004.70	3,004.49	8.00	6.38	177.65	-3,388.25	-2,280.72	4,319.55	4,306.24	13.30	324.716		
3,200.00	3,182.15	3,103.30	3,103.10	8.34	6.60	177.66	-3,388.77	-2,281.16	4,335.04	4,321.28	13.76	314.951		
3,300.00	3,281.04	3,201.91	3,201.70	8.67	6.82	177.66	-3,389.33	-2,281.56	4,350.54	4,336.32	14.23	305.813		
3,400.00	3,379.94	3,300.71	3,300.50	9.01	7.05	177.67	-3,389.90	-2,281.95	4,366.04	4,351.35	14.69	297.181		
3,500.00	3,478.83	3,399.55	3,399.33	9.35	7.27	177.68	-3,390.45	-2,282.35	4,381.55	4,366.39	15.16	289.060		
3,600.00	3,577.73	3,492.05	3,491.84	9.69	7.48	177.69	-3,390.99	-2,282.73	4,397.06	4,381.46	15.60	281.825		
3,700.00	3,676.62	3,577.15	3,576.92	10.03	7.61	177.68	-3,392.20	-2,282.57	4,412.92	4,396.94	15.98	276.177		
3,800.00	3,775.52	3,659.00	3,658.76	10.37	7.71	177.67	-3,393.68	-2,282.07	4,428.90	4,412.58	16.32	271.357		
3,900.00	3,874.41	3,722.00	3,721.73	10.72	7.80	177.66	-3,395.61	-2,281.72	4,445.81	4,429.16	16.65	266.972		
4,000.00	3,973.31	3,760.51	3,760.20	11.06	7.86	177.65	-3,397.35	-2,281.56	4,463.78	4,446.82	16.96	263.204		
4,100.00	4,072.20	3,847.05	3,846.64	11.40	8.01	177.62	-3,401.49	-2,281.43	4,482.42	4,465.07	17.35	258.361		
4,200.00	4,171.10	3,955.95	3,955.39	11.75	8.18	177.58	-3,406.97	-2,280.28	4,500.73	4,482.97	17.76	253.431		
4,300.00	4,269.99	4,010.08	4,009.40	12.09	8.26	177.55	-3,410.44	-2,279.12	4,519.63	4,501.55	18.08	249.925		
4,400.00	4,368.89	4,187.70	4,186.56	12.44	8.52	177.44	-3,422.34	-2,275.17	4,539.12	4,520.53	18.59	244.216		
4,500.00	4,467.78	4,244.17	4,242.78	12.78	8.59	177.38	-3,426.70	-2,272.19	4,557.34	4,538.43	18.90	241.115		
4,600.00	4,566.68	4,311.79	4,310.17	13.13	8.69	177.32	-3,431.69	-2,269.70	4,576.21	4,556.96	19.24	237.821		
4,700.00	4,665.57	4,322.00	4,320.35	13.48	8.71	177.31	-3,432.39	-2,269.49	4,596.34	4,576.83	19.50	235.652		
4,800.00	4,764.47	4,359.24	4,357.46	13.82	8.78	177.29	-3,435.49	-2,269.05	4,617.81	4,597.99	19.82	232.982		
4,900.00	4,863.36	4,386.00	4,384.07	14.17	8.83	177.27	-3,438.34	-2,269.02	4,641.07	4,620.95	20.12	230.706		
5,000.00	4,962.26	4,386.00	4,384.07	14.52	8.83	177.27	-3,438.34	-2,269.02	4,666.00	4,645.63	20.36	229.134		
5,100.00	5,061.15	4,450.00	4,447.49	14.87	8.97	177.23	-3,446.88	-2,269.72	4,692.29	4,671.54	20.74	226.207		
5,200.00	5,160.05	4,450.00	4,447.49	15.21	8.97	177.23	-3,446.88	-2,269.72	4,719.87	4,698.88	20.99	224.859		
5,300.00	5,258.94	4,512.00	4,508.69	15.56	9.11	177.18	-3,456.60	-2,271.58	4,748.98	4,727.61	21.37	222.209		
5,400.00	5,357.84	4,538.69	4,535.00	15.91	9.17	177.17	-3,460.91	-2,272.83	4,779.07	4,757.39	21.68	220.442		
5,500.00	5,456.73	4,638.00	4,632.98	16.26	9.42	177.15	-3,475.38	-2,279.89	4,809.59	4,787.43	22.16	217.057		
5,600.00	5,555.63	4,701.00	4,695.09	16.61	9.59	177.15	-3,484.51	-2,285.24	4,840.66	4,818.10	22.56	214.603		
5,700.00	5,654.52	4,701.00	4,695.09	16.96	9.59	177.15	-3,484.51	-2,285.24	4,872.76	4,849.96	22.80	213.682		
5,800.00	5,753.42	4,729.62	4,723.15	17.31	9.66	177.14	-3,489.67	-2,287.40	4,906.38	4,883.26	23.12	212.242		
5,900.00	5,852.31	4,764.00	4,756.70	17.66	9.74	177.12	-3,496.85	-2,289.58	4,941.36	4,917.92	23.44	210.780		
6,000.00	5,951.21	4,808.41	4,799.86	18.01	9.85	177.07	-3,507.05	-2,291.86	4,977.41	4,953.62	23.79	209.242		
6,100.00	6,050.10	4,909.53	4,898.01	18.36	10.10	176.96	-3,531.11	-2,295.43	5,013.49	4,989.24	24.25	206.728		
6,200.00	6,149.00	4,953.00	4,940.04	18.71	10.21	176.90	-3,542.16	-2,296.40	5,050.21	5,025.62	24.59	205.366		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - ART 14-26 offset - ART 14-26 - ART 14-26													Offset Site Error:	0.00 ft
Survey Program: 913-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
6,300.00	6,247.89	5,801.00	5,769.11	19.06	12.17	175.70	-3,709.53	-2,274.97	5,077.25	5,050.67	26.59	190.976		
6,400.00	6,346.79	5,801.00	5,769.11	19.41	12.17	175.70	-3,709.53	-2,274.97	5,101.29	5,074.45	26.83	190.103		
6,500.00	6,445.68	5,832.00	5,799.69	19.76	12.24	175.66	-3,714.36	-2,273.31	5,126.69	5,099.54	27.15	188.844		
6,600.00	6,544.58	5,832.00	5,799.69	20.11	12.24	175.66	-3,714.36	-2,273.31	5,153.79	5,126.39	27.40	188.120		
6,700.00	6,643.53	5,864.00	5,830.98	20.44	12.32	162.15	-3,720.80	-2,271.53	5,181.97	5,154.23	27.73	186.843		
6,800.00	6,743.00	5,864.00	5,830.98	20.62	12.32	72.97	-3,720.80	-2,271.53	5,201.23	5,173.32	27.91	186.360		
6,900.00	6,840.75	5,895.00	5,861.11	20.64	12.39	48.94	-3,727.93	-2,270.07	5,207.24	5,179.73	27.52	189.232		
7,000.00	6,933.82	5,927.00	5,892.19	20.54	12.48	42.75	-3,735.49	-2,269.03	5,199.59	5,173.03	26.57	195.718		
7,100.00	7,019.36	5,958.00	5,922.25	20.31	12.56	41.03	-3,743.01	-2,268.32	5,178.41	5,153.18	25.24	205.169		
7,200.00	7,094.79	5,990.00	5,953.15	20.01	12.65	41.54	-3,751.33	-2,267.77	5,144.51	5,120.64	23.87	215.528		
7,300.00	7,157.81	6,013.63	5,975.87	19.66	12.71	43.77	-3,757.79	-2,267.35	5,098.59	5,075.69	22.90	222.615		
7,400.00	7,206.51	6,117.00	6,075.44	19.29	13.00	48.45	-3,785.51	-2,265.69	5,041.04	5,017.76	23.28	216.532		
7,500.00	7,239.40	6,137.10	6,094.82	18.94	13.05	54.82	-3,790.84	-2,265.63	4,974.21	4,949.56	24.65	201.813		
7,600.00	7,255.49	6,160.31	6,117.17	18.63	13.12	63.92	-3,797.10	-2,265.56	4,900.16	4,873.06	27.10	180.850		
7,700.00	7,256.04	6,179.00	6,135.16	18.39	13.17	70.37	-3,802.16	-2,265.58	4,821.46	4,792.72	28.74	167.758		
7,800.00	7,253.91	6,194.83	6,150.40	18.51	13.22	70.65	-3,806.47	-2,265.60	4,742.70	4,713.49	29.21	162.373		
7,900.00	7,251.78	6,210.00	6,164.98	19.20	13.26	70.92	-3,810.65	-2,265.59	4,664.67	4,634.81	29.86	156.220		
8,000.00	7,249.65	6,210.00	6,164.98	20.08	13.26	70.92	-3,810.65	-2,265.59	4,587.45	4,556.86	30.59	149.982		
8,100.00	7,247.53	6,210.00	6,164.98	21.07	13.26	70.92	-3,810.65	-2,265.59	4,511.13	4,479.66	31.46	143.380		
8,200.00	7,245.40	6,233.47	6,187.48	22.17	13.33	71.34	-3,817.29	-2,265.62	4,435.53	4,402.91	32.62	135.983		
8,300.00	7,243.27	6,241.35	6,195.03	23.36	13.35	71.48	-3,819.58	-2,265.66	4,360.97	4,327.18	33.79	129.071		
8,400.00	7,241.14	6,249.47	6,202.79	24.64	13.38	71.62	-3,821.97	-2,265.72	4,287.39	4,252.34	35.05	122.311		
8,500.00	7,239.01	6,272.00	6,224.27	25.98	13.44	72.03	-3,828.77	-2,265.97	4,214.93	4,178.43	36.49	115.493		
8,600.00	7,236.89	6,272.00	6,224.27	27.39	13.44	72.03	-3,828.77	-2,265.97	4,143.41	4,105.55	37.86	109.447		
8,700.00	7,234.76	6,272.00	6,224.27	28.85	13.44	72.03	-3,828.77	-2,265.97	4,073.08	4,033.81	39.28	103.701		
8,800.00	7,232.63	6,272.00	6,224.27	30.36	13.44	72.03	-3,828.77	-2,265.97	4,004.02	3,963.28	40.74	98.270		
8,900.00	7,230.50	6,290.47	6,241.83	31.91	13.50	72.36	-3,834.49	-2,266.33	3,936.13	3,893.75	42.38	92.868		
9,000.00	7,228.38	6,304.00	6,254.66	33.49	13.54	72.60	-3,838.75	-2,266.73	3,869.64	3,825.62	44.03	87.893		
9,100.00	7,226.25	6,318.29	6,268.20	35.11	13.59	72.86	-3,843.30	-2,267.19	3,804.51	3,758.81	45.71	83.235		
9,200.00	7,224.12	6,382.50	6,329.07	36.75	13.78	74.03	-3,863.65	-2,268.87	3,740.57	3,692.79	47.78	78.284		
9,300.00	7,221.99	6,462.00	6,404.93	38.41	14.02	75.51	-3,887.31	-2,271.23	3,677.71	3,627.72	49.99	73.567		
9,400.00	7,219.86	6,478.22	6,420.44	40.10	14.07	75.81	-3,892.04	-2,271.66	3,616.12	3,564.35	51.77	69.848		
9,500.00	7,217.74	6,495.20	6,436.66	41.80	14.13	76.13	-3,897.03	-2,272.16	3,556.16	3,502.58	53.58	66.375		
9,600.00	7,215.61	6,594.63	6,532.03	43.53	14.43	78.02	-3,925.02	-2,274.91	3,497.57	3,441.58	55.98	62.475		
9,700.00	7,213.48	6,620.90	6,557.29	45.26	14.51	78.52	-3,932.22	-2,275.44	3,440.43	3,382.43	58.00	59.321		
9,800.00	7,211.35	6,695.69	6,629.33	47.01	14.73	79.96	-3,952.30	-2,276.54	3,384.84	3,324.34	60.51	55.943		
9,900.00	7,209.22	6,747.00	6,679.03	48.77	14.89	80.96	-3,965.01	-2,277.34	3,330.92	3,268.12	62.81	53.036		
10,000.00	7,207.10	6,766.49	6,697.95	50.54	14.95	81.34	-3,969.68	-2,277.66	3,278.93	3,214.10	64.83	50.575		
10,100.00	7,204.97	6,778.00	6,709.11	52.32	14.98	81.57	-3,972.49	-2,277.83	3,229.10	3,162.30	66.80	48.339		
10,200.00	7,202.84	6,778.00	6,709.11	54.11	14.98	81.57	-3,972.49	-2,277.83	3,181.61	3,112.93	68.68	46.327		
10,300.00	7,200.71	6,778.00	6,709.11	55.91	14.98	81.57	-3,972.49	-2,277.83	3,136.58	3,066.02	70.56	44.453		
10,400.00	7,198.59	6,778.00	6,709.11	57.72	14.98	81.57	-3,972.49	-2,277.83	3,094.13	3,021.68	72.45	42.709		
10,500.00	7,196.46	6,778.00	6,709.11	59.53	14.98	81.57	-3,972.49	-2,277.83	3,054.37	2,980.03	74.34	41.085		
10,600.00	7,194.33	6,778.00	6,709.11	61.34	14.98	81.57	-3,972.49	-2,277.83	3,017.40	2,941.16	76.24	39.577		
10,700.00	7,192.20	6,778.00	6,709.11	63.17	14.98	81.57	-3,972.49	-2,277.83	2,983.32	2,905.17	78.15	38.176		
10,800.00	7,190.07	6,778.00	6,709.11	64.99	14.98	81.57	-3,972.49	-2,277.83	2,952.24	2,872.19	80.06	36.878		
10,900.00	7,187.95	6,778.00	6,709.11	66.83	14.98	81.57	-3,972.49	-2,277.83	2,924.25	2,842.28	81.97	35.675		
11,000.00	7,185.82	7,069.69	6,925.54	68.66	15.77	86.00	-4,057.77	-2,280.94	2,899.36	2,813.43	85.93	33.741		
11,100.00	7,183.69	7,088.66	6,944.23	70.50	15.82	86.38	-4,060.96	-2,281.49	2,874.96	2,786.95	88.01	32.668		
11,200.00	7,181.56	7,106.88	6,962.20	72.35	15.87	86.75	-4,063.95	-2,282.00	2,853.76	2,763.68	90.08	31.681		
11,300.00	7,179.44	7,124.58	6,979.66	74.19	15.92	87.11	-4,066.81	-2,282.49	2,835.84	2,743.69	92.15	30.774		
11,400.00	7,177.31	7,136.52	6,991.45	76.04	15.96	87.35	-4,068.69	-2,282.81	2,821.28	2,727.10	94.18	29.957		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - ART 14-26 offset - ART 14-26 - ART 14-26												Offset Site Error:	0.00 ft
Survey Program: 913-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
11,500.00	7,175.18	7,146.93	7,001.73	77.90	15.99	87.57	-4,070.29	-2,283.12	2,810.16	2,713.96	96.20	29.212	
11,600.00	7,173.05	7,159.00	7,013.66	79.75	16.02	87.81	-4,072.08	-2,283.49	2,802.51	2,704.28	98.23	28.529	
11,700.00	7,170.92	7,166.60	7,021.18	81.61	16.04	87.96	-4,073.19	-2,283.73	2,798.38	2,698.14	100.24	27.917	
11,767.25	7,169.49	7,173.24	7,027.74	82.86	16.06	88.10	-4,074.14	-2,283.95	2,797.58	2,695.95	101.63	27.528 CC	
11,800.00	7,168.80	7,176.42	7,030.88	83.47	16.07	88.16	-4,074.60	-2,284.05	2,797.77	2,695.51	102.26	27.359	
11,837.41	7,168.00	7,180.01	7,034.44	84.17	16.08	88.24	-4,075.11	-2,284.17	2,798.45	2,695.43	103.02	27.165 ES, SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - BEIERLE 5-26 offset - BEIERLE 5-26 - BEIERLE 5-26													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-112.83	-1,506.07	-3,577.54	3,882.24					
100.00	100.00	65.38	65.37	0.08	0.07	-112.82	-1,505.32	-3,577.54	3,881.49	3,881.33	0.16	N/A		
200.00	200.00	183.52	183.45	0.31	0.31	-112.77	-1,501.41	-3,577.54	3,880.18	3,879.56	0.61	6,327.474		
300.00	300.00	283.46	283.33	0.53	0.54	-112.72	-1,497.92	-3,577.54	3,878.83	3,877.76	1.07	3,639.484		
400.00	400.00	383.40	383.20	0.76	0.77	-112.67	-1,494.43	-3,577.54	3,877.48	3,875.96	1.52	2,553.682		
500.00	500.00	483.34	483.08	0.98	1.00	-112.62	-1,490.94	-3,577.54	3,876.13	3,874.16	1.97	1,966.482		
600.00	600.00	583.28	582.96	1.21	1.24	-112.58	-1,487.46	-3,577.54	3,874.79	3,872.37	2.42	1,598.576		
700.00	700.00	683.22	682.84	1.43	1.47	-112.53	-1,483.97	-3,577.54	3,873.45	3,870.58	2.88	1,346.448		
800.00	800.00	783.15	782.72	1.66	1.70	-112.48	-1,480.48	-3,577.54	3,872.12	3,868.79	3.33	1,162.877		
900.00	900.00	883.09	882.60	1.88	1.93	-112.43	-1,476.99	-3,577.54	3,870.78	3,867.00	3.78	1,023.248		
1,000.00	1,000.00	983.03	982.47	2.11	2.16	-112.39	-1,473.51	-3,577.54	3,869.45	3,865.21	4.24	913.470		
1,100.00	1,100.00	1,082.97	1,082.35	2.33	2.39	-112.34	-1,470.02	-3,577.54	3,868.12	3,863.43	4.69	824.894		
1,200.00	1,200.00	1,182.91	1,182.23	2.56	2.63	-112.29	-1,466.53	-3,577.54	3,866.79	3,861.65	5.14	751.919		
1,300.00	1,300.00	1,282.85	1,282.11	2.78	2.86	-112.24	-1,463.04	-3,577.54	3,865.47	3,859.88	5.60	690.758		
1,344.33	1,344.33	1,327.16	1,326.39	2.88	2.96	-148.63	-1,461.50	-3,577.54	3,865.18	3,859.35	5.83	662.630 CC, ES		
1,400.00	1,399.98	1,382.82	1,382.02	3.00	3.09	-148.61	-1,459.55	-3,577.54	3,865.64	3,859.56	6.08	635.460		
1,500.00	1,499.84	1,482.76	1,481.90	3.23	3.32	-148.57	-1,456.07	-3,577.54	3,868.79	3,862.26	6.52	592.926		
1,600.00	1,599.45	1,582.56	1,581.64	3.45	3.55	-148.53	-1,452.58	-3,577.53	3,874.91	3,867.95	6.96	556.485		
1,700.00	1,698.70	1,682.09	1,681.11	3.69	3.78	-148.48	-1,449.11	-3,577.53	3,884.01	3,876.61	7.40	524.973		
1,800.00	1,797.61	1,781.36	1,780.31	3.95	4.01	-148.51	-1,445.64	-3,577.53	3,895.26	3,887.41	7.85	496.083		
1,900.00	1,896.51	1,880.61	1,879.50	4.22	4.24	-148.58	-1,442.18	-3,577.53	3,906.62	3,898.30	8.32	469.696		
2,000.00	1,995.40	1,979.86	1,978.69	4.51	4.47	-148.64	-1,438.72	-3,577.53	3,917.99	3,909.20	8.79	445.861		
2,100.00	2,094.30	2,079.11	2,077.88	4.80	4.70	-148.71	-1,435.25	-3,577.53	3,929.36	3,920.10	9.26	424.263		
2,200.00	2,193.19	2,178.36	2,177.08	5.10	4.93	-148.77	-1,431.79	-3,577.53	3,940.73	3,930.99	9.74	404.630		
2,300.00	2,292.09	2,277.61	2,276.27	5.41	5.16	-148.84	-1,428.33	-3,577.53	3,952.11	3,941.89	10.22	386.724		
2,400.00	2,390.98	2,376.86	2,375.46	5.72	5.39	-148.90	-1,424.86	-3,577.53	3,963.50	3,952.80	10.70	370.344		
2,500.00	2,489.88	2,476.12	2,474.65	6.04	5.62	-148.97	-1,421.40	-3,577.53	3,974.89	3,963.70	11.19	355.313		
2,600.00	2,588.77	2,575.37	2,573.84	6.36	5.85	-149.03	-1,417.93	-3,577.53	3,986.29	3,974.61	11.67	341.480		
2,700.00	2,687.67	2,674.62	2,673.03	6.68	6.08	-149.09	-1,414.47	-3,577.53	3,997.69	3,985.53	12.16	328.715		
2,800.00	2,786.56	2,773.87	2,772.22	7.01	6.31	-149.16	-1,411.01	-3,577.53	4,009.09	3,996.44	12.65	316.902		
2,900.00	2,885.46	2,873.12	2,871.41	7.34	6.55	-149.22	-1,407.54	-3,577.53	4,020.50	4,007.36	13.14	305.944		
3,000.00	2,984.36	2,972.37	2,970.60	7.67	6.78	-149.28	-1,404.08	-3,577.53	4,031.92	4,018.28	13.63	295.753		
3,100.00	3,083.25	3,071.62	3,069.79	8.00	7.01	-149.34	-1,400.61	-3,577.53	4,043.34	4,029.21	14.12	286.256		
3,200.00	3,182.15	3,170.87	3,168.98	8.34	7.24	-149.41	-1,397.15	-3,577.53	4,054.76	4,040.14	14.62	277.384		
3,300.00	3,281.04	3,270.13	3,268.17	8.67	7.47	-149.47	-1,393.69	-3,577.53	4,066.19	4,051.08	15.11	269.081		
3,400.00	3,379.94	3,369.38	3,367.37	9.01	7.70	-149.53	-1,390.22	-3,577.53	4,077.62	4,062.02	15.61	261.294		
3,500.00	3,478.83	3,468.63	3,466.56	9.35	7.93	-149.59	-1,386.76	-3,577.53	4,089.06	4,072.96	16.10	253.978		
3,600.00	3,577.73	3,567.88	3,565.75	9.69	8.16	-149.65	-1,383.30	-3,577.52	4,100.50	4,083.91	16.59	247.093		
3,700.00	3,676.62	3,667.13	3,664.94	10.03	8.39	-149.71	-1,379.83	-3,577.52	4,111.95	4,094.86	17.09	240.601		
3,800.00	3,775.52	3,766.38	3,764.13	10.37	8.62	-149.77	-1,376.37	-3,577.52	4,123.40	4,105.81	17.59	234.471		
3,900.00	3,874.41	3,865.63	3,863.32	10.72	8.85	-149.83	-1,372.90	-3,577.52	4,134.85	4,116.77	18.08	228.675		
4,000.00	3,973.31	3,964.89	3,962.51	11.06	9.08	-149.89	-1,369.44	-3,577.52	4,146.31	4,127.74	18.58	223.185		
4,100.00	4,072.20	4,064.14	4,061.70	11.40	9.31	-149.94	-1,365.98	-3,577.52	4,157.78	4,138.70	19.07	217.979		
4,200.00	4,171.10	4,163.39	4,160.89	11.75	9.54	-150.00	-1,362.51	-3,577.52	4,169.25	4,149.68	19.57	213.035		
4,300.00	4,269.99	4,262.64	4,260.08	12.09	9.77	-150.06	-1,359.05	-3,577.52	4,180.72	4,160.65	20.07	208.335		
4,400.00	4,368.89	4,361.89	4,359.27	12.44	10.00	-150.12	-1,355.58	-3,577.52	4,192.20	4,171.63	20.56	203.861		
4,500.00	4,467.78	4,461.14	4,458.46	12.78	10.23	-150.17	-1,352.12	-3,577.52	4,203.68	4,182.62	21.06	199.598		
4,600.00	4,566.68	4,560.39	4,557.66	13.13	10.46	-150.23	-1,348.66	-3,577.52	4,215.16	4,193.60	21.56	195.530		
4,700.00	4,665.57	4,659.64	4,656.85	13.48	10.69	-150.29	-1,345.19	-3,577.52	4,226.65	4,204.60	22.05	191.645		
4,800.00	4,764.47	4,758.90	4,756.04	13.82	10.92	-150.34	-1,341.73	-3,577.52	4,238.14	4,215.59	22.55	187.932		
4,900.00	4,863.36	4,858.15	4,855.23	14.17	11.15	-150.40	-1,338.27	-3,577.52	4,249.64	4,226.59	23.05	184.378		
5,000.00	4,962.26	4,957.40	4,954.42	14.52	11.38	-150.46	-1,334.80	-3,577.52	4,261.14	4,237.60	23.55	180.975		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - BEIERLE 5-26 offset - BEIERLE 5-26 - BEIERLE 5-26													Offset Site Error:	0.00 ft
Survey Program: 0-MWMD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,056.65	5,053.61	14.87	11.61	-150.51	-1,331.34	-3,577.52	4,272.65	4,248.60	24.04	177.712		
5,200.00	5,160.05	5,155.90	5,152.80	15.21	11.84	-150.57	-1,327.87	-3,577.52	4,284.16	4,259.62	24.54	174.582		
5,300.00	5,258.94	5,255.15	5,251.99	15.56	12.07	-150.62	-1,324.41	-3,577.52	4,295.67	4,270.63	25.04	171.576		
5,400.00	5,357.84	5,354.40	5,351.18	15.91	12.30	-150.68	-1,320.95	-3,577.52	4,307.19	4,281.65	25.53	168.688		
5,500.00	5,456.73	5,453.65	5,450.37	16.26	12.53	-150.73	-1,317.48	-3,577.52	4,318.71	4,292.68	26.03	165.910		
5,600.00	5,555.63	5,552.91	5,549.56	16.61	12.76	-150.78	-1,314.02	-3,577.51	4,330.23	4,303.70	26.53	163.237		
5,700.00	5,654.52	5,652.16	5,648.75	16.96	12.99	-150.84	-1,310.56	-3,577.51	4,341.76	4,314.73	27.02	160.662		
5,800.00	5,753.42	5,751.41	5,747.94	17.31	13.22	-150.89	-1,307.09	-3,577.51	4,353.29	4,325.77	27.52	158.181		
5,900.00	5,852.31	5,850.66	5,847.14	17.66	13.45	-150.94	-1,303.63	-3,577.51	4,364.83	4,336.81	28.02	155.788		
6,000.00	5,951.21	5,949.91	5,946.33	18.01	13.68	-151.00	-1,300.16	-3,577.51	4,376.37	4,347.85	28.51	153.480		
6,100.00	6,050.10	6,049.16	6,045.52	18.36	13.91	-151.05	-1,296.70	-3,577.51	4,387.91	4,358.90	29.01	151.250		
6,200.00	6,149.00	6,148.41	6,144.71	18.71	14.14	-151.10	-1,293.24	-3,577.51	4,399.46	4,369.95	29.51	149.096		
6,300.00	6,247.89	6,247.66	6,243.90	19.06	14.37	-151.15	-1,289.77	-3,577.51	4,411.01	4,381.00	30.00	147.014		
6,400.00	6,346.79	6,346.92	6,343.09	19.41	14.60	-151.21	-1,286.31	-3,577.51	4,422.56	4,392.06	30.50	145.000		
6,500.00	6,445.68	6,446.17	6,442.28	19.76	14.83	-151.26	-1,282.84	-3,577.51	4,434.12	4,403.12	31.00	143.051		
6,600.00	6,544.58	6,545.42	6,541.47	20.11	15.06	-151.31	-1,279.38	-3,577.51	4,445.68	4,414.18	31.49	141.164		
6,700.00	6,643.53	6,644.71	6,640.70	20.44	15.29	-164.67	-1,275.92	-3,577.51	4,457.01	4,425.01	31.99	139.303		
6,800.00	6,743.00	6,744.08	6,740.01	20.62	15.52	106.73	-1,272.45	-3,577.51	4,463.06	4,430.67	32.39	137.782		
6,900.00	6,840.75	6,841.12	6,837.00	20.64	15.74	83.42	-1,269.06	-3,577.51	4,461.77	4,429.14	32.63	136.738		
7,000.00	6,933.82	6,932.90	6,928.72	20.54	15.96	78.02	-1,265.86	-3,577.51	4,453.40	4,420.64	32.76	135.959		
7,100.00	7,019.36	7,016.61	7,012.38	20.31	16.15	77.05	-1,262.94	-3,577.51	4,438.58	4,405.73	32.85	135.100		
7,200.00	7,094.79	7,089.72	7,085.44	20.01	16.32	78.05	-1,260.38	-3,577.51	4,418.23	4,385.22	33.00	133.868		
7,300.00	7,157.81	7,150.01	7,145.69	19.66	16.46	80.17	-1,258.28	-3,577.51	4,393.47	4,360.23	33.24	132.181		
7,400.00	7,206.51	7,195.64	7,191.29	19.29	16.57	82.96	-1,256.69	-3,577.51	4,365.54	4,332.01	33.53	130.191		
7,500.00	7,239.40	7,225.22	7,220.86	18.94	16.63	86.09	-1,255.66	-3,577.51	4,335.73	4,301.90	33.84	128.138		
7,600.00	7,255.49	7,237.87	7,233.50	18.63	16.66	89.28	-1,255.21	-3,577.51	4,305.25	4,271.13	34.12	126.167		
7,700.00	7,256.04	7,234.92	7,230.55	18.39	16.66	90.98	-1,255.32	-3,577.51	4,275.28	4,240.89	34.40	124.295		
7,800.00	7,253.91	7,229.30	7,224.94	18.51	16.64	90.90	-1,255.51	-3,577.51	4,247.25	4,212.45	34.80	122.051		
7,900.00	7,251.78	7,223.69	7,219.33	19.20	16.63	90.82	-1,255.71	-3,577.51	4,221.40	4,186.01	35.39	119.290		
8,000.00	7,249.65	7,218.07	7,213.72	20.08	16.62	90.75	-1,255.91	-3,577.51	4,197.76	4,161.60	36.16	116.087		
8,100.00	7,247.53	7,212.46	7,208.10	21.07	16.61	90.67	-1,256.10	-3,577.51	4,176.37	4,139.22	37.16	112.402		
8,200.00	7,245.40	7,206.84	7,202.49	22.17	16.59	90.59	-1,256.30	-3,577.51	4,157.27	4,118.99	38.28	108.598		
8,300.00	7,243.27	7,201.23	7,196.88	23.36	16.58	90.51	-1,256.49	-3,577.51	4,140.50	4,100.98	39.52	104.771		
8,400.00	7,241.14	7,195.61	7,191.27	24.64	16.57	90.43	-1,256.69	-3,577.51	4,126.07	4,085.22	40.85	100.997		
8,500.00	7,239.01	7,189.99	7,185.65	25.98	16.55	90.35	-1,256.89	-3,577.51	4,114.01	4,071.74	42.27	97.329		
8,600.00	7,236.89	7,184.38	7,180.04	27.39	16.54	90.27	-1,257.08	-3,577.51	4,104.35	4,060.60	43.75	93.805		
8,700.00	7,234.76	7,178.76	7,174.43	28.85	16.53	90.20	-1,257.28	-3,577.51	4,097.10	4,051.80	45.30	90.449		
8,800.00	7,232.63	7,173.15	7,168.82	30.36	16.51	90.12	-1,257.47	-3,577.51	4,092.27	4,045.38	46.89	87.272		
8,900.00	7,230.50	7,167.53	7,163.21	31.91	16.50	90.04	-1,257.67	-3,577.51	4,089.88	4,041.35	48.53	84.279		
8,948.26	7,229.48	7,164.82	7,160.50	32.67	16.49	90.00	-1,257.76	-3,577.51	4,089.60	4,040.22	49.38	82.817		
9,000.00	7,228.38	7,161.92	7,157.59	33.49	16.49	89.96	-1,257.87	-3,577.51	4,089.92	4,039.72	50.20	81.471		
9,100.00	7,226.25	7,156.30	7,151.98	35.11	16.48	89.88	-1,258.06	-3,577.51	4,092.40	4,040.50	51.91	78.843		
9,200.00	7,224.12	7,150.68	7,146.37	36.75	16.46	89.80	-1,258.26	-3,577.51	4,097.31	4,043.67	53.64	76.389		
9,300.00	7,221.99	7,145.07	7,140.76	38.41	16.45	89.72	-1,258.45	-3,577.51	4,104.65	4,049.25	55.39	74.100		
9,400.00	7,219.86	7,139.45	7,135.14	40.10	16.44	89.65	-1,258.65	-3,577.51	4,114.39	4,057.22	57.17	71.969		
9,500.00	7,217.74	7,133.84	7,129.53	41.80	16.42	89.57	-1,258.85	-3,577.51	4,126.53	4,067.57	58.96	69.985		
9,600.00	7,215.61	7,128.22	7,123.92	43.53	16.41	89.49	-1,259.04	-3,577.51	4,141.04	4,080.27	60.77	68.139		
9,700.00	7,213.48	7,122.61	7,118.31	45.26	16.40	89.41	-1,259.24	-3,577.51	4,157.90	4,095.30	62.60	66.423		
9,800.00	7,211.35	7,116.99	7,112.69	47.01	16.38	89.33	-1,259.43	-3,577.51	4,177.08	4,112.64	64.43	64.828		
9,900.00	7,209.22	7,111.37	7,107.08	48.77	16.37	89.25	-1,259.63	-3,577.51	4,198.54	4,132.26	66.28	63.345		
10,000.00	7,207.10	7,105.76	7,101.47	50.54	16.36	89.17	-1,259.83	-3,577.51	4,222.26	4,154.12	68.14	61.967		
10,100.00	7,204.97	7,100.14	7,095.86	52.32	16.34	89.10	-1,260.02	-3,577.51	4,248.19	4,178.19	70.00	60.686		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - BEIERLE 5-26 offset - BEIERLE 5-26 - BEIERLE 5-26												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,094.53	7,090.25	54.11	16.33	89.02	-1,260.22	-3,577.51	4,276.30	4,204.42	71.88	59.495	
10,300.00	7,200.71	7,088.91	7,084.63	55.91	16.32	88.94	-1,260.41	-3,577.51	4,306.53	4,232.78	73.76	58.388	
10,400.00	7,198.59	7,083.30	7,079.02	57.72	16.31	88.86	-1,260.61	-3,577.51	4,338.86	4,263.21	75.64	57.359	
10,500.00	7,196.46	7,077.68	7,073.41	59.53	16.29	88.78	-1,260.81	-3,577.51	4,373.22	4,295.69	77.54	56.403	
10,600.00	7,194.33	7,072.06	7,067.80	61.34	16.28	88.70	-1,261.00	-3,577.51	4,409.58	4,330.15	79.43	55.513	
10,700.00	7,192.20	7,066.45	7,062.18	63.17	16.27	88.62	-1,261.20	-3,577.51	4,447.89	4,366.55	81.34	54.685	
10,800.00	7,190.07	7,060.83	7,056.57	64.99	16.25	88.55	-1,261.39	-3,577.51	4,488.09	4,404.84	83.24	53.916	
10,900.00	7,187.95	7,055.22	7,050.96	66.83	16.24	88.47	-1,261.59	-3,577.51	4,530.13	4,444.97	85.15	53.200	
11,000.00	7,185.82	7,049.60	7,045.35	68.66	16.23	88.39	-1,261.79	-3,577.51	4,573.96	4,486.90	87.07	52.534	
11,100.00	7,183.69	7,043.99	7,039.74	70.50	16.21	88.31	-1,261.98	-3,577.51	4,619.54	4,530.56	88.98	51.914	
11,200.00	7,181.56	7,038.37	7,034.12	72.35	16.20	88.23	-1,262.18	-3,577.51	4,666.81	4,575.91	90.90	51.337	
11,300.00	7,179.44	7,032.75	7,028.51	74.19	16.19	88.15	-1,262.37	-3,577.51	4,715.72	4,622.89	92.83	50.801	
11,400.00	7,177.31	7,027.14	7,022.90	76.04	16.18	88.08	-1,262.57	-3,577.51	4,766.22	4,671.47	94.75	50.302	
11,500.00	7,175.18	7,021.52	7,017.29	77.90	16.16	88.00	-1,262.77	-3,577.51	4,818.26	4,721.58	96.68	49.837	
11,600.00	7,173.05	7,015.91	7,011.67	79.75	16.15	87.92	-1,262.96	-3,577.51	4,871.79	4,773.18	98.61	49.405	
11,700.00	7,170.92	7,010.29	7,006.06	81.61	16.14	87.84	-1,263.16	-3,577.51	4,926.76	4,826.22	100.54	49.002	
11,800.00	7,168.80	7,004.68	7,000.45	83.47	16.12	87.76	-1,263.35	-3,577.51	4,983.13	4,880.65	102.47	48.628	
11,837.41	7,168.00	7,002.58	6,998.35	84.17	16.12	87.73	-1,263.43	-3,577.51	5,004.56	4,901.37	103.20	48.495 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 12-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-156.44	-5,235.40	-2,283.13	5,711.66					
100.00	100.00	69.60	69.60	0.08	0.17	-156.44	-5,235.40	-2,283.15	5,711.58	5,711.33	0.25	N/A		
200.00	200.00	168.91	168.91	0.31	0.43	-156.44	-5,235.37	-2,283.25	5,711.59	5,710.85	0.74	7,702.467		
300.00	300.00	268.22	268.22	0.53	0.70	-156.43	-5,235.31	-2,283.45	5,711.62	5,710.39	1.23	4,643.855		
400.00	400.00	367.54	367.53	0.76	0.96	-156.43	-5,235.22	-2,283.75	5,711.66	5,709.94	1.72	3,323.954		
500.00	500.00	466.85	466.84	0.98	1.22	-156.43	-5,235.10	-2,284.14	5,711.71	5,709.50	2.21	2,588.310		
600.00	600.00	566.16	566.15	1.21	1.49	-156.42	-5,234.96	-2,284.63	5,711.77	5,709.07	2.70	2,119.293		
700.00	700.00	665.46	665.46	1.43	1.75	-156.42	-5,234.78	-2,285.21	5,711.84	5,708.66	3.18	1,794.189		
800.00	800.00	764.77	764.76	1.66	2.01	-156.41	-5,234.58	-2,285.89	5,711.93	5,708.25	3.67	1,555.572		
900.00	900.00	864.08	864.07	1.88	2.28	-156.40	-5,234.34	-2,286.66	5,712.02	5,707.86	4.16	1,372.984		
1,000.00	1,000.00	963.62	963.60	2.11	2.49	-156.40	-5,233.76	-2,286.94	5,711.64	5,707.04	4.60	1,241.436		
1,063.87	1,063.87	1,033.89	1,033.87	2.25	2.52	-156.40	-5,233.71	-2,286.83	5,711.51	5,706.74	4.77	1,197.234		
1,100.00	1,100.00	1,061.00	1,060.99	2.33	2.54	-156.40	-5,233.79	-2,286.75	5,711.56	5,706.69	4.87	1,172.945		
1,200.00	1,200.00	1,156.00	1,155.99	2.56	2.56	-156.40	-5,234.05	-2,286.56	5,711.73	5,706.62	5.11	1,116.944		
1,300.00	1,300.00	1,237.25	1,237.24	2.78	2.66	-156.40	-5,234.24	-2,286.77	5,712.07	5,706.62	5.45	1,048.838		
1,400.00	1,399.98	1,374.10	1,374.09	3.00	2.98	167.20	-5,234.27	-2,287.46	5,713.97	5,707.99	5.99	954.575		
1,500.00	1,499.84	1,465.88	1,465.85	3.23	3.21	167.19	-5,233.96	-2,288.24	5,719.11	5,712.67	6.44	888.326		
1,600.00	1,599.45	1,777.82	1,776.99	3.45	4.00	167.41	-5,220.52	-2,302.58	5,724.84	5,717.40	7.44	769.789		
1,700.00	1,698.70	1,940.74	1,938.38	3.69	4.42	167.63	-5,206.02	-2,319.44	5,732.92	5,724.85	8.07	710.365		
1,800.00	1,797.61	2,065.17	2,060.83	3.95	4.76	167.87	-5,191.83	-2,336.36	5,742.42	5,733.79	8.63	665.647		
1,900.00	1,896.51	2,241.03	2,232.46	4.22	5.25	168.30	-5,167.34	-2,365.62	5,750.95	5,741.61	9.35	615.300		
2,000.00	1,995.40	2,310.68	2,299.81	4.51	5.45	168.49	-5,156.38	-2,379.59	5,759.45	5,749.67	9.78	588.779		
2,100.00	2,094.30	2,564.70	2,542.25	4.80	6.24	169.29	-5,110.07	-2,439.38	5,767.81	5,757.02	10.79	534.557		
2,200.00	2,193.19	2,656.62	2,629.55	5.10	6.53	169.59	-5,091.40	-2,461.29	5,774.15	5,762.83	11.32	510.161		
2,300.00	2,292.09	2,765.33	2,732.71	5.41	6.89	169.95	-5,069.25	-2,487.48	5,780.74	5,768.83	11.91	485.484		
2,400.00	2,390.98	2,815.67	2,780.37	5.72	7.05	170.12	-5,058.91	-2,499.94	5,787.65	5,775.33	12.31	470.060		
2,500.00	2,489.88	2,869.00	2,830.98	6.04	7.23	170.30	-5,048.50	-2,513.16	5,795.55	5,782.82	12.73	455.286		
2,600.00	2,588.77	2,913.55	2,873.17	6.36	7.38	170.45	-5,039.98	-2,524.63	5,804.36	5,791.24	13.12	442.339		
2,700.00	2,687.67	2,974.11	2,930.12	6.68	7.59	170.66	-5,028.20	-2,541.53	5,814.02	5,800.45	13.57	428.455		
2,800.00	2,786.56	3,182.68	3,126.33	7.01	8.32	171.40	-4,986.31	-2,598.49	5,823.13	5,808.60	14.53	400.766		
2,900.00	2,885.46	3,251.00	3,190.95	7.34	8.56	171.63	-4,972.38	-2,615.76	5,831.48	5,816.48	15.01	388.531		
3,000.00	2,984.36	3,304.60	3,241.84	7.67	8.74	171.80	-4,961.97	-2,628.96	5,840.62	5,825.19	15.44	378.364		
3,100.00	3,083.25	3,346.00	3,281.28	8.00	8.89	171.93	-4,954.57	-2,639.17	5,850.99	5,835.16	15.82	369.777		
3,200.00	3,182.15	3,536.00	3,461.44	8.34	9.55	172.55	-4,917.93	-2,687.02	5,860.22	5,843.50	16.72	350.392		
3,300.00	3,281.04	3,618.88	3,540.83	8.67	9.84	172.80	-4,902.95	-2,705.50	5,869.82	5,852.57	17.25	340.291		
3,400.00	3,379.94	3,872.99	3,783.56	9.01	10.72	173.56	-4,852.90	-2,761.48	5,877.53	5,859.17	18.36	320.142		
3,500.00	3,478.83	3,945.90	3,852.70	9.35	10.98	173.79	-4,837.23	-2,778.55	5,885.11	5,866.25	18.86	312.032		
3,600.00	3,577.73	4,012.00	3,915.09	9.69	11.22	174.01	-4,822.96	-2,795.06	5,893.45	5,874.11	19.34	304.711		
3,700.00	3,676.62	4,095.69	3,994.03	10.03	11.53	174.29	-4,805.02	-2,816.28	5,902.31	5,882.43	19.89	296.793		
3,800.00	3,775.52	4,155.16	4,050.19	10.37	11.74	174.48	-4,792.44	-2,831.24	5,911.55	5,891.20	20.35	290.533		
3,900.00	3,874.41	4,202.00	4,094.30	10.72	11.92	174.64	-4,782.58	-2,843.55	5,921.61	5,900.85	20.76	285.208		
4,000.00	3,973.31	4,276.00	4,163.95	11.06	12.19	174.89	-4,767.28	-2,863.32	5,932.36	5,911.08	21.28	278.804		
4,100.00	4,072.20	4,372.08	4,254.27	11.40	12.55	175.22	-4,747.51	-2,889.44	5,943.59	5,921.71	21.88	271.682		
4,200.00	4,171.10	4,474.67	4,350.47	11.75	12.93	175.58	-4,725.90	-2,917.77	5,954.85	5,932.35	22.50	264.648		
4,300.00	4,269.99	4,539.63	4,411.84	12.09	13.17	175.79	-4,712.93	-2,934.67	5,966.43	5,943.44	22.98	259.602		
4,400.00	4,368.89	4,601.96	4,470.89	12.44	13.40	175.99	-4,701.05	-2,950.67	5,978.71	5,955.25	23.45	254.907		
4,500.00	4,467.78	4,678.00	4,542.86	12.78	13.68	176.23	-4,686.69	-2,970.62	5,991.59	5,967.62	23.98	249.906		
4,600.00	4,566.68	4,747.82	4,609.06	13.13	13.94	176.45	-4,673.92	-2,988.75	6,004.98	5,980.51	24.47	245.384		
4,700.00	4,665.57	4,953.90	4,804.45	13.48	14.69	177.09	-4,634.33	-3,040.88	6,017.13	5,991.67	25.46	236.336		
4,800.00	4,764.47	5,019.72	4,866.76	13.82	14.93	177.30	-4,621.31	-3,057.62	6,029.45	6,003.51	25.94	232.405		
4,900.00	4,863.36	5,059.00	4,904.13	14.17	15.08	177.42	-4,613.98	-3,067.24	6,042.47	6,016.14	26.33	229.476		
5,000.00	4,962.26	5,119.06	4,961.64	14.52	15.29	177.59	-4,603.78	-3,081.22	6,056.29	6,029.50	26.78	226.110		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - BROWN 35-26 offset - BROWN 35-26 - BROWN 35-26													Offset Site Error:	0.00 ft
Survey Program: 12-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,155.00	4,996.29	14.87	15.41	177.68	-4,598.40	-3,089.11	6,071.09	6,043.94	27.15	223.572		
5,200.00	5,160.05	5,233.30	5,072.36	15.21	15.67	177.86	-4,588.37	-3,104.71	6,086.55	6,058.90	27.65	220.097		
5,300.00	5,258.94	5,310.71	5,148.16	15.56	15.91	178.01	-4,580.27	-3,118.12	6,102.51	6,074.37	28.14	216.868		
5,400.00	5,357.84	5,526.45	5,361.10	15.91	16.55	178.35	-4,561.77	-3,147.04	6,118.08	6,089.07	29.01	210.903		
5,500.00	5,456.73	5,624.33	5,458.38	16.26	16.81	178.45	-4,555.15	-3,155.57	6,132.33	6,102.82	29.52	207.753		
5,600.00	5,555.63	5,702.69	5,536.44	16.61	17.02	178.52	-4,551.05	-3,160.97	6,146.81	6,116.84	29.96	205.139		
5,700.00	5,654.52	5,818.38	5,652.00	16.96	17.30	178.58	-4,547.65	-3,165.36	6,161.41	6,130.92	30.49	202.088		
5,800.00	5,753.42	5,952.87	5,786.46	17.31	17.57	178.60	-4,545.43	-3,166.23	6,175.17	6,144.17	31.00	199.173		
5,900.00	5,852.31	6,011.00	5,844.59	17.66	17.67	178.61	-4,544.85	-3,166.31	6,189.28	6,157.92	31.36	197.363		
6,000.00	5,951.21	6,084.69	5,918.27	18.01	17.83	178.61	-4,544.45	-3,166.61	6,203.90	6,172.14	31.76	195.339		
6,100.00	6,050.10	6,217.36	6,050.94	18.36	18.05	178.62	-4,543.95	-3,166.96	6,218.59	6,186.36	32.23	192.950		
6,200.00	6,149.00	6,297.00	6,130.58	18.71	18.17	178.63	-4,543.57	-3,166.91	6,233.00	6,200.41	32.60	191.222		
6,300.00	6,247.89	6,374.91	6,208.49	19.06	18.33	178.63	-4,543.28	-3,167.18	6,247.74	6,214.74	33.00	189.306		
6,400.00	6,346.79	6,503.66	6,337.24	19.41	18.51	178.64	-4,543.03	-3,167.44	6,262.53	6,229.10	33.43	187.320		
6,500.00	6,445.68	6,597.63	6,431.20	19.76	18.54	178.64	-4,543.05	-3,166.93	6,277.06	6,243.36	33.71	186.219		
6,600.00	6,544.58	6,688.94	6,522.51	20.11	18.53	178.64	-4,543.27	-3,166.34	6,291.70	6,257.75	33.95	185.333		
6,700.00	6,643.53	6,781.56	6,615.13	20.44	18.53	165.37	-4,543.46	-3,165.93	6,305.99	6,271.77	34.22	184.299		
6,800.00	6,743.00	6,867.00	6,700.57	20.62	18.57	77.04	-4,543.59	-3,165.86	6,310.19	6,275.85	34.34	183.759		
6,900.00	6,840.75	6,948.49	6,782.06	20.64	18.69	54.03	-4,543.70	-3,166.14	6,300.42	6,266.52	33.90	185.862		
7,000.00	6,933.82	7,043.48	6,877.05	20.54	18.88	49.10	-4,543.56	-3,167.11	6,276.96	6,243.89	33.07	189.825		
7,100.00	7,019.36	7,100.01	6,933.56	20.31	19.00	48.84	-4,543.26	-3,168.10	6,240.61	6,208.59	32.02	194.880		
7,200.00	7,094.79	7,153.00	6,986.54	20.01	19.12	51.20	-4,543.14	-3,169.34	6,192.92	6,161.63	31.29	197.951		
7,300.00	7,157.81	7,202.08	7,035.60	19.66	19.23	55.78	-4,543.06	-3,170.69	6,135.20	6,103.87	31.33	195.819		
7,400.00	7,206.51	7,343.00	7,176.47	19.29	19.55	63.75	-4,542.10	-3,174.25	6,069.11	6,036.29	32.82	184.903		
7,500.00	7,239.40	7,371.73	7,205.20	18.94	19.62	73.21	-4,541.75	-3,174.72	5,996.37	5,961.94	34.43	174.183		
7,600.00	7,255.49	7,384.45	7,217.92	18.63	19.65	84.60	-4,541.58	-3,174.96	5,919.95	5,884.36	35.58	166.372		
7,700.00	7,256.04	7,383.78	7,217.24	18.39	19.65	91.36	-4,541.59	-3,174.94	5,842.22	5,806.36	35.86	162.919		
7,800.00	7,253.91	7,380.83	7,214.29	18.51	19.64	91.32	-4,541.63	-3,174.89	5,765.01	5,728.73	36.28	158.900		
7,900.00	7,251.78	7,377.90	7,211.36	19.20	19.64	91.27	-4,541.67	-3,174.83	5,688.51	5,651.55	36.96	153.906		
8,000.00	7,249.65	7,374.98	7,208.45	20.08	19.63	91.23	-4,541.71	-3,174.78	5,612.74	5,574.93	37.81	148.446		
8,100.00	7,247.53	7,372.08	7,205.55	21.07	19.62	91.18	-4,541.74	-3,174.73	5,537.75	5,498.94	38.81	142.694		
8,200.00	7,245.40	7,369.20	7,202.67	22.17	19.62	91.14	-4,541.78	-3,174.68	5,463.55	5,423.61	39.94	136.801		
8,300.00	7,243.27	7,366.33	7,199.80	23.36	19.61	91.09	-4,541.82	-3,174.63	5,390.18	5,349.00	41.18	130.896		
8,400.00	7,241.14	7,363.48	7,196.95	24.64	19.60	91.05	-4,541.85	-3,174.58	5,317.68	5,275.16	42.52	125.073		
8,500.00	7,239.01	7,360.65	7,194.12	25.98	19.60	91.00	-4,541.89	-3,174.53	5,246.08	5,202.15	43.94	119.404		
8,600.00	7,236.89	7,357.83	7,191.30	27.39	19.59	90.96	-4,541.92	-3,174.49	5,175.43	5,130.00	45.42	113.936		
8,700.00	7,234.76	7,355.03	7,188.50	28.85	19.58	90.92	-4,541.96	-3,174.44	5,105.75	5,058.77	46.97	108.699		
8,800.00	7,232.63	7,352.25	7,185.72	30.36	19.58	90.87	-4,541.99	-3,174.40	5,037.09	4,988.52	48.57	103.710		
8,900.00	7,230.50	7,343.00	7,176.47	31.91	19.55	90.73	-4,542.10	-3,174.25	4,969.49	4,919.31	50.18	99.029		
9,000.00	7,228.38	7,343.00	7,176.47	33.49	19.55	90.73	-4,542.10	-3,174.25	4,903.00	4,851.13	51.87	94.523		
9,100.00	7,226.25	7,343.00	7,176.47	35.11	19.55	90.73	-4,542.10	-3,174.25	4,837.66	4,784.07	53.59	90.269		
9,200.00	7,224.12	7,329.16	7,162.63	36.75	19.52	90.51	-4,542.26	-3,174.03	4,773.51	4,718.23	55.28	86.349		
9,300.00	7,221.99	7,309.15	7,142.63	38.41	19.48	90.20	-4,542.46	-3,173.65	4,710.61	4,653.64	56.97	82.686		
9,400.00	7,219.86	7,290.93	7,124.42	40.10	19.43	89.92	-4,542.62	-3,173.24	4,648.99	4,590.30	58.68	79.220		
9,500.00	7,217.74	7,274.28	7,107.77	41.80	19.39	89.66	-4,542.74	-3,172.82	4,588.71	4,528.28	60.42	75.943		
9,600.00	7,215.61	7,259.00	7,092.50	43.53	19.36	89.42	-4,542.83	-3,172.39	4,529.82	4,467.64	62.18	72.847		
9,700.00	7,213.48	7,248.00	7,081.50	45.26	19.33	89.25	-4,542.89	-3,172.06	4,472.39	4,408.42	63.97	69.909		
9,800.00	7,211.35	7,248.00	7,081.50	47.01	19.33	89.25	-4,542.89	-3,172.06	4,416.48	4,350.65	65.83	67.092		
9,900.00	7,209.22	7,242.69	7,076.19	48.77	19.32	89.17	-4,542.91	-3,171.90	4,362.13	4,294.46	67.67	64.463		
10,000.00	7,207.10	7,240.33	7,073.84	50.54	19.32	89.13	-4,542.92	-3,171.83	4,309.42	4,239.89	69.53	61.977		
10,100.00	7,204.97	7,237.99	7,071.50	52.32	19.31	89.10	-4,542.93	-3,171.75	4,258.41	4,187.01	71.41	59.637		
10,200.00	7,202.84	7,235.67	7,069.18	54.11	19.31	89.06	-4,542.94	-3,171.68	4,209.15	4,135.87	73.29	57.435		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - BROWN 35-26 offset - BROWN 35-26 - BROWN 35-26												Offset Site Error:	0.00 ft
Survey Program: 12-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,233.37	7,066.88	55.91	19.30	89.03	-4,542.95	-3,171.61	4,161.71	4,086.54	75.17	55.361	
10,400.00	7,198.59	7,231.09	7,064.60	57.72	19.30	88.99	-4,542.96	-3,171.54	4,116.16	4,039.09	77.07	53.409	
10,500.00	7,196.46	7,228.83	7,062.34	59.53	19.29	88.95	-4,542.97	-3,171.48	4,072.55	3,993.58	78.97	51.571	
10,600.00	7,194.33	7,226.58	7,060.09	61.34	19.29	88.92	-4,542.98	-3,171.41	4,030.94	3,950.07	80.87	49.842	
10,700.00	7,192.20	7,224.35	7,057.86	63.17	19.28	88.89	-4,542.99	-3,171.34	3,991.41	3,908.62	82.79	48.214	
10,800.00	7,190.07	7,222.14	7,055.65	64.99	19.28	88.85	-4,543.00	-3,171.28	3,954.01	3,869.31	84.70	46.682	
10,900.00	7,187.95	7,219.94	7,053.46	66.83	19.27	88.82	-4,543.00	-3,171.21	3,918.80	3,832.18	86.62	45.241	
11,000.00	7,185.82	7,217.76	7,051.28	68.66	19.27	88.78	-4,543.01	-3,171.15	3,885.85	3,797.31	88.54	43.886	
11,100.00	7,183.69	7,215.60	7,049.12	70.50	19.26	88.75	-4,543.02	-3,171.08	3,855.21	3,764.74	90.47	42.613	
11,200.00	7,181.56	7,213.46	7,046.97	72.35	19.26	88.72	-4,543.02	-3,171.02	3,826.94	3,734.54	92.40	41.417	
11,300.00	7,179.44	7,211.33	7,044.85	74.19	19.25	88.68	-4,543.03	-3,170.96	3,801.09	3,706.75	94.33	40.294	
11,400.00	7,177.31	7,209.21	7,042.73	76.04	19.25	88.65	-4,543.04	-3,170.90	3,777.70	3,681.43	96.27	39.241	
11,500.00	7,175.18	7,207.12	7,040.64	77.90	19.24	88.62	-4,543.04	-3,170.83	3,756.83	3,658.62	98.21	38.254	
11,600.00	7,173.05	7,205.03	7,038.56	79.75	19.24	88.58	-4,543.05	-3,170.77	3,738.52	3,638.37	100.15	37.329	
11,700.00	7,170.92	7,202.97	7,036.49	81.61	19.23	88.55	-4,543.06	-3,170.72	3,722.81	3,620.72	102.09	36.465	
11,800.00	7,168.80	7,200.92	7,034.44	83.47	19.23	88.52	-4,543.06	-3,170.66	3,709.72	3,605.69	104.04	35.658	
11,837.41	7,168.00	7,200.16	7,033.68	84.17	19.23	88.51	-4,543.06	-3,170.63	3,705.51	3,600.74	104.77	35.369 CC, ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 10-26 offset - CAMP 10-26 - CAMP 10-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-151.87	-2,443.25	-1,305.98	2,770.60					
100.00	100.00	108.80	108.79	0.08	0.16	-151.87	-2,442.44	-1,305.63	2,769.84	2,769.60	0.24	N/A		
200.00	200.00	226.80	226.77	0.31	0.47	-151.87	-2,440.38	-1,304.78	2,767.96	2,767.18	0.78	3,559.841		
300.00	300.00	346.02	345.96	0.53	0.78	-151.88	-2,438.08	-1,302.72	2,765.45	2,764.14	1.31	2,107.143		
400.00	400.00	483.34	483.18	0.76	1.14	-151.91	-2,434.42	-1,299.40	2,761.99	2,760.09	1.90	1,455.083		
500.00	500.00	609.60	609.28	0.98	1.47	-151.96	-2,430.19	-1,294.57	2,757.22	2,754.77	2.46	1,122.861		
600.00	600.00	729.86	729.32	1.21	1.79	-152.01	-2,425.49	-1,289.12	2,751.63	2,748.63	3.00	917.392		
700.00	700.00	834.61	833.85	1.43	2.08	-152.05	-2,420.72	-1,284.39	2,745.49	2,741.99	3.50	783.457		
800.00	800.00	922.18	921.26	1.66	2.31	-152.08	-2,416.81	-1,280.74	2,739.59	2,735.63	3.96	691.165		
900.00	900.00	1,009.11	1,008.06	1.88	2.55	-152.11	-2,413.27	-1,277.37	2,734.18	2,729.76	4.42	618.431		
1,000.00	1,000.00	1,107.88	1,106.68	2.11	2.81	-152.14	-2,409.42	-1,273.73	2,729.01	2,724.10	4.91	555.790		
1,100.00	1,100.00	1,211.40	1,210.05	2.33	3.09	-152.16	-2,405.23	-1,270.08	2,723.78	2,718.37	5.41	503.286		
1,200.00	1,200.00	1,310.52	1,309.03	2.56	3.36	-152.19	-2,401.10	-1,266.70	2,718.51	2,712.61	5.90	460.610		
1,300.00	1,300.00	1,411.19	1,409.55	2.78	3.63	-152.21	-2,396.88	-1,263.29	2,713.21	2,706.82	6.40	424.202		
1,400.00	1,399.98	1,504.56	1,502.79	3.00	3.88	171.38	-2,393.13	-1,260.08	2,709.78	2,702.92	6.86	395.173		
1,451.96	1,451.89	1,561.76	1,559.92	3.12	4.03	171.37	-2,390.83	-1,258.12	2,709.37	2,702.24	7.13	380.167		
1,500.00	1,499.84	1,612.01	1,610.09	3.23	4.17	171.37	-2,388.70	-1,256.44	2,709.73	2,702.36	7.37	367.800		
1,600.00	1,599.45	1,700.00	1,697.96	3.45	4.40	171.37	-2,385.17	-1,253.42	2,713.21	2,705.39	7.82	346.927		
1,700.00	1,698.70	1,794.04	1,791.88	3.69	4.66	171.36	-2,381.64	-1,250.40	2,720.46	2,712.17	8.28	328.366		
1,800.00	1,797.61	1,876.79	1,874.55	3.95	4.88	171.38	-2,378.68	-1,248.24	2,730.65	2,721.92	8.73	312.864		
1,900.00	1,896.51	1,963.21	1,960.91	4.22	5.11	171.41	-2,375.91	-1,246.44	2,741.54	2,732.35	9.19	298.419		
2,000.00	1,995.40	2,050.42	2,048.06	4.51	5.34	171.45	-2,373.42	-1,244.86	2,752.86	2,743.21	9.65	285.267		
2,100.00	2,094.30	2,132.62	2,130.23	4.80	5.56	171.48	-2,371.48	-1,243.44	2,764.66	2,754.56	10.10	273.667		
2,200.00	2,193.19	2,200.00	2,197.60	5.10	5.74	171.50	-2,370.34	-1,242.47	2,777.25	2,766.73	10.52	264.067		
2,300.00	2,292.09	2,286.78	2,284.37	5.41	5.96	171.53	-2,369.54	-1,241.44	2,790.58	2,779.60	10.98	254.256		
2,400.00	2,390.98	2,387.60	2,385.18	5.72	6.20	171.56	-2,369.15	-1,240.24	2,804.35	2,792.89	11.46	244.698		
2,500.00	2,489.88	2,486.75	2,484.32	6.04	6.44	171.58	-2,368.74	-1,238.86	2,818.01	2,806.07	11.94	235.990		
2,600.00	2,588.77	2,565.08	2,562.63	6.36	6.61	171.60	-2,368.72	-1,237.71	2,831.99	2,819.65	12.34	229.437		
2,700.00	2,687.67	2,653.09	2,650.63	6.68	6.76	171.60	-2,369.58	-1,236.17	2,846.68	2,833.95	12.74	223.497		
2,800.00	2,786.56	2,745.54	2,743.05	7.01	6.90	171.60	-2,370.65	-1,234.48	2,861.51	2,848.39	13.12	218.106		
2,900.00	2,885.46	2,839.62	2,837.12	7.34	7.03	171.60	-2,372.03	-1,232.91	2,876.68	2,863.18	13.50	213.068		
3,000.00	2,984.36	2,941.35	2,938.83	7.67	7.18	171.60	-2,373.36	-1,231.27	2,891.74	2,877.84	13.90	208.077		
3,100.00	3,083.25	3,036.75	3,034.20	8.00	7.33	171.60	-2,374.71	-1,229.70	2,906.87	2,892.58	14.29	203.415		
3,200.00	3,182.15	3,137.86	3,135.29	8.34	7.49	171.60	-2,376.18	-1,228.05	2,922.05	2,907.36	14.70	198.813		
3,300.00	3,281.04	3,248.23	3,245.63	8.67	7.69	171.60	-2,377.61	-1,226.00	2,936.98	2,921.84	15.14	193.975		
3,400.00	3,379.94	3,351.34	3,348.70	9.01	7.90	171.59	-2,378.80	-1,223.54	2,951.55	2,935.96	15.59	189.296		
3,500.00	3,478.83	3,442.05	3,439.38	9.35	8.08	171.58	-2,379.92	-1,221.47	2,966.23	2,950.21	16.02	185.156		
3,600.00	3,577.73	3,526.98	3,524.28	9.69	8.24	171.58	-2,381.25	-1,219.68	2,981.30	2,964.87	16.43	181.499		
3,700.00	3,676.62	3,609.05	3,606.33	10.03	8.37	171.57	-2,382.87	-1,218.28	2,996.89	2,980.08	16.81	178.285		
3,800.00	3,775.52	3,700.00	3,697.25	10.37	8.49	171.58	-2,384.87	-1,217.40	3,013.01	2,995.84	17.18	175.418		
3,900.00	3,874.41	3,785.87	3,783.10	10.72	8.59	171.59	-2,386.88	-1,216.97	3,029.47	3,011.95	17.52	172.926		
4,000.00	3,973.31	3,909.30	3,906.50	11.06	8.74	171.61	-2,389.37	-1,216.31	3,045.66	3,027.74	17.92	169.967		
4,100.00	4,072.20	4,015.49	4,012.67	11.40	8.89	171.63	-2,390.70	-1,215.83	3,061.20	3,042.89	18.31	167.147		
4,200.00	4,171.10	4,100.00	4,097.18	11.75	9.00	171.65	-2,391.87	-1,215.60	3,076.95	3,058.28	18.67	164.773		
4,300.00	4,269.99	4,195.75	4,192.92	12.09	9.11	171.67	-2,393.43	-1,215.48	3,092.98	3,073.95	19.04	162.489		
4,400.00	4,368.89	4,294.59	4,291.74	12.44	9.21	171.70	-2,394.89	-1,215.66	3,109.03	3,089.65	19.38	160.417		
4,500.00	4,467.78	4,394.01	4,391.15	12.78	9.29	171.74	-2,396.17	-1,216.17	3,125.06	3,105.35	19.71	158.555		
4,600.00	4,566.68	4,509.03	4,506.17	13.13	9.40	171.78	-2,397.41	-1,216.59	3,140.85	3,120.78	20.07	156.504		
4,700.00	4,665.57	4,624.85	4,621.99	13.48	9.57	171.82	-2,398.11	-1,216.61	3,156.05	3,135.57	20.48	154.093		
4,800.00	4,764.47	4,726.57	4,723.70	13.82	9.75	171.85	-2,398.46	-1,216.41	3,170.94	3,150.03	20.91	151.633		
4,900.00	4,863.36	4,824.12	4,821.26	14.17	9.92	171.89	-2,398.83	-1,216.37	3,185.93	3,164.60	21.33	149.362		
5,000.00	4,962.26	4,937.47	4,934.60	14.52	10.16	171.92	-2,399.03	-1,215.89	3,200.55	3,178.73	21.82	146.698		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,032.16	5,029.29	14.87	10.40	171.94	-2,399.20	-1,215.22	3,215.06	3,192.76	22.30	144.165		
5,200.00	5,160.05	5,119.25	5,116.37	15.21	10.61	171.95	-2,399.83	-1,214.27	3,229.85	3,207.09	22.76	141.930		
5,300.00	5,258.94	5,205.17	5,202.28	15.56	10.79	171.97	-2,400.70	-1,213.59	3,245.03	3,221.84	23.19	139.930		
5,400.00	5,357.84	5,305.49	5,302.60	15.91	10.99	171.99	-2,401.74	-1,213.12	3,260.40	3,236.76	23.64	137.935		
5,500.00	5,456.73	5,417.13	5,414.23	16.26	11.23	172.01	-2,402.58	-1,212.49	3,275.46	3,251.33	24.13	135.769		
5,600.00	5,555.63	5,504.88	5,501.98	16.61	11.42	172.03	-2,403.21	-1,212.12	3,290.57	3,266.01	24.56	133.991		
5,700.00	5,654.52	5,602.42	5,599.51	16.96	11.58	172.06	-2,403.94	-1,212.05	3,305.87	3,280.90	24.97	132.381		
5,800.00	5,753.42	5,703.06	5,700.15	17.31	11.72	172.10	-2,404.53	-1,212.23	3,321.15	3,295.80	25.35	130.992		
5,900.00	5,852.31	5,800.00	5,797.09	17.66	11.85	172.13	-2,405.08	-1,212.41	3,336.42	3,310.69	25.73	129.660		
6,000.00	5,951.21	5,880.26	5,877.34	18.01	11.96	172.15	-2,405.77	-1,212.65	3,352.00	3,325.91	26.09	128.461		
6,100.00	6,050.10	5,976.91	5,973.99	18.36	12.11	172.18	-2,407.01	-1,212.97	3,367.96	3,341.47	26.49	127.128		
6,200.00	6,149.00	6,094.71	6,091.78	18.71	12.34	172.21	-2,408.53	-1,212.68	3,383.66	3,356.69	26.97	125.468		
6,300.00	6,247.89	6,208.67	6,205.74	19.06	12.59	172.23	-2,409.34	-1,212.22	3,398.77	3,371.31	27.46	123.750		
6,400.00	6,346.79	6,300.32	6,297.38	19.41	12.72	172.27	-2,409.52	-1,212.56	3,413.81	3,385.96	27.85	122.596		
6,500.00	6,445.68	6,405.61	6,402.67	19.76	12.78	172.33	-2,409.19	-1,213.95	3,428.86	3,400.71	28.15	121.812		
6,600.00	6,544.58	6,517.53	6,514.57	20.11	12.84	172.39	-2,408.33	-1,215.63	3,443.60	3,415.14	28.46	120.996		
6,700.00	6,643.53	6,627.29	6,624.30	20.44	12.91	159.25	-2,406.97	-1,217.65	3,457.64	3,428.89	28.75	120.268		
6,800.00	6,743.00	6,736.21	6,733.19	20.62	12.99	71.16	-2,404.89	-1,219.64	3,460.10	3,431.27	28.83	120.019		
6,900.00	6,840.75	6,814.34	6,811.28	20.64	13.05	48.31	-2,403.60	-1,221.42	3,447.90	3,419.67	28.23	122.133		
7,000.00	6,933.82	6,924.92	6,921.81	20.54	13.14	43.68	-2,401.61	-1,223.99	3,421.01	3,393.85	27.16	125.957		
7,100.00	7,019.36	7,020.78	7,017.62	20.31	13.23	43.91	-2,399.37	-1,226.36	3,380.20	3,354.28	25.92	130.417		
7,200.00	7,094.79	7,111.13	7,107.90	20.01	13.31	47.08	-2,396.80	-1,228.53	3,326.92	3,301.86	25.06	132.773		
7,300.00	7,157.81	7,174.16	7,170.87	19.66	13.38	52.68	-2,394.64	-1,230.33	3,263.28	3,238.12	25.16	129.705		
7,400.00	7,206.51	7,245.60	7,242.21	19.29	13.45	61.56	-2,391.59	-1,232.87	3,191.52	3,164.78	26.74	119.352		
7,500.00	7,239.40	7,305.72	7,302.18	18.94	13.52	73.66	-2,388.16	-1,235.16	3,113.87	3,084.69	29.18	106.725		
7,600.00	7,255.49	7,600.00	7,283.40	18.63	13.84	86.03	-2,389.19	-1,234.45	3,033.26	3,002.16	31.10	97.528		
7,700.00	7,256.04	7,313.26	7,309.69	18.39	13.53	94.52	-2,387.67	-1,235.45	2,952.28	2,920.66	31.61	93.382		
7,800.00	7,253.91	7,297.00	7,293.49	18.51	13.51	94.00	-2,388.71	-1,234.82	2,872.41	2,840.36	32.05	89.636		
7,900.00	7,251.78	7,282.07	7,278.59	19.20	13.49	93.51	-2,389.61	-1,234.25	2,793.78	2,761.12	32.66	85.535		
8,000.00	7,249.65	7,268.31	7,264.86	20.08	13.48	93.06	-2,390.39	-1,233.72	2,716.52	2,683.07	33.45	81.210		
8,100.00	7,247.53	7,255.58	7,252.16	21.07	13.46	92.65	-2,391.07	-1,233.24	2,640.75	2,606.36	34.39	76.787		
8,200.00	7,245.40	7,243.78	7,240.39	22.17	13.45	92.27	-2,391.68	-1,232.80	2,566.60	2,531.14	35.46	72.371		
8,300.00	7,243.27	7,232.81	7,229.43	23.36	13.44	91.91	-2,392.21	-1,232.40	2,494.23	2,457.58	36.65	68.048		
8,400.00	7,241.14	7,222.58	7,219.22	24.64	13.43	91.57	-2,392.68	-1,232.02	2,423.79	2,385.85	37.94	63.881		
8,500.00	7,239.01	7,213.02	7,209.68	25.98	13.42	91.26	-2,393.10	-1,231.68	2,355.47	2,316.15	39.32	59.912		
8,600.00	7,236.89	7,204.06	7,200.73	27.39	13.41	90.97	-2,393.48	-1,231.35	2,289.44	2,248.68	40.76	56.168		
8,700.00	7,234.76	7,200.00	7,196.68	28.85	13.40	90.83	-2,393.64	-1,231.21	2,225.94	2,183.64	42.29	52.629		
8,800.00	7,232.63	7,191.55	7,188.24	30.36	13.40	90.56	-2,393.97	-1,230.91	2,165.17	2,121.31	43.85	49.375		
8,900.00	7,230.50	7,186.12	7,182.82	31.91	13.39	90.38	-2,394.18	-1,230.72	2,107.38	2,061.91	45.47	46.346		
9,000.00	7,228.38	7,180.79	7,177.49	33.49	13.38	90.20	-2,394.39	-1,230.54	2,052.82	2,005.69	47.13	43.561		
9,100.00	7,226.25	7,175.54	7,172.26	35.11	13.38	90.03	-2,394.58	-1,230.37	2,001.76	1,952.94	48.81	41.009		
9,200.00	7,224.12	7,170.39	7,167.11	36.75	13.37	89.86	-2,394.78	-1,230.20	1,954.47	1,903.94	50.53	38.681		
9,300.00	7,221.99	7,165.32	7,162.04	38.41	13.37	89.70	-2,394.96	-1,230.04	1,911.23	1,858.96	52.27	36.567		
9,400.00	7,219.86	7,160.33	7,157.06	40.10	13.36	89.53	-2,395.14	-1,229.89	1,872.32	1,818.29	54.03	34.656		
9,500.00	7,217.74	7,155.42	7,152.16	41.80	13.36	89.37	-2,395.32	-1,229.74	1,838.02	1,782.21	55.80	32.937		
9,600.00	7,215.61	7,150.59	7,147.33	43.53	13.35	89.21	-2,395.49	-1,229.60	1,808.58	1,750.99	57.60	31.400		
9,700.00	7,213.48	7,145.84	7,142.59	45.26	13.35	89.06	-2,395.66	-1,229.46	1,784.26	1,724.86	59.41	30.035		
9,800.00	7,211.35	7,141.17	7,137.92	47.01	13.34	88.90	-2,395.82	-1,229.32	1,765.27	1,704.04	61.23	28.831		
9,900.00	7,209.22	7,136.57	7,133.32	48.77	13.34	88.75	-2,395.97	-1,229.20	1,751.77	1,688.71	63.06	27.779		
10,000.00	7,207.10	7,132.04	7,128.80	50.54	13.33	88.60	-2,396.13	-1,229.07	1,743.89	1,678.99	64.90	26.870		
10,088.00	7,205.22	7,128.11	7,124.88	52.11	13.33	88.47	-2,396.26	-1,228.97	1,741.67	1,675.13	66.54	26.174 CC		
10,100.00	7,204.97	7,127.58	7,124.35	52.32	13.33	88.46	-2,396.27	-1,228.95	1,741.72	1,674.96	66.75	26.092 ES		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 10-26 offset - CAMP 10-26 - CAMP 10-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,123.19	7,119.96	54.11	13.33	88.31	-2,396.42	-1,228.84	1,745.26	1,676.65	68.61	25.437	
10,300.00	7,200.71	7,118.87	7,115.64	55.91	13.32	88.17	-2,396.56	-1,228.73	1,754.50	1,684.02	70.48	24.895	
10,400.00	7,198.59	7,114.61	7,111.39	57.72	13.32	88.03	-2,396.69	-1,228.62	1,769.33	1,696.98	72.35	24.455	
10,500.00	7,196.46	7,110.42	7,107.20	59.53	13.31	87.89	-2,396.82	-1,228.52	1,789.63	1,715.40	74.23	24.110	
10,600.00	7,194.33	7,100.00	7,096.78	61.34	13.30	87.55	-2,397.14	-1,228.27	1,815.22	1,739.16	76.06	23.865	
10,700.00	7,192.20	7,100.00	7,096.78	63.17	13.30	87.55	-2,397.14	-1,228.27	1,845.84	1,767.86	77.98	23.670	
10,800.00	7,190.07	7,097.67	7,094.46	64.99	13.30	87.47	-2,397.22	-1,228.22	1,881.28	1,801.39	79.89	23.549	
10,900.00	7,187.95	7,092.51	7,089.30	66.83	13.30	87.31	-2,397.37	-1,228.10	1,921.27	1,839.49	81.77	23.495	
11,000.00	7,185.82	7,087.41	7,084.20	68.66	13.29	87.14	-2,397.52	-1,227.98	1,965.52	1,881.85	83.67	23.493 SF	
11,100.00	7,183.69	7,082.36	7,079.16	70.50	13.29	86.97	-2,397.67	-1,227.86	2,013.76	1,928.20	85.56	23.537	
11,200.00	7,181.56	7,077.37	7,074.17	72.35	13.28	86.81	-2,397.82	-1,227.74	2,065.70	1,978.25	87.45	23.620	
11,300.00	7,179.44	7,072.43	7,069.23	74.19	13.28	86.65	-2,397.96	-1,227.63	2,121.08	2,031.72	89.35	23.738	
11,400.00	7,177.31	7,067.54	7,064.35	76.04	13.27	86.49	-2,398.10	-1,227.51	2,179.62	2,088.37	91.25	23.886	
11,500.00	7,175.18	7,062.71	7,059.52	77.90	13.27	86.33	-2,398.24	-1,227.39	2,241.10	2,147.94	93.15	24.058	
11,600.00	7,173.05	7,057.93	7,054.74	79.75	13.26	86.17	-2,398.37	-1,227.28	2,305.26	2,210.20	95.06	24.251	
11,700.00	7,170.92	7,053.20	7,050.02	81.61	13.26	86.02	-2,398.50	-1,227.16	2,371.89	2,274.93	96.96	24.462	
11,800.00	7,168.80	7,048.52	7,045.34	83.47	13.25	85.86	-2,398.63	-1,227.05	2,440.79	2,341.92	98.87	24.687	
11,837.41	7,168.00	7,046.78	7,043.60	84.17	13.25	85.80	-2,398.68	-1,227.01	2,467.12	2,367.53	99.58	24.774	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 15N-26HZ - CAMP 15N-26HZ - CAMP 15N-26HZ (wp02) H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-37.99	37.99					
100.00	100.00	100.00	100.00	0.08	0.08	-90.00	0.00	-37.99	37.99	37.82	0.17	225.350		
200.00	200.00	200.00	200.00	0.31	0.31	-90.00	0.00	-37.99	37.99	37.37	0.62	61.459		
300.00	300.00	300.00	300.00	0.53	0.53	-90.00	0.00	-37.99	37.99	36.92	1.07	35.582		
400.00	400.00	400.00	400.00	0.76	0.76	-90.00	0.00	-37.99	37.99	36.47	1.52	25.039		
500.00	500.00	500.00	500.00	0.98	0.98	-90.00	0.00	-37.99	37.99	36.02	1.97	19.316		
600.00	600.00	600.00	600.00	1.21	1.21	-90.00	0.00	-37.99	37.99	35.57	2.42	15.722		
700.00	700.00	700.00	700.00	1.43	1.43	-90.00	0.00	-37.99	37.99	35.12	2.87	13.256		
800.00	800.00	800.00	800.00	1.66	1.66	-90.00	0.00	-37.99	37.99	34.67	3.32	11.458		
900.00	900.00	900.00	900.00	1.88	1.88	-90.00	0.00	-37.99	37.99	34.22	3.76	10.090		
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-90.00	0.00	-37.99	37.99	33.77	4.21	9.014		
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	-90.00	0.00	-37.99	37.99	33.32	4.66	8.145		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-90.00	0.00	-37.99	37.99	32.87	5.11	7.429		
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	-90.00	0.00	-37.99	37.99	32.43	5.56	6.829 CC, ES		
1,400.00	1,399.98	1,398.94	1,398.92	3.00	3.00	-126.77	1.11	-39.29	40.34	34.34	6.00	6.724 SF		
1,500.00	1,499.84	1,497.56	1,497.40	3.23	3.22	-127.63	4.41	-43.18	47.40	40.97	6.43	7.375		
1,600.00	1,599.45	1,595.52	1,594.99	3.45	3.44	-128.59	9.86	-49.59	59.14	52.28	6.85	8.629		
1,700.00	1,698.70	1,692.50	1,691.28	3.69	3.67	-129.37	17.39	-58.44	75.53	68.24	7.29	10.362		
1,800.00	1,797.61	1,788.35	1,785.99	3.95	3.93	-129.74	26.89	-69.63	95.89	88.14	7.75	12.374		
1,900.00	1,896.51	1,884.66	1,880.70	4.22	4.21	-129.11	38.21	-82.94	118.35	110.11	8.24	14.365		
2,000.00	1,995.40	1,982.03	1,976.39	4.51	4.51	-128.57	49.88	-96.67	141.07	132.32	8.75	16.124		
2,100.00	2,094.30	2,079.41	2,072.09	4.80	4.83	-128.18	61.55	-110.40	163.80	154.53	9.27	17.661		
2,200.00	2,193.19	2,176.79	2,167.78	5.10	5.16	-127.89	73.22	-124.13	186.54	176.73	9.81	19.009		
2,300.00	2,292.09	2,274.16	2,263.48	5.41	5.50	-127.66	84.89	-137.86	209.28	198.92	10.36	20.197		
2,400.00	2,390.98	2,371.54	2,359.17	5.72	5.85	-127.48	96.56	-151.59	232.03	221.11	10.92	21.248		
2,500.00	2,489.88	2,468.92	2,454.87	6.04	6.20	-127.32	108.24	-165.32	254.78	243.29	11.49	22.181		
2,600.00	2,588.77	2,566.29	2,550.56	6.36	6.56	-127.20	119.91	-179.05	277.52	265.47	12.06	23.014		
2,700.00	2,687.67	2,663.67	2,646.26	6.68	6.93	-127.09	131.58	-192.78	300.27	287.64	12.64	23.761		
2,800.00	2,786.56	2,761.05	2,741.95	7.01	7.30	-127.00	143.25	-206.51	323.02	309.80	13.22	24.433		
2,900.00	2,885.46	2,858.42	2,837.64	7.34	7.67	-126.92	154.92	-220.24	345.77	331.96	13.81	25.041		
3,000.00	2,984.36	2,955.80	2,933.34	7.67	8.05	-126.85	166.59	-233.96	368.52	354.12	14.40	25.592		
3,100.00	3,083.25	3,053.18	3,029.03	8.00	8.42	-126.79	178.26	-247.69	391.28	376.28	15.00	26.093		
3,200.00	3,182.15	3,150.55	3,124.73	8.34	8.80	-126.73	189.93	-261.42	414.03	398.43	15.59	26.552		
3,300.00	3,281.04	3,247.93	3,220.42	8.67	9.19	-126.68	201.60	-275.15	436.78	420.59	16.19	26.972		
3,400.00	3,379.94	3,345.31	3,316.12	9.01	9.57	-126.64	213.27	-288.88	459.53	442.74	16.80	27.358		
3,500.00	3,478.83	3,442.68	3,411.81	9.35	9.96	-126.60	224.94	-302.61	482.29	464.88	17.40	27.714		
3,600.00	3,577.73	3,540.06	3,507.51	9.69	10.35	-126.56	236.61	-316.34	505.04	487.03	18.01	28.043		
3,700.00	3,676.62	3,637.44	3,603.20	10.03	10.74	-126.52	248.28	-330.07	527.79	509.17	18.62	28.347		
3,800.00	3,775.52	3,734.81	3,698.90	10.37	11.12	-126.49	259.95	-343.80	550.55	531.32	19.23	28.631		
3,900.00	3,874.41	3,832.19	3,794.59	10.72	11.52	-126.47	271.62	-357.53	573.30	553.46	19.84	28.894		
4,000.00	3,973.31	3,929.57	3,890.29	11.06	11.91	-126.44	283.29	-371.26	596.05	575.60	20.45	29.140		
4,100.00	4,072.20	4,026.94	3,985.98	11.40	12.30	-126.42	294.97	-384.99	618.81	597.74	21.07	29.371		
4,200.00	4,171.10	4,124.32	4,081.68	11.75	12.69	-126.39	306.64	-398.72	641.56	619.88	21.68	29.586		
4,300.00	4,269.99	4,221.70	4,177.37	12.09	13.09	-126.37	318.31	-412.45	664.31	642.01	22.30	29.788		
4,400.00	4,368.89	4,319.07	4,273.07	12.44	13.48	-126.35	329.98	-426.18	687.07	664.15	22.92	29.979		
4,500.00	4,467.78	4,416.45	4,368.76	12.78	13.88	-126.33	341.65	-439.91	709.82	686.29	23.54	30.158		
4,600.00	4,566.68	4,513.83	4,464.46	13.13	14.27	-126.32	353.32	-453.64	732.58	708.42	24.16	30.327		
4,700.00	4,665.57	4,611.20	4,560.15	13.48	14.67	-126.30	364.99	-467.37	755.33	730.55	24.78	30.487		
4,800.00	4,764.47	4,708.58	4,655.85	13.82	15.07	-126.29	376.66	-481.09	778.08	752.69	25.40	30.638		
4,900.00	4,863.36	4,805.96	4,751.54	14.17	15.46	-126.27	388.33	-494.82	800.84	774.82	26.02	30.781		
5,000.00	4,962.26	4,903.33	4,847.24	14.52	15.86	-126.26	400.00	-508.55	823.59	796.95	26.64	30.917		
5,100.00	5,061.15	5,000.71	4,942.93	14.87	16.26	-126.24	411.67	-522.28	846.35	819.09	27.26	31.046		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 15N-26HZ - CAMP 15N-26HZ - CAMP 15N-26HZ (wp02) H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	5,098.09	5,038.63	15.21	16.66	-126.23	423.34	-536.01	869.10	841.22	27.88	31.169		
5,300.00	5,258.94	5,195.46	5,134.32	15.56	17.05	-126.22	435.01	-549.74	891.86	863.35	28.51	31.286		
5,400.00	5,357.84	5,292.84	5,230.02	15.91	17.45	-126.21	446.68	-563.47	914.61	885.48	29.13	31.397		
5,500.00	5,456.73	5,390.22	5,325.71	16.26	17.85	-126.20	458.35	-577.20	937.37	907.61	29.75	31.503		
5,600.00	5,555.63	5,487.59	5,421.41	16.61	18.25	-126.19	470.02	-590.93	960.12	929.74	30.38	31.605		
5,700.00	5,654.52	5,584.97	5,517.10	16.96	18.65	-126.18	481.69	-604.66	982.87	951.87	31.00	31.702		
5,800.00	5,753.42	5,682.35	5,612.80	17.31	19.05	-126.17	493.37	-618.39	1,005.63	974.00	31.63	31.795		
5,900.00	5,852.31	5,779.72	5,708.49	17.66	19.45	-126.16	505.04	-632.12	1,028.38	996.13	32.25	31.884		
6,000.00	5,951.21	5,877.10	5,804.19	18.01	19.85	-126.15	516.71	-645.85	1,051.14	1,018.26	32.88	31.969		
6,100.00	6,050.10	5,974.48	5,899.88	18.36	20.25	-126.15	528.38	-659.58	1,073.89	1,040.39	33.51	32.051		
6,200.00	6,149.00	6,071.85	5,995.57	18.71	20.65	-126.14	540.05	-673.31	1,096.65	1,062.52	34.13	32.129		
6,300.00	6,247.89	6,169.23	6,091.27	19.06	21.05	-126.13	551.72	-687.04	1,119.40	1,084.64	34.76	32.205		
6,400.00	6,346.79	6,266.61	6,186.96	19.41	21.45	-126.12	563.39	-700.77	1,142.16	1,106.77	35.39	32.278		
6,500.00	6,445.68	6,363.98	6,282.66	19.76	21.85	-126.12	575.06	-714.49	1,164.91	1,128.90	36.01	32.347		
6,600.00	6,544.58	6,461.36	6,378.35	20.11	22.25	-126.11	586.73	-728.22	1,187.67	1,151.03	36.64	32.415		
6,700.00	6,643.53	6,558.73	6,474.04	20.44	22.65	-139.74	598.40	-741.95	1,210.43	1,173.15	37.28	32.470		
6,800.00	6,743.00	6,655.09	6,568.73	20.62	23.05	130.39	609.95	-755.54	1,233.19	1,195.37	37.82	32.604		
6,900.00	6,840.75	6,749.73	6,662.07	20.64	23.36	105.53	617.18	-768.94	1,255.86	1,217.72	38.14	32.931		
7,000.00	6,933.82	6,848.52	6,759.37	20.54	23.53	97.89	608.70	-782.95	1,278.08	1,239.93	38.15	33.503		
7,100.00	7,019.36	6,952.94	6,859.02	20.31	23.58	94.09	581.54	-797.33	1,299.20	1,261.33	37.87	34.304		
7,200.00	7,094.79	7,064.02	6,957.78	20.01	23.48	91.82	533.15	-811.65	1,318.51	1,281.17	37.35	35.306		
7,300.00	7,157.81	7,182.56	7,050.86	19.66	23.26	90.39	461.37	-825.19	1,335.29	1,298.63	36.66	36.426		
7,400.00	7,206.51	7,308.82	7,131.68	19.29	22.92	89.51	365.43	-837.04	1,348.80	1,312.85	35.96	37.512		
7,500.00	7,239.40	7,442.16	7,192.31	18.94	22.53	89.02	247.34	-846.03	1,358.37	1,322.92	35.45	38.318		
7,600.00	7,255.49	7,580.72	7,224.98	18.63	22.16	88.83	113.14	-851.04	1,363.44	1,328.08	35.36	38.559		
7,700.00	7,256.04	7,703.31	7,228.21	18.39	21.95	88.83	-9.28	-851.80	1,364.17	1,328.41	35.77	38.142		
7,800.00	7,253.91	7,803.31	7,226.42	18.51	21.94	88.85	-109.27	-851.80	1,364.17	1,327.62	36.55	37.324		
7,900.00	7,251.78	7,903.31	7,224.63	19.20	22.12	88.86	-209.25	-851.80	1,364.16	1,326.45	37.71	36.179		
8,000.00	7,249.65	8,003.31	7,222.84	20.08	22.53	88.87	-309.23	-851.80	1,364.15	1,324.95	39.20	34.798		
8,100.00	7,247.53	8,103.31	7,221.05	21.07	23.18	88.89	-409.22	-851.80	1,364.15	1,323.15	41.00	33.271		
8,200.00	7,245.40	8,203.31	7,219.26	22.17	24.04	88.90	-509.20	-851.80	1,364.14	1,321.08	43.06	31.676		
8,300.00	7,243.27	8,303.31	7,217.47	23.36	25.05	88.92	-609.18	-851.80	1,364.14	1,318.78	45.36	30.076		
8,400.00	7,241.14	8,403.31	7,215.68	24.64	26.19	88.93	-709.17	-851.80	1,364.13	1,316.28	47.84	28.512		
8,500.00	7,239.01	8,503.31	7,213.89	25.98	27.42	88.94	-809.15	-851.80	1,364.12	1,313.62	50.50	27.013		
8,600.00	7,236.89	8,603.31	7,212.09	27.39	28.72	88.96	-909.13	-851.80	1,364.12	1,310.82	53.30	25.595		
8,700.00	7,234.76	8,703.30	7,210.30	28.85	30.10	88.97	-1,009.12	-851.80	1,364.11	1,307.90	56.21	24.267		
8,800.00	7,232.63	8,803.30	7,208.51	30.36	31.53	88.99	-1,109.10	-851.80	1,364.11	1,304.87	59.23	23.029		
8,900.00	7,230.50	8,903.30	7,206.72	31.91	33.00	89.00	-1,209.08	-851.80	1,364.10	1,301.76	62.34	21.881		
9,000.00	7,228.38	9,003.30	7,204.93	33.49	34.52	89.02	-1,309.07	-851.80	1,364.09	1,298.57	65.53	20.818		
9,100.00	7,226.25	9,103.30	7,203.14	35.11	36.08	89.03	-1,409.05	-851.80	1,364.09	1,295.31	68.77	19.834		
9,200.00	7,224.12	9,203.30	7,201.35	36.75	37.67	89.04	-1,509.03	-851.80	1,364.08	1,292.00	72.08	18.925		
9,300.00	7,221.99	9,303.30	7,199.56	38.41	39.28	89.06	-1,609.02	-851.80	1,364.08	1,288.64	75.43	18.083		
9,400.00	7,219.86	9,403.30	7,197.77	40.10	40.92	89.07	-1,709.00	-851.80	1,364.07	1,285.24	78.83	17.304		
9,500.00	7,217.74	9,503.30	7,195.97	41.80	42.58	89.09	-1,808.98	-851.80	1,364.07	1,281.80	82.26	16.582		
9,600.00	7,215.61	9,603.30	7,194.18	43.53	44.26	89.10	-1,908.97	-851.80	1,364.06	1,278.33	85.73	15.911		
9,700.00	7,213.48	9,703.30	7,192.39	45.26	45.96	89.11	-2,008.95	-851.80	1,364.06	1,274.83	89.22	15.288		
9,800.00	7,211.35	9,803.30	7,190.60	47.01	47.67	89.13	-2,108.93	-851.80	1,364.05	1,271.31	92.75	14.707		
9,900.00	7,209.22	9,903.30	7,188.81	48.77	49.40	89.14	-2,208.92	-851.80	1,364.05	1,267.76	96.29	14.166		
10,000.00	7,207.10	10,003.30	7,187.02	50.54	51.13	89.16	-2,308.90	-851.80	1,364.04	1,264.19	99.86	13.660		
10,100.00	7,204.97	10,103.30	7,185.23	52.32	52.89	89.17	-2,408.88	-851.80	1,364.04	1,260.60	103.44	13.187		
10,200.00	7,202.84	10,203.30	7,183.44	54.11	54.65	89.18	-2,508.87	-851.80	1,364.03	1,256.99	107.04	12.743		
10,300.00	7,200.71	10,303.30	7,181.65	55.91	56.42	89.20	-2,608.85	-851.80	1,364.03	1,253.38	110.65	12.327		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 15N-26HZ - CAMP 15N-26HZ - CAMP 15N-26HZ (wp02) H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,400.00	7,198.59	10,403.30	7,179.85	57.72	58.20	89.21	-2,708.83	-851.80	1,364.02	1,249.74	114.28	11.936	
10,500.00	7,196.46	10,503.29	7,178.06	59.53	59.98	89.23	-2,808.82	-851.80	1,364.02	1,246.10	117.92	11.567	
10,600.00	7,194.33	10,603.29	7,176.27	61.34	61.78	89.24	-2,908.80	-851.81	1,364.01	1,242.44	121.57	11.220	
10,700.00	7,192.20	10,703.29	7,174.48	63.17	63.58	89.26	-3,008.78	-851.81	1,364.01	1,238.78	125.23	10.892	
10,800.00	7,190.07	10,803.29	7,172.69	64.99	65.38	89.27	-3,108.77	-851.81	1,364.01	1,235.10	128.90	10.582	
10,900.00	7,187.95	10,903.29	7,170.90	66.83	67.20	89.28	-3,208.75	-851.81	1,364.00	1,231.42	132.58	10.288	
11,000.00	7,185.82	11,003.29	7,169.11	68.66	69.01	89.30	-3,308.73	-851.81	1,364.00	1,227.73	136.27	10.010	
11,100.00	7,183.69	11,103.29	7,167.32	70.50	70.84	89.31	-3,408.72	-851.81	1,363.99	1,224.03	139.96	9.745	
11,200.00	7,181.56	11,203.29	7,165.53	72.35	72.66	89.33	-3,508.70	-851.81	1,363.99	1,220.32	143.67	9.494	
11,300.00	7,179.44	11,303.29	7,163.73	74.19	74.49	89.34	-3,608.68	-851.81	1,363.99	1,216.61	147.37	9.255	
11,400.00	7,177.31	11,403.29	7,161.94	76.04	76.33	89.35	-3,708.67	-851.81	1,363.98	1,212.90	151.09	9.028	
11,500.00	7,175.18	11,503.29	7,160.15	77.90	78.16	89.37	-3,808.65	-851.81	1,363.98	1,209.17	154.80	8.811	
11,600.00	7,173.05	11,603.29	7,158.36	79.75	80.01	89.38	-3,908.63	-851.81	1,363.98	1,205.45	158.53	8.604	
11,700.00	7,170.92	11,703.29	7,156.57	81.61	81.85	89.40	-4,008.62	-851.81	1,363.97	1,201.72	162.26	8.406	
11,800.00	7,168.80	11,803.29	7,154.78	83.47	83.70	89.41	-4,108.60	-851.81	1,363.97	1,197.98	165.99	8.217	
11,837.41	7,168.00	11,840.70	7,154.11	84.17	84.39	89.42	-4,146.01	-851.81	1,363.97	1,196.58	167.38	8.149	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 21-26X offset - CAMP 21-26X - CAMP 21-26X													Offset Site Error:	0.00 ft
Survey Program: 3591-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	3,546.00	3,539.44	0.00	0.00	-115.39	-716.59	-1,510.11	3,956.83					
100.00	100.00	3,546.00	3,539.44	0.08	0.00	-115.39	-716.59	-1,510.11	3,866.42	3,866.33	0.08	N/A		
200.00	200.00	3,546.00	3,539.44	0.31	0.00	-115.39	-716.59	-1,510.11	3,776.49	3,776.18	0.31	N/A		
300.00	300.00	3,546.00	3,539.44	0.53	0.00	-115.39	-716.59	-1,510.11	3,687.09	3,686.55	0.53	6,904.406		
400.00	400.00	3,546.00	3,539.44	0.76	0.00	-115.39	-716.59	-1,510.11	3,598.24	3,597.48	0.76	4,742.103		
500.00	500.00	3,546.00	3,539.44	0.98	0.00	-115.39	-716.59	-1,510.11	3,509.99	3,509.01	0.98	3,568.690		
600.00	600.00	3,546.00	3,539.44	1.21	0.00	-115.39	-716.59	-1,510.11	3,422.39	3,421.18	1.21	2,832.359		
700.00	700.00	3,546.00	3,539.44	1.43	0.00	-115.39	-716.59	-1,510.11	3,335.48	3,334.05	1.43	2,327.488		
800.00	800.00	3,546.00	3,539.44	1.66	0.00	-115.39	-716.59	-1,510.11	3,249.33	3,247.68	1.66	1,959.969		
900.00	900.00	3,546.00	3,539.44	1.88	0.00	-115.39	-716.59	-1,510.11	3,164.00	3,162.12	1.88	1,680.639		
1,000.00	1,000.00	3,546.00	3,539.44	2.11	0.00	-115.39	-716.59	-1,510.11	3,079.54	3,077.44	2.11	1,461.313		
1,100.00	1,100.00	3,546.00	3,539.44	2.33	0.00	-115.39	-716.59	-1,510.11	2,996.05	2,993.72	2.33	1,284.674		
1,200.00	1,200.00	3,546.00	3,539.44	2.56	0.00	-115.39	-716.59	-1,510.11	2,913.59	2,911.04	2.56	1,139.496		
1,300.00	1,300.00	3,546.00	3,539.44	2.78	0.00	-115.39	-716.59	-1,510.11	2,832.27	2,829.48	2.78	1,018.186		
1,400.00	1,399.98	3,546.00	3,539.44	3.00	0.00	-152.99	-716.59	-1,510.11	2,753.12	2,750.11	3.01	914.867		
1,500.00	1,499.84	3,546.00	3,539.44	3.23	0.00	-154.03	-716.59	-1,510.11	2,677.39	2,674.16	3.23	828.306		
1,600.00	1,599.45	3,546.00	3,539.44	3.45	0.00	-154.92	-716.59	-1,510.11	2,605.48	2,602.02	3.45	754.203		
1,700.00	1,698.70	3,546.00	3,539.44	3.69	0.00	-155.69	-716.59	-1,510.11	2,537.79	2,534.11	3.68	690.109		
1,800.00	1,797.61	3,546.00	3,539.44	3.95	0.00	-155.87	-716.59	-1,510.11	2,474.08	2,470.18	3.90	633.805		
1,900.00	1,896.51	3,546.00	3,539.44	4.22	0.00	-155.87	-716.59	-1,510.11	2,412.93	2,408.79	4.13	583.612		
2,000.00	1,995.40	3,546.00	3,539.44	4.51	0.00	-155.87	-716.59	-1,510.11	2,354.43	2,350.06	4.37	538.857		
2,100.00	2,094.30	3,546.00	3,539.44	4.80	0.00	-155.87	-716.59	-1,510.11	2,298.79	2,294.19	4.61	498.932		
2,200.00	2,193.19	3,546.00	3,539.44	5.10	0.00	-155.87	-716.59	-1,510.11	2,246.24	2,241.39	4.85	463.298		
2,300.00	2,292.09	3,546.00	3,539.44	5.41	0.00	-155.87	-716.59	-1,510.11	2,196.97	2,191.88	5.09	431.481		
2,400.00	2,390.98	3,546.00	3,539.44	5.72	0.00	-155.87	-716.59	-1,510.11	2,151.24	2,145.90	5.34	403.072		
2,500.00	2,489.88	3,546.00	3,539.44	6.04	0.00	-155.87	-716.59	-1,510.11	2,109.25	2,103.67	5.58	377.711		
2,600.00	2,588.77	3,546.00	3,539.44	6.36	0.00	-155.87	-716.59	-1,510.11	2,071.25	2,065.41	5.83	355.087		
2,700.00	2,687.67	3,546.00	3,539.44	6.68	0.00	-155.87	-716.59	-1,510.11	2,037.45	2,031.36	6.08	334.931		
2,800.00	2,786.56	3,546.00	3,539.44	7.01	0.00	-155.87	-716.59	-1,510.11	2,008.06	2,001.73	6.33	317.003		
2,900.00	2,885.46	3,546.00	3,539.44	7.34	0.00	-155.87	-716.59	-1,510.11	1,983.29	1,976.70	6.59	301.095		
3,000.00	2,984.36	3,546.00	3,539.44	7.67	0.00	-155.87	-716.59	-1,510.11	1,963.30	1,956.46	6.84	287.022		
3,100.00	3,083.25	3,546.00	3,539.44	8.00	0.00	-155.87	-716.59	-1,510.11	1,948.25	1,941.16	7.09	274.617		
3,200.00	3,182.15	3,546.00	3,539.44	8.34	0.00	-155.87	-716.59	-1,510.11	1,938.25	1,930.90	7.35	263.730		
3,300.00	3,281.04	3,546.00	3,539.44	8.67	0.00	-155.87	-716.59	-1,510.11	1,933.37	1,925.77	7.60	254.224		
3,344.39	3,324.94	3,546.00	3,539.44	8.82	0.00	-155.87	-716.59	-1,510.11	1,932.86	1,925.14	7.72	250.396 CC, ES		
3,400.00	3,379.94	3,546.00	3,539.44	9.01	0.00	-155.87	-716.59	-1,510.11	1,933.66	1,925.80	7.86	245.919		
3,500.00	3,478.83	3,546.00	3,539.44	9.35	0.00	-155.87	-716.59	-1,510.11	1,939.11	1,930.99	8.12	238.743		
3,600.00	3,577.73	3,591.00	3,584.39	9.69	0.10	-155.91	-714.66	-1,509.41	1,948.85	1,940.28	8.57	227.444		
3,700.00	3,676.62	3,673.13	3,666.40	10.03	0.29	-155.94	-710.29	-1,510.12	1,960.46	1,951.48	8.98	218.257		
3,800.00	3,775.52	3,748.04	3,741.20	10.37	0.48	-155.96	-706.39	-1,511.16	1,972.68	1,963.26	9.42	209.419		
3,900.00	3,874.41	3,847.47	3,840.41	10.72	0.75	-155.94	-700.51	-1,514.00	1,985.79	1,975.86	9.93	199.912		
4,000.00	3,973.31	3,924.23	3,916.92	11.06	0.95	-155.89	-694.97	-1,516.95	1,999.14	1,988.74	10.40	192.283		
4,100.00	4,072.20	4,022.22	4,014.44	11.40	1.22	-155.79	-687.14	-1,522.45	2,013.59	2,002.67	10.92	184.371		
4,200.00	4,171.10	4,149.45	4,140.50	11.75	1.58	-155.52	-672.06	-1,530.41	2,026.68	2,015.14	11.54	175.589		
4,300.00	4,269.99	4,268.26	4,257.86	12.09	1.93	-155.21	-655.23	-1,538.17	2,038.99	2,026.83	12.15	167.772		
4,400.00	4,368.89	4,356.00	4,344.61	12.44	2.18	-154.99	-643.08	-1,543.28	2,050.88	2,038.21	12.67	161.807		
4,500.00	4,467.78	4,446.00	4,433.69	12.78	2.44	-154.79	-631.40	-1,548.61	2,063.31	2,050.10	13.20	156.273		
4,600.00	4,566.68	4,587.45	4,573.76	13.13	2.85	-154.49	-613.27	-1,556.26	2,075.49	2,061.61	13.88	149.516		
4,700.00	4,665.57	4,725.25	4,710.01	13.48	3.25	-154.18	-593.25	-1,561.15	2,085.07	2,070.52	14.55	143.292		
4,800.00	4,764.47	4,824.52	4,808.26	13.82	3.53	-153.99	-579.28	-1,563.65	2,094.08	2,078.97	15.11	138.625		
4,900.00	4,863.36	4,920.58	4,903.44	14.17	3.81	-153.82	-566.49	-1,565.77	2,103.18	2,087.53	15.65	134.384		
5,000.00	4,962.26	5,009.24	4,991.13	14.52	4.06	-153.63	-553.76	-1,568.46	2,112.58	2,096.40	16.18	130.578		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 21-26X offset - CAMP 21-26X - CAMP 21-26X													Offset Site Error:	0.00 ft
Survey Program: 3591-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,086.68	5,067.74	14.87	4.29	-153.47	-542.86	-1,571.46	2,122.85	2,106.17	16.68	127.297		
5,200.00	5,160.05	5,169.49	5,149.77	15.21	4.53	-153.32	-532.11	-1,575.03	2,134.03	2,116.84	17.19	124.155		
5,300.00	5,258.94	5,268.33	5,247.61	15.56	4.81	-153.12	-518.94	-1,579.82	2,145.56	2,127.81	17.75	120.876		
5,400.00	5,357.84	5,347.00	5,325.54	15.91	5.04	-152.97	-508.93	-1,583.83	2,157.61	2,139.36	18.25	118.217		
5,500.00	5,456.73	5,442.75	5,420.68	16.26	5.31	-152.86	-499.05	-1,588.14	2,170.22	2,151.42	18.79	115.479		
5,600.00	5,555.63	5,542.72	5,519.88	16.61	5.59	-152.71	-487.85	-1,593.21	2,182.94	2,163.59	19.35	112.806		
5,700.00	5,654.52	5,652.14	5,628.33	16.96	5.91	-152.52	-474.54	-1,599.02	2,195.48	2,175.54	19.94	110.096		
5,800.00	5,753.42	5,751.25	5,726.85	17.31	6.18	-152.42	-464.38	-1,602.75	2,207.49	2,187.00	20.49	107.720		
5,900.00	5,852.31	5,843.24	5,818.45	17.66	6.44	-152.37	-456.63	-1,605.98	2,220.07	2,199.05	21.02	105.632		
6,000.00	5,951.21	5,947.79	5,922.69	18.01	6.72	-152.34	-449.03	-1,608.83	2,232.47	2,210.90	21.57	103.501		
6,100.00	6,050.10	6,044.85	6,019.54	18.36	6.98	-152.35	-443.11	-1,610.87	2,244.84	2,222.74	22.10	101.592		
6,200.00	6,149.00	6,135.36	6,109.93	18.71	7.22	-152.39	-438.64	-1,612.49	2,257.43	2,234.83	22.60	99.879		
6,300.00	6,247.89	6,226.18	6,200.68	19.06	7.46	-152.46	-435.25	-1,614.01	2,270.45	2,247.35	23.10	98.276		
6,400.00	6,346.79	6,326.01	6,300.44	19.41	7.71	-152.54	-432.17	-1,615.58	2,283.67	2,260.04	23.62	96.668		
6,500.00	6,445.68	6,414.82	6,389.21	19.76	7.94	-152.63	-429.87	-1,616.86	2,297.00	2,272.89	24.11	95.256		
6,600.00	6,544.58	6,504.07	6,478.42	20.11	8.17	-152.71	-427.72	-1,618.57	2,310.83	2,286.23	24.60	93.929		
6,700.00	6,643.53	6,606.00	6,580.30	20.44	8.42	-166.17	-425.23	-1,620.74	2,324.60	2,299.49	25.11	92.569		
6,800.00	6,743.00	6,710.16	6,684.40	20.62	8.69	105.17	-422.46	-1,622.80	2,332.59	2,307.07	25.51	91.435		
6,900.00	6,840.75	6,802.16	6,776.35	20.64	8.93	81.97	-419.87	-1,624.70	2,332.86	2,307.10	25.76	90.552		
7,000.00	6,933.82	6,893.80	6,857.92	20.54	9.14	76.73	-417.53	-1,626.71	2,326.20	2,300.29	25.91	89.774		
7,100.00	7,019.36	6,970.37	6,944.43	20.31	9.36	76.13	-415.02	-1,629.01	2,313.32	2,287.23	26.09	88.660		
7,200.00	7,094.79	7,041.48	7,015.49	20.01	9.54	77.44	-412.92	-1,630.90	2,295.35	2,269.06	26.29	87.306		
7,300.00	7,157.81	7,098.93	7,072.89	19.66	9.69	79.74	-411.13	-1,632.53	2,273.93	2,247.40	26.53	85.724		
7,400.00	7,206.51	7,141.95	7,115.86	19.29	9.80	82.46	-409.75	-1,633.82	2,250.68	2,223.91	26.77	84.066		
7,500.00	7,239.40	7,173.09	7,146.97	18.94	9.88	85.28	-408.71	-1,634.79	2,227.15	2,200.13	27.03	82.409		
7,600.00	7,255.49	7,187.15	7,161.02	18.63	9.91	87.78	-408.20	-1,635.22	2,204.68	2,177.40	27.27	80.838		
7,700.00	7,256.04	7,183.70	7,157.56	18.39	9.91	88.85	-408.33	-1,635.12	2,184.49	2,156.96	27.53	79.352		
7,800.00	7,253.91	7,177.43	7,151.30	18.51	9.89	88.69	-408.55	-1,634.93	2,168.42	2,140.50	27.92	77.666		
7,900.00	7,251.78	7,171.32	7,145.20	19.20	9.87	88.52	-408.77	-1,634.74	2,156.86	2,128.36	28.50	75.687		
8,000.00	7,249.65	7,165.36	7,139.24	20.08	9.86	88.36	-408.97	-1,634.55	2,149.87	2,120.63	29.24	73.514		
8,100.00	7,247.53	7,159.54	7,133.44	21.07	9.84	88.21	-409.17	-1,634.37	2,147.51	2,117.37	30.14	71.246		
8,100.91	7,247.51	7,159.49	7,133.38	21.08	9.84	88.21	-409.17	-1,634.37	2,147.51	2,117.36	30.15	71.224		
8,200.00	7,245.40	7,154.00	7,127.90	22.17	9.83	88.06	-409.35	-1,634.20	2,149.79	2,118.61	31.17	68.965		
8,300.00	7,243.27	7,148.88	7,122.79	23.36	9.82	87.93	-409.52	-1,634.04	2,156.69	2,124.34	32.35	66.659		
8,400.00	7,241.14	7,143.90	7,117.81	24.64	9.80	87.79	-409.68	-1,633.88	2,168.18	2,134.51	33.67	64.401		
8,500.00	7,239.01	7,138.94	7,112.85	25.98	9.79	87.66	-409.85	-1,633.73	2,184.17	2,149.11	35.06	62.296		
8,600.00	7,236.89	7,133.99	7,107.91	27.39	9.78	87.53	-410.01	-1,633.58	2,204.58	2,168.06	36.52	60.358		
8,700.00	7,234.76	7,129.06	7,102.98	28.85	9.76	87.40	-410.17	-1,633.43	2,229.28	2,191.23	38.05	58.592		
8,800.00	7,232.63	7,124.15	7,098.07	30.36	9.75	87.27	-410.32	-1,633.28	2,258.13	2,218.51	39.62	56.995		
8,900.00	7,230.50	7,119.25	7,093.18	31.91	9.74	87.14	-410.48	-1,633.13	2,290.98	2,249.74	41.24	55.559		
9,000.00	7,228.38	7,114.37	7,088.31	33.49	9.73	87.01	-410.64	-1,632.98	2,327.64	2,284.76	42.89	54.274		
9,100.00	7,226.25	7,109.51	7,083.45	35.11	9.71	86.88	-410.79	-1,632.84	2,367.96	2,323.39	44.57	53.129		
9,200.00	7,224.12	7,104.66	7,078.61	36.75	9.70	86.75	-410.95	-1,632.69	2,411.74	2,365.46	46.28	52.113		
9,300.00	7,221.99	7,099.83	7,073.78	38.41	9.69	86.62	-411.10	-1,632.55	2,458.80	2,410.79	48.01	51.212		
9,400.00	7,219.86	7,095.02	7,068.98	40.10	9.68	86.49	-411.26	-1,632.41	2,508.95	2,459.19	49.77	50.415		
9,500.00	7,217.74	7,090.22	7,064.18	41.80	9.66	86.36	-411.41	-1,632.27	2,562.02	2,510.48	51.54	49.713		
9,600.00	7,215.61	7,085.44	7,059.41	43.53	9.65	86.24	-411.56	-1,632.13	2,617.82	2,564.50	53.32	49.094		
9,700.00	7,213.48	7,080.68	7,054.65	45.26	9.64	86.11	-411.71	-1,632.00	2,676.19	2,621.07	55.12	48.550		
9,800.00	7,211.35	7,075.93	7,049.91	47.01	9.63	85.98	-411.86	-1,631.86	2,736.96	2,680.03	56.93	48.072		
9,900.00	7,209.22	7,071.20	7,045.18	48.77	9.62	85.86	-412.00	-1,631.73	2,799.97	2,741.22	58.76	47.654		
10,000.00	7,207.10	7,066.00	7,036.99	50.54	9.59	85.64	-412.26	-1,631.49	2,865.09	2,804.53	60.56	47.310		
10,100.00	7,204.97	7,063.00	7,036.99	52.32	9.59	85.64	-412.26	-1,631.49	2,932.15	2,869.71	62.44	46.961		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 21-26X offset - CAMP 21-26X - CAMP 21-26X												Offset Site Error:	0.00 ft
Survey Program: 3591-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.00	7,202.84	7,057.11	7,031.10	54.11	9.58	85.48	-412.44	-1,631.33	3,001.04	2,936.77	64.28	46.690	
10,300.00	7,200.71	7,052.44	7,026.44	55.91	9.57	85.36	-412.59	-1,631.20	3,071.64	3,005.51	66.13	46.449	
10,400.00	7,198.59	7,047.81	7,021.81	57.72	9.56	85.24	-412.73	-1,631.07	3,143.82	3,075.83	67.99	46.240	
10,500.00	7,196.46	7,043.19	7,017.19	59.53	9.54	85.11	-412.87	-1,630.94	3,217.49	3,147.63	69.85	46.060	
10,600.00	7,194.33	7,038.60	7,012.61	61.34	9.53	84.99	-413.01	-1,630.82	3,292.54	3,220.81	71.72	45.905	
10,700.00	7,192.20	7,034.03	7,008.04	63.17	9.52	84.87	-413.15	-1,630.69	3,368.87	3,295.27	73.60	45.774	
10,800.00	7,190.07	7,029.48	7,003.50	64.99	9.51	84.75	-413.29	-1,630.57	3,446.41	3,370.94	75.48	45.662	
10,900.00	7,187.95	7,024.96	6,998.98	66.83	9.50	84.63	-413.42	-1,630.45	3,525.08	3,447.72	77.36	45.569	
11,000.00	7,185.82	7,020.46	6,994.48	68.66	9.49	84.51	-413.56	-1,630.32	3,604.80	3,525.56	79.24	45.491	
11,100.00	7,183.69	7,015.98	6,990.00	70.50	9.47	84.39	-413.69	-1,630.20	3,685.50	3,604.37	81.13	45.427	
11,200.00	7,181.56	7,011.52	6,985.54	72.35	9.46	84.27	-413.82	-1,630.08	3,767.12	3,684.10	83.02	45.377	
11,300.00	7,179.44	7,007.08	6,981.11	74.19	9.45	84.16	-413.95	-1,629.97	3,849.60	3,764.69	84.91	45.337	
11,400.00	7,177.31	7,002.66	6,976.70	76.04	9.44	84.04	-414.08	-1,629.85	3,932.89	3,846.08	86.80	45.307	
11,500.00	7,175.18	6,998.27	6,972.31	77.90	9.43	83.92	-414.21	-1,629.73	4,016.93	3,928.23	88.70	45.287	
11,600.00	7,173.05	6,993.89	6,967.94	79.75	9.42	83.81	-414.34	-1,629.62	4,101.69	4,011.09	90.60	45.274	
11,700.00	7,170.92	6,989.54	6,963.59	81.61	9.41	83.69	-414.47	-1,629.50	4,187.11	4,094.62	92.50	45.268 SF	
11,800.00	7,168.80	6,985.21	6,959.26	83.47	9.40	83.58	-414.59	-1,629.39	4,273.16	4,178.77	94.40	45.268	
11,837.41	7,168.00	6,983.59	6,957.64	84.17	9.39	83.53	-414.64	-1,629.35	4,305.51	4,210.40	95.11	45.270	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 24-26 offset - CAMP 24-26 - CAMP 24-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-164.21	-1,823.98	-515.95	1,895.61					
100.00	100.00	74.03	74.03	0.08	0.10	-164.20	-1,824.14	-516.10	1,895.77	1,895.58	0.18	N/A		
200.00	200.00	173.21	173.21	0.31	0.30	-164.20	-1,824.71	-516.38	1,896.40	1,895.79	0.61	3,109.102		
300.00	300.00	280.73	280.73	0.53	0.54	-164.21	-1,825.24	-516.08	1,896.80	1,895.72	1.07	1,766.664		
400.00	400.00	379.92	379.91	0.76	0.77	-164.22	-1,825.46	-515.84	1,896.95	1,895.41	1.53	1,237.795		
500.00	500.00	474.32	474.31	0.98	1.00	-164.23	-1,825.84	-515.68	1,897.29	1,895.31	1.99	954.726		
600.00	600.00	583.94	583.93	1.21	1.19	-164.22	-1,826.19	-515.93	1,897.67	1,895.27	2.40	791.965		
700.00	700.00	688.63	688.63	1.43	1.27	-164.21	-1,825.94	-516.18	1,897.51	1,894.81	2.70	702.761		
773.24	773.24	757.25	757.24	1.60	1.36	-164.21	-1,825.83	-516.20	1,897.40	1,894.44	2.96	641.367		
800.00	800.00	781.88	781.87	1.66	1.40	-164.21	-1,825.84	-516.22	1,897.41	1,894.36	3.06	620.937		
900.00	900.00	886.79	886.78	1.88	1.58	-164.21	-1,825.83	-516.44	1,897.46	1,894.00	3.46	548.146		
930.72	930.72	914.73	914.72	1.95	1.63	-164.20	-1,825.76	-516.56	1,897.42	1,893.84	3.58	529.904		
1,000.00	1,000.00	969.89	969.88	2.11	1.73	-164.19	-1,825.84	-517.01	1,897.68	1,893.84	3.84	494.673		
1,100.00	1,100.00	1,052.58	1,052.56	2.33	1.91	-164.17	-1,826.60	-518.08	1,898.91	1,894.67	4.24	447.995		
1,200.00	1,200.00	1,136.36	1,136.32	2.56	2.11	-164.15	-1,828.13	-519.05	1,900.98	1,896.32	4.66	407.628		
1,300.00	1,300.00	1,218.92	1,218.84	2.78	2.31	-164.12	-1,830.21	-520.66	1,903.94	1,898.85	5.09	373.974		
1,400.00	1,399.98	1,300.00	1,299.85	3.00	2.51	159.48	-1,832.96	-522.52	1,909.47	1,903.95	5.52	345.900		
1,500.00	1,499.84	1,381.01	1,380.76	3.23	2.72	159.49	-1,836.50	-524.50	1,919.24	1,913.29	5.95	322.755		
1,600.00	1,599.45	1,461.01	1,460.61	3.45	2.92	159.49	-1,840.73	-526.74	1,933.24	1,926.87	6.37	303.563		
1,700.00	1,698.70	1,547.94	1,547.34	3.69	3.15	159.51	-1,846.01	-529.63	1,951.34	1,944.53	6.81	286.671		
1,800.00	1,797.61	1,634.58	1,633.74	3.95	3.37	159.66	-1,851.44	-532.97	1,972.16	1,964.91	7.26	271.809		
1,900.00	1,896.51	1,714.20	1,713.08	4.22	3.58	159.84	-1,856.99	-536.64	1,993.97	1,986.27	7.69	259.137		
2,000.00	1,995.40	1,800.00	1,798.54	4.51	3.81	160.02	-1,863.42	-540.74	2,016.36	2,008.20	8.15	247.320		
2,100.00	2,094.30	1,885.10	1,883.26	4.80	4.03	160.21	-1,870.27	-544.93	2,039.33	2,030.72	8.61	236.796		
2,200.00	2,193.19	1,968.89	1,966.61	5.10	4.26	160.39	-1,877.58	-549.36	2,063.05	2,053.98	9.07	227.445		
2,300.00	2,292.09	2,049.17	2,046.42	5.41	4.47	160.56	-1,885.11	-553.67	2,087.44	2,077.92	9.52	219.229		
2,400.00	2,390.98	2,136.03	2,132.70	5.72	4.71	160.72	-1,894.05	-558.24	2,112.63	2,102.64	9.99	211.455		
2,500.00	2,489.88	2,257.98	2,253.87	6.04	5.04	160.96	-1,906.08	-564.95	2,137.60	2,127.05	10.55	202.619		
2,600.00	2,588.77	2,463.53	2,458.73	6.36	5.59	161.30	-1,920.85	-572.40	2,159.67	2,148.35	11.32	190.769		
2,700.00	2,687.67	2,635.84	2,630.93	6.68	6.04	161.52	-1,926.31	-574.10	2,176.83	2,164.83	12.01	181.282		
2,800.00	2,786.56	2,754.95	2,750.03	7.01	6.34	161.66	-1,927.94	-574.42	2,192.28	2,179.73	12.55	174.629		
2,900.00	2,885.46	2,855.25	2,850.32	7.34	6.58	161.78	-1,928.78	-574.30	2,207.12	2,194.08	13.04	169.231		
3,000.00	2,984.36	2,946.98	2,942.05	7.67	6.80	161.87	-1,929.85	-574.13	2,222.26	2,208.75	13.51	164.460		
3,100.00	3,083.25	3,048.64	3,043.71	8.00	7.05	161.99	-1,931.12	-574.24	2,237.57	2,223.56	14.02	159.620		
3,200.00	3,182.15	3,146.92	3,141.97	8.34	7.30	162.11	-1,931.90	-574.75	2,252.60	2,238.08	14.52	155.136		
3,300.00	3,281.04	3,229.77	3,224.81	8.67	7.51	162.22	-1,932.74	-575.80	2,268.09	2,253.11	14.98	151.400		
3,400.00	3,379.94	3,300.00	3,295.02	9.01	7.68	162.33	-1,933.88	-577.26	2,284.46	2,269.05	15.41	148.262		
3,500.00	3,478.83	3,384.04	3,379.02	9.35	7.90	162.45	-1,936.03	-579.11	2,301.74	2,285.86	15.88	144.983		
3,600.00	3,577.73	3,471.24	3,466.14	9.69	8.13	162.57	-1,939.03	-580.93	2,319.77	2,303.41	16.36	141.835		
3,700.00	3,676.62	3,560.41	3,555.22	10.03	8.37	162.70	-1,942.28	-583.26	2,338.19	2,321.35	16.84	138.846		
3,800.00	3,775.52	3,659.78	3,654.48	10.37	8.63	162.84	-1,946.07	-586.20	2,356.89	2,339.54	17.35	135.851		
3,900.00	3,874.41	3,771.34	3,765.92	10.72	8.92	163.01	-1,949.81	-589.65	2,375.23	2,357.34	17.89	132.784		
4,000.00	3,973.31	3,900.67	3,895.17	11.06	9.26	163.16	-1,953.65	-591.60	2,392.71	2,374.23	18.47	129.513		
4,100.00	4,072.20	4,001.39	3,995.86	11.40	9.51	163.24	-1,956.39	-591.60	2,409.44	2,390.47	18.97	126.993		
4,200.00	4,171.10	4,119.08	4,113.51	11.75	9.77	163.32	-1,959.37	-590.59	2,425.71	2,406.23	19.49	124.480		
4,300.00	4,269.99	4,235.68	4,230.08	12.09	10.02	163.40	-1,961.43	-589.73	2,441.33	2,421.35	19.98	122.170		
4,400.00	4,368.89	4,369.01	4,363.38	12.44	10.22	163.46	-1,962.79	-587.19	2,455.87	2,435.43	20.43	120.182		
4,500.00	4,467.78	4,481.35	4,475.67	12.78	10.32	163.50	-1,963.00	-583.99	2,469.29	2,448.49	20.79	118.745		
4,600.00	4,566.68	4,590.49	4,584.79	13.13	10.39	163.56	-1,962.53	-581.59	2,482.37	2,461.25	21.12	117.533		
4,700.00	4,665.57	4,692.41	4,686.69	13.48	10.42	163.64	-1,961.51	-580.11	2,495.17	2,473.76	21.41	116.533		
4,800.00	4,764.47	4,796.92	4,791.19	13.82	10.44	163.73	-1,960.06	-579.23	2,507.83	2,486.14	21.69	115.625		
4,900.00	4,863.36	4,920.85	4,915.08	14.17	10.47	163.85	-1,957.35	-578.50	2,519.83	2,497.86	21.97	114.681		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 24-26 offset - CAMP 24-26 - CAMP 24-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	5,026.25	5,020.45	14.52	10.50	163.95	-1,954.61	-577.45	2,531.32	2,509.06	22.26	113.716		
5,100.00	5,061.15	5,128.38	5,122.52	14.87	10.54	164.05	-1,951.57	-576.60	2,542.52	2,519.97	22.55	112.735		
5,200.00	5,160.05	5,215.67	5,209.78	15.21	10.57	164.13	-1,949.27	-575.75	2,554.00	2,531.15	22.85	111.789		
5,300.00	5,258.94	5,300.00	5,294.09	15.56	10.61	164.21	-1,947.45	-575.00	2,565.98	2,542.83	23.14	110.874		
5,400.00	5,357.84	5,381.92	5,376.00	15.91	10.65	164.28	-1,946.13	-574.57	2,578.58	2,555.13	23.44	109.989		
5,500.00	5,456.73	5,473.11	5,467.17	16.26	10.71	164.37	-1,945.16	-574.26	2,591.75	2,567.99	23.75	109.104		
5,600.00	5,555.63	5,572.01	5,566.07	16.61	10.78	164.45	-1,944.31	-573.72	2,605.05	2,580.98	24.08	108.191		
5,700.00	5,654.52	5,670.74	5,664.79	16.96	10.86	164.53	-1,943.50	-573.01	2,618.34	2,593.93	24.41	107.251		
5,800.00	5,753.42	5,772.49	5,766.54	17.31	10.95	164.60	-1,942.75	-572.04	2,631.62	2,606.85	24.76	106.275		
5,900.00	5,852.31	5,875.65	5,869.69	17.66	11.06	164.67	-1,942.00	-570.59	2,644.75	2,619.62	25.13	105.242		
6,000.00	5,951.21	5,955.12	5,949.13	18.01	11.17	164.70	-1,941.82	-568.81	2,658.07	2,632.57	25.50	104.241		
6,100.00	6,050.10	6,026.03	6,020.02	18.36	11.29	164.72	-1,942.49	-567.07	2,672.37	2,646.49	25.88	103.275		
6,200.00	6,149.00	6,100.00	6,093.95	18.71	11.44	164.73	-1,944.09	-565.25	2,687.76	2,661.48	26.28	102.283		
6,300.00	6,247.89	6,224.26	6,218.16	19.06	11.70	164.77	-1,946.42	-562.83	2,703.12	2,676.33	26.79	100.908		
6,400.00	6,346.79	6,338.51	6,332.41	19.41	11.91	164.84	-1,947.19	-561.73	2,717.71	2,690.45	27.26	99.695		
6,500.00	6,445.68	6,442.77	6,436.66	19.76	12.09	164.91	-1,947.09	-561.03	2,731.70	2,704.00	27.69	98.646		
6,600.00	6,544.58	6,537.73	6,531.62	20.11	12.25	164.99	-1,947.07	-560.97	2,745.97	2,717.87	28.10	97.718		
6,700.00	6,643.53	6,647.76	6,641.65	20.44	12.39	151.90	-1,946.58	-561.08	2,759.41	2,730.97	28.44	97.014		
6,800.00	6,743.00	6,740.33	6,734.22	20.62	12.49	63.87	-1,945.84	-561.74	2,761.12	2,732.55	28.56	96.666		
6,900.00	6,840.75	6,833.78	6,827.66	20.64	12.62	41.01	-1,945.40	-562.79	2,747.21	2,719.27	27.95	98.295		
7,000.00	6,933.82	6,935.49	6,929.36	20.54	12.76	36.17	-1,944.40	-564.03	2,717.36	2,690.64	26.72	101.708		
7,100.00	7,019.36	7,000.00	6,993.85	20.31	12.84	35.87	-1,943.71	-565.36	2,673.31	2,648.24	25.07	106.619		
7,200.00	7,094.79	7,060.47	7,054.29	20.01	12.94	38.29	-1,943.29	-567.05	2,616.80	2,593.23	23.57	111.034		
7,300.00	7,157.81	7,100.00	7,093.80	19.66	13.01	43.05	-1,943.24	-568.35	2,549.65	2,526.76	22.89	111.407		
7,400.00	7,206.51	7,144.96	7,138.73	19.29	13.09	51.18	-1,943.37	-569.98	2,473.76	2,449.77	24.00	103.090		
7,500.00	7,239.40	7,171.16	7,164.91	18.94	13.14	63.09	-1,943.52	-571.00	2,391.45	2,364.65	26.80	89.245		
7,600.00	7,255.49	7,184.45	7,178.19	18.63	13.17	79.06	-1,943.63	-571.54	2,305.18	2,275.37	29.81	77.333		
7,700.00	7,256.04	7,185.54	7,179.28	18.39	13.17	88.96	-1,943.64	-571.59	2,217.62	2,186.79	30.83	71.920		
7,800.00	7,253.91	7,184.51	7,178.25	18.51	13.17	88.91	-1,943.63	-571.54	2,130.94	2,099.69	31.24	68.203		
7,900.00	7,251.78	7,183.46	7,177.20	19.20	13.16	88.85	-1,943.62	-571.50	2,045.47	2,013.63	31.84	64.242		
8,000.00	7,249.65	7,182.40	7,176.14	20.08	13.16	88.80	-1,943.61	-571.46	1,961.38	1,928.77	32.61	60.155		
8,100.00	7,247.53	7,181.33	7,175.07	21.07	13.16	88.74	-1,943.60	-571.41	1,878.84	1,845.32	33.52	56.049		
8,200.00	7,245.40	7,180.23	7,173.98	22.17	13.16	88.68	-1,943.59	-571.37	1,798.08	1,763.47	34.61	51.952		
8,300.00	7,243.27	7,179.12	7,172.87	23.36	13.16	88.62	-1,943.58	-571.32	1,719.34	1,683.49	35.85	47.959		
8,400.00	7,241.14	7,178.00	7,171.74	24.64	13.15	88.57	-1,943.58	-571.28	1,642.92	1,605.73	37.19	44.180		
8,500.00	7,239.01	7,176.86	7,170.60	25.98	13.15	88.51	-1,943.57	-571.23	1,569.14	1,530.54	38.61	40.646		
8,600.00	7,236.89	7,175.70	7,169.44	27.39	13.15	88.44	-1,943.56	-571.19	1,498.41	1,458.32	40.09	37.374		
8,700.00	7,234.76	7,174.52	7,168.27	28.85	13.15	88.38	-1,943.55	-571.14	1,431.18	1,389.54	41.64	34.371		
8,800.00	7,232.63	7,173.32	7,167.07	30.36	13.15	88.32	-1,943.54	-571.09	1,367.96	1,324.72	43.23	31.640		
8,900.00	7,230.50	7,172.11	7,165.86	31.91	13.14	88.25	-1,943.53	-571.04	1,309.32	1,264.45	44.87	29.178		
9,000.00	7,228.38	7,170.87	7,164.62	33.49	13.14	88.19	-1,943.52	-570.99	1,255.93	1,209.38	46.55	26.981		
9,100.00	7,226.25	7,169.62	7,163.37	35.11	13.14	88.12	-1,943.51	-570.94	1,208.46	1,160.20	48.25	25.043		
9,200.00	7,224.12	7,168.34	7,162.10	36.75	13.14	88.06	-1,943.50	-570.89	1,167.64	1,117.65	49.99	23.358		
9,300.00	7,221.99	7,167.05	7,160.80	38.41	13.13	87.99	-1,943.50	-570.84	1,134.19	1,082.45	51.74	21.919		
9,400.00	7,219.86	7,165.74	7,159.49	40.10	13.13	87.92	-1,943.49	-570.79	1,108.78	1,055.26	53.52	20.717		
9,500.00	7,217.74	7,164.40	7,158.15	41.80	13.13	87.85	-1,943.48	-570.74	1,091.97	1,036.65	55.32	19.741		
9,600.00	7,215.61	7,163.04	7,156.80	43.53	13.13	87.77	-1,943.47	-570.68	1,084.16	1,027.03	57.13	18.979		
9,635.03	7,214.86	7,162.56	7,156.32	44.13	13.13	87.75	-1,943.47	-570.66	1,083.59	1,025.77	57.82	18.740 CC, ES		
9,700.00	7,213.48	7,161.66	7,155.42	45.26	13.12	87.70	-1,943.46	-570.63	1,085.54	1,026.59	58.95	18.415		
9,800.00	7,211.35	7,160.25	7,154.01	47.01	13.12	87.63	-1,943.45	-570.57	1,096.07	1,035.29	60.78	18.032		
9,900.00	7,209.22	7,158.83	7,152.59	48.77	13.12	87.55	-1,943.44	-570.52	1,115.51	1,052.88	62.63	17.811		
10,000.00	7,207.10	7,157.37	7,151.13	50.54	13.12	87.48	-1,943.43	-570.46	1,143.39	1,078.91	64.49	17.731 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 24-26 offset - CAMP 24-26 - CAMP 24-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,204.97	7,155.89	7,149.66	52.32	13.11	87.40	-1,943.43	-570.40	1,179.12	1,112.77	66.35	17.771	
10,200.00	7,202.84	7,154.39	7,148.15	54.11	13.11	87.32	-1,943.42	-570.35	1,222.00	1,153.78	68.22	17.913	
10,300.00	7,200.71	7,152.86	7,146.63	55.91	13.11	87.24	-1,943.41	-570.29	1,271.32	1,201.22	70.10	18.136	
10,400.00	7,198.59	7,151.30	7,145.07	57.72	13.10	87.15	-1,943.40	-570.23	1,326.36	1,254.38	71.98	18.427	
10,500.00	7,196.46	7,149.72	7,143.49	59.53	13.10	87.07	-1,943.39	-570.17	1,386.43	1,312.56	73.87	18.769	
10,600.00	7,194.33	7,148.11	7,141.87	61.34	13.10	86.99	-1,943.38	-570.10	1,450.91	1,375.14	75.76	19.151	
10,700.00	7,192.20	7,146.46	7,140.23	63.17	13.09	86.90	-1,943.37	-570.04	1,519.24	1,441.58	77.66	19.563	
10,800.00	7,190.07	7,144.79	7,138.56	64.99	13.09	86.81	-1,943.37	-569.98	1,590.92	1,511.36	79.56	19.996	
10,900.00	7,187.95	7,143.09	7,136.86	66.83	13.09	86.72	-1,943.36	-569.91	1,665.52	1,584.05	81.47	20.444	
11,000.00	7,185.82	7,141.35	7,135.13	68.66	13.09	86.63	-1,943.35	-569.85	1,742.67	1,659.29	83.37	20.902	
11,100.00	7,183.69	7,139.58	7,133.36	70.50	13.08	86.53	-1,943.34	-569.78	1,822.04	1,736.75	85.28	21.365	
11,200.00	7,181.56	7,137.78	7,131.56	72.35	13.08	86.44	-1,943.33	-569.71	1,903.35	1,816.15	87.19	21.829	
11,300.00	7,179.44	7,135.95	7,129.72	74.19	13.08	86.34	-1,943.33	-569.64	1,986.36	1,897.26	89.11	22.291	
11,400.00	7,177.31	7,134.07	7,127.85	76.04	13.07	86.24	-1,943.32	-569.57	2,070.88	1,979.86	91.02	22.751	
11,500.00	7,175.18	7,132.16	7,125.94	77.90	13.07	86.14	-1,943.31	-569.50	2,156.72	2,063.78	92.94	23.205	
11,600.00	7,173.05	7,130.22	7,124.00	79.75	13.06	86.04	-1,943.31	-569.43	2,243.73	2,148.87	94.86	23.653	
11,700.00	7,170.92	7,128.23	7,122.02	81.61	13.06	85.94	-1,943.30	-569.36	2,331.79	2,235.01	96.78	24.094	
11,800.00	7,168.80	7,126.21	7,119.99	83.47	13.06	85.83	-1,943.29	-569.28	2,420.77	2,322.07	98.70	24.527	
11,837.41	7,168.00	7,125.44	7,119.22	84.17	13.06	85.79	-1,943.29	-569.26	2,454.27	2,354.86	99.42	24.686	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 36-26 offset - CAMP 36-26 - CAMP 36-26													Offset Site Error:	0.00 ft
Survey Program: 901-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-167.39	-3,954.30	-884.49	4,052.02					
100.00	100.00	89.89	89.89	0.08	0.12	-167.39	-3,954.28	-884.51	4,052.00	4,051.80	0.20	N/A		
200.00	200.00	190.89	190.89	0.31	0.25	-167.39	-3,954.22	-884.61	4,051.96	4,051.40	0.56	7,202.312		
300.00	300.00	291.89	291.89	0.53	0.39	-167.39	-3,954.13	-884.77	4,051.91	4,050.98	0.92	4,397.555		
400.00	400.00	392.89	392.89	0.76	0.52	-167.38	-3,953.99	-885.00	4,051.82	4,050.54	1.28	3,164.975		
500.00	500.00	493.89	493.89	0.98	0.66	-167.38	-3,953.81	-885.30	4,051.71	4,050.07	1.64	2,472.045		
600.00	600.00	594.89	594.89	1.21	0.79	-167.37	-3,953.59	-885.66	4,051.58	4,049.58	2.00	2,028.003		
700.00	700.00	695.89	695.88	1.43	0.92	-167.37	-3,953.33	-886.09	4,051.42	4,049.07	2.36	1,719.165		
800.00	800.00	796.88	796.88	1.66	1.06	-167.36	-3,953.03	-886.60	4,051.24	4,048.53	2.72	1,491.936		
900.00	900.00	897.88	897.87	1.88	1.19	-167.35	-3,952.69	-887.16	4,051.03	4,047.96	3.07	1,317.740		
1,000.00	1,000.00	997.78	997.77	2.11	1.45	-167.34	-3,952.30	-887.85	4,050.81	4,047.25	3.56	1,137.939		
1,100.00	1,100.00	1,089.04	1,089.03	2.33	1.69	-167.33	-3,952.07	-888.51	4,050.71	4,046.69	4.02	1,006.827		
1,200.00	1,200.00	1,192.83	1,192.81	2.56	1.96	-167.32	-3,951.76	-889.39	4,050.61	4,046.09	4.52	896.854		
1,224.02	1,224.02	1,213.04	1,213.02	2.61	2.01	-167.31	-3,951.71	-889.55	4,050.60	4,045.98	4.62	876.727		
1,300.00	1,300.00	1,278.48	1,278.46	2.78	2.17	-167.31	-3,951.72	-889.96	4,050.71	4,045.76	4.95	818.127		
1,400.00	1,399.98	1,373.95	1,373.93	3.00	2.40	156.29	-3,951.81	-890.88	4,052.61	4,047.20	5.41	749.626		
1,500.00	1,499.84	1,443.00	1,442.97	3.23	2.55	156.28	-3,952.01	-891.43	4,057.95	4,052.16	5.78	701.545		
1,600.00	1,599.45	1,477.89	1,477.85	3.45	2.61	156.22	-3,952.52	-891.74	4,067.75	4,061.68	6.07	670.514		
1,700.00	1,698.70	1,534.00	1,533.91	3.69	2.71	156.14	-3,954.87	-892.72	4,082.82	4,076.43	6.39	639.283		
1,800.00	1,797.61	1,534.00	1,533.91	3.95	2.71	156.11	-3,954.87	-892.72	4,101.20	4,094.58	6.62	619.415		
1,900.00	1,896.51	1,626.00	1,625.71	4.22	2.86	156.21	-3,960.02	-895.70	4,120.90	4,113.88	7.02	587.242		
2,000.00	1,995.40	1,677.65	1,677.21	4.51	2.97	156.28	-3,963.03	-898.23	4,141.23	4,133.87	7.37	562.213		
2,100.00	2,094.30	1,736.56	1,735.87	4.80	3.10	156.37	-3,967.00	-902.00	4,162.71	4,154.97	7.74	538.039		
2,200.00	2,193.19	1,826.68	1,825.47	5.10	3.31	156.53	-3,973.01	-909.50	4,184.64	4,176.45	8.19	510.969		
2,300.00	2,292.09	1,913.82	1,912.06	5.41	3.52	156.69	-3,978.85	-917.29	4,206.78	4,198.14	8.65	486.521		
2,400.00	2,390.98	1,994.83	1,992.49	5.72	3.72	156.84	-3,984.37	-925.23	4,229.27	4,220.18	9.10	465.010		
2,500.00	2,489.88	2,076.00	2,072.93	6.04	3.94	157.01	-3,989.82	-934.63	4,252.14	4,242.59	9.55	445.171		
2,600.00	2,588.77	2,144.43	2,140.58	6.36	4.12	157.18	-3,994.42	-943.89	4,275.55	4,265.57	9.98	428.275		
2,700.00	2,687.67	2,194.69	2,190.15	6.68	4.26	157.31	-3,997.98	-951.43	4,299.79	4,289.42	10.37	414.645		
2,800.00	2,786.56	2,257.00	2,251.44	7.01	4.43	157.47	-4,003.26	-961.30	4,325.36	4,314.57	10.79	400.914		
2,900.00	2,885.46	2,281.64	2,275.64	7.34	4.50	157.53	-4,005.61	-965.32	4,351.93	4,340.82	11.11	391.677		
3,000.00	2,984.36	2,347.00	2,339.72	7.67	4.68	157.70	-4,012.50	-976.12	4,379.79	4,368.25	11.54	379.604		
3,100.00	3,083.25	2,347.00	2,339.72	8.00	4.68	157.70	-4,012.50	-976.12	4,408.78	4,396.98	11.80	373.682		
3,200.00	3,182.15	2,400.08	2,391.63	8.34	4.83	157.84	-4,019.05	-985.06	4,438.92	4,426.72	12.19	364.073		
3,300.00	3,281.04	2,437.00	2,427.63	8.67	4.93	157.93	-4,024.31	-991.37	4,470.55	4,458.01	12.55	356.329		
3,400.00	3,379.94	2,504.37	2,493.14	9.01	5.12	158.10	-4,034.37	-1,003.45	4,503.16	4,490.19	12.98	347.037		
3,500.00	3,478.83	2,666.36	2,650.98	9.35	5.59	158.51	-4,056.71	-1,032.18	4,534.43	4,520.78	13.64	332.347		
3,600.00	3,577.73	2,732.96	2,715.85	9.69	5.78	158.67	-4,066.15	-1,043.90	4,566.37	4,552.30	14.07	324.478		
3,700.00	3,676.62	2,829.99	2,810.60	10.03	6.07	158.89	-4,079.89	-1,059.67	4,598.03	4,583.46	14.58	315.417		
3,800.00	3,775.52	2,889.00	2,868.15	10.37	6.24	159.02	-4,089.01	-1,068.99	4,630.68	4,615.70	14.99	309.008		
3,900.00	3,874.41	2,915.19	2,893.64	10.72	6.32	159.07	-4,093.35	-1,073.15	4,664.27	4,648.96	15.31	304.614		
4,000.00	3,973.31	2,979.00	2,955.61	11.06	6.50	159.20	-4,104.63	-1,083.37	4,699.09	4,683.36	15.73	298.727		
4,100.00	4,072.20	2,979.00	2,955.61	11.40	6.50	159.20	-4,104.63	-1,083.37	4,734.82	4,718.82	15.99	296.055		
4,200.00	4,171.10	3,040.40	3,014.99	11.75	6.69	159.33	-4,116.33	-1,093.72	4,771.49	4,755.09	16.41	290.845		
4,300.00	4,269.99	3,160.00	3,130.31	12.09	7.05	159.59	-4,139.94	-1,114.83	4,809.05	4,792.09	16.96	283.568		
4,400.00	4,368.89	3,203.76	3,172.56	12.44	7.19	159.68	-4,148.54	-1,122.34	4,846.31	4,828.98	17.33	279.675		
4,500.00	4,467.78	3,378.56	3,341.43	12.78	7.73	160.02	-4,182.62	-1,151.80	4,883.44	4,865.43	18.02	271.069		
4,600.00	4,566.68	3,431.00	3,392.15	13.13	7.89	160.12	-4,192.77	-1,160.49	4,920.23	4,901.82	18.41	267.323		
4,700.00	4,665.57	3,727.36	3,679.42	13.48	8.82	160.71	-4,244.54	-1,211.38	4,956.35	4,936.94	19.41	255.358		
4,800.00	4,764.47	3,795.68	3,745.90	13.82	9.04	160.85	-4,254.96	-1,223.19	4,989.87	4,970.02	19.85	251.415		
4,900.00	4,863.36	3,971.57	3,916.97	14.17	9.60	161.23	-4,279.80	-1,255.57	5,022.74	5,002.17	20.57	244.211		
5,000.00	4,962.26	4,028.85	3,972.49	14.52	9.79	161.38	-4,287.09	-1,267.62	5,055.36	5,034.38	20.98	240.939		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 36-26 offset - CAMP 36-26 - CAMP 36-26													Offset Site Error:	0.00 ft
Survey Program: 901-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	4,063.00	4,005.51	14.87	9.90	161.46	-4,291.53	-1,275.12	5,088.79	5,067.46	21.33	238.525		
5,200.00	5,160.05	4,125.07	4,065.45	15.21	10.10	161.62	-4,300.17	-1,288.73	5,123.00	5,101.24	21.76	235.419		
5,300.00	5,258.94	4,153.00	4,092.41	15.56	10.20	161.69	-4,304.40	-1,294.69	5,158.24	5,136.14	22.10	233.436		
5,400.00	5,357.84	4,195.78	4,133.61	15.91	10.34	161.79	-4,311.32	-1,303.90	5,194.49	5,172.02	22.47	231.161		
5,500.00	5,456.73	4,244.00	4,179.84	16.26	10.50	161.90	-4,319.83	-1,314.64	5,231.99	5,209.13	22.86	228.875		
5,600.00	5,555.63	4,602.00	4,526.09	16.61	11.68	162.60	-4,380.40	-1,381.73	5,269.51	5,245.48	24.04	219.227		
5,700.00	5,654.52	4,661.35	4,583.93	16.96	11.87	162.70	-4,389.05	-1,391.85	5,302.84	5,278.39	24.45	216.883		
5,800.00	5,753.42	4,729.13	4,649.85	17.31	12.08	162.83	-4,399.26	-1,403.85	5,336.83	5,311.94	24.89	214.456		
5,900.00	5,852.31	4,784.00	4,703.19	17.66	12.26	162.93	-4,407.60	-1,413.66	5,371.17	5,345.88	25.29	212.406		
6,000.00	5,951.21	4,830.17	4,747.96	18.01	12.41	163.01	-4,414.83	-1,422.31	5,406.30	5,380.63	25.67	210.626		
6,100.00	6,050.10	4,874.00	4,790.26	18.36	12.56	163.10	-4,422.09	-1,431.21	5,442.53	5,416.49	26.04	208.995		
6,200.00	6,149.00	4,912.58	4,827.38	18.71	12.69	163.18	-4,428.71	-1,439.39	5,479.66	5,453.25	26.40	207.545		
6,300.00	6,247.89	6,178.19	6,074.64	19.06	16.24	164.48	-4,568.74	-1,563.90	5,512.33	5,482.64	29.70	185.630		
6,400.00	6,346.79	6,338.00	6,234.40	19.41	16.51	164.53	-4,572.96	-1,563.33	5,528.90	5,498.68	30.22	182.932		
6,500.00	6,445.68	6,502.73	6,399.06	19.76	16.69	164.56	-4,576.35	-1,560.68	5,544.59	5,513.93	30.66	180.828		
6,600.00	6,544.58	6,616.56	6,512.82	20.11	16.76	164.56	-4,578.29	-1,557.19	5,559.37	5,528.38	30.99	179.406		
6,700.00	6,643.53	6,720.51	6,616.70	20.44	16.82	151.38	-4,580.03	-1,553.70	5,573.50	5,542.16	31.34	177.835		
6,800.00	6,743.00	6,846.85	6,743.00	20.62	16.89	63.22	-4,581.36	-1,550.58	5,575.69	5,543.99	31.71	175.852		
6,900.00	6,840.75	6,927.12	6,823.25	20.64	16.94	40.15	-4,581.73	-1,549.39	5,561.52	5,530.32	31.20	178.268		
7,000.00	6,933.82	7,004.91	6,901.05	20.54	17.04	34.89	-4,582.11	-1,549.03	5,532.01	5,502.02	29.99	184.485		
7,100.00	7,019.36	7,092.66	6,988.79	20.31	17.20	34.30	-4,582.50	-1,549.06	5,487.87	5,459.52	28.34	193.620		
7,200.00	7,094.79	7,178.01	7,074.14	20.01	17.37	36.39	-4,582.56	-1,549.49	5,430.24	5,403.53	26.72	203.231		
7,300.00	7,157.81	7,239.74	7,135.87	19.66	17.49	40.99	-4,582.46	-1,549.97	5,361.05	5,335.14	25.90	206.974		
7,400.00	7,206.51	7,275.32	7,171.44	19.29	17.57	48.77	-4,582.42	-1,550.37	5,282.62	5,255.71	26.91	196.334		
7,500.00	7,239.40	7,299.46	7,195.58	18.94	17.61	61.26	-4,582.43	-1,550.69	5,197.35	5,167.23	30.12	172.576		
7,600.00	7,255.49	7,315.00	7,211.12	18.63	17.64	79.71	-4,582.44	-1,550.92	5,107.78	5,074.11	33.68	151.666		
7,700.00	7,256.04	7,315.00	7,211.12	18.39	17.64	91.76	-4,582.44	-1,550.92	5,016.61	4,982.15	34.46	145.580		
7,800.00	7,253.91	7,315.00	7,211.12	18.51	17.64	91.76	-4,582.44	-1,550.92	4,925.64	4,890.70	34.94	140.968		
7,900.00	7,251.78	7,315.00	7,211.12	19.20	17.64	91.76	-4,582.44	-1,550.92	4,835.02	4,799.39	35.63	135.683		
8,000.00	7,249.65	7,315.00	7,211.12	20.08	17.64	91.76	-4,582.44	-1,550.92	4,744.78	4,708.29	36.50	130.007		
8,100.00	7,247.53	7,315.00	7,211.12	21.07	17.64	91.76	-4,582.44	-1,550.92	4,654.94	4,617.44	37.51	124.107		
8,200.00	7,245.40	7,315.00	7,211.12	22.17	17.64	91.76	-4,582.44	-1,550.92	4,565.53	4,526.88	38.65	118.129		
8,300.00	7,243.27	7,302.75	7,198.87	23.36	17.62	91.42	-4,582.43	-1,550.74	4,476.54	4,436.70	39.84	112.367		
8,400.00	7,241.14	7,301.20	7,197.32	24.64	17.62	91.38	-4,582.43	-1,550.72	4,388.03	4,346.85	41.18	106.558		
8,500.00	7,239.01	7,299.64	7,195.77	25.98	17.61	91.33	-4,582.43	-1,550.69	4,300.04	4,257.43	42.60	100.934		
8,600.00	7,236.89	7,298.07	7,194.20	27.39	17.61	91.29	-4,582.42	-1,550.67	4,212.57	4,168.48	44.09	95.535		
8,700.00	7,234.76	7,296.50	7,192.62	28.85	17.61	91.25	-4,582.42	-1,550.65	4,125.68	4,080.04	45.65	90.386		
8,800.00	7,232.63	7,294.91	7,191.04	30.36	17.60	91.20	-4,582.42	-1,550.63	4,039.39	3,992.15	47.25	85.497		
8,900.00	7,230.50	7,293.31	7,189.44	31.91	17.60	91.16	-4,582.42	-1,550.60	3,953.75	3,904.86	48.89	80.871		
9,000.00	7,228.38	7,291.71	7,187.83	33.49	17.60	91.11	-4,582.42	-1,550.58	3,868.80	3,818.23	50.57	76.504		
9,100.00	7,226.25	7,290.09	7,186.22	35.11	17.59	91.07	-4,582.42	-1,550.56	3,784.58	3,732.29	52.28	72.389		
9,200.00	7,224.12	7,288.46	7,184.59	36.75	17.59	91.02	-4,582.42	-1,550.54	3,701.14	3,647.12	54.02	68.514		
9,300.00	7,221.99	7,286.83	7,182.95	38.41	17.59	90.98	-4,582.42	-1,550.52	3,618.54	3,562.76	55.78	64.868		
9,400.00	7,219.86	7,285.18	7,181.31	40.10	17.58	90.93	-4,582.42	-1,550.49	3,536.84	3,479.28	57.57	61.439		
9,500.00	7,217.74	7,283.52	7,179.65	41.80	17.58	90.89	-4,582.42	-1,550.47	3,456.11	3,396.74	59.37	58.215		
9,600.00	7,215.61	7,281.85	7,177.98	43.53	17.58	90.84	-4,582.42	-1,550.45	3,376.40	3,315.21	61.19	55.183		
9,700.00	7,213.48	7,280.17	7,176.30	45.26	17.57	90.79	-4,582.42	-1,550.43	3,297.80	3,234.78	63.02	52.332		
9,800.00	7,211.35	7,278.48	7,174.61	47.01	17.57	90.75	-4,582.42	-1,550.41	3,220.38	3,155.52	64.86	49.651		
9,900.00	7,209.22	7,276.78	7,172.91	48.77	17.57	90.70	-4,582.42	-1,550.39	3,144.24	3,077.52	66.72	47.129		
10,000.00	7,207.10	7,275.07	7,171.20	50.54	17.56	90.65	-4,582.42	-1,550.36	3,069.46	3,000.88	68.58	44.757		
10,100.00	7,204.97	7,273.35	7,169.48	52.32	17.56	90.60	-4,582.42	-1,550.34	2,996.16	2,925.70	70.45	42.527		
10,200.00	7,202.84	7,271.62	7,167.74	54.11	17.56	90.56	-4,582.42	-1,550.32	2,924.43	2,852.10	72.34	40.429		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 36-26 offset - CAMP 36-26 - CAMP 36-26												Offset Site Error:	0.00 ft
Survey Program: 901-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,269.87	7,166.00	55.91	17.55	90.51	-4,582.42	-1,550.30	2,854.41	2,780.18	74.22	38.457	
10,400.00	7,198.59	7,268.11	7,164.24	57.72	17.55	90.46	-4,582.43	-1,550.28	2,786.21	2,710.09	76.12	36.603	
10,500.00	7,196.46	7,266.35	7,162.47	59.53	17.55	90.41	-4,582.43	-1,550.26	2,719.99	2,641.96	78.02	34.862	
10,600.00	7,194.33	7,264.57	7,160.69	61.34	17.54	90.36	-4,582.43	-1,550.24	2,655.87	2,575.94	79.93	33.229	
10,700.00	7,192.20	7,262.77	7,158.90	63.17	17.54	90.31	-4,582.43	-1,550.22	2,594.02	2,512.19	81.84	31.697	
10,800.00	7,190.07	7,260.97	7,157.10	64.99	17.54	90.26	-4,582.43	-1,550.20	2,534.61	2,450.86	83.75	30.263	
10,900.00	7,187.95	7,259.16	7,155.29	66.83	17.53	90.21	-4,582.43	-1,550.18	2,477.81	2,392.14	85.67	28.921	
11,000.00	7,185.82	7,257.33	7,153.46	68.66	17.53	90.16	-4,582.43	-1,550.16	2,423.81	2,336.21	87.60	27.670	
11,100.00	7,183.69	7,255.49	7,151.62	70.50	17.53	90.11	-4,582.44	-1,550.14	2,372.79	2,283.27	89.52	26.504	
11,200.00	7,181.56	7,253.64	7,149.77	72.35	17.52	90.06	-4,582.44	-1,550.12	2,324.95	2,233.50	91.45	25.422	
11,300.00	7,179.44	7,251.77	7,147.90	74.19	17.52	90.01	-4,582.44	-1,550.10	2,280.50	2,187.11	93.39	24.420	
11,400.00	7,177.31	7,249.90	7,146.03	76.04	17.51	89.95	-4,582.44	-1,550.08	2,239.63	2,144.31	95.32	23.495	
11,500.00	7,175.18	7,248.01	7,144.14	77.90	17.51	89.90	-4,582.45	-1,550.06	2,202.54	2,105.28	97.26	22.646	
11,600.00	7,173.05	7,246.10	7,142.23	79.75	17.51	89.85	-4,582.45	-1,550.04	2,169.43	2,070.23	99.20	21.869	
11,700.00	7,170.92	7,244.19	7,140.32	81.61	17.50	89.79	-4,582.45	-1,550.02	2,140.48	2,039.34	101.14	21.163	
11,800.00	7,168.80	7,242.26	7,138.39	83.47	17.50	89.74	-4,582.45	-1,550.00	2,115.86	2,012.78	103.09	20.525	
11,837.41	7,168.00	7,241.54	7,137.67	84.17	17.50	89.72	-4,582.46	-1,549.99	2,107.80	2,003.98	103.82	20.303 CC, ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - Camp 36N-26HZ - Camp 36N-26HZ - Camp 36N-26HZ (wp02) - H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-99.91	-9.86	-56.42	57.28				
100.00	100.00	100.00	100.00	0.08	0.08	-99.91	-9.86	-56.42	57.28	57.11	0.17	339.779	
200.00	200.00	200.00	200.00	0.31	0.31	-99.91	-9.86	-56.42	57.28	56.66	0.62	92.667	
300.00	300.00	300.00	300.00	0.53	0.53	-99.91	-9.86	-56.42	57.28	56.21	1.07	53.649	
400.00	400.00	400.00	400.00	0.76	0.76	-99.91	-9.86	-56.42	57.28	55.76	1.52	37.753	
500.00	500.00	500.00	500.00	0.98	0.98	-99.91	-9.86	-56.42	57.28	55.31	1.97	29.124	
600.00	600.00	600.00	600.00	1.21	1.21	-99.91	-9.86	-56.42	57.28	54.86	2.42	23.706	
700.00	700.00	700.00	700.00	1.43	1.43	-99.91	-9.86	-56.42	57.28	54.41	2.87	19.987	
800.00	800.00	800.00	800.00	1.66	1.66	-99.91	-9.86	-56.42	57.28	53.96	3.32	17.277	
900.00	900.00	900.00	900.00	1.88	1.88	-99.91	-9.86	-56.42	57.28	53.51	3.76	15.214	
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-99.91	-9.86	-56.42	57.28	53.06	4.21	13.591	
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	-99.91	-9.86	-56.42	57.28	52.61	4.66	12.281 CC, ES	
1,200.00	1,200.00	1,198.33	1,198.31	2.56	2.55	-98.99	-9.17	-57.96	58.71	53.61	5.10	11.507	
1,300.00	1,300.00	1,296.43	1,296.28	2.78	2.76	-96.47	-7.10	-62.57	63.08	57.54	5.54	11.394 SF	
1,400.00	1,399.98	1,394.02	1,393.50	3.00	2.98	-130.34	-3.68	-70.18	71.69	65.73	5.96	12.029	
1,500.00	1,499.84	1,490.68	1,489.47	3.23	3.21	-129.05	1.04	-80.69	85.58	79.20	6.38	13.408	
1,600.00	1,599.45	1,586.04	1,583.71	3.45	3.47	-128.67	6.99	-93.95	104.61	97.80	6.81	15.362	
1,700.00	1,698.70	1,679.71	1,675.76	3.69	3.76	-128.78	14.08	-109.75	128.64	121.39	7.24	17.758	
1,800.00	1,797.61	1,771.55	1,765.42	3.95	4.07	-129.20	22.23	-127.91	156.99	149.28	7.70	20.377	
1,900.00	1,896.51	1,861.80	1,852.85	4.22	4.43	-129.16	31.38	-148.29	188.10	179.91	8.19	22.977	
2,000.00	1,995.40	1,952.94	1,940.47	4.51	4.83	-128.79	41.64	-171.16	221.58	212.89	8.69	25.499	
2,100.00	2,094.30	2,047.00	2,030.78	4.80	5.27	-128.47	52.42	-195.17	255.49	246.27	9.22	27.715	
2,200.00	2,193.19	2,141.07	2,121.09	5.10	5.73	-128.21	63.19	-219.18	289.40	279.64	9.76	29.650	
2,300.00	2,292.09	2,235.14	2,211.40	5.41	6.21	-128.01	73.97	-243.19	323.32	313.00	10.31	31.347	
2,400.00	2,390.98	2,329.20	2,301.71	5.72	6.70	-127.85	84.75	-267.20	357.24	346.36	10.88	32.842	
2,500.00	2,489.88	2,423.27	2,392.03	6.04	7.20	-127.72	95.52	-291.21	391.16	379.71	11.45	34.166	
2,600.00	2,588.77	2,517.34	2,482.34	6.36	7.71	-127.61	106.30	-315.22	425.08	413.06	12.03	35.342	
2,700.00	2,687.67	2,611.41	2,572.65	6.68	8.22	-127.51	117.08	-339.23	459.01	446.40	12.61	36.393	
2,800.00	2,786.56	2,705.47	2,662.96	7.01	8.74	-127.43	127.85	-363.24	492.93	479.73	13.20	37.336	
2,900.00	2,885.46	2,799.54	2,753.27	7.34	9.26	-127.36	138.63	-387.25	526.86	513.06	13.80	38.186	
3,000.00	2,984.36	2,893.61	2,843.58	7.67	9.79	-127.29	149.41	-411.26	560.79	546.39	14.40	38.954	
3,100.00	3,083.25	2,987.67	2,933.89	8.00	10.32	-127.24	160.18	-435.26	594.71	579.72	15.00	39.651	
3,200.00	3,182.15	3,081.74	3,024.20	8.34	10.85	-127.19	170.96	-459.27	628.64	613.04	15.60	40.286	
3,300.00	3,281.04	3,175.81	3,114.51	8.67	11.38	-127.14	181.74	-483.28	662.57	646.36	16.21	40.867	
3,400.00	3,379.94	3,269.88	3,204.82	9.01	11.92	-127.10	192.51	-507.29	696.50	679.68	16.82	41.400	
3,500.00	3,478.83	3,363.94	3,295.13	9.35	12.45	-127.07	203.29	-531.30	730.43	712.99	17.44	41.890	
3,600.00	3,577.73	3,458.01	3,385.44	9.69	12.99	-127.03	214.07	-555.31	764.36	746.31	18.05	42.342	
3,700.00	3,676.62	3,552.08	3,475.75	10.03	13.53	-127.00	224.84	-579.32	798.29	779.62	18.67	42.761	
3,800.00	3,775.52	3,646.14	3,566.07	10.37	14.07	-126.97	235.62	-603.33	832.22	812.93	19.29	43.148	
3,900.00	3,874.41	3,740.21	3,656.38	10.72	14.61	-126.95	246.40	-627.34	866.15	846.24	19.91	43.509	
4,000.00	3,973.31	3,834.28	3,746.69	11.06	15.16	-126.92	257.17	-651.35	900.08	879.55	20.53	43.845	
4,100.00	4,072.20	3,928.35	3,837.00	11.40	15.70	-126.90	267.95	-675.36	934.01	912.86	21.15	44.159	
4,200.00	4,171.10	4,022.41	3,927.31	11.75	16.24	-126.88	278.73	-699.37	967.94	946.16	21.77	44.452	
4,300.00	4,269.99	4,116.48	4,017.62	12.09	16.79	-126.86	289.50	-723.38	1,001.87	979.47	22.40	44.727	
4,400.00	4,368.89	4,210.55	4,107.93	12.44	17.34	-126.84	300.28	-747.39	1,035.80	1,012.77	23.03	44.985	
4,500.00	4,467.78	4,304.61	4,198.24	12.78	17.88	-126.83	311.06	-771.40	1,069.73	1,046.08	23.65	45.228	
4,600.00	4,566.68	4,398.68	4,288.55	13.13	18.43	-126.81	321.83	-795.41	1,103.66	1,079.38	24.28	45.457	
4,700.00	4,665.57	4,492.75	4,378.86	13.48	18.97	-126.80	332.61	-819.42	1,137.59	1,112.69	24.91	45.673	
4,800.00	4,764.47	4,586.82	4,469.17	13.82	19.52	-126.78	343.38	-843.43	1,171.52	1,145.99	25.54	45.877	
4,900.00	4,863.36	4,680.88	4,559.48	14.17	20.07	-126.77	354.16	-867.44	1,205.45	1,179.29	26.17	46.070	
5,000.00	4,962.26	4,774.95	4,649.79	14.52	20.62	-126.76	364.94	-891.45	1,239.39	1,212.59	26.80	46.254	
5,100.00	5,061.15	4,869.02	4,740.10	14.87	21.17	-126.74	375.71	-915.46	1,273.32	1,245.89	27.43	46.427	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - Camp 36N-26HZ - Camp 36N-26HZ - Camp 36N-26HZ (wp02) - H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	4,963.08	4,830.42	15.21	21.72	-126.73	386.49	-939.47	1,307.25	1,279.19	28.06	46.592		
5,300.00	5,258.94	5,057.15	4,920.73	15.56	22.26	-126.72	397.27	-963.48	1,341.18	1,312.49	28.69	46.750		
5,400.00	5,357.84	5,151.22	5,011.04	15.91	22.81	-126.71	408.04	-987.49	1,375.11	1,345.79	29.32	46.899		
5,500.00	5,456.73	5,245.29	5,101.35	16.26	23.36	-126.70	418.82	-1,011.50	1,409.04	1,379.09	29.95	47.042		
5,600.00	5,555.63	5,339.35	5,191.66	16.61	23.91	-126.69	429.60	-1,035.51	1,442.97	1,412.39	30.59	47.178		
5,700.00	5,654.52	5,433.42	5,281.97	16.96	24.46	-126.69	440.37	-1,059.52	1,476.90	1,445.68	31.22	47.308		
5,800.00	5,753.42	5,527.49	5,372.28	17.31	25.01	-126.68	451.15	-1,083.53	1,510.83	1,478.98	31.85	47.432		
5,900.00	5,852.31	5,621.55	5,462.59	17.66	25.56	-126.67	461.93	-1,107.54	1,544.77	1,512.28	32.49	47.551		
6,000.00	5,951.21	5,715.62	5,552.90	18.01	26.11	-126.66	472.70	-1,131.55	1,578.70	1,545.58	33.12	47.665		
6,100.00	6,050.10	5,809.69	5,643.21	18.36	26.66	-126.65	483.48	-1,155.56	1,612.63	1,578.87	33.75	47.775		
6,200.00	6,149.00	5,903.76	5,733.52	18.71	27.22	-126.65	494.26	-1,179.57	1,646.56	1,612.17	34.39	47.880		
6,300.00	6,247.89	5,997.82	5,823.83	19.06	27.77	-126.64	505.03	-1,203.58	1,680.49	1,645.47	35.02	47.980		
6,400.00	6,346.79	6,091.89	5,914.14	19.41	28.32	-126.63	515.81	-1,227.59	1,714.42	1,678.76	35.66	48.077		
6,500.00	6,445.68	6,185.96	6,004.45	19.76	28.87	-126.63	526.59	-1,251.60	1,748.35	1,712.06	36.30	48.170		
6,600.00	6,544.58	6,280.02	6,094.77	20.11	29.42	-126.62	537.36	-1,275.61	1,782.29	1,745.35	36.93	48.260		
6,700.00	6,643.53	6,374.08	6,185.07	20.44	29.97	-140.58	548.14	-1,299.61	1,816.22	1,778.55	37.67	48.214		
6,800.00	6,743.00	6,467.18	6,274.45	20.62	30.52	128.12	558.80	-1,323.38	1,849.90	1,811.27	38.63	47.885		
6,900.00	6,840.75	6,556.67	6,360.37	20.64	31.04	101.85	569.06	-1,346.22	1,882.78	1,843.36	39.42	47.765		
7,000.00	6,933.82	6,639.85	6,440.22	20.54	31.53	93.16	578.59	-1,367.45	1,914.59	1,874.65	39.94	47.933		
7,100.00	7,019.36	6,714.17	6,511.57	20.31	31.97	88.46	587.10	-1,386.42	1,945.42	1,905.24	40.18	48.412		
7,200.00	7,094.79	6,777.38	6,572.26	20.01	32.34	85.22	594.34	-1,402.55	1,975.51	1,935.35	40.16	49.191		
7,300.00	7,157.81	6,827.56	6,620.44	19.66	32.63	82.54	600.09	-1,415.36	2,005.12	1,965.22	39.90	50.255		
7,400.00	7,206.51	6,904.50	6,694.64	19.29	32.99	81.09	604.02	-1,435.10	2,034.08	1,994.59	39.48	51.519		
7,500.00	7,239.40	7,016.49	6,801.98	18.94	33.38	80.94	591.33	-1,463.72	2,061.56	2,022.56	38.99	52.873		
7,600.00	7,255.49	7,272.24	7,024.21	18.63	33.79	84.38	484.54	-1,523.21	2,085.79	2,047.48	38.31	55.448		
7,700.00	7,256.04	7,836.06	7,238.59	18.39	33.36	89.52	-9.57	-1,581.80	2,093.96	2,056.26	37.70	55.537		
7,800.00	7,253.91	7,936.06	7,237.39	18.51	33.33	89.55	-109.56	-1,581.80	2,093.95	2,055.53	38.43	54.494		
7,900.00	7,251.78	8,036.05	7,236.20	19.20	33.38	89.57	-209.54	-1,581.80	2,093.95	2,054.46	39.49	53.024		
8,000.00	7,249.65	8,136.05	7,235.00	20.08	33.52	89.60	-309.53	-1,581.80	2,093.94	2,053.05	40.89	51.214		
8,100.00	7,247.53	8,236.04	7,233.80	21.07	33.77	89.62	-409.52	-1,581.80	2,093.93	2,051.36	42.58	49.178		
8,200.00	7,245.40	8,336.04	7,232.61	22.17	34.12	89.65	-509.51	-1,581.80	2,093.93	2,049.39	44.54	47.018		
8,300.00	7,243.27	8,436.04	7,231.41	23.36	34.58	89.68	-609.50	-1,581.80	2,093.92	2,047.20	46.72	44.817		
8,400.00	7,241.14	8,536.03	7,230.22	24.64	35.16	89.70	-709.49	-1,581.80	2,093.92	2,044.81	49.11	42.639		
8,500.00	7,239.01	8,636.03	7,229.02	25.98	35.84	89.73	-809.48	-1,581.80	2,093.91	2,042.25	51.67	40.527		
8,600.00	7,236.89	8,736.02	7,227.82	27.39	36.64	89.75	-909.46	-1,581.80	2,093.91	2,039.54	54.37	38.510		
8,700.00	7,234.76	8,836.02	7,226.63	28.85	37.53	89.78	-1,009.45	-1,581.80	2,093.91	2,036.70	57.21	36.602		
8,800.00	7,232.63	8,936.01	7,225.43	30.36	38.52	89.80	-1,109.44	-1,581.80	2,093.90	2,033.76	60.15	34.812		
8,900.00	7,230.50	9,036.01	7,224.24	31.91	39.60	89.83	-1,209.43	-1,581.80	2,093.90	2,030.72	63.19	33.139		
9,000.00	7,228.38	9,136.01	7,223.04	33.49	40.76	89.85	-1,309.42	-1,581.80	2,093.90	2,027.60	66.30	31.581		
9,100.00	7,226.25	9,236.00	7,221.84	35.11	41.98	89.88	-1,409.41	-1,581.80	2,093.90	2,024.41	69.49	30.132		
9,200.00	7,224.12	9,336.00	7,220.65	36.75	43.27	89.90	-1,509.40	-1,581.80	2,093.90	2,021.16	72.74	28.787		
9,300.00	7,221.99	9,435.99	7,219.45	38.41	44.60	89.93	-1,609.38	-1,581.80	2,093.89	2,017.86	76.04	27.537		
9,400.00	7,219.86	9,535.99	7,218.25	40.10	45.99	89.96	-1,709.37	-1,581.80	2,093.89	2,014.51	79.39	26.376		
9,500.00	7,217.74	9,635.98	7,217.06	41.80	47.42	89.98	-1,809.36	-1,581.80	2,093.89	2,011.12	82.78	25.296		
9,503.18	7,217.67	9,639.17	7,217.02	41.86	47.47	89.98	-1,812.54	-1,581.80	2,093.89	2,011.01	82.89	25.263		
9,600.00	7,215.61	9,735.98	7,215.86	43.53	48.89	90.01	-1,909.35	-1,581.80	2,093.89	2,007.69	86.20	24.291		
9,700.00	7,213.48	9,835.97	7,214.67	45.26	50.39	90.03	-2,009.34	-1,581.80	2,093.89	2,004.24	89.66	23.354		
9,800.00	7,211.35	9,935.97	7,213.47	47.01	51.93	90.06	-2,109.33	-1,581.80	2,093.90	2,000.75	93.14	22.480		
9,900.00	7,209.22	10,035.97	7,212.27	48.77	53.48	90.08	-2,209.32	-1,581.81	2,093.90	1,997.24	96.65	21.664		
10,000.00	7,207.10	10,135.96	7,211.08	50.54	55.07	90.11	-2,309.30	-1,581.81	2,093.90	1,993.71	100.19	20.900		
10,100.00	7,204.97	10,235.96	7,209.88	52.32	56.67	90.13	-2,409.29	-1,581.81	2,093.90	1,990.16	103.74	20.184		
10,200.00	7,202.84	10,335.95	7,208.69	54.11	58.30	90.16	-2,509.28	-1,581.81	2,093.90	1,986.59	107.31	19.512		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - Camp 36N-26HZ - Camp 36N-26HZ - Camp 36N-26HZ (wp02) - H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	10,435.95	7,207.49	55.91	59.94	90.19	-2,609.27	-1,581.81	2,093.91	1,983.01	110.90	18.881	
10,400.00	7,198.59	10,535.94	7,206.29	57.72	61.60	90.21	-2,709.26	-1,581.81	2,093.91	1,979.41	114.50	18.287	
10,500.00	7,196.46	10,635.94	7,205.10	59.53	63.27	90.24	-2,809.25	-1,581.81	2,093.91	1,975.79	118.12	17.727	
10,600.00	7,194.33	10,735.94	7,203.90	61.34	64.96	90.26	-2,909.23	-1,581.81	2,093.92	1,972.17	121.75	17.198	
10,700.00	7,192.20	10,835.93	7,202.71	63.17	66.66	90.29	-3,009.22	-1,581.81	2,093.92	1,968.53	125.39	16.699	
10,800.00	7,190.07	10,935.93	7,201.51	64.99	68.37	90.31	-3,109.21	-1,581.81	2,093.93	1,964.89	129.04	16.227	
10,900.00	7,187.95	11,035.92	7,200.31	66.83	70.09	90.34	-3,209.20	-1,581.81	2,093.93	1,961.23	132.70	15.779	
11,000.00	7,185.82	11,135.92	7,199.12	68.66	71.83	90.36	-3,309.19	-1,581.81	2,093.94	1,957.57	136.37	15.354	
11,100.00	7,183.69	11,235.91	7,197.92	70.50	73.57	90.39	-3,409.18	-1,581.81	2,093.95	1,953.90	140.05	14.951	
11,200.00	7,181.56	11,335.91	7,196.73	72.35	75.32	90.41	-3,509.17	-1,581.81	2,093.95	1,950.22	143.74	14.568	
11,300.00	7,179.44	11,435.91	7,195.53	74.19	77.07	90.44	-3,609.15	-1,581.81	2,093.96	1,946.53	147.43	14.203	
11,400.00	7,177.31	11,535.90	7,194.33	76.04	78.84	90.47	-3,709.14	-1,581.81	2,093.97	1,942.84	151.12	13.856	
11,500.00	7,175.18	11,635.90	7,193.14	77.90	80.61	90.49	-3,809.13	-1,581.81	2,093.98	1,939.15	154.83	13.524	
11,600.00	7,173.05	11,735.89	7,191.94	79.75	82.39	90.52	-3,909.12	-1,581.81	2,093.99	1,935.45	158.54	13.208	
11,700.00	7,170.92	11,835.89	7,190.74	81.61	84.17	90.54	-4,009.11	-1,581.81	2,093.99	1,931.74	162.25	12.906	
11,800.00	7,168.80	11,935.88	7,189.55	83.47	85.96	90.57	-4,109.10	-1,581.81	2,094.00	1,928.03	165.97	12.617	
11,837.41	7,168.00	11,973.30	7,189.10	84.17	86.63	90.58	-4,146.51	-1,581.81	2,094.01	1,926.64	167.36	12.512	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37-26 offset - CAMP 37-26 - CAMP 37-26													Offset Site Error:	0.00 ft
Survey Program: 908-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	178.63	-3,979.08	95.27	3,980.23					
100.00	100.00	91.42	91.42	0.08	0.12	178.63	-3,979.09	95.23	3,980.23	3,980.02	0.21	N/A		
200.00	200.00	190.78	190.78	0.31	0.25	178.63	-3,979.12	95.09	3,980.25	3,979.69	0.56	7,076.037		
300.00	300.00	290.14	290.14	0.53	0.39	178.63	-3,979.16	94.87	3,980.29	3,979.37	0.92	4,330.354		
400.00	400.00	389.51	389.51	0.76	0.52	178.64	-3,979.22	94.55	3,980.35	3,979.07	1.28	3,119.825		
500.00	500.00	488.87	488.87	0.98	0.65	178.64	-3,979.30	94.14	3,980.42	3,978.78	1.63	2,438.256		
600.00	600.00	588.23	588.23	1.21	0.78	178.65	-3,979.40	93.63	3,980.50	3,978.51	1.99	2,001.112		
700.00	700.00	687.59	687.59	1.43	0.91	178.66	-3,979.52	93.04	3,980.61	3,978.26	2.35	1,696.904		
800.00	800.00	786.95	786.94	1.66	1.04	178.67	-3,979.65	92.34	3,980.73	3,978.02	2.70	1,472.999		
900.00	900.00	886.31	886.30	1.88	1.18	178.68	-3,979.80	91.56	3,980.86	3,977.80	3.06	1,301.310		
1,000.00	1,000.00	938.61	938.59	2.11	1.28	178.69	-3,980.08	90.96	3,981.47	3,978.08	3.39	1,174.288		
1,100.00	1,100.00	993.00	992.95	2.33	1.42	178.71	-3,981.42	89.48	3,983.65	3,979.90	3.75	1,061.254		
1,200.00	1,200.00	1,033.21	1,033.09	2.56	1.52	178.74	-3,982.95	87.77	3,987.09	3,983.01	4.08	977.115		
1,300.00	1,300.00	1,088.00	1,087.73	2.78	1.66	178.78	-3,985.40	84.62	3,991.52	3,987.08	4.44	898.147		
1,400.00	1,399.98	1,129.80	1,129.36	3.00	1.77	142.34	-3,987.80	81.76	3,998.66	3,993.88	4.78	836.425		
1,500.00	1,499.84	1,178.00	1,177.29	3.23	1.89	142.27	-3,991.55	78.22	4,010.21	4,005.08	5.13	781.593		
1,600.00	1,599.45	1,178.00	1,177.29	3.45	1.89	142.08	-3,991.55	78.22	4,026.13	4,020.77	5.36	751.118		
1,700.00	1,698.70	1,233.80	1,232.63	3.69	2.04	141.94	-3,997.20	73.88	4,046.06	4,040.32	5.74	705.437		
1,800.00	1,797.61	1,268.00	1,266.46	3.95	2.12	141.95	-4,001.36	71.13	4,069.66	4,063.60	6.07	670.845		
1,900.00	1,896.51	1,402.65	1,399.65	4.22	2.47	142.29	-4,018.05	60.44	4,093.63	4,086.98	6.65	615.609		
2,000.00	1,995.40	1,526.02	1,521.56	4.51	2.81	142.63	-4,032.40	48.14	4,116.98	4,109.76	7.22	569.977		
2,100.00	2,094.30	1,582.48	1,577.37	4.80	2.97	142.78	-4,038.94	42.68	4,140.42	4,132.78	7.63	542.481		
2,200.00	2,193.19	1,630.00	1,624.24	5.10	3.10	142.91	-4,045.01	37.70	4,165.02	4,157.00	8.02	519.188		
2,300.00	2,292.09	1,784.47	1,776.76	5.41	3.54	143.31	-4,064.30	22.74	4,189.33	4,180.64	8.69	482.038		
2,400.00	2,390.98	1,925.66	1,916.65	5.72	3.93	143.63	-4,080.19	12.05	4,212.47	4,203.14	9.32	451.816		
2,500.00	2,489.88	1,992.00	1,982.26	6.04	4.12	143.80	-4,087.78	5.98	4,235.92	4,226.15	9.77	433.561		
2,600.00	2,588.77	2,079.82	2,068.94	6.36	4.38	144.03	-4,098.16	-3.64	4,259.91	4,249.64	10.28	414.419		
2,700.00	2,687.67	2,160.65	2,148.65	6.68	4.61	144.26	-4,107.72	-12.99	4,284.04	4,273.27	10.77	397.715		
2,800.00	2,786.56	2,362.54	2,347.93	7.01	5.20	144.82	-4,129.00	-37.25	4,306.81	4,295.22	11.59	371.579		
2,900.00	2,885.46	2,478.45	2,462.64	7.34	5.54	145.12	-4,139.75	-49.96	4,328.62	4,316.45	12.18	355.409		
3,000.00	2,984.36	2,623.00	2,605.68	7.67	5.96	145.50	-4,152.28	-66.57	4,350.05	4,337.20	12.85	338.654		
3,100.00	3,083.25	2,701.77	2,683.71	8.00	6.19	145.70	-4,158.67	-75.31	4,370.93	4,357.60	13.34	327.758		
3,200.00	3,182.15	2,776.19	2,757.31	8.34	6.40	145.90	-4,165.03	-84.28	4,392.37	4,378.56	13.81	317.947		
3,300.00	3,281.04	2,879.45	2,859.37	8.67	6.70	146.17	-4,174.13	-97.03	4,414.16	4,399.79	14.37	307.147		
3,400.00	3,379.94	2,936.81	2,916.10	9.01	6.87	146.32	-4,179.25	-103.80	4,436.17	4,421.36	14.81	299.619		
3,500.00	3,478.83	2,985.05	2,963.68	9.35	7.01	146.45	-4,184.05	-110.11	4,459.26	4,444.04	15.22	293.063		
3,600.00	3,577.73	3,087.00	3,064.19	9.69	7.31	146.73	-4,194.64	-123.57	4,482.88	4,467.11	15.77	284.250		
3,700.00	3,676.62	3,166.00	3,142.15	10.03	7.55	146.93	-4,202.74	-133.39	4,506.45	4,490.19	16.26	277.106		
3,800.00	3,775.52	3,219.81	3,195.24	10.37	7.71	147.07	-4,208.62	-139.90	4,530.78	4,514.09	16.69	271.521		
3,900.00	3,874.41	3,280.97	3,255.49	10.72	7.89	147.22	-4,216.16	-147.25	4,556.30	4,539.17	17.13	265.995		
4,000.00	3,973.31	3,402.90	3,375.81	11.06	8.25	147.50	-4,230.87	-160.34	4,581.57	4,563.84	17.73	258.412		
4,100.00	4,072.20	3,505.86	3,477.32	11.40	8.55	147.75	-4,243.11	-172.53	4,606.89	4,588.61	18.28	252.023		
4,200.00	4,171.10	3,637.82	3,607.65	11.75	8.94	148.05	-4,257.84	-187.05	4,631.44	4,612.53	18.91	244.979		
4,300.00	4,269.99	3,771.56	3,739.87	12.09	9.33	148.35	-4,271.99	-201.23	4,655.51	4,635.98	19.53	238.324		
4,400.00	4,368.89	3,843.00	3,810.53	12.44	9.54	148.50	-4,279.39	-208.73	4,679.45	4,659.45	20.00	233.963		
4,500.00	4,467.78	3,933.00	3,899.51	12.78	9.80	148.69	-4,289.12	-218.13	4,703.86	4,683.34	20.51	229.290		
4,600.00	4,566.68	3,978.60	3,944.56	13.13	9.94	148.79	-4,294.37	-222.84	4,728.92	4,708.00	20.91	226.120		
4,700.00	4,665.57	4,107.37	4,071.74	13.48	10.31	149.05	-4,309.97	-235.59	4,754.79	4,733.26	21.52	220.916		
4,800.00	4,764.47	4,153.25	4,117.13	13.82	10.45	149.13	-4,315.39	-239.52	4,780.16	4,758.24	21.92	218.078		
4,900.00	4,863.36	4,204.00	4,167.23	14.17	10.59	149.23	-4,322.07	-244.09	4,806.72	4,784.39	22.33	215.281		
5,000.00	4,962.26	4,269.86	4,232.15	14.52	10.79	149.35	-4,331.20	-250.34	4,834.10	4,811.32	22.77	212.262		
5,100.00	5,061.15	4,381.64	4,342.21	14.87	11.12	149.59	-4,346.34	-262.69	4,861.51	4,838.17	23.34	208.296		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37-26 offset - CAMP 37-26 - CAMP 37-26													Offset Site Error: 0.00 ft	
Survey Program: 908-NS-GYRO-MS													Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	4,654.00	4,611.02	15.21	11.93	150.16	-4,377.23	-293.52	4,886.69	4,862.37	24.32	200.940		
5,300.00	5,258.94	4,722.53	4,678.91	15.56	12.13	150.29	-4,384.02	-299.94	4,910.60	4,885.83	24.77	198.225		
5,400.00	5,357.84	4,771.73	4,727.61	15.91	12.27	150.37	-4,389.42	-304.40	4,935.47	4,910.29	25.18	196.029		
5,500.00	5,456.73	4,834.00	4,789.13	16.26	12.45	150.49	-4,396.93	-310.41	4,961.37	4,935.75	25.61	193.696		
5,600.00	5,555.63	4,902.15	4,856.41	16.61	12.65	150.61	-4,405.56	-317.04	4,987.91	4,961.85	26.07	191.364		
5,700.00	5,654.52	4,985.18	4,938.38	16.96	12.89	150.76	-4,416.10	-324.94	5,014.61	4,988.06	26.55	188.852		
5,800.00	5,753.42	5,048.07	5,000.40	17.31	13.08	150.88	-4,424.26	-331.55	5,041.76	5,014.77	26.99	186.790		
5,900.00	5,852.31	5,105.00	5,056.35	17.66	13.25	151.00	-4,431.93	-338.65	5,069.71	5,042.29	27.41	184.925		
6,000.00	5,951.21	5,343.55	5,291.37	18.01	13.97	151.46	-4,462.10	-366.07	5,096.94	5,068.64	28.30	180.116		
6,100.00	6,050.10	5,560.17	5,505.90	18.36	14.59	151.83	-4,484.36	-386.09	5,121.42	5,092.30	29.12	175.864		
6,200.00	6,149.00	5,933.89	5,878.03	18.71	15.61	152.32	-4,510.32	-407.34	5,142.15	5,111.82	30.33	169.565		
6,300.00	6,247.89	6,114.64	6,058.57	19.06	16.07	152.50	-4,517.47	-412.24	5,159.64	5,128.60	31.04	166.207		
6,400.00	6,346.79	6,249.79	6,193.63	19.41	16.41	152.62	-4,521.43	-414.76	5,176.01	5,144.36	31.65	163.550		
6,500.00	6,445.68	6,386.13	6,329.93	19.76	16.75	152.74	-4,524.56	-416.26	5,191.64	5,159.39	32.25	160.996		
6,600.00	6,544.58	6,517.61	6,461.40	20.11	17.05	152.84	-4,526.68	-416.89	5,206.48	5,173.66	32.82	158.634		
6,700.00	6,643.53	6,637.27	6,581.04	20.44	17.31	139.80	-4,528.19	-417.03	5,220.42	5,187.11	33.31	156.713		
6,800.00	6,743.00	6,737.79	6,681.56	20.62	17.54	51.73	-4,529.23	-417.20	5,221.78	5,188.09	33.68	155.022		
6,900.00	6,840.75	6,841.75	6,785.51	20.64	17.78	28.43	-4,530.16	-417.47	5,205.93	5,172.86	33.07	157.441		
7,000.00	6,933.82	6,933.60	6,877.36	20.54	17.99	22.60	-4,531.05	-417.57	5,173.54	5,142.08	31.46	164.453		
7,100.00	7,019.36	7,032.65	6,976.40	20.31	18.21	21.01	-4,531.82	-417.58	5,125.37	5,096.33	29.04	176.464		
7,200.00	7,094.79	7,106.69	7,050.45	20.01	18.38	21.53	-4,532.31	-417.73	5,063.06	5,037.00	26.06	194.307		
7,300.00	7,157.81	7,164.49	7,108.24	19.66	18.52	23.99	-4,532.74	-417.89	4,988.64	4,965.51	23.13	215.720		
7,400.00	7,206.51	7,220.78	7,164.53	19.29	18.64	29.52	-4,533.17	-418.02	4,904.32	4,882.59	21.72	225.776		
7,500.00	7,239.40	7,262.50	7,206.25	18.94	18.74	41.45	-4,533.42	-418.03	4,812.59	4,787.93	24.65	195.207		
7,600.00	7,255.49	7,279.86	7,223.61	18.63	18.77	69.13	-4,533.52	-418.02	4,716.32	4,682.93	33.39	141.264		
7,700.00	7,256.04	7,280.87	7,224.62	18.39	18.77	94.48	-4,533.52	-418.02	4,618.43	4,582.17	36.26	127.365		
7,800.00	7,253.91	7,279.38	7,223.13	18.51	18.77	94.39	-4,533.51	-418.02	4,520.53	4,483.77	36.76	122.964		
7,900.00	7,251.78	7,277.89	7,221.64	19.20	18.77	94.30	-4,533.51	-418.02	4,422.73	4,385.28	37.45	118.102		
8,000.00	7,249.65	7,276.39	7,220.14	20.08	18.77	94.20	-4,533.50	-418.02	4,325.03	4,286.73	38.30	112.923		
8,100.00	7,247.53	7,274.88	7,218.63	21.07	18.76	94.11	-4,533.49	-418.02	4,227.44	4,188.14	39.30	107.566		
8,200.00	7,245.40	7,273.38	7,217.13	22.17	18.76	94.02	-4,533.48	-418.02	4,129.96	4,089.53	40.43	102.151		
8,300.00	7,243.27	7,270.00	7,213.75	23.36	18.75	93.81	-4,533.46	-418.03	4,032.61	3,990.95	41.66	96.807		
8,400.00	7,241.14	7,270.00	7,213.75	24.64	18.75	93.81	-4,533.46	-418.03	3,935.38	3,892.38	43.00	91.512		
8,500.00	7,239.01	7,268.51	7,212.26	25.98	18.75	93.72	-4,533.46	-418.03	3,838.30	3,793.88	44.42	86.408		
8,600.00	7,236.89	7,266.60	7,210.35	27.39	18.75	93.60	-4,533.45	-418.03	3,741.37	3,695.47	45.90	81.506		
8,700.00	7,234.76	7,264.71	7,208.46	28.85	18.74	93.49	-4,533.44	-418.03	3,644.61	3,597.17	47.44	76.819		
8,800.00	7,232.63	7,262.83	7,206.58	30.36	18.74	93.37	-4,533.43	-418.03	3,548.03	3,498.99	49.04	72.356		
8,900.00	7,230.50	7,260.96	7,204.71	31.91	18.73	93.26	-4,533.42	-418.03	3,451.64	3,400.97	50.67	68.120		
9,000.00	7,228.38	7,259.11	7,202.86	33.49	18.73	93.14	-4,533.41	-418.03	3,355.46	3,303.11	52.34	64.107		
9,100.00	7,226.25	7,257.27	7,201.02	35.11	18.72	93.03	-4,533.40	-418.03	3,259.50	3,205.46	54.04	60.312		
9,200.00	7,224.12	7,255.45	7,199.20	36.75	18.72	92.92	-4,533.39	-418.03	3,163.80	3,108.03	55.77	56.725		
9,300.00	7,221.99	7,253.64	7,197.39	38.41	18.72	92.81	-4,533.38	-418.03	3,068.37	3,010.84	57.53	53.336		
9,400.00	7,219.86	7,251.85	7,195.60	40.10	18.71	92.70	-4,533.37	-418.03	2,973.25	2,913.94	59.30	50.135		
9,500.00	7,217.74	7,250.07	7,193.82	41.80	18.71	92.59	-4,533.35	-418.03	2,878.45	2,817.35	61.10	47.112		
9,600.00	7,215.61	7,248.30	7,192.05	43.53	18.70	92.48	-4,533.34	-418.03	2,784.01	2,721.10	62.91	44.255		
9,700.00	7,213.48	7,246.55	7,190.30	45.26	18.70	92.37	-4,533.33	-418.03	2,689.97	2,625.24	64.73	41.555		
9,800.00	7,211.35	7,244.81	7,188.56	47.01	18.70	92.27	-4,533.32	-418.03	2,596.38	2,529.81	66.57	39.002		
9,900.00	7,209.22	7,243.08	7,186.83	48.77	18.69	92.16	-4,533.31	-418.03	2,503.29	2,434.87	68.42	36.588		
10,000.00	7,207.10	7,241.37	7,185.12	50.54	18.69	92.05	-4,533.30	-418.03	2,410.74	2,340.47	70.28	34.304		
10,100.00	7,204.97	7,239.67	7,183.42	52.32	18.69	91.95	-4,533.29	-418.03	2,318.82	2,246.67	72.14	32.142		
10,200.00	7,202.84	7,237.98	7,181.73	54.11	18.68	91.85	-4,533.28	-418.03	2,227.59	2,153.57	74.02	30.095		
10,300.00	7,200.71	7,236.31	7,180.06	55.91	18.68	91.74	-4,533.27	-418.03	2,137.14	2,061.23	75.90	28.156		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37-26 offset - CAMP 37-26 - CAMP 37-26												Offset Site Error:	0.00 ft
Survey Program: 908-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,400.00	7,198.59	7,234.64	7,178.39	57.72	18.67	91.64	-4,533.26	-418.03	2,047.58	1,969.78	77.79	26.321	
10,500.00	7,196.46	7,232.99	7,176.74	59.53	18.67	91.54	-4,533.25	-418.03	1,959.03	1,879.34	79.69	24.584	
10,600.00	7,194.33	7,231.36	7,175.11	61.34	18.67	91.44	-4,533.24	-418.03	1,871.63	1,790.04	81.59	22.940	
10,700.00	7,192.20	7,229.73	7,173.48	63.17	18.66	91.34	-4,533.23	-418.03	1,785.55	1,702.05	83.50	21.385	
10,800.00	7,190.07	7,228.12	7,171.87	64.99	18.66	91.24	-4,533.22	-418.02	1,700.99	1,615.59	85.41	19.917	
10,900.00	7,187.95	7,226.51	7,170.26	66.83	18.66	91.14	-4,533.21	-418.02	1,618.20	1,530.88	87.32	18.532	
11,000.00	7,185.82	7,224.92	7,168.67	68.66	18.65	91.04	-4,533.20	-418.02	1,537.45	1,448.21	89.24	17.228	
11,100.00	7,183.69	7,223.34	7,167.09	70.50	18.65	90.94	-4,533.19	-418.02	1,459.09	1,367.93	91.16	16.005	
11,200.00	7,181.56	7,221.78	7,165.53	72.35	18.65	90.85	-4,533.18	-418.02	1,383.52	1,290.43	93.09	14.863	
11,300.00	7,179.44	7,220.22	7,163.97	74.19	18.64	90.75	-4,533.17	-418.02	1,311.22	1,216.20	95.02	13.800	
11,400.00	7,177.31	7,218.67	7,162.42	76.04	18.64	90.66	-4,533.15	-418.01	1,242.76	1,145.82	96.95	12.819	
11,500.00	7,175.18	7,217.14	7,160.89	77.90	18.64	90.56	-4,533.14	-418.01	1,178.82	1,079.94	98.88	11.922	
11,600.00	7,173.05	7,215.62	7,159.37	79.75	18.63	90.47	-4,533.13	-418.01	1,120.17	1,019.35	100.82	11.111	
11,700.00	7,170.92	7,214.11	7,157.86	81.61	18.63	90.37	-4,533.12	-418.01	1,067.68	964.92	102.76	10.390	
11,800.00	7,168.80	7,212.60	7,156.35	83.47	18.63	90.28	-4,533.11	-418.00	1,022.30	917.60	104.70	9.764	
11,837.41	7,168.00	7,212.04	7,155.79	84.17	18.62	90.25	-4,533.11	-418.00	1,007.35	901.92	105.42	9.555 CC, ES, SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37N-26HZ - CAMP 37N-26HZ - CAMP 37N-26HZ (wp03) H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-118.61	-10.21	-18.71	21.32					
100.00	100.00	100.00	100.00	0.08	0.08	-118.61	-10.21	-18.71	21.32	21.15	0.17	126.460		
200.00	200.00	200.00	200.00	0.31	0.31	-118.61	-10.21	-18.71	21.32	20.70	0.62	34.489		
300.00	300.00	300.00	300.00	0.53	0.53	-118.61	-10.21	-18.71	21.32	20.25	1.07	19.967		
400.00	400.00	400.00	400.00	0.76	0.76	-118.61	-10.21	-18.71	21.32	19.80	1.52	14.051		
500.00	500.00	500.00	500.00	0.98	0.98	-118.61	-10.21	-18.71	21.32	19.35	1.97	10.839		
600.00	600.00	600.00	600.00	1.21	1.21	-118.61	-10.21	-18.71	21.32	18.90	2.42	8.823		
700.00	700.00	700.00	700.00	1.43	1.43	-118.61	-10.21	-18.71	21.32	18.45	2.87	7.439		
800.00	800.00	800.00	800.00	1.66	1.66	-118.61	-10.21	-18.71	21.32	18.00	3.32	6.430		
900.00	900.00	900.00	900.00	1.88	1.88	-118.61	-10.21	-18.71	21.32	17.55	3.76	5.662		
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-118.61	-10.21	-18.71	21.32	17.10	4.21	5.058		
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	-118.61	-10.21	-18.71	21.32	16.65	4.66	4.571		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-118.61	-10.21	-18.71	21.32	16.20	5.11	4.169		
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	-118.61	-10.21	-18.71	21.32	15.75	5.56	3.832 CC, ES		
1,400.00	1,399.98	1,399.98	1,399.98	3.00	3.01	-156.85	-10.21	-18.71	22.91	16.91	6.01	3.815 SF		
1,500.00	1,499.84	1,499.84	1,499.84	3.23	3.23	-161.06	-10.21	-18.71	27.80	21.36	6.44	4.317		
1,600.00	1,599.45	1,599.96	1,599.94	3.45	3.46	-162.97	-8.51	-19.13	35.44	28.58	6.87	5.162		
1,700.00	1,698.70	1,700.01	1,699.85	3.69	3.68	-161.33	-3.42	-20.36	45.08	37.79	7.29	6.185		
1,800.00	1,797.61	1,799.97	1,799.42	3.95	3.91	-157.80	5.04	-22.41	55.96	48.22	7.74	7.232		
1,900.00	1,896.51	1,899.68	1,898.41	4.22	4.14	-152.75	16.66	-25.22	66.27	58.06	8.22	8.067		
2,000.00	1,995.40	1,998.98	1,996.90	4.51	4.39	-148.52	28.98	-28.20	76.84	68.12	8.71	8.819		
2,100.00	2,094.30	2,098.28	2,095.39	4.80	4.65	-145.32	41.29	-31.18	87.71	78.49	9.23	9.506		
2,200.00	2,193.19	2,197.59	2,193.88	5.10	4.91	-142.84	53.60	-34.16	98.80	89.04	9.76	10.127		
2,300.00	2,292.09	2,296.89	2,292.37	5.41	5.18	-140.86	65.92	-37.14	110.03	99.74	10.30	10.685		
2,400.00	2,390.98	2,396.19	2,390.86	5.72	5.46	-139.24	78.23	-40.13	121.37	110.52	10.85	11.186		
2,500.00	2,489.88	2,495.49	2,489.35	6.04	5.74	-137.91	90.55	-43.11	132.79	121.38	11.41	11.637		
2,600.00	2,588.77	2,594.79	2,587.84	6.36	6.02	-136.78	102.86	-46.09	144.27	132.29	11.98	12.043		
2,700.00	2,687.67	2,694.10	2,686.33	6.68	6.31	-135.82	115.18	-49.07	155.80	143.24	12.56	12.409		
2,800.00	2,786.56	2,793.40	2,784.82	7.01	6.60	-134.99	127.49	-52.05	167.36	154.22	13.14	12.740		
2,900.00	2,885.46	2,892.70	2,883.31	7.34	6.90	-134.27	139.81	-55.03	178.95	165.23	13.72	13.041		
3,000.00	2,984.36	2,992.00	2,981.81	7.67	7.19	-133.64	152.12	-58.01	190.57	176.26	14.31	13.314		
3,100.00	3,083.25	3,091.31	3,080.30	8.00	7.49	-133.08	164.44	-60.99	202.21	187.30	14.91	13.564		
3,200.00	3,182.15	3,190.61	3,178.79	8.34	7.79	-132.58	176.75	-63.98	213.86	198.36	15.50	13.793		
3,300.00	3,281.04	3,289.91	3,277.28	8.67	8.09	-132.14	189.07	-66.96	225.53	209.43	16.11	14.003		
3,400.00	3,379.94	3,389.21	3,375.77	9.01	8.40	-131.73	201.38	-69.94	237.21	220.50	16.71	14.197		
3,500.00	3,478.83	3,488.51	3,474.26	9.35	8.70	-131.37	213.70	-72.92	248.91	231.59	17.31	14.376		
3,600.00	3,577.73	3,587.82	3,572.75	9.69	9.01	-131.04	226.01	-75.90	260.61	242.68	17.92	14.541		
3,700.00	3,676.62	3,687.12	3,671.24	10.03	9.31	-130.73	238.33	-78.88	272.31	253.78	18.53	14.694		
3,800.00	3,775.52	3,786.42	3,769.73	10.37	9.62	-130.45	250.64	-81.86	284.03	264.89	19.14	14.837		
3,900.00	3,874.41	3,885.72	3,868.22	10.72	9.93	-130.20	262.95	-84.84	295.75	276.00	19.76	14.970		
4,000.00	3,973.31	3,985.03	3,966.71	11.06	10.24	-129.96	275.27	-87.83	307.48	287.11	20.37	15.094		
4,100.00	4,072.20	4,084.33	4,065.20	11.40	10.55	-129.74	287.58	-90.81	319.21	298.22	20.99	15.210		
4,200.00	4,171.10	4,183.63	4,163.69	11.75	10.86	-129.54	299.90	-93.79	330.95	309.34	21.60	15.319		
4,300.00	4,269.99	4,282.93	4,262.18	12.09	11.17	-129.35	312.21	-96.77	342.69	320.47	22.22	15.422		
4,400.00	4,368.89	4,382.24	4,360.67	12.44	11.48	-129.17	324.53	-99.75	354.43	331.59	22.84	15.518		
4,500.00	4,467.78	4,481.54	4,459.16	12.78	11.80	-129.00	336.84	-102.73	366.18	342.72	23.46	15.609		
4,600.00	4,566.68	4,580.84	4,557.66	13.13	12.11	-128.85	349.16	-105.71	377.93	353.85	24.08	15.694		
4,700.00	4,665.57	4,680.14	4,656.15	13.48	12.42	-128.70	361.47	-108.69	389.68	364.98	24.70	15.775		
4,800.00	4,764.47	4,779.44	4,754.64	13.82	12.74	-128.56	373.79	-111.68	401.43	376.11	25.32	15.851		
4,900.00	4,863.36	4,878.75	4,853.13	14.17	13.05	-128.43	386.10	-114.66	413.19	387.24	25.95	15.924		
5,000.00	4,962.26	4,978.05	4,951.62	14.52	13.37	-128.31	398.42	-117.64	424.95	398.38	26.57	15.993		
5,100.00	5,061.15	5,077.35	5,050.11	14.87	13.68	-128.19	410.73	-120.62	436.71	409.51	27.20	16.058		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37N-26HZ - CAMP 37N-26HZ - CAMP 37N-26HZ (wp03) H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	5,176.65	5,148.60	15.21	13.99	-128.08	423.05	-123.60	448.47	420.65	27.82	16.120		
5,300.00	5,258.94	5,275.96	5,247.09	15.56	14.31	-127.98	435.36	-126.58	460.24	431.79	28.45	16.180		
5,400.00	5,357.84	5,375.26	5,345.58	15.91	14.63	-127.88	447.68	-129.56	472.00	442.93	29.07	16.236		
5,500.00	5,456.73	5,474.56	5,444.07	16.26	14.94	-127.78	459.99	-132.54	483.77	454.07	29.70	16.290		
5,600.00	5,555.63	5,573.86	5,542.56	16.61	15.26	-127.69	472.30	-135.53	495.53	465.21	30.32	16.342		
5,700.00	5,654.52	5,673.16	5,641.05	16.96	15.57	-127.61	484.62	-138.51	507.30	476.35	30.95	16.391		
5,800.00	5,753.42	5,772.47	5,739.54	17.31	15.89	-127.53	496.93	-141.49	519.07	487.50	31.58	16.438		
5,900.00	5,852.31	5,871.77	5,838.03	17.66	16.21	-127.45	509.25	-144.47	530.84	498.64	32.21	16.483		
6,000.00	5,951.21	5,971.07	5,936.52	18.01	16.52	-127.37	521.56	-147.45	542.62	509.78	32.83	16.526		
6,100.00	6,050.10	6,070.37	6,035.01	18.36	16.84	-127.30	533.88	-150.43	554.39	520.93	33.46	16.568		
6,200.00	6,149.00	6,169.68	6,133.50	18.71	17.16	-127.23	546.19	-153.41	566.16	532.07	34.09	16.608		
6,300.00	6,247.89	6,268.98	6,232.00	19.06	17.48	-127.17	558.51	-156.39	577.94	543.22	34.72	16.646		
6,400.00	6,346.79	6,368.28	6,330.49	19.41	17.79	-127.10	570.82	-159.38	589.71	554.36	35.35	16.683		
6,500.00	6,445.68	6,467.58	6,428.98	19.76	18.11	-127.04	583.14	-162.36	601.49	565.51	35.98	16.719		
6,600.00	6,544.58	6,566.89	6,527.47	20.11	18.43	-126.99	595.45	-165.34	613.26	576.66	36.61	16.753		
6,700.00	6,643.53	6,665.46	6,625.35	20.44	18.71	-140.35	606.60	-168.30	625.06	587.88	37.17	16.814		
6,800.00	6,743.00	6,762.63	6,722.34	20.62	18.83	130.23	604.47	-171.24	636.96	599.58	37.37	17.042		
6,900.00	6,840.75	6,859.71	6,817.48	20.64	18.81	105.32	586.02	-174.13	648.67	611.38	37.29	17.393		
7,000.00	6,933.82	6,956.84	6,908.20	20.54	18.66	97.61	551.76	-176.89	659.85	622.88	36.97	17.848		
7,100.00	7,019.36	7,054.14	6,991.99	20.31	18.41	93.73	502.58	-179.44	670.15	633.69	36.46	18.380		
7,200.00	7,094.79	7,151.73	7,066.46	20.01	18.10	91.35	439.74	-181.71	679.26	643.41	35.85	18.945		
7,300.00	7,157.81	7,250.00	7,129.60	19.66	17.77	89.80	364.62	-183.65	686.92	651.66	35.26	19.484		
7,400.00	7,206.51	7,348.05	7,178.91	19.29	17.49	88.80	280.02	-185.16	692.88	658.10	34.78	19.919		
7,500.00	7,239.40	7,446.86	7,213.30	18.94	17.30	88.24	187.52	-186.23	696.98	662.43	34.55	20.175		
7,600.00	7,255.49	7,546.11	7,231.35	18.63	17.26	88.06	90.06	-186.80	699.08	664.46	34.62	20.190		
7,700.00	7,256.04	7,645.83	7,233.63	18.39	17.43	88.16	-9.57	-186.90	699.35	664.27	35.07	19.940		
7,800.00	7,253.91	7,745.82	7,232.67	18.51	17.83	88.26	-109.56	-186.90	699.31	663.41	35.90	19.481		
7,900.00	7,251.78	7,845.81	7,231.71	19.20	18.43	88.36	-209.55	-186.90	699.27	662.18	37.09	18.851		
8,000.00	7,249.65	7,945.81	7,230.75	20.08	19.20	88.45	-309.53	-186.90	699.24	660.61	38.63	18.100		
8,100.00	7,247.53	8,045.80	7,229.80	21.07	20.14	88.55	-409.52	-186.90	699.21	658.74	40.48	17.275		
8,200.00	7,245.40	8,145.79	7,228.84	22.17	21.20	88.64	-509.51	-186.90	699.18	656.60	42.58	16.419		
8,300.00	7,243.27	8,245.79	7,227.88	23.36	22.37	88.74	-609.50	-186.90	699.16	654.24	44.92	15.565		
8,400.00	7,241.14	8,345.78	7,226.93	24.64	23.64	88.83	-709.49	-186.90	699.13	651.69	47.45	14.735		
8,500.00	7,239.01	8,445.77	7,225.97	25.98	24.99	88.93	-809.48	-186.90	699.11	648.97	50.14	13.944		
8,600.00	7,236.89	8,545.76	7,225.01	27.39	26.41	89.03	-909.47	-186.90	699.09	646.12	52.97	13.198		
8,700.00	7,234.76	8,645.76	7,224.05	28.85	27.88	89.12	-1,009.45	-186.90	699.07	643.15	55.92	12.501		
8,800.00	7,232.63	8,745.75	7,223.10	30.36	29.41	89.22	-1,109.44	-186.90	699.05	640.08	58.97	11.854		
8,900.00	7,230.50	8,845.74	7,222.14	31.91	30.98	89.31	-1,209.43	-186.90	699.04	636.93	62.11	11.255		
9,000.00	7,228.38	8,945.74	7,221.18	33.49	32.58	89.41	-1,309.42	-186.90	699.02	633.70	65.32	10.702		
9,100.00	7,226.25	9,045.73	7,220.23	35.11	34.22	89.51	-1,409.41	-186.90	699.01	630.42	68.59	10.191		
9,200.00	7,224.12	9,145.72	7,219.27	36.75	35.88	89.60	-1,509.40	-186.90	699.00	627.08	71.92	9.719		
9,300.00	7,221.99	9,245.72	7,218.31	38.41	37.57	89.70	-1,609.39	-186.90	699.00	623.70	75.30	9.283		
9,400.00	7,219.86	9,345.71	7,217.35	40.10	39.28	89.79	-1,709.37	-186.90	698.99	620.28	78.71	8.880		
9,500.00	7,217.74	9,445.70	7,216.40	41.80	41.00	89.89	-1,809.36	-186.90	698.99	616.83	82.16	8.507		
9,600.00	7,215.61	9,545.70	7,215.44	43.53	42.74	89.99	-1,909.35	-186.90	698.99	613.34	85.65	8.161		
9,614.42	7,215.30	9,560.11	7,215.30	43.78	42.99	90.00	-1,923.77	-186.90	698.99	612.84	86.15	8.113		
9,700.00	7,213.48	9,645.69	7,214.48	45.26	44.50	90.08	-2,009.34	-186.90	698.99	609.83	89.16	7.840		
9,800.00	7,211.35	9,745.68	7,213.53	47.01	46.26	90.18	-2,109.33	-186.90	698.99	606.30	92.69	7.541		
9,900.00	7,209.22	9,845.68	7,212.57	48.77	48.04	90.27	-2,209.32	-186.90	698.99	602.75	96.25	7.262		
10,000.00	7,207.10	9,945.67	7,211.61	50.54	49.83	90.37	-2,309.31	-186.90	699.00	599.17	99.83	7.002		
10,100.00	7,204.97	10,045.66	7,210.65	52.32	51.63	90.47	-2,409.29	-186.90	699.01	595.59	103.42	6.759		
10,200.00	7,202.84	10,145.66	7,209.70	54.11	53.43	90.56	-2,509.28	-186.90	699.02	591.99	107.03	6.531		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 37N-26HZ - CAMP 37N-26HZ - CAMP 37N-26HZ (wp03) H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.00	7,200.71	10,245.65	7,208.74	55.91	55.24	90.66	-2,609.27	-186.90	699.03	588.38	110.65	6.317	
10,400.00	7,198.59	10,345.64	7,207.78	57.72	57.06	90.75	-2,709.26	-186.90	699.05	584.76	114.29	6.116	
10,500.00	7,196.46	10,445.63	7,206.83	59.53	58.88	90.85	-2,809.25	-186.90	699.06	581.13	117.94	5.927	
10,600.00	7,194.33	10,545.63	7,205.87	61.34	60.71	90.95	-2,909.24	-186.90	699.08	577.49	121.60	5.749	
10,700.00	7,192.20	10,645.62	7,204.91	63.17	62.55	91.04	-3,009.23	-186.90	699.10	573.84	125.26	5.581	
10,800.00	7,190.07	10,745.61	7,203.96	64.99	64.39	91.14	-3,109.21	-186.90	699.12	570.19	128.94	5.422	
10,900.00	7,187.95	10,845.61	7,203.00	66.83	66.23	91.23	-3,209.20	-186.90	699.15	566.53	132.62	5.272	
11,000.00	7,185.82	10,945.60	7,202.04	68.66	68.08	91.33	-3,309.19	-186.90	699.18	562.86	136.31	5.129	
11,100.00	7,183.69	11,045.59	7,201.08	70.50	69.93	91.43	-3,409.18	-186.90	699.20	559.20	140.01	4.994	
11,200.00	7,181.56	11,145.59	7,200.13	72.35	71.78	91.52	-3,509.17	-186.90	699.23	555.52	143.71	4.866	
11,300.00	7,179.44	11,245.58	7,199.17	74.19	73.64	91.62	-3,609.16	-186.90	699.27	551.85	147.42	4.743	
11,400.00	7,177.31	11,345.57	7,198.21	76.04	75.49	91.71	-3,709.15	-186.90	699.30	548.17	151.13	4.627	
11,500.00	7,175.18	11,445.57	7,197.26	77.90	77.36	91.81	-3,809.13	-186.90	699.34	544.49	154.85	4.516	
11,600.00	7,173.05	11,545.56	7,196.30	79.75	79.22	91.90	-3,909.12	-186.90	699.37	540.80	158.57	4.411	
11,700.00	7,170.92	11,645.55	7,195.34	81.61	81.09	92.00	-4,009.11	-186.90	699.41	537.12	162.29	4.310	
11,800.00	7,168.80	11,745.55	7,194.38	83.47	82.95	92.10	-4,109.10	-186.90	699.46	533.43	166.02	4.213	
11,837.41	7,168.00	11,782.96	7,194.03	84.17	83.65	92.13	-4,146.51	-186.90	699.47	532.05	167.42	4.178	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 38C-26HZ - CAMP 38C-26HZ - CAMP 38C-26HZ (wp03) H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	118.57	-10.19	18.71	21.31				
100.00	100.00	100.00	100.00	0.08	0.08	118.57	-10.19	18.71	21.31	21.14	0.17	126.413	
200.00	200.00	200.00	200.00	0.31	0.31	118.57	-10.19	18.71	21.31	20.69	0.62	34.476	
300.00	300.00	300.00	300.00	0.53	0.53	118.57	-10.19	18.71	21.31	20.24	1.07	19.960	
400.00	400.00	400.00	400.00	0.76	0.76	118.57	-10.19	18.71	21.31	19.79	1.52	14.046	
500.00	500.00	500.00	500.00	0.98	0.98	118.57	-10.19	18.71	21.31	19.34	1.97	10.835	
600.00	600.00	600.00	600.00	1.21	1.21	118.57	-10.19	18.71	21.31	18.89	2.42	8.819	
700.00	700.00	700.00	700.00	1.43	1.43	118.57	-10.19	18.71	21.31	18.44	2.87	7.436	
800.00	800.00	800.00	800.00	1.66	1.66	118.57	-10.19	18.71	21.31	17.99	3.32	6.428	
900.00	900.00	900.00	900.00	1.88	1.88	118.57	-10.19	18.71	21.31	17.55	3.76	5.660	
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	118.57	-10.19	18.71	21.31	17.10	4.21	5.057	
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	118.57	-10.19	18.71	21.31	16.65	4.66	4.569 CC, ES	
1,200.00	1,200.00	1,199.77	1,199.75	2.56	2.55	114.15	-8.92	19.90	21.81	16.70	5.11	4.269	
1,300.00	1,300.00	1,299.31	1,299.15	2.78	2.77	102.33	-5.12	23.44	24.01	18.46	5.55	4.327	
1,400.00	1,399.98	1,398.52	1,397.98	3.00	3.00	53.97	1.17	29.31	28.35	22.36	5.99	4.733	
1,500.00	1,499.84	1,497.49	1,496.22	3.23	3.24	45.96	9.94	37.49	33.82	27.40	6.43	5.263	
1,600.00	1,599.45	1,596.23	1,593.75	3.45	3.50	40.74	21.16	47.95	39.98	33.11	6.87	5.822	
1,700.00	1,698.70	1,694.72	1,690.46	3.69	3.80	37.35	34.79	60.66	46.55	39.24	7.31	6.364	
1,800.00	1,797.61	1,792.90	1,786.17	3.95	4.14	34.67	50.79	75.59	54.18	46.39	7.79	6.958	
1,900.00	1,896.51	1,890.46	1,880.47	4.22	4.52	31.42	69.06	92.62	64.86	56.59	8.27	7.844	
2,000.00	1,995.40	1,987.17	1,973.06	4.51	4.95	28.18	89.47	111.65	78.82	70.07	8.75	9.003	
2,100.00	2,094.30	2,085.45	2,066.54	4.80	5.44	25.45	111.67	132.35	94.92	85.67	9.25	10.262	
2,200.00	2,193.19	2,184.06	2,160.32	5.10	5.95	23.50	133.95	153.13	111.20	101.45	9.75	11.402	
2,300.00	2,292.09	2,282.66	2,254.10	5.41	6.49	22.05	156.23	173.91	127.58	117.31	10.26	12.431	
2,400.00	2,390.98	2,381.27	2,347.87	5.72	7.03	20.93	178.52	194.69	144.01	133.24	10.78	13.362	
2,500.00	2,489.88	2,479.87	2,441.65	6.04	7.59	20.04	200.80	215.47	160.49	149.19	11.30	14.206	
2,600.00	2,588.77	2,578.48	2,535.43	6.36	8.15	19.32	223.09	236.25	177.00	165.18	11.82	14.973	
2,700.00	2,687.67	2,677.08	2,629.21	6.68	8.73	18.72	245.37	257.03	193.53	181.18	12.35	15.672	
2,800.00	2,786.56	2,775.69	2,722.99	7.01	9.30	18.21	267.66	277.81	210.08	197.20	12.88	16.312	
2,900.00	2,885.46	2,874.29	2,816.77	7.34	9.89	17.78	289.94	298.60	226.64	213.23	13.41	16.899	
3,000.00	2,984.36	2,972.90	2,910.55	7.67	10.47	17.41	312.23	319.38	243.22	229.27	13.95	17.438	
3,100.00	3,083.25	3,071.51	3,004.33	8.00	11.07	17.08	334.51	340.16	259.80	245.31	14.48	17.936	
3,200.00	3,182.15	3,170.11	3,098.11	8.34	11.66	16.79	356.80	360.94	276.39	261.36	15.02	18.396	
3,300.00	3,281.04	3,268.72	3,191.89	8.67	12.25	16.54	379.08	381.72	292.98	277.42	15.57	18.823	
3,400.00	3,379.94	3,367.32	3,285.67	9.01	12.85	16.31	401.37	402.50	309.58	293.48	16.11	19.220	
3,500.00	3,478.83	3,465.93	3,379.45	9.35	13.45	16.11	423.65	423.28	326.19	309.54	16.65	19.589	
3,600.00	3,577.73	3,564.53	3,473.23	9.69	14.05	15.92	445.94	444.06	342.80	325.60	17.20	19.934	
3,700.00	3,676.62	3,663.14	3,567.01	10.03	14.66	15.76	468.22	464.84	359.41	341.67	17.74	20.256	
3,800.00	3,775.52	3,761.74	3,660.79	10.37	15.26	15.61	490.51	485.62	376.02	357.73	18.29	20.559	
3,900.00	3,874.41	3,866.98	3,760.99	10.72	15.86	15.47	514.00	507.53	392.28	373.43	18.85	20.815	
4,000.00	3,973.31	3,961.94	3,871.57	11.06	16.39	15.41	536.99	528.97	405.27	385.88	19.40	20.895	
4,100.00	4,072.20	4,061.93	3,984.32	11.40	16.85	15.46	556.88	547.52	414.30	394.37	19.93	20.784	
4,200.00	4,171.10	4,161.56	4,088.71	11.75	17.26	15.61	573.50	563.01	419.34	398.87	20.46	20.493	
4,300.00	4,269.99	4,261.46	4,214.19	12.09	17.60	15.86	586.72	575.35	420.35	399.37	20.98	20.034	
4,400.00	4,368.89	4,361.24	4,330.20	12.44	17.89	16.21	596.49	584.45	417.35	395.86	21.49	19.419	
4,500.00	4,467.78	4,464.51	4,446.14	12.78	18.12	16.69	602.76	590.30	410.36	388.37	21.99	18.659	
4,600.00	4,566.68	4,564.89	4,561.45	13.13	18.29	17.30	605.58	592.93	399.43	376.95	22.49	17.764	
4,700.00	4,665.57	4,664.01	4,665.57	13.48	18.41	17.99	605.77	593.10	385.51	362.54	22.96	16.787	
4,800.00	4,764.47	4,764.47	4,764.47	13.82	18.52	18.69	605.77	593.10	371.42	347.97	23.45	15.836	
4,900.00	4,863.36	4,863.36	4,863.36	14.17	18.64	19.45	605.77	593.10	357.39	333.44	23.96	14.919	
5,000.00	4,962.26	4,962.26	4,962.26	14.52	18.76	20.27	605.77	593.10	343.43	318.96	24.47	14.036	
5,100.00	5,061.15	5,061.15	5,061.15	14.87	18.88	21.17	605.77	593.10	329.55	304.55	24.99	13.185	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 38C-26HZ - CAMP 38C-26HZ - CAMP 38C-26HZ (wp03) H&P 307													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	5,278.49	5,160.05	15.21	19.01	22.14	605.77	593.10	315.75	290.21	25.53	12.366		
5,300.00	5,258.94	5,377.38	5,258.94	15.56	19.13	23.19	605.77	593.10	302.05	275.95	26.09	11.577		
5,400.00	5,357.84	5,476.28	5,357.84	15.91	19.26	24.35	605.77	593.10	288.45	261.79	26.67	10.817		
5,500.00	5,456.73	5,575.17	5,456.73	16.26	19.39	25.62	605.77	593.10	274.99	247.72	27.27	10.085		
5,600.00	5,555.63	5,674.07	5,555.63	16.61	19.52	27.02	605.77	593.10	261.67	233.78	27.89	9.381		
5,700.00	5,654.52	5,772.96	5,654.52	16.96	19.65	28.57	605.77	593.10	248.53	219.98	28.55	8.705		
5,800.00	5,753.42	5,871.86	5,753.42	17.31	19.79	30.29	605.77	593.10	235.58	206.33	29.24	8.055		
5,900.00	5,852.31	5,970.75	5,852.31	17.66	19.93	32.21	605.77	593.10	222.87	192.88	29.98	7.433		
6,000.00	5,951.21	6,069.65	5,951.21	18.01	20.06	34.35	605.77	593.10	210.43	179.66	30.77	6.838		
6,100.00	6,050.10	6,168.54	6,050.10	18.36	20.20	36.76	605.77	593.10	198.32	166.70	31.62	6.272		
6,200.00	6,149.00	6,267.44	6,149.00	18.71	20.34	39.47	605.77	593.10	186.61	154.07	32.54	5.735		
6,300.00	6,247.89	6,366.33	6,247.89	19.06	20.48	42.54	605.77	593.10	175.36	141.83	33.53	5.229		
6,400.00	6,346.79	6,465.23	6,346.79	19.41	20.63	46.01	605.77	593.10	164.69	130.07	34.61	4.758		
6,500.00	6,445.68	6,564.12	6,445.68	19.76	20.77	49.94	605.77	593.10	154.70	118.92	35.78	4.324		
6,600.00	6,544.58	6,663.02	6,544.58	20.11	20.92	54.38	605.77	593.10	145.53	108.50	37.03	3.930		
6,700.00	6,643.53	6,761.97	6,643.53	20.44	21.07	58.86	605.77	593.10	137.30	99.04	38.26	3.589		
6,800.00	6,743.00	6,861.44	6,743.00	20.62	21.22	-43.35	605.77	593.10	128.36	89.99	38.37	3.345		
6,900.00	6,840.75	6,959.20	6,840.75	20.64	21.36	-76.33	605.77	593.10	119.31	82.32	36.99	3.225		
6,962.13	6,899.31	7,018.41	6,899.97	20.58	21.45	-90.83	605.60	593.10	116.99	81.64	35.35	3.310		
7,000.00	6,933.82	7,055.93	6,937.42	20.54	21.48	-99.16	603.46	593.10	117.83	83.67	34.16	3.449		
7,100.00	7,019.36	7,159.82	7,039.49	20.31	21.46	-118.18	584.85	593.10	127.54	96.91	30.62	4.165		
7,200.00	7,094.79	7,271.78	7,143.75	20.01	21.28	-132.80	544.57	593.10	145.28	118.68	26.60	5.462		
7,300.00	7,157.81	7,393.12	7,245.57	19.66	20.94	-143.37	478.97	593.10	166.57	144.39	22.18	7.510		
7,400.00	7,206.51	7,524.73	7,337.71	19.29	20.45	-150.63	385.41	593.10	187.34	169.55	17.79	10.531		
7,500.00	7,239.40	7,666.42	7,410.28	18.94	19.89	-155.26	264.13	593.11	204.33	189.97	14.36	14.225		
7,600.00	7,255.49	7,816.28	7,452.27	18.63	19.36	-157.67	120.72	593.11	215.07	201.67	13.40	16.053		
7,700.00	7,256.04	7,950.05	7,458.46	18.39	19.04	-158.19	-12.69	593.11	218.05	203.50	14.56	14.977		
7,800.00	7,253.91	8,050.05	7,457.02	18.51	19.01	-158.26	-112.68	593.11	218.70	203.29	15.41	14.195		
7,900.00	7,251.78	8,150.04	7,455.59	19.20	19.33	-158.32	-212.67	593.11	219.34	202.90	16.43	13.347		
8,000.00	7,249.65	8,250.04	7,454.15	20.08	20.01	-158.39	-312.66	593.11	219.98	202.36	17.62	12.483		
8,100.00	7,247.53	8,350.04	7,452.71	21.07	20.89	-158.46	-412.64	593.11	220.62	201.68	18.94	11.651		
8,200.00	7,245.40	8,450.04	7,451.27	22.17	21.92	-158.52	-512.63	593.11	221.26	200.91	20.35	10.872		
8,300.00	7,243.27	8,550.03	7,449.83	23.36	23.05	-158.59	-612.62	593.11	221.90	200.06	21.85	10.158		
8,400.00	7,241.14	8,650.03	7,448.39	24.64	24.28	-158.65	-712.61	593.11	222.54	199.14	23.40	9.509		
8,500.00	7,239.01	8,750.03	7,446.96	25.98	25.59	-158.72	-812.59	593.11	223.19	198.18	25.01	8.924		
8,600.00	7,236.89	8,850.03	7,445.52	27.39	26.96	-158.78	-912.58	593.11	223.83	197.17	26.66	8.396		
8,700.00	7,234.76	8,950.03	7,444.08	28.85	28.39	-158.84	-1,012.57	593.11	224.47	196.13	28.34	7.921		
8,800.00	7,232.63	9,050.02	7,442.64	30.36	29.88	-158.91	-1,112.55	593.11	225.11	195.07	30.04	7.493		
8,900.00	7,230.50	9,150.02	7,441.20	31.91	31.40	-158.97	-1,212.54	593.11	225.76	193.99	31.77	7.106		
9,000.00	7,228.38	9,250.02	7,439.76	33.49	32.97	-159.03	-1,312.53	593.11	226.40	192.89	33.52	6.755		
9,100.00	7,226.25	9,350.02	7,438.33	35.11	34.57	-159.09	-1,412.52	593.11	227.05	191.77	35.27	6.437		
9,200.00	7,224.12	9,450.01	7,436.89	36.75	36.19	-159.16	-1,512.50	593.11	227.69	190.65	37.04	6.147		
9,300.00	7,221.99	9,550.01	7,435.45	38.41	37.85	-159.22	-1,612.49	593.11	228.34	189.52	38.82	5.882		
9,400.00	7,219.86	9,650.01	7,434.01	40.10	39.52	-159.28	-1,712.48	593.11	228.98	188.37	40.61	5.639		
9,500.00	7,217.74	9,750.01	7,432.57	41.80	41.22	-159.34	-1,812.47	593.11	229.63	187.23	42.40	5.416		
9,600.00	7,215.61	9,850.00	7,431.13	43.53	42.93	-159.40	-1,912.45	593.11	230.27	186.08	44.19	5.211		
9,700.00	7,213.48	9,950.00	7,429.70	45.26	44.66	-159.46	-2,012.44	593.11	230.92	184.93	45.99	5.021		
9,800.00	7,211.35	10,050.00	7,428.26	47.01	46.40	-159.52	-2,112.43	593.11	231.56	183.77	47.79	4.845		
9,900.00	7,209.22	10,150.00	7,426.82	48.77	48.15	-159.58	-2,212.41	593.11	232.21	182.61	49.60	4.682		
10,000.00	7,207.10	10,249.99	7,425.38	50.54	49.92	-159.64	-2,312.40	593.11	232.85	181.45	51.40	4.530		
10,100.00	7,204.97	10,349.99	7,423.94	52.32	51.69	-159.70	-2,412.39	593.11	233.50	180.29	53.21	4.388		
10,200.00	7,202.84	10,449.99	7,422.50	54.11	53.48	-159.76	-2,512.38	593.11	234.15	179.13	55.01	4.256		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 38C-26HZ - CAMP 38C-26HZ - CAMP 38C-26HZ (wp03) H&P 307												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	10,549.99	7,421.07	55.91	55.27	-159.81	-2,612.36	593.11	234.80	177.98	56.82	4.132	
10,400.00	7,198.59	10,649.98	7,419.63	57.72	57.07	-159.87	-2,712.35	593.11	235.44	176.82	58.63	4.016	
10,500.00	7,196.46	10,749.98	7,418.19	59.53	58.88	-159.93	-2,812.34	593.11	236.09	175.66	60.43	3.907	
10,600.00	7,194.33	10,849.98	7,416.75	61.34	60.69	-159.99	-2,912.33	593.11	236.74	174.50	62.24	3.804	
10,700.00	7,192.20	10,949.98	7,415.31	63.17	62.51	-160.04	-3,012.31	593.11	237.39	173.35	64.04	3.707	
10,800.00	7,190.07	11,049.98	7,413.87	64.99	64.33	-160.10	-3,112.30	593.11	238.03	172.19	65.84	3.615	
10,900.00	7,187.95	11,149.97	7,412.44	66.83	66.16	-160.16	-3,212.29	593.11	238.68	171.04	67.64	3.529	
11,000.00	7,185.82	11,249.97	7,411.00	68.66	67.99	-160.21	-3,312.27	593.11	239.33	169.89	69.44	3.447	
11,100.00	7,183.69	11,349.97	7,409.56	70.50	69.83	-160.27	-3,412.26	593.11	239.98	168.74	71.24	3.369	
11,200.00	7,181.56	11,449.97	7,408.12	72.35	71.67	-160.32	-3,512.25	593.11	240.63	167.60	73.03	3.295	
11,300.00	7,179.44	11,549.96	7,406.68	74.19	73.52	-160.38	-3,612.24	593.11	241.28	166.45	74.82	3.225	
11,400.00	7,177.31	11,649.96	7,405.24	76.04	75.36	-160.43	-3,712.22	593.11	241.93	165.31	76.62	3.158	
11,500.00	7,175.18	11,749.96	7,403.81	77.90	77.22	-160.49	-3,812.21	593.11	242.58	164.17	78.40	3.094	
11,600.00	7,173.05	11,849.96	7,402.37	79.75	79.07	-160.54	-3,912.20	593.11	243.23	163.04	80.19	3.033	
11,700.00	7,170.92	11,949.95	7,400.93	81.61	80.93	-160.60	-4,012.19	593.11	243.88	161.90	81.98	2.975	
11,800.00	7,168.80	12,049.95	7,399.49	83.47	82.78	-160.65	-4,112.17	593.11	244.53	160.77	83.76	2.919	
11,837.41	7,168.00	12,084.04	7,399.00	84.17	83.42	-160.67	-4,146.26	593.11	244.80	160.40	84.40	2.901 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 991-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	178.35	-3,886.55	111.75	3,888.17					
100.00	100.00	91.15	91.15	0.08	0.12	178.35	-3,886.56	111.69	3,888.17	3,887.96	0.21	N/A		
200.00	200.00	190.22	190.22	0.31	0.25	178.36	-3,886.60	111.50	3,888.20	3,887.64	0.56	6,920.040		
300.00	300.00	289.29	289.29	0.53	0.38	178.36	-3,886.67	111.17	3,888.26	3,887.34	0.92	4,234.587		
400.00	400.00	388.36	388.35	0.76	0.52	178.37	-3,886.76	110.71	3,888.34	3,887.07	1.27	3,050.751		
500.00	500.00	487.42	487.42	0.98	0.65	178.38	-3,886.88	110.11	3,888.45	3,886.82	1.63	2,384.252		
600.00	600.00	586.49	586.48	1.21	0.78	178.39	-3,887.03	109.37	3,888.58	3,886.59	1.99	1,956.792		
700.00	700.00	685.55	685.54	1.43	0.91	178.40	-3,887.21	108.50	3,888.73	3,886.39	2.34	1,659.333		
800.00	800.00	784.61	784.60	1.66	1.04	178.42	-3,887.42	107.50	3,888.91	3,886.21	2.70	1,440.402		
900.00	900.00	883.67	883.65	1.88	1.17	178.43	-3,887.65	106.36	3,889.11	3,886.05	3.06	1,272.532		
1,000.00	1,000.00	1,097.33	1,097.28	2.11	1.48	178.46	-3,886.39	104.71	3,889.23	3,885.64	3.58	1,085.164		
1,100.00	1,100.00	1,399.42	1,398.66	2.33	1.75	178.27	-3,872.14	117.13	3,886.03	3,881.94	4.08	952.105		
1,200.00	1,200.00	1,491.86	1,490.47	2.56	1.89	178.15	-3,864.60	124.85	3,878.12	3,873.68	4.45	872.342		
1,300.00	1,300.00	1,589.50	1,587.23	2.78	2.06	177.99	-3,856.94	135.42	3,870.59	3,865.75	4.84	799.864		
1,400.00	1,399.98	1,727.99	1,723.75	3.00	2.33	141.39	-3,845.12	155.40	3,863.89	3,858.57	5.32	726.169		
1,500.00	1,499.84	1,805.00	1,799.27	3.23	2.50	141.28	-3,837.93	168.65	3,859.33	3,853.62	5.71	675.640		
1,570.99	1,570.59	1,853.27	1,846.55	3.39	2.61	141.19	-3,833.69	177.38	3,858.21	3,852.22	5.99	644.644		
1,600.00	1,599.45	1,866.35	1,859.38	3.45	2.64	141.17	-3,832.67	179.74	3,858.38	3,852.30	6.08	634.511		
1,700.00	1,698.70	2,072.77	2,061.66	3.69	3.16	140.82	-3,814.95	216.77	3,860.48	3,853.65	6.82	565.866		
1,800.00	1,797.61	2,185.91	2,172.22	3.95	3.47	140.65	-3,803.05	237.63	3,862.19	3,854.82	7.37	524.028		
1,900.00	1,896.51	2,364.58	2,347.07	4.22	3.98	140.44	-3,782.01	267.75	3,862.65	3,854.54	8.12	475.921		
2,000.00	1,995.40	2,464.13	2,444.41	4.51	4.27	140.32	-3,769.30	284.32	3,862.18	3,853.52	8.66	446.121		
2,100.00	2,094.30	2,548.59	2,526.98	4.80	4.52	140.22	-3,758.66	298.47	3,861.90	3,852.74	9.16	421.464		
2,102.39	2,096.67	2,550.28	2,528.64	4.81	4.53	140.22	-3,758.45	298.75	3,861.90	3,852.72	9.18	420.778		
2,200.00	2,193.19	2,620.03	2,596.98	5.10	4.73	140.14	-3,750.14	309.94	3,862.27	3,852.63	9.64	400.805		
2,300.00	2,292.09	2,708.00	2,683.31	5.41	4.99	140.06	-3,739.91	323.43	3,862.94	3,852.78	10.16	380.216		
2,400.00	2,390.98	2,798.00	2,771.68	5.72	5.26	139.97	-3,729.95	337.22	3,864.15	3,853.46	10.69	361.365		
2,500.00	2,489.88	2,916.03	2,887.52	6.04	5.61	139.85	-3,716.72	355.61	3,865.26	3,853.95	11.31	341.687		
2,600.00	2,588.77	2,993.17	2,963.36	6.36	5.84	139.79	-3,708.19	366.81	3,866.45	3,854.64	11.82	327.239		
2,700.00	2,687.67	3,094.63	3,063.13	6.68	6.14	139.70	-3,697.13	381.62	3,867.83	3,855.44	12.39	312.143		
2,800.00	2,786.56	3,181.77	3,148.64	7.01	6.40	139.61	-3,687.72	395.47	3,869.49	3,856.46	12.93	299.239		
2,900.00	2,885.46	3,284.20	3,249.28	7.34	6.70	139.51	-3,677.02	411.24	3,871.31	3,857.79	13.52	286.401		
3,000.00	2,984.36	3,414.57	3,377.53	7.67	7.09	139.41	-3,662.50	429.54	3,872.39	3,858.21	14.18	273.052		
3,100.00	3,083.25	3,491.85	3,453.89	8.00	7.31	139.39	-3,654.04	437.94	3,873.54	3,858.85	14.69	263.725		
3,200.00	3,182.15	3,556.87	3,518.22	8.34	7.50	139.38	-3,647.45	444.63	3,875.44	3,860.29	15.16	255.669		
3,300.00	3,281.04	3,622.17	3,582.96	8.67	7.68	139.37	-3,641.54	450.80	3,878.35	3,862.72	15.63	248.149		
3,400.00	3,379.94	3,702.00	3,661.98	9.01	7.91	139.35	-3,634.44	459.59	3,881.62	3,865.48	16.14	240.444		
3,500.00	3,478.83	3,788.44	3,747.50	9.35	8.16	139.31	-3,627.09	469.78	3,885.30	3,868.63	16.68	232.952		
3,600.00	3,577.73	3,966.30	3,923.23	9.69	8.67	139.22	-3,611.97	492.42	3,889.43	3,871.95	17.48	222.504		
3,700.00	3,676.62	4,099.24	4,054.02	10.03	9.07	139.11	-3,597.49	511.35	3,890.75	3,872.59	18.17	214.172		
3,800.00	3,775.52	4,234.16	4,186.16	10.37	9.49	138.96	-3,581.82	533.57	3,891.61	3,872.74	18.87	206.219		
3,900.00	3,874.41	4,346.80	4,296.23	10.72	9.84	138.82	-3,567.94	553.01	3,891.82	3,872.30	19.51	199.432		
4,000.00	3,973.31	4,420.71	4,368.47	11.06	10.07	138.72	-3,558.88	565.76	3,892.16	3,872.12	20.04	194.243		
4,100.00	4,072.20	4,485.24	4,431.91	11.40	10.27	138.67	-3,551.72	575.16	3,893.43	3,872.91	20.53	189.659		
4,200.00	4,171.10	4,558.00	4,503.58	11.75	10.48	138.62	-3,544.24	585.21	3,895.49	3,874.45	21.04	185.140		
4,300.00	4,269.99	4,634.21	4,578.58	12.09	10.71	138.55	-3,536.85	596.52	3,898.20	3,876.63	21.57	180.755		
4,400.00	4,368.89	4,719.46	4,662.33	12.44	10.97	138.46	-3,528.92	610.36	3,901.43	3,879.31	22.12	176.356		
4,500.00	4,467.78	4,802.60	4,744.03	12.78	11.22	138.37	-3,521.49	623.84	3,905.04	3,882.37	22.67	172.238		
4,600.00	4,566.68	5,091.33	5,027.66	13.13	12.10	138.10	-3,490.84	667.95	3,907.74	3,883.89	23.84	163.898		
4,700.00	4,665.57	5,215.25	5,149.25	13.48	12.48	138.02	-3,473.75	684.61	3,906.24	3,881.72	24.51	159.349		
4,800.00	4,764.47	5,280.00	5,212.57	13.82	12.68	137.95	-3,464.61	694.66	3,904.81	3,879.80	25.01	156.121		
4,883.40	4,846.95	5,335.28	5,266.62	14.11	12.85	137.89	-3,457.23	703.58	3,904.30	3,878.87	25.43	153.507		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 991-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,863.36	5,343.03	5,274.21	14.17	12.88	137.88	-3,456.27	704.81	3,904.33	3,878.82	25.51	153.067		
5,000.00	4,962.26	5,401.08	5,331.16	14.52	13.05	137.82	-3,449.54	713.80	3,905.22	3,879.23	25.99	150.284		
5,100.00	5,061.15	5,473.43	5,402.35	14.87	13.27	137.77	-3,441.78	724.06	3,906.92	3,880.42	26.50	147.408		
5,200.00	5,160.05	5,545.90	5,473.92	15.21	13.49	137.73	-3,434.63	733.02	3,909.33	3,882.32	27.02	144.700		
5,300.00	5,258.94	5,617.24	5,544.63	15.56	13.69	137.73	-3,428.28	739.88	3,912.45	3,884.93	27.52	142.177		
5,400.00	5,357.84	5,683.00	5,609.96	15.91	13.87	137.74	-3,423.03	745.27	3,916.34	3,888.35	28.00	139.876		
5,500.00	5,456.73	5,751.66	5,678.32	16.26	14.05	137.77	-3,418.24	749.57	3,921.07	3,892.59	28.48	137.690		
5,600.00	5,555.63	5,815.69	5,742.19	16.61	14.21	137.82	-3,414.52	751.87	3,926.68	3,897.75	28.93	135.727		
5,700.00	5,654.52	5,884.48	5,810.90	16.96	14.37	137.91	-3,411.34	752.73	3,933.21	3,903.83	29.38	133.864		
5,800.00	5,753.42	5,972.06	5,898.42	17.31	14.55	138.02	-3,407.75	753.02	3,940.23	3,910.37	29.86	131.953		
5,900.00	5,852.31	6,046.00	5,972.29	17.66	14.72	138.11	-3,404.94	753.96	3,947.67	3,917.35	30.32	130.195		
6,000.00	5,951.21	6,113.95	6,040.17	18.01	14.89	138.18	-3,402.74	755.94	3,955.85	3,925.06	30.79	128.496		
6,100.00	6,050.10	6,191.70	6,117.83	18.36	15.08	138.24	-3,400.80	759.39	3,964.85	3,933.57	31.28	126.763		
6,200.00	6,149.00	6,265.51	6,191.53	18.71	15.26	138.29	-3,399.23	763.01	3,974.31	3,942.55	31.76	125.143		
6,300.00	6,247.89	6,336.00	6,261.96	19.06	15.43	138.35	-3,398.40	765.84	3,984.58	3,952.36	32.23	123.646		
6,400.00	6,346.79	6,432.39	6,358.31	19.41	15.66	138.44	-3,397.60	768.72	3,995.16	3,962.41	32.75	122.001		
6,500.00	6,445.68	6,515.19	6,441.08	19.76	15.85	138.53	-3,397.21	770.58	4,006.03	3,972.80	33.23	120.550		
6,600.00	6,544.58	6,599.54	6,525.41	20.11	16.03	138.63	-3,397.16	772.24	4,017.30	3,983.59	33.71	119.184		
6,700.00	6,643.53	6,686.73	6,612.60	20.44	16.19	125.68	-3,397.45	773.41	4,028.37	3,994.45	33.92	118.769		
6,800.00	6,743.00	6,800.86	6,726.72	20.62	16.39	37.65	-3,397.74	774.06	4,026.77	3,993.06	33.71	119.452		
6,900.00	6,840.75	6,885.55	6,811.41	20.64	16.51	13.88	-3,398.12	774.33	4,008.10	3,975.65	32.45	123.533		
7,000.00	6,933.82	6,988.16	6,914.01	20.54	16.65	7.04	-3,398.40	774.76	3,972.58	3,942.31	30.26	131.272		
7,100.00	7,019.36	7,061.24	6,987.10	20.31	16.72	3.67	-3,398.72	774.84	3,921.57	3,894.38	27.19	144.248		
7,200.00	7,094.79	7,123.53	7,049.39	20.01	16.75	1.31	-3,399.22	774.81	3,856.74	3,833.32	23.42	164.681		
7,300.00	7,157.81	7,191.02	7,116.87	19.66	16.80	-0.99	-3,399.86	774.90	3,779.88	3,760.54	19.34	195.449		
7,400.00	7,206.51	7,243.63	7,169.48	19.29	16.86	-4.23	-3,400.27	775.24	3,693.09	3,677.47	15.62	236.457		
7,500.00	7,239.40	7,276.40	7,202.25	18.94	16.90	-11.01	-3,400.51	775.43	3,599.13	3,584.69	14.44	249.238		
7,600.00	7,255.49	7,292.86	7,218.71	18.63	16.92	-38.92	-3,400.64	775.51	3,500.87	3,475.97	24.90	140.616		
7,700.00	7,256.04	7,294.17	7,220.02	18.39	16.92	-99.51	-3,400.65	775.51	3,401.20	3,367.09	34.12	99.697		
7,800.00	7,253.91	7,292.86	7,218.71	18.51	16.92	-99.24	-3,400.64	775.51	3,301.52	3,267.09	34.43	95.891		
7,900.00	7,251.78	7,291.56	7,217.40	19.20	16.92	-98.96	-3,400.63	775.50	3,201.86	3,166.92	34.93	91.656		
8,000.00	7,249.65	7,290.25	7,216.09	20.08	16.91	-98.68	-3,400.62	775.50	3,102.22	3,066.61	35.61	87.119		
8,100.00	7,247.53	7,288.93	7,214.78	21.07	16.91	-98.40	-3,400.61	775.49	3,002.60	2,966.16	36.44	82.406		
8,200.00	7,245.40	7,287.62	7,213.47	22.17	16.91	-98.12	-3,400.60	775.48	2,903.00	2,865.61	37.40	77.628		
8,300.00	7,243.27	7,286.30	7,212.15	23.36	16.91	-97.84	-3,400.59	775.48	2,803.44	2,764.97	38.47	72.873		
8,400.00	7,241.14	7,284.98	7,210.83	24.64	16.91	-97.56	-3,400.58	775.47	2,703.91	2,664.27	39.64	68.210		
8,500.00	7,239.01	7,283.65	7,209.50	25.98	16.91	-97.28	-3,400.57	775.47	2,604.41	2,563.51	40.89	63.686		
8,600.00	7,236.89	7,282.33	7,208.18	27.39	16.90	-96.99	-3,400.56	775.46	2,504.95	2,462.73	42.22	59.335		
8,700.00	7,234.76	7,281.00	7,206.85	28.85	16.90	-96.71	-3,400.55	775.45	2,405.54	2,361.94	43.60	55.174		
8,800.00	7,232.63	7,279.67	7,205.51	30.36	16.90	-96.42	-3,400.54	775.45	2,306.17	2,261.14	45.03	51.212		
8,900.00	7,230.50	7,278.33	7,204.18	31.91	16.90	-96.13	-3,400.53	775.44	2,206.86	2,160.29	46.58	47.380		
9,000.00	7,228.38	7,276.99	7,202.84	33.49	16.90	-95.85	-3,400.52	775.43	2,107.62	2,059.41	48.21	43.715		
9,100.00	7,226.25	7,275.65	7,201.50	35.11	16.90	-95.56	-3,400.51	775.43	2,008.45	1,958.57	49.88	40.266		
9,200.00	7,224.12	7,274.31	7,200.16	36.75	16.89	-95.27	-3,400.50	775.42	1,909.37	1,857.79	51.57	37.023		
9,300.00	7,221.99	7,272.96	7,198.81	38.41	16.89	-94.98	-3,400.49	775.41	1,810.38	1,757.09	53.29	33.972		
9,400.00	7,219.86	7,271.61	7,197.46	40.10	16.89	-94.69	-3,400.48	775.41	1,711.52	1,656.49	55.03	31.102		
9,500.00	7,217.74	7,270.26	7,196.11	41.80	16.89	-94.39	-3,400.47	775.40	1,612.79	1,556.00	56.78	28.402		
9,600.00	7,215.61	7,268.90	7,194.75	43.53	16.89	-94.10	-3,400.46	775.39	1,514.23	1,455.67	58.56	25.859		
9,700.00	7,213.48	7,267.54	7,193.39	45.26	16.89	-93.81	-3,400.45	775.38	1,415.86	1,355.52	60.34	23.464		
9,800.00	7,211.35	7,266.18	7,192.03	47.01	16.88	-93.51	-3,400.43	775.38	1,317.75	1,255.61	62.14	21.206		
9,900.00	7,209.22	7,264.82	7,190.67	48.77	16.88	-93.22	-3,400.42	775.37	1,219.94	1,155.99	63.95	19.077		
10,000.00	7,207.10	7,263.45	7,189.30	50.54	16.88	-92.92	-3,400.41	775.36	1,122.51	1,056.74	65.76	17.069		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 39-26 offset - CAMP 39-26 - CAMP 39-26												Offset Site Error:	0.00 ft
Survey Program: 991-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,204.97	7,262.08	7,187.93	52.32	16.88	-92.62	-3,400.40	775.35	1,025.57	957.98	67.59	15.173	
10,200.00	7,202.84	7,260.71	7,186.56	54.11	16.88	-92.32	-3,400.39	775.35	929.28	859.86	69.42	13.386	
10,300.00	7,200.71	7,259.33	7,185.18	55.91	16.88	-92.02	-3,400.38	775.34	833.87	762.61	71.26	11.702	
10,400.00	7,198.59	7,257.95	7,183.80	57.72	16.87	-91.72	-3,400.37	775.33	739.66	666.56	73.11	10.118	
10,500.00	7,196.46	7,256.57	7,182.42	59.53	16.87	-91.42	-3,400.36	775.32	647.19	572.24	74.95	8.634	
10,600.00	7,194.33	7,255.18	7,181.03	61.34	16.87	-91.12	-3,400.35	775.31	557.33	480.52	76.81	7.256	
10,700.00	7,192.20	7,253.80	7,179.64	63.17	16.87	-90.82	-3,400.34	775.30	471.56	392.90	78.66	5.995	
10,800.00	7,190.07	7,252.40	7,178.25	64.99	16.87	-90.52	-3,400.33	775.30	392.58	312.06	80.52	4.875	
10,900.00	7,187.95	7,251.01	7,176.86	66.83	16.87	-90.21	-3,400.32	775.29	325.37	242.98	82.38	3.949	
11,000.00	7,185.82	7,249.61	7,175.46	68.66	16.86	-89.91	-3,400.31	775.28	278.58	194.33	84.25	3.307	
11,091.28	7,183.88	7,248.33	7,174.18	70.34	16.86	-89.63	-3,400.30	775.27	263.19	177.23	85.95	3.062 CC	
11,100.00	7,183.69	7,248.21	7,174.06	70.50	16.86	-89.60	-3,400.30	775.27	263.33	177.22	86.11	3.058 ES, SF	
11,200.00	7,181.56	7,246.81	7,172.66	72.35	16.86	-89.30	-3,400.29	775.26	284.74	196.76	87.98	3.236	
11,300.00	7,179.44	7,245.40	7,171.25	74.19	16.86	-88.99	-3,400.28	775.25	335.86	246.02	89.85	3.738	
11,400.00	7,177.31	7,243.99	7,169.84	76.04	16.86	-88.69	-3,400.27	775.24	405.62	313.91	91.71	4.423	
11,500.00	7,175.18	7,242.58	7,168.43	77.90	16.86	-88.38	-3,400.26	775.23	486.06	392.48	93.58	5.194	
11,600.00	7,173.05	7,241.16	7,167.01	79.75	16.85	-88.07	-3,400.25	775.22	572.69	477.24	95.45	6.000	
11,700.00	7,170.92	7,239.74	7,165.59	81.61	16.85	-87.76	-3,400.24	775.21	663.09	565.78	97.31	6.814	
11,800.00	7,168.80	7,238.32	7,164.17	83.47	16.85	-87.45	-3,400.23	775.20	755.91	656.73	99.18	7.622	
11,837.41	7,168.00	7,237.79	7,163.64	84.17	16.85	-87.34	-3,400.22	775.20	791.08	691.21	99.87	7.921	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 7-26 offset - CAMP 7-26 - CAMP 7-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-138.61	-1,529.24	-1,347.55	2,038.48					
100.00	100.00	62.08	62.08	0.08	0.08	-138.61	-1,529.29	-1,347.65	2,038.36	2,038.20	0.17	N/A		
200.00	200.00	163.67	163.67	0.31	0.29	-138.61	-1,529.46	-1,348.10	2,038.79	2,038.19	0.60	3,409.181		
300.00	300.00	264.23	264.22	0.53	0.50	-138.60	-1,529.47	-1,348.35	2,038.96	2,037.92	1.03	1,971.752		
400.00	400.00	365.50	365.50	0.76	0.71	-138.61	-1,529.81	-1,348.35	2,039.21	2,037.74	1.47	1,389.797		
500.00	500.00	475.23	475.22	0.98	0.89	-138.61	-1,529.83	-1,348.27	2,039.18	2,037.31	1.87	1,088.990		
600.00	600.00	576.67	576.67	1.21	0.99	-138.62	-1,529.68	-1,347.84	2,038.79	2,036.58	2.20	926.601		
697.58	697.58	666.58	666.58	1.43	1.13	-138.62	-1,529.73	-1,347.47	2,038.57	2,036.01	2.56	796.684		
700.00	700.00	668.77	668.76	1.43	1.14	-138.62	-1,529.74	-1,347.47	2,038.57	2,036.00	2.57	793.788		
800.00	800.00	763.23	763.22	1.66	1.34	-138.63	-1,530.06	-1,347.36	2,038.75	2,035.76	2.99	680.872		
900.00	900.00	861.76	861.75	1.88	1.57	-138.64	-1,530.51	-1,347.35	2,039.09	2,035.63	3.45	590.511		
1,000.00	1,000.00	959.96	959.95	2.11	1.80	-138.65	-1,531.01	-1,347.36	2,039.47	2,035.57	3.90	522.605		
1,100.00	1,100.00	1,059.42	1,059.41	2.33	2.02	-138.65	-1,531.30	-1,347.75	2,039.95	2,035.60	4.35	469.001		
1,200.00	1,200.00	1,156.89	1,156.88	2.56	2.25	-138.65	-1,531.71	-1,348.01	2,040.45	2,035.65	4.80	424.799		
1,300.00	1,300.00	1,257.06	1,257.05	2.78	2.49	-138.65	-1,532.15	-1,348.49	2,041.09	2,035.83	5.27	387.427		
1,400.00	1,399.98	1,355.43	1,355.42	3.00	2.73	-175.05	-1,532.54	-1,348.89	2,043.40	2,037.66	5.74	356.295		
1,500.00	1,499.84	1,450.11	1,450.10	3.23	2.96	-175.05	-1,533.14	-1,349.36	2,049.41	2,043.22	6.19	331.050		
1,600.00	1,599.45	1,547.44	1,547.41	3.45	3.21	-175.06	-1,533.80	-1,350.07	2,059.08	2,052.44	6.65	309.763		
1,700.00	1,698.70	1,646.83	1,646.80	3.69	3.45	-175.06	-1,534.44	-1,350.87	2,072.23	2,065.13	7.10	291.799		
1,800.00	1,797.61	1,749.30	1,749.27	3.95	3.70	-175.08	-1,535.01	-1,351.72	2,087.84	2,080.27	7.57	275.858		
1,900.00	1,896.51	1,852.81	1,852.78	4.22	3.94	-175.10	-1,535.25	-1,352.52	2,103.28	2,095.25	8.03	261.961		
2,000.00	1,995.40	1,954.69	1,954.65	4.51	4.15	-175.12	-1,535.19	-1,353.43	2,118.59	2,110.13	8.46	250.288		
2,100.00	2,094.30	2,060.89	2,060.85	4.80	4.33	-175.13	-1,534.81	-1,354.38	2,133.68	2,124.80	8.88	240.262		
2,200.00	2,193.19	2,159.67	2,159.62	5.10	4.49	-175.13	-1,534.17	-1,355.16	2,148.49	2,139.22	9.27	231.704		
2,300.00	2,292.09	2,252.85	2,252.79	5.41	4.66	-175.14	-1,533.66	-1,356.10	2,163.51	2,153.84	9.67	223.638		
2,400.00	2,390.98	2,351.29	2,351.22	5.72	4.86	-175.14	-1,533.21	-1,357.29	2,178.73	2,168.63	10.10	215.645		
2,500.00	2,489.88	2,442.55	2,442.47	6.04	5.05	-175.14	-1,532.71	-1,358.45	2,193.94	2,183.41	10.53	208.300		
2,600.00	2,588.77	2,524.28	2,524.20	6.36	5.24	-175.15	-1,533.06	-1,359.51	2,209.86	2,198.90	10.96	201.680		
2,700.00	2,687.67	2,610.02	2,609.92	6.68	5.45	-175.19	-1,534.49	-1,360.22	2,226.41	2,215.02	11.40	195.319		
2,800.00	2,786.56	2,700.00	2,699.86	7.01	5.64	-175.26	-1,537.21	-1,360.49	2,243.62	2,231.78	11.83	189.602		
2,900.00	2,885.46	2,773.26	2,773.05	7.34	5.80	-175.33	-1,540.30	-1,360.53	2,261.53	2,249.30	12.23	184.961		
3,000.00	2,984.36	2,872.27	2,871.95	7.67	6.02	-175.44	-1,545.08	-1,360.65	2,279.98	2,267.30	12.68	179.800		
3,100.00	3,083.25	2,979.13	2,978.73	8.00	6.26	-175.54	-1,549.40	-1,361.17	2,298.09	2,284.93	13.16	174.611		
3,200.00	3,182.15	3,086.54	3,086.06	8.34	6.51	-175.61	-1,553.10	-1,361.82	2,315.84	2,302.19	13.65	169.639		
3,300.00	3,281.04	3,201.38	3,200.86	8.67	6.79	-175.69	-1,556.26	-1,362.51	2,333.07	2,318.90	14.17	164.706		
3,400.00	3,379.94	3,319.73	3,319.18	9.01	7.06	-175.76	-1,558.83	-1,362.52	2,349.48	2,334.81	14.67	160.172		
3,500.00	3,478.83	3,428.04	3,427.46	9.35	7.27	-175.85	-1,561.28	-1,361.44	2,365.33	2,350.21	15.12	156.445		
3,600.00	3,577.73	3,535.16	3,534.51	9.69	7.45	-175.96	-1,564.11	-1,359.18	2,380.75	2,365.20	15.55	153.131		
3,700.00	3,676.62	3,637.93	3,637.24	10.03	7.63	-176.05	-1,566.19	-1,357.46	2,395.99	2,380.02	15.97	150.074		
3,800.00	3,775.52	3,738.55	3,737.85	10.37	7.81	-176.13	-1,567.68	-1,356.09	2,411.02	2,394.64	16.39	147.138		
3,900.00	3,874.41	3,836.91	3,836.20	10.72	7.99	-176.18	-1,568.84	-1,355.27	2,426.17	2,409.36	16.81	144.319		
4,000.00	3,973.31	3,941.38	3,940.66	11.06	8.19	-176.23	-1,569.60	-1,354.58	2,441.09	2,423.84	17.25	141.544		
4,100.00	4,072.20	4,044.36	4,043.63	11.40	8.36	-176.28	-1,570.41	-1,353.68	2,455.93	2,438.26	17.67	139.014		
4,200.00	4,171.10	4,163.98	4,163.25	11.75	8.52	-176.34	-1,570.78	-1,352.41	2,470.30	2,452.23	18.07	136.700		
4,300.00	4,269.99	4,280.39	4,279.65	12.09	8.61	-176.37	-1,569.76	-1,351.19	2,483.75	2,465.35	18.40	134.967		
4,400.00	4,368.89	4,370.88	4,370.12	12.44	8.67	-176.37	-1,568.03	-1,351.08	2,497.02	2,478.32	18.71	133.490		
4,500.00	4,467.78	4,453.06	4,452.28	12.78	8.74	-176.35	-1,566.33	-1,351.84	2,510.85	2,491.83	19.02	131.997		
4,600.00	4,566.68	4,542.38	4,541.59	13.13	8.83	-176.34	-1,565.36	-1,352.58	2,525.33	2,505.97	19.36	130.471		
4,700.00	4,665.57	4,648.03	4,647.24	13.48	8.93	-176.35	-1,564.69	-1,352.82	2,539.80	2,520.10	19.70	128.933		
4,800.00	4,764.47	4,748.82	4,748.02	13.82	9.01	-176.36	-1,563.86	-1,352.84	2,553.98	2,533.95	20.03	127.524		
4,900.00	4,863.36	4,848.89	4,848.09	14.17	9.10	-176.37	-1,563.30	-1,352.72	2,568.27	2,547.91	20.36	126.161		
5,000.00	4,962.26	4,955.98	4,955.17	14.52	9.20	-176.38	-1,562.23	-1,352.68	2,582.28	2,561.58	20.70	124.732		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 7-26 offset - CAMP 7-26 - CAMP 7-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,053.67	5,052.86	14.87	9.30	-176.38	-1,560.88	-1,352.83	2,596.13	2,575.08	21.05	123.316		
5,200.00	5,160.05	5,148.01	5,147.19	15.21	9.41	-176.37	-1,559.61	-1,353.21	2,610.16	2,588.75	21.41	121.903		
5,300.00	5,258.94	5,245.16	5,244.32	15.56	9.54	-176.36	-1,558.26	-1,353.84	2,624.32	2,602.53	21.79	120.462		
5,400.00	5,357.84	5,347.39	5,346.55	15.91	9.68	-176.36	-1,556.97	-1,354.35	2,638.48	2,616.31	22.17	119.019		
5,500.00	5,456.73	5,447.73	5,446.87	16.26	9.81	-176.36	-1,555.70	-1,354.57	2,652.44	2,629.89	22.55	117.633		
5,600.00	5,555.63	5,544.81	5,543.95	16.61	9.95	-176.36	-1,554.56	-1,354.83	2,666.52	2,643.59	22.93	116.299		
5,700.00	5,654.52	5,646.04	5,645.17	16.96	10.09	-176.35	-1,553.34	-1,355.07	2,680.55	2,657.24	23.32	114.951		
5,800.00	5,753.42	5,748.87	5,747.99	17.31	10.24	-176.35	-1,551.96	-1,355.34	2,694.50	2,670.78	23.72	113.617		
5,900.00	5,852.31	5,852.76	5,851.87	17.66	10.40	-176.35	-1,550.44	-1,355.46	2,708.26	2,684.14	24.12	112.303		
6,000.00	5,951.21	5,954.28	5,953.38	18.01	10.55	-176.35	-1,548.82	-1,355.52	2,721.88	2,697.36	24.51	111.031		
6,100.00	6,050.10	6,056.21	6,055.29	18.36	10.71	-176.34	-1,547.11	-1,355.55	2,735.43	2,710.51	24.92	109.777		
6,200.00	6,149.00	6,154.85	6,153.92	18.71	10.86	-176.34	-1,545.38	-1,355.55	2,748.89	2,723.56	25.32	108.561		
6,300.00	6,247.89	6,252.88	6,251.93	19.06	11.03	-176.33	-1,543.59	-1,355.76	2,762.43	2,736.70	25.73	107.363		
6,400.00	6,346.79	6,352.59	6,351.63	19.41	11.20	-176.32	-1,541.61	-1,356.12	2,775.95	2,749.80	26.15	106.162		
6,500.00	6,445.68	6,460.07	6,459.08	19.76	11.39	-176.30	-1,539.29	-1,356.58	2,789.39	2,762.81	26.58	104.934		
6,600.00	6,544.58	6,569.01	6,567.99	20.11	11.58	-176.29	-1,536.84	-1,356.44	2,802.39	2,775.38	27.02	103.729		
6,700.00	6,643.53	6,674.23	6,673.17	20.44	11.76	170.47	-1,534.31	-1,356.10	2,814.73	2,787.27	27.46	102.493		
6,800.00	6,743.00	6,783.19	6,782.09	20.62	11.95	82.35	-1,531.45	-1,355.59	2,817.26	2,789.50	27.75	101.509		
6,900.00	6,840.75	6,898.03	6,896.86	20.64	12.16	59.86	-1,527.25	-1,355.58	2,806.15	2,778.52	27.63	101.577		
7,000.00	6,933.82	6,971.76	6,970.54	20.54	12.30	55.41	-1,524.32	-1,355.83	2,782.45	2,755.30	27.15	102.494		
7,100.00	7,019.36	7,042.88	7,041.60	20.31	12.44	55.83	-1,521.74	-1,356.43	2,747.77	2,721.09	26.68	102.998		
7,200.00	7,094.79	7,107.55	7,106.23	20.01	12.57	58.89	-1,519.52	-1,357.15	2,703.30	2,676.73	26.57	101.755		
7,300.00	7,157.81	7,158.87	7,157.51	19.66	12.67	63.90	-1,517.81	-1,357.91	2,650.80	2,623.75	27.05	98.008		
7,400.00	7,206.51	7,200.00	7,198.62	19.29	12.76	70.57	-1,516.46	-1,358.68	2,592.27	2,564.18	28.09	92.293		
7,500.00	7,239.40	7,224.36	7,222.96	18.94	12.81	78.34	-1,515.69	-1,359.18	2,529.83	2,500.55	29.27	86.424		
7,600.00	7,255.49	7,236.07	7,234.66	18.63	12.83	86.69	-1,515.33	-1,359.42	2,465.65	2,435.48	30.17	81.725		
7,700.00	7,256.04	7,233.80	7,232.40	18.39	12.83	91.21	-1,515.40	-1,359.38	2,401.94	2,371.37	30.57	78.565		
7,800.00	7,253.91	7,229.08	7,227.68	18.51	12.82	91.06	-1,515.54	-1,359.28	2,340.57	2,309.59	30.98	75.557		
7,900.00	7,251.78	7,224.31	7,222.91	19.20	12.81	90.92	-1,515.69	-1,359.18	2,281.92	2,250.31	31.62	72.176		
8,000.00	7,249.65	7,219.49	7,218.09	20.08	12.80	90.77	-1,515.84	-1,359.08	2,226.21	2,193.77	32.44	68.616		
8,100.00	7,247.53	7,214.61	7,213.22	21.07	12.79	90.62	-1,515.99	-1,358.98	2,173.67	2,140.24	33.42	65.038		
8,200.00	7,245.40	7,209.69	7,208.30	22.17	12.78	90.47	-1,516.15	-1,358.88	2,124.52	2,089.99	34.53	61.528		
8,300.00	7,243.27	7,204.70	7,203.32	23.36	12.77	90.32	-1,516.31	-1,358.78	2,079.01	2,043.26	35.75	58.157		
8,400.00	7,241.14	7,200.00	7,198.62	24.64	12.76	90.17	-1,516.46	-1,358.68	2,037.38	2,000.31	37.07	54.968		
8,500.00	7,239.01	7,200.00	7,198.62	25.98	12.76	90.17	-1,516.46	-1,358.68	1,999.88	1,961.39	38.50	51.950		
8,600.00	7,236.89	7,190.43	7,189.06	27.39	12.74	89.88	-1,516.77	-1,358.49	1,966.73	1,926.80	39.93	49.254		
8,700.00	7,234.76	7,185.79	7,184.42	28.85	12.73	89.74	-1,516.93	-1,358.40	1,938.18	1,896.72	41.46	46.751		
8,800.00	7,232.63	7,181.13	7,179.76	30.36	12.72	89.60	-1,517.08	-1,358.31	1,914.41	1,871.38	43.03	44.486		
8,900.00	7,230.50	7,176.47	7,175.10	31.91	12.71	89.45	-1,517.23	-1,358.23	1,895.62	1,850.96	44.65	42.451		
9,000.00	7,228.38	7,171.79	7,170.43	33.49	12.70	89.31	-1,517.38	-1,358.14	1,881.94	1,835.63	46.31	40.638		
9,100.00	7,226.25	7,167.11	7,165.75	35.11	12.69	89.17	-1,517.54	-1,358.06	1,873.50	1,825.50	48.00	39.034		
9,200.00	7,224.12	7,162.41	7,161.06	36.75	12.68	89.02	-1,517.69	-1,357.97	1,870.36	1,820.65	49.71	37.625		
9,208.95	7,223.93	7,161.99	7,160.64	36.90	12.68	89.01	-1,517.71	-1,357.97	1,870.34	1,820.39	49.95	37.447 CC, ES		
9,300.00	7,221.99	7,157.71	7,156.36	38.41	12.67	88.88	-1,517.85	-1,357.89	1,872.55	1,821.10	51.45	36.397		
9,400.00	7,219.86	7,153.00	7,151.65	40.10	12.66	88.74	-1,518.00	-1,357.82	1,880.04	1,826.84	53.21	35.335		
9,500.00	7,217.74	7,148.27	7,146.93	41.80	12.65	88.59	-1,518.16	-1,357.74	1,892.79	1,837.81	54.98	34.426		
9,600.00	7,215.61	7,143.54	7,142.20	43.53	12.64	88.45	-1,518.32	-1,357.66	1,910.68	1,853.90	56.77	33.655		
9,700.00	7,213.48	7,138.80	7,137.46	45.26	12.63	88.30	-1,518.47	-1,357.59	1,933.56	1,874.99	58.58	33.009		
9,800.00	7,211.35	7,134.04	7,132.71	47.01	12.62	88.16	-1,518.63	-1,357.52	1,961.27	1,900.88	60.39	32.476		
9,900.00	7,209.22	7,129.28	7,127.95	48.77	12.61	88.01	-1,518.79	-1,357.45	1,993.61	1,931.39	62.22	32.042		
10,000.00	7,207.10	7,124.51	7,123.18	50.54	12.60	87.86	-1,518.95	-1,357.38	2,030.35	1,966.29	64.06	31.697		
10,100.00	7,204.97	7,119.72	7,118.40	52.32	12.59	87.72	-1,519.11	-1,357.31	2,071.25	2,005.35	65.90	31.431		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP 7-26 offset - CAMP 7-26 - CAMP 7-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,114.93	7,113.61	54.11	12.58	87.57	-1,519.27	-1,357.25	2,116.08	2,048.33	67.75	31.233	
10,300.00	7,200.71	7,110.13	7,108.81	55.91	12.57	87.42	-1,519.43	-1,357.18	2,164.60	2,094.99	69.61	31.097	
10,400.00	7,198.59	7,100.00	7,098.69	57.72	12.55	87.12	-1,519.77	-1,357.06	2,216.56	2,145.13	71.43	31.032	
10,500.00	7,196.46	7,100.00	7,098.69	59.53	12.55	87.12	-1,519.77	-1,357.06	2,271.71	2,198.37	73.34	30.976 SF	
10,600.00	7,194.33	7,095.24	7,093.92	61.34	12.54	86.97	-1,519.93	-1,357.00	2,329.84	2,254.63	75.21	30.977	
10,700.00	7,192.20	7,089.91	7,088.60	63.17	12.53	86.81	-1,520.11	-1,356.94	2,390.74	2,313.65	77.08	31.015	
10,800.00	7,190.07	7,084.56	7,083.25	64.99	12.52	86.64	-1,520.30	-1,356.87	2,454.18	2,375.22	78.96	31.081	
10,900.00	7,187.95	7,079.18	7,077.87	66.83	12.51	86.48	-1,520.48	-1,356.81	2,519.99	2,439.15	80.84	31.172	
11,000.00	7,185.82	7,073.77	7,072.47	68.66	12.50	86.31	-1,520.67	-1,356.75	2,587.97	2,505.25	82.72	31.285	
11,100.00	7,183.69	7,068.33	7,067.04	70.50	12.49	86.15	-1,520.85	-1,356.69	2,657.97	2,573.37	84.61	31.416	
11,200.00	7,181.56	7,062.87	7,061.58	72.35	12.48	85.98	-1,521.04	-1,356.63	2,729.83	2,643.34	86.49	31.562	
11,300.00	7,179.44	7,057.38	7,056.09	74.19	12.47	85.81	-1,521.23	-1,356.57	2,803.40	2,715.02	88.38	31.720	
11,400.00	7,177.31	7,051.86	7,050.58	76.04	12.46	85.65	-1,521.43	-1,356.52	2,878.56	2,788.29	90.27	31.889	
11,500.00	7,175.18	7,046.32	7,045.04	77.90	12.45	85.48	-1,521.62	-1,356.46	2,955.18	2,863.02	92.16	32.067	
11,600.00	7,173.05	7,040.74	7,039.47	79.75	12.43	85.31	-1,521.82	-1,356.40	3,033.14	2,939.10	94.05	32.251	
11,700.00	7,170.92	7,035.14	7,033.87	81.61	12.42	85.14	-1,522.01	-1,356.35	3,112.36	3,016.43	95.94	32.442	
11,800.00	7,168.80	7,029.50	7,028.24	83.47	12.41	84.97	-1,522.21	-1,356.30	3,192.74	3,094.91	97.83	32.636	
11,837.41	7,168.00	7,027.39	7,026.12	84.17	12.41	84.90	-1,522.29	-1,356.28	3,223.09	3,124.55	98.54	32.710	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LEWIS C 1													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-142.13	-895.42	-696.38	1,134.85					
100.00	100.00	62.78	62.78	0.08	0.08	-142.12	-895.37	-696.59	1,134.43	1,134.26	0.17	6,763.199	CC	
200.00	200.00	165.49	165.48	0.31	0.30	-142.07	-895.05	-697.49	1,134.73	1,134.12	0.61	1,861.280		
288.01	288.01	254.00	253.99	0.51	0.53	-142.03	-894.47	-698.13	1,134.66	1,133.62	1.04	1,094.487		
300.00	300.00	265.58	265.57	0.53	0.56	-142.02	-894.40	-698.22	1,134.66	1,133.57	1.09	1,037.307		
400.00	400.00	364.41	364.39	0.76	0.82	-141.98	-893.99	-698.95	1,134.79	1,133.21	1.58	719.616		
500.00	500.00	461.29	461.28	0.98	1.06	-141.97	-893.98	-699.32	1,135.02	1,132.98	2.04	556.519	ES	
600.00	600.00	560.75	560.73	1.21	1.30	-141.95	-894.18	-699.89	1,135.53	1,133.03	2.50	453.608		
700.00	700.00	659.48	659.46	1.43	1.53	-141.92	-894.22	-700.58	1,135.99	1,133.03	2.96	383.151		
800.00	800.00	755.52	755.50	1.66	1.76	-141.91	-894.61	-701.24	1,136.73	1,133.32	3.42	332.665		
900.00	900.00	853.05	853.02	1.88	1.99	-141.88	-895.05	-702.36	1,137.80	1,133.93	3.88	293.501		
1,000.00	1,000.00	955.16	955.12	2.11	2.24	-141.86	-895.72	-703.34	1,138.91	1,134.56	4.35	261.793		
1,100.00	1,100.00	1,057.67	1,057.63	2.33	2.50	-141.84	-896.14	-704.14	1,139.71	1,134.88	4.83	235.834		
1,200.00	1,200.00	1,154.66	1,154.62	2.56	2.75	-141.82	-896.43	-705.02	1,140.51	1,135.20	5.31	214.879		
1,300.00	1,300.00	1,254.49	1,254.43	2.78	3.01	-141.79	-896.97	-706.15	1,141.63	1,135.84	5.79	197.138		
1,400.00	1,399.98	1,353.81	1,353.75	3.00	3.27	-178.15	-897.21	-707.34	1,144.31	1,138.04	6.28	182.316		
1,500.00	1,499.84	1,454.21	1,454.14	3.23	3.53	-178.12	-897.66	-708.65	1,150.70	1,143.94	6.76	170.266		
1,600.00	1,599.45	1,556.95	1,556.87	3.45	3.80	-178.09	-897.79	-709.86	1,160.24	1,153.00	7.24	160.247		
1,700.00	1,698.70	1,653.15	1,653.07	3.69	4.06	-178.05	-897.83	-711.03	1,173.20	1,165.50	7.70	152.384		
1,800.00	1,797.61	1,751.49	1,751.39	3.95	4.32	-178.03	-898.11	-712.47	1,189.01	1,180.84	8.18	145.434		
1,900.00	1,896.51	1,852.43	1,852.32	4.22	4.59	-178.01	-898.21	-713.77	1,204.69	1,196.03	8.67	138.990		
2,000.00	1,995.40	1,949.56	1,949.44	4.51	4.84	-177.98	-898.28	-715.07	1,220.39	1,211.24	9.15	133.351		
2,100.00	2,094.30	2,044.87	2,044.74	4.80	5.10	-177.96	-898.43	-716.58	1,236.29	1,226.66	9.63	128.333		
2,200.00	2,193.19	2,140.10	2,139.96	5.10	5.35	-177.92	-898.69	-718.42	1,252.51	1,242.39	10.12	123.806		
2,300.00	2,292.09	2,237.25	2,237.09	5.41	5.61	-177.88	-899.05	-720.48	1,268.92	1,258.31	10.61	119.645		
2,400.00	2,390.98	2,335.75	2,335.57	5.72	5.87	-177.85	-899.65	-722.37	1,285.38	1,274.28	11.10	115.818		
2,500.00	2,489.88	2,434.80	2,434.60	6.04	6.13	-177.82	-900.17	-724.34	1,301.83	1,290.23	11.59	112.290		
2,600.00	2,588.77	2,534.07	2,533.84	6.36	6.39	-177.80	-900.66	-726.28	1,318.23	1,306.14	12.09	109.026		
2,700.00	2,687.67	2,633.22	2,632.97	6.68	6.65	-177.75	-900.92	-728.47	1,334.60	1,322.01	12.59	106.012		
2,800.00	2,786.56	2,732.03	2,731.76	7.01	6.92	-177.71	-901.05	-730.72	1,350.92	1,337.83	13.09	103.225		
2,900.00	2,885.46	2,831.34	2,831.04	7.34	7.18	-177.67	-901.35	-732.83	1,367.28	1,353.69	13.59	100.631		
3,000.00	2,984.36	2,934.57	2,934.25	7.67	7.45	-177.62	-901.37	-734.98	1,383.39	1,369.30	14.10	98.136		
3,100.00	3,083.25	3,036.33	3,035.99	8.00	7.72	-177.59	-901.31	-736.74	1,399.23	1,384.63	14.60	95.822		
3,200.00	3,182.15	3,138.32	3,137.98	8.34	7.99	-177.56	-901.18	-738.31	1,414.90	1,399.79	15.11	93.662		
3,300.00	3,281.04	3,238.73	3,238.36	8.67	8.24	-177.53	-900.76	-739.76	1,430.28	1,414.68	15.60	91.672		
3,400.00	3,379.94	3,336.57	3,336.20	9.01	8.49	-177.51	-900.48	-741.24	1,445.81	1,429.71	16.09	89.846		
3,500.00	3,478.83	3,436.82	3,436.43	9.35	8.75	-177.48	-900.13	-742.51	1,461.14	1,444.55	16.59	88.075		
3,600.00	3,577.73	3,536.61	3,536.22	9.69	9.00	-177.46	-899.97	-743.81	1,476.64	1,459.55	17.08	86.449		
3,700.00	3,676.62	3,647.89	3,647.50	10.03	9.24	-177.46	-899.49	-744.49	1,491.48	1,473.93	17.56	84.955		
3,800.00	3,775.52	3,753.63	3,753.23	10.37	9.39	-177.46	-898.58	-744.63	1,505.71	1,487.76	17.95	83.873		
3,900.00	3,874.41	3,855.42	3,855.02	10.72	9.51	-177.46	-897.45	-744.58	1,519.63	1,501.32	18.31	82.978		
4,000.00	3,973.31	3,957.86	3,957.45	11.06	9.63	-177.46	-896.11	-744.54	1,533.41	1,514.73	18.68	82.088		
4,100.00	4,072.20	4,058.75	4,058.33	11.40	9.76	-177.44	-894.41	-744.58	1,546.95	1,527.89	19.06	81.170		
4,200.00	4,171.10	4,158.60	4,158.15	11.75	9.90	-177.42	-892.62	-744.71	1,560.46	1,541.02	19.44	80.260		
4,300.00	4,269.99	4,260.40	4,259.94	12.09	10.05	-177.40	-890.80	-744.65	1,573.87	1,554.04	19.83	79.372		
4,400.00	4,368.89	4,372.14	4,371.65	12.44	10.20	-177.38	-888.33	-744.47	1,586.88	1,566.66	20.22	78.471		
4,500.00	4,467.78	4,478.12	4,477.59	12.78	10.32	-177.36	-885.42	-743.68	1,599.10	1,578.51	20.59	77.649		
4,600.00	4,566.68	4,578.53	4,577.96	13.13	10.45	-177.34	-882.46	-742.88	1,611.15	1,590.19	20.96	76.861		
4,700.00	4,665.57	4,679.97	4,679.34	13.48	10.58	-177.32	-879.33	-742.12	1,623.12	1,601.78	21.34	76.068		
4,800.00	4,764.47	4,774.35	4,773.68	13.82	10.70	-177.30	-876.48	-741.39	1,635.11	1,613.40	21.71	75.312		
4,900.00	4,863.36	4,868.75	4,868.03	14.17	10.85	-177.27	-873.82	-740.95	1,647.46	1,625.37	22.10	74.556		
5,000.00	4,962.26	4,959.02	4,958.28	14.52	10.99	-177.25	-871.54	-740.70	1,660.17	1,637.68	22.49	73.826		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LEWIS C 1													Offset Site Error: 0.00 ft	
Survey Program: 100-NS-GYRO-MS													Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,100.00	5,061.15	5,048.88	5,048.12	14.87	11.14	-177.24	-869.89	-740.60	1,673.49	1,650.61	22.88	73.148		
5,200.00	5,160.05	5,138.74	5,137.98	15.21	11.28	-177.25	-868.91	-740.37	1,687.30	1,664.03	23.27	72.508		
5,300.00	5,258.94	5,227.49	5,226.72	15.56	11.43	-177.26	-868.49	-740.34	1,701.73	1,678.07	23.66	71.925		
5,400.00	5,357.84	5,317.32	5,316.55	15.91	11.55	-177.29	-868.64	-740.34	1,716.66	1,692.64	24.02	71.457		
5,500.00	5,456.73	5,400.00	5,399.23	16.26	11.62	-177.33	-869.56	-740.31	1,732.31	1,707.97	24.34	71.161		
5,600.00	5,555.63	5,491.99	5,491.20	16.61	11.72	-177.38	-871.30	-740.36	1,748.61	1,723.92	24.68	70.838		
5,700.00	5,654.52	5,589.49	5,588.68	16.96	11.83	-177.44	-873.36	-740.58	1,765.18	1,740.14	25.04	70.484		
5,800.00	5,753.42	5,692.89	5,692.06	17.31	11.97	-177.49	-875.31	-740.94	1,781.66	1,756.23	25.42	70.075		
5,900.00	5,852.31	5,791.62	5,790.77	17.66	12.11	-177.53	-876.86	-741.41	1,797.97	1,772.16	25.81	69.649		
6,000.00	5,951.21	5,890.51	5,889.65	18.01	12.27	-177.57	-878.40	-741.91	1,814.29	1,788.08	26.21	69.218		
6,100.00	6,050.10	5,989.87	5,989.00	18.36	12.41	-177.62	-880.02	-742.27	1,830.59	1,803.98	26.60	68.814		
6,200.00	6,149.00	6,089.12	6,088.23	18.71	12.56	-177.66	-881.66	-742.56	1,846.85	1,819.85	26.99	68.418		
6,300.00	6,247.89	6,188.30	6,187.41	19.06	12.71	-177.70	-883.17	-742.94	1,863.08	1,835.68	27.39	68.010		
6,400.00	6,346.79	6,289.06	6,288.15	19.41	12.89	-177.73	-884.57	-743.40	1,879.24	1,851.43	27.81	67.572		
6,500.00	6,445.68	6,395.22	6,394.30	19.76	13.11	-177.75	-885.51	-744.15	1,895.17	1,866.90	28.28	67.025		
6,600.00	6,544.58	6,507.77	6,506.86	20.11	13.38	-177.76	-885.64	-744.96	1,910.52	1,881.72	28.79	66.356		
6,700.00	6,643.53	6,609.03	6,608.11	20.44	13.63	168.97	-885.38	-745.56	1,925.07	1,895.76	29.31	65.678		
6,800.00	6,743.00	6,723.72	6,722.79	20.62	13.88	80.85	-884.19	-746.25	1,929.25	1,899.58	29.67	65.017		
6,900.00	6,840.75	6,816.38	6,815.44	20.64	14.08	58.29	-882.90	-746.94	1,919.84	1,890.37	29.48	65.134		
7,000.00	6,933.82	6,900.00	6,899.05	20.54	14.27	53.94	-881.99	-747.77	1,897.98	1,869.03	28.95	65.557		
7,100.00	7,019.36	6,977.93	6,976.98	20.31	14.44	54.53	-881.67	-748.43	1,864.80	1,836.37	28.42	65.611		
7,200.00	7,094.79	7,049.17	7,048.22	20.01	14.59	57.83	-881.97	-748.72	1,821.75	1,793.47	28.28	64.421		
7,300.00	7,157.81	7,110.06	7,109.10	19.66	14.70	63.20	-882.46	-748.89	1,770.71	1,741.88	28.82	61.436		
7,400.00	7,206.51	7,158.04	7,157.08	19.29	14.78	70.17	-882.90	-749.04	1,713.92	1,683.96	29.97	57.193		
7,500.00	7,239.40	7,190.82	7,189.86	18.94	14.84	78.08	-883.22	-749.16	1,653.91	1,622.67	31.24	52.937		
7,600.00	7,255.49	7,207.39	7,206.43	18.63	14.87	86.07	-883.38	-749.23	1,593.23	1,561.06	32.16	49.534		
7,700.00	7,256.04	7,208.88	7,207.92	18.39	14.87	90.20	-883.39	-749.24	1,534.39	1,501.81	32.58	47.092		
7,800.00	7,253.91	7,207.77	7,206.81	18.51	14.87	90.15	-883.38	-749.23	1,479.73	1,446.74	32.99	44.847		
7,900.00	7,251.78	7,206.66	7,205.70	19.20	14.87	90.10	-883.37	-749.23	1,429.98	1,396.39	33.59	42.567		
8,000.00	7,249.65	7,205.54	7,204.58	20.08	14.86	90.05	-883.36	-749.22	1,385.68	1,351.29	34.39	40.289		
8,100.00	7,247.53	7,204.43	7,203.47	21.07	14.86	90.00	-883.35	-749.22	1,347.35	1,311.96	35.39	38.068		
8,200.00	7,245.40	7,203.31	7,202.35	22.17	14.86	89.95	-883.34	-749.21	1,315.52	1,279.00	36.52	36.018		
8,300.00	7,243.27	7,202.19	7,201.23	23.36	14.86	89.90	-883.33	-749.21	1,290.68	1,252.91	37.77	34.175		
8,400.00	7,241.14	7,201.07	7,200.11	24.64	14.86	89.85	-883.32	-749.21	1,273.22	1,234.11	39.11	32.558		
8,500.00	7,239.01	7,200.00	7,199.04	25.98	14.85	89.80	-883.31	-749.20	1,263.46	1,222.93	40.53	31.175		
8,573.82	7,237.44	7,200.00	7,199.04	27.02	14.85	89.80	-883.31	-749.20	1,261.30	1,219.64	41.66	30.277		
8,600.00	7,236.89	7,198.82	7,197.86	27.39	14.85	89.75	-883.30	-749.20	1,261.57	1,219.55	42.02	30.025		
8,700.00	7,234.76	7,197.70	7,196.74	28.85	14.85	89.70	-883.28	-749.19	1,267.59	1,224.03	43.57	29.095		
8,800.00	7,232.63	7,196.57	7,195.61	30.36	14.85	89.64	-883.27	-749.19	1,281.41	1,236.25	45.17	28.371		
8,900.00	7,230.50	7,195.44	7,194.49	31.91	14.85	89.59	-883.26	-749.18	1,302.78	1,255.98	46.81	27.832		
9,000.00	7,228.38	7,194.32	7,193.36	33.49	14.84	89.54	-883.25	-749.18	1,331.34	1,282.85	48.49	27.457		
9,100.00	7,226.25	7,193.19	7,192.23	35.11	14.84	89.49	-883.24	-749.17	1,366.64	1,316.44	50.20	27.225		
9,200.00	7,224.12	7,192.05	7,191.09	36.75	14.84	89.44	-883.23	-749.17	1,408.16	1,356.22	51.94	27.113		
9,300.00	7,221.99	7,190.92	7,189.96	38.41	14.84	89.39	-883.22	-749.16	1,455.38	1,401.68	53.70	27.103 SF		
9,400.00	7,219.86	7,189.78	7,188.82	40.10	14.84	89.34	-883.21	-749.16	1,507.76	1,452.28	55.48	27.177		
9,500.00	7,217.74	7,188.65	7,187.69	41.80	14.83	89.28	-883.20	-749.15	1,564.79	1,507.51	57.28	27.318		
9,600.00	7,215.61	7,187.51	7,186.55	43.53	14.83	89.23	-883.18	-749.15	1,625.97	1,566.87	59.10	27.514		
9,700.00	7,213.48	7,186.36	7,185.41	45.26	14.83	89.18	-883.17	-749.14	1,690.85	1,629.93	60.93	27.753		
9,800.00	7,211.35	7,185.22	7,184.26	47.01	14.83	89.13	-883.16	-749.14	1,759.03	1,696.26	62.77	28.024		
9,900.00	7,209.22	7,184.08	7,183.12	48.77	14.83	89.08	-883.15	-749.14	1,830.13	1,765.51	64.62	28.321		
10,000.00	7,207.10	7,182.93	7,181.97	50.54	14.82	89.02	-883.14	-749.13	1,903.83	1,837.35	66.48	28.636		
10,100.00	7,204.97	7,181.78	7,180.82	52.32	14.82	88.97	-883.13	-749.13	1,979.84	1,911.49	68.36	28.964		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - CAMP LEWIS C 1 offset - CAMP LEWIS C 1 - CAMP LEWIS C 1												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,180.63	7,179.67	54.11	14.82	88.92	-883.12	-749.12	2,057.90	1,987.67	70.24	29.300	
10,300.00	7,200.71	7,179.48	7,178.52	55.91	14.82	88.87	-883.11	-749.12	2,137.79	2,065.67	72.12	29.641	
10,400.00	7,198.59	7,178.33	7,177.37	57.72	14.82	88.82	-883.10	-749.11	2,219.31	2,145.30	74.02	29.984	
10,500.00	7,196.46	7,177.17	7,176.21	59.53	14.81	88.76	-883.08	-749.11	2,302.29	2,226.37	75.92	30.327	
10,600.00	7,194.33	7,176.01	7,175.05	61.34	14.81	88.71	-883.07	-749.10	2,386.57	2,308.75	77.82	30.668	
10,700.00	7,192.20	7,174.85	7,173.89	63.17	14.81	88.66	-883.06	-749.10	2,472.02	2,392.29	79.73	31.005	
10,800.00	7,190.07	7,173.69	7,172.73	64.99	14.81	88.61	-883.05	-749.10	2,558.53	2,476.89	81.64	31.338	
10,900.00	7,187.95	7,172.53	7,171.57	66.83	14.81	88.55	-883.04	-749.09	2,645.99	2,562.43	83.56	31.665	
11,000.00	7,185.82	7,171.36	7,170.41	68.66	14.80	88.50	-883.03	-749.09	2,734.30	2,648.82	85.48	31.987	
11,100.00	7,183.69	7,170.20	7,169.24	70.50	14.80	88.45	-883.02	-749.08	2,823.40	2,735.99	87.41	32.302	
11,200.00	7,181.56	7,169.03	7,168.07	72.35	14.80	88.39	-883.01	-749.08	2,913.20	2,823.87	89.33	32.610	
11,300.00	7,179.44	7,167.86	7,166.90	74.19	14.80	88.34	-883.00	-749.07	3,003.65	2,912.39	91.27	32.911	
11,400.00	7,177.31	7,166.69	7,165.73	76.04	14.80	88.29	-882.98	-749.07	3,094.69	3,001.49	93.20	33.205	
11,500.00	7,175.18	7,165.51	7,164.55	77.90	14.79	88.23	-882.97	-749.07	3,186.26	3,091.12	95.13	33.492	
11,600.00	7,173.05	7,164.34	7,163.38	79.75	14.79	88.18	-882.96	-749.06	3,278.32	3,181.25	97.07	33.772	
11,700.00	7,170.92	7,163.16	7,162.20	81.61	14.79	88.13	-882.95	-749.06	3,370.84	3,271.83	99.01	34.045	
11,800.00	7,168.80	7,161.98	7,161.02	83.47	14.79	88.07	-882.94	-749.05	3,463.77	3,362.82	100.95	34.311	
11,837.41	7,168.00	7,161.54	7,160.58	84.17	14.79	88.05	-882.94	-749.05	3,498.64	3,396.96	101.68	34.408	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR-BEIERIE 14-26													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-145.98	-3,443.47	-2,324.03	4,154.55					
100.00	100.00	179.17	179.10	0.08	0.30	-145.95	-3,438.97	-2,324.03	4,152.35	4,151.98	0.38	N/A		
200.00	200.00	279.11	278.98	0.31	0.53	-145.92	-3,435.48	-2,324.03	4,149.46	4,148.63	0.83	5,015.748		
300.00	300.00	379.05	378.86	0.53	0.76	-145.90	-3,431.99	-2,324.03	4,146.57	4,145.29	1.28	3,243.906		
400.00	400.00	478.98	478.73	0.76	0.99	-145.87	-3,428.50	-2,324.03	4,143.68	4,141.95	1.73	2,396.111		
500.00	500.00	578.92	578.61	0.98	1.23	-145.84	-3,425.01	-2,324.03	4,140.79	4,138.61	2.18	1,899.010		
600.00	600.00	678.86	678.49	1.21	1.46	-145.81	-3,421.53	-2,324.03	4,137.90	4,135.27	2.63	1,572.297		
700.00	700.00	778.80	778.37	1.43	1.69	-145.79	-3,418.04	-2,324.03	4,135.02	4,131.93	3.08	1,341.184		
800.00	800.00	878.74	878.25	1.66	1.92	-145.76	-3,414.55	-2,324.03	4,132.13	4,128.60	3.53	1,169.067		
900.00	900.00	978.68	978.12	1.88	2.15	-145.73	-3,411.06	-2,324.03	4,129.24	4,125.26	3.99	1,035.914		
1,000.00	1,000.00	1,078.62	1,078.00	2.11	2.38	-145.71	-3,407.57	-2,324.03	4,126.36	4,121.92	4.44	929.838		
1,100.00	1,100.00	1,178.56	1,177.88	2.33	2.62	-145.68	-3,404.09	-2,324.03	4,123.48	4,118.59	4.89	843.343		
1,200.00	1,200.00	1,278.50	1,277.76	2.56	2.85	-145.65	-3,400.60	-2,324.03	4,120.59	4,115.25	5.34	771.465		
1,300.00	1,300.00	1,378.44	1,377.64	2.78	3.08	-145.62	-3,397.11	-2,324.03	4,117.71	4,111.92	5.79	710.787		
1,382.58	1,382.56	1,460.98	1,460.13	2.97	3.27	178.00	-3,394.23	-2,324.03	4,116.52	4,110.33	6.19	665.169		
1,400.00	1,399.98	1,478.40	1,477.54	3.00	3.31	178.00	-3,393.62	-2,324.03	4,116.58	4,110.31	6.27	656.946		
1,500.00	1,499.84	1,578.35	1,577.43	3.23	3.54	178.03	-3,390.13	-2,324.03	4,118.93	4,112.22	6.70	614.438		
1,600.00	1,599.45	1,678.15	1,677.17	3.45	3.77	178.06	-3,386.65	-2,324.03	4,124.77	4,117.63	7.13	578.247		
1,700.00	1,698.70	1,777.68	1,776.64	3.69	4.01	178.08	-3,383.18	-2,324.03	4,134.09	4,126.53	7.56	546.979		
1,800.00	1,797.61	1,876.94	1,875.84	3.95	4.24	178.12	-3,379.71	-2,324.03	4,145.93	4,137.93	8.00	518.158		
1,900.00	1,896.51	1,976.20	1,975.03	4.22	4.47	178.15	-3,376.25	-2,324.03	4,157.90	4,149.44	8.46	491.761		
2,000.00	1,995.40	2,075.45	2,074.22	4.51	4.70	178.18	-3,372.79	-2,324.03	4,169.87	4,160.96	8.91	467.940		
2,100.00	2,094.30	2,174.70	2,173.41	4.80	4.93	178.22	-3,369.32	-2,324.03	4,181.84	4,172.47	9.37	446.351		
2,200.00	2,193.19	2,273.95	2,272.60	5.10	5.16	178.25	-3,365.86	-2,324.03	4,193.81	4,183.98	9.83	426.705		
2,300.00	2,292.09	2,373.20	2,371.79	5.41	5.39	178.28	-3,362.39	-2,324.03	4,205.78	4,195.49	10.29	408.761		
2,400.00	2,390.98	2,472.45	2,470.99	5.72	5.62	178.32	-3,358.93	-2,324.03	4,217.76	4,207.00	10.75	392.313		
2,500.00	2,489.88	2,571.70	2,570.18	6.04	5.85	178.35	-3,355.47	-2,324.03	4,229.73	4,218.52	11.21	377.185		
2,600.00	2,588.77	2,670.95	2,669.37	6.36	6.08	178.38	-3,352.00	-2,324.03	4,241.71	4,230.03	11.68	363.230		
2,700.00	2,687.67	2,770.21	2,768.56	6.68	6.31	178.42	-3,348.54	-2,324.02	4,253.69	4,241.54	12.14	350.319		
2,800.00	2,786.56	2,869.46	2,867.75	7.01	6.54	178.45	-3,345.08	-2,324.02	4,265.67	4,253.06	12.61	338.340		
2,900.00	2,885.46	2,968.71	2,966.94	7.34	6.77	178.48	-3,341.61	-2,324.02	4,277.65	4,264.57	13.07	327.200		
3,000.00	2,984.36	3,067.96	3,066.13	7.67	7.00	178.51	-3,338.15	-2,324.02	4,289.63	4,276.09	13.54	316.813		
3,100.00	3,083.25	3,167.21	3,165.32	8.00	7.23	178.54	-3,334.68	-2,324.02	4,301.61	4,287.61	14.01	307.107		
3,200.00	3,182.15	3,266.46	3,264.51	8.34	7.46	178.57	-3,331.22	-2,324.02	4,313.60	4,299.12	14.47	298.019		
3,300.00	3,281.04	3,365.71	3,363.70	8.67	7.69	178.61	-3,327.76	-2,324.02	4,325.58	4,310.64	14.94	289.492		
3,400.00	3,379.94	3,464.96	3,462.89	9.01	7.92	178.64	-3,324.29	-2,324.02	4,337.57	4,322.16	15.41	281.476		
3,500.00	3,478.83	3,564.22	3,562.08	9.35	8.15	178.67	-3,320.83	-2,324.02	4,349.56	4,333.68	15.88	273.927		
3,600.00	3,577.73	3,663.47	3,661.28	9.69	8.38	178.70	-3,317.37	-2,324.02	4,361.55	4,345.20	16.35	266.806		
3,700.00	3,676.62	3,762.72	3,760.47	10.03	8.61	178.73	-3,313.90	-2,324.02	4,373.54	4,356.72	16.82	260.078		
3,800.00	3,775.52	3,861.97	3,859.66	10.37	8.84	178.76	-3,310.44	-2,324.02	4,385.53	4,368.25	17.29	253.712		
3,900.00	3,874.41	3,961.22	3,958.85	10.72	9.07	178.79	-3,306.97	-2,324.02	4,397.53	4,379.77	17.75	247.679		
4,000.00	3,973.31	4,060.47	4,058.04	11.06	9.30	178.82	-3,303.51	-2,324.02	4,409.52	4,391.30	18.22	241.954		
4,100.00	4,072.20	4,159.72	4,157.23	11.40	9.53	178.85	-3,300.05	-2,324.02	4,421.52	4,402.82	18.69	236.514		
4,200.00	4,171.10	4,258.97	4,256.42	11.75	9.76	178.88	-3,296.58	-2,324.02	4,433.51	4,414.35	19.16	231.339		
4,300.00	4,269.99	4,358.23	4,355.61	12.09	9.99	178.91	-3,293.12	-2,324.02	4,445.51	4,425.88	19.63	226.410		
4,400.00	4,368.89	4,457.48	4,454.80	12.44	10.22	178.94	-3,289.65	-2,324.02	4,457.51	4,437.41	20.11	221.710		
4,500.00	4,467.78	4,556.73	4,553.99	12.78	10.45	178.97	-3,286.19	-2,324.02	4,469.51	4,448.94	20.58	217.224		
4,600.00	4,566.68	4,655.98	4,653.18	13.13	10.68	179.00	-3,282.73	-2,324.02	4,481.52	4,460.47	21.05	212.937		
4,700.00	4,665.57	4,755.23	4,752.37	13.48	10.91	179.03	-3,279.26	-2,324.02	4,493.52	4,472.00	21.52	208.836		
4,800.00	4,764.47	4,854.48	4,851.57	13.82	11.14	179.06	-3,275.80	-2,324.02	4,505.52	4,483.53	21.99	204.910		
4,900.00	4,863.36	4,953.73	4,950.76	14.17	11.37	179.09	-3,272.34	-2,324.02	4,517.53	4,495.07	22.46	201.147		
5,000.00	4,962.26	5,052.98	5,049.95	14.52	11.60	179.11	-3,268.87	-2,324.02	4,529.53	4,506.60	22.93	197.539		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR-BEIERIE 14-26													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,152.24	5,149.14	14.87	11.83	179.14	-3,265.41	-2,324.02	4,541.54	4,518.14	23.40	194.074		
5,200.00	5,160.05	5,251.49	5,248.33	15.21	12.06	179.17	-3,261.94	-2,324.02	4,553.55	4,529.68	23.87	190.746		
5,300.00	5,258.94	5,350.74	5,347.52	15.56	12.29	179.20	-3,258.48	-2,324.02	4,565.56	4,541.22	24.34	187.547		
5,400.00	5,357.84	5,449.99	5,446.71	15.91	12.52	179.23	-3,255.02	-2,324.02	4,577.57	4,552.76	24.82	184.468		
5,500.00	5,456.73	5,549.24	5,545.90	16.26	12.75	179.25	-3,251.55	-2,324.02	4,589.58	4,564.30	25.29	181.503		
5,600.00	5,555.63	5,648.49	5,645.09	16.61	12.98	179.28	-3,248.09	-2,324.02	4,601.60	4,575.84	25.76	178.647		
5,700.00	5,654.52	5,747.74	5,744.28	16.96	13.21	179.31	-3,244.62	-2,324.02	4,613.61	4,587.38	26.23	175.893		
5,800.00	5,753.42	5,846.99	5,843.47	17.31	13.44	179.34	-3,241.16	-2,324.01	4,625.62	4,598.92	26.70	173.236		
5,900.00	5,852.31	5,946.25	5,942.66	17.66	13.67	179.36	-3,237.70	-2,324.01	4,637.64	4,610.47	27.17	170.670		
6,000.00	5,951.21	6,045.50	6,041.85	18.01	13.90	179.39	-3,234.23	-2,324.01	4,649.66	4,622.01	27.64	168.192		
6,100.00	6,050.10	6,144.75	6,141.05	18.36	14.13	179.42	-3,230.77	-2,324.01	4,661.68	4,633.56	28.12	165.797		
6,200.00	6,149.00	6,244.00	6,240.24	18.71	14.36	179.45	-3,227.31	-2,324.01	4,673.70	4,645.11	28.59	163.481		
6,300.00	6,247.89	6,343.25	6,339.43	19.06	14.59	179.47	-3,223.84	-2,324.01	4,685.72	4,656.65	29.06	161.240		
6,400.00	6,346.79	6,442.50	6,438.62	19.41	14.82	179.50	-3,220.38	-2,324.01	4,697.74	4,668.20	29.53	159.070		
6,500.00	6,445.68	6,541.75	6,537.81	19.76	15.05	179.53	-3,216.91	-2,324.01	4,709.76	4,679.75	30.00	156.968		
6,600.00	6,544.58	6,641.00	6,637.00	20.11	15.28	179.55	-3,213.45	-2,324.01	4,721.78	4,691.31	30.48	154.931		
6,700.00	6,643.53	6,740.29	6,736.23	20.44	15.51	166.35	-3,209.99	-2,324.01	4,733.36	4,702.36	31.00	152.685		
6,800.00	6,743.00	6,839.66	6,835.54	20.62	15.74	78.23	-3,206.52	-2,324.01	4,734.81	4,703.54	31.27	151.438		
6,900.00	6,840.75	6,936.71	6,932.52	20.64	15.97	55.51	-3,203.13	-2,324.01	4,722.30	4,691.35	30.95	152.569		
7,000.00	6,933.82	7,028.48	7,024.24	20.54	16.18	50.91	-3,199.93	-2,324.01	4,696.33	4,666.09	30.24	155.324		
7,100.00	7,019.36	7,112.20	7,107.91	20.31	16.37	51.18	-3,197.01	-2,324.01	4,657.87	4,628.41	29.46	158.111		
7,200.00	7,094.79	7,185.31	7,180.97	20.01	16.54	54.18	-3,194.45	-2,324.01	4,608.29	4,579.18	29.10	158.344		
7,300.00	7,157.81	7,245.59	7,241.22	19.66	16.68	59.47	-3,192.35	-2,324.01	4,549.32	4,519.70	29.62	153.611		
7,400.00	7,206.51	7,291.22	7,286.82	19.29	16.79	66.97	-3,190.76	-2,324.01	4,482.97	4,451.90	31.07	144.264		
7,500.00	7,239.40	7,320.81	7,316.39	18.94	16.86	76.50	-3,189.73	-2,324.01	4,411.45	4,378.52	32.93	133.969		
7,600.00	7,255.49	7,335.45	7,329.02	18.63	16.89	87.41	-3,189.28	-2,324.01	4,337.06	4,302.80	34.25	126.613		
7,700.00	7,256.04	7,330.51	7,326.08	18.39	16.88	93.60	-3,189.39	-2,324.01	4,262.12	4,227.48	34.64	123.023		
7,800.00	7,253.91	7,324.89	7,320.47	18.51	16.87	93.49	-3,189.58	-2,324.01	4,188.12	4,153.06	35.06	119.472		
7,900.00	7,251.78	7,319.27	7,314.86	19.20	16.85	93.38	-3,189.78	-2,324.01	4,115.21	4,079.56	35.65	115.435		
8,000.00	7,249.65	7,313.66	7,309.24	20.08	16.84	93.27	-3,189.98	-2,324.01	4,043.45	4,007.04	36.41	111.047		
8,100.00	7,247.53	7,308.04	7,303.63	21.07	16.83	93.15	-3,190.17	-2,324.01	3,972.90	3,935.49	37.41	106.196		
8,200.00	7,245.40	7,302.43	7,298.02	22.17	16.81	93.04	-3,190.37	-2,324.01	3,903.64	3,865.10	38.54	101.288		
8,300.00	7,243.27	7,296.81	7,292.41	23.36	16.80	92.93	-3,190.56	-2,324.01	3,835.72	3,795.94	39.78	96.423		
8,400.00	7,241.14	7,291.20	7,286.79	24.64	16.79	92.81	-3,190.76	-2,324.01	3,769.22	3,728.10	41.12	91.673		
8,500.00	7,239.01	7,285.58	7,281.18	25.98	16.77	92.70	-3,190.96	-2,324.01	3,704.22	3,661.68	42.53	87.091		
8,600.00	7,236.89	7,279.96	7,275.57	27.39	16.76	92.59	-3,191.15	-2,324.01	3,640.79	3,596.78	44.02	82.710		
8,700.00	7,234.76	7,274.35	7,269.96	28.85	16.75	92.48	-3,191.35	-2,324.01	3,579.03	3,533.47	45.56	78.551		
8,800.00	7,232.63	7,268.73	7,264.35	30.36	16.74	92.36	-3,191.54	-2,324.01	3,519.02	3,471.86	47.16	74.622		
8,900.00	7,230.50	7,263.12	7,258.73	31.91	16.72	92.25	-3,191.74	-2,324.01	3,460.85	3,412.05	48.80	70.926		
9,000.00	7,228.38	7,257.50	7,253.12	33.49	16.71	92.14	-3,191.94	-2,324.01	3,404.61	3,354.14	50.47	67.459		
9,100.00	7,226.25	7,251.89	7,247.51	35.11	16.70	92.02	-3,192.13	-2,324.01	3,350.41	3,298.23	52.18	64.214		
9,200.00	7,224.12	7,246.27	7,241.90	36.75	16.68	91.91	-3,192.33	-2,324.01	3,298.34	3,244.43	53.91	61.184		
9,300.00	7,221.99	7,240.65	7,236.28	38.41	16.67	91.80	-3,192.52	-2,324.01	3,248.50	3,192.83	55.67	58.358		
9,400.00	7,219.86	7,235.04	7,230.67	40.10	16.66	91.68	-3,192.72	-2,324.01	3,201.00	3,143.56	57.44	55.725		
9,500.00	7,217.74	7,229.42	7,225.06	41.80	16.64	91.57	-3,192.91	-2,324.01	3,155.94	3,096.71	59.24	53.275		
9,600.00	7,215.61	7,223.81	7,219.45	43.53	16.63	91.46	-3,193.11	-2,324.01	3,113.44	3,052.39	61.05	50.998		
9,700.00	7,213.48	7,218.19	7,213.84	45.26	16.62	91.34	-3,193.31	-2,324.01	3,073.59	3,010.72	62.88	48.884		
9,800.00	7,211.35	7,212.58	7,208.22	47.01	16.61	91.23	-3,193.50	-2,324.01	3,036.51	2,971.79	64.71	46.922		
9,900.00	7,209.22	7,206.96	7,202.61	48.77	16.59	91.12	-3,193.70	-2,324.01	3,002.29	2,935.72	66.56	45.105		
10,000.00	7,207.10	7,201.34	7,197.00	50.54	16.58	91.00	-3,193.89	-2,324.01	2,971.03	2,902.60	68.42	43.423		
10,100.00	7,204.97	7,195.73	7,191.39	52.32	16.57	90.89	-3,194.09	-2,324.01	2,942.82	2,872.53	70.29	41.867		
10,200.00	7,202.84	7,190.11	7,185.77	54.11	16.55	90.78	-3,194.29	-2,324.01	2,917.77	2,845.60	72.16	40.432		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-BEIERIE 14-26 offset - HSR-BEIERIE 14-26 - HSR-BEIERIE 14-26												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.00	7,200.71	7,184.50	7,180.16	55.91	16.54	90.66	-3,194.48	-2,324.01	2,895.94	2,821.89	74.05	39.109	
10,400.00	7,198.59	7,178.88	7,174.55	57.72	16.53	90.55	-3,194.68	-2,324.01	2,877.41	2,801.47	75.94	37.892	
10,500.00	7,196.46	7,173.27	7,168.94	59.53	16.51	90.44	-3,194.87	-2,324.01	2,862.24	2,784.41	77.83	36.775	
10,600.00	7,194.33	7,167.65	7,163.32	61.34	16.50	90.32	-3,195.07	-2,324.01	2,850.50	2,770.77	79.73	35.751	
10,700.00	7,192.20	7,162.04	7,157.71	63.17	16.49	90.21	-3,195.27	-2,324.01	2,842.21	2,760.58	81.64	34.816	
10,800.00	7,190.07	7,156.42	7,152.10	64.99	16.48	90.10	-3,195.46	-2,324.01	2,837.42	2,753.87	83.54	33.963	
10,886.57	7,188.23	7,151.56	7,147.24	66.58	16.46	90.00	-3,195.63	-2,324.01	2,836.10	2,750.89	85.21	33.283 CC	
10,900.00	7,187.95	7,150.80	7,146.49	66.83	16.46	89.98	-3,195.66	-2,324.01	2,836.13	2,750.68	85.46	33.188 ES	
11,000.00	7,185.82	7,145.19	7,140.88	68.66	16.45	89.87	-3,195.85	-2,324.01	2,838.36	2,750.99	87.37	32.485	
11,100.00	7,183.69	7,139.57	7,135.26	70.50	16.44	89.76	-3,196.05	-2,324.01	2,844.09	2,754.80	89.29	31.851	
11,200.00	7,181.56	7,133.96	7,129.65	72.35	16.42	89.65	-3,196.25	-2,324.01	2,853.31	2,762.10	91.22	31.281	
11,300.00	7,179.44	7,128.34	7,124.04	74.19	16.41	89.53	-3,196.44	-2,324.01	2,865.98	2,772.84	93.14	30.771	
11,400.00	7,177.31	7,122.73	7,118.43	76.04	16.40	89.42	-3,196.64	-2,324.01	2,882.06	2,786.99	95.07	30.316	
11,500.00	7,175.18	7,117.11	7,112.81	77.90	16.38	89.31	-3,196.83	-2,324.01	2,901.48	2,804.48	97.00	29.913	
11,600.00	7,173.05	7,111.49	7,107.20	79.75	16.37	89.19	-3,197.03	-2,324.01	2,924.18	2,825.25	98.93	29.559	
11,700.00	7,170.92	7,105.88	7,101.59	81.61	16.36	89.08	-3,197.23	-2,324.01	2,950.09	2,849.23	100.86	29.249	
11,800.00	7,168.80	7,100.26	7,095.98	83.47	16.35	88.97	-3,197.42	-2,324.01	2,979.13	2,876.33	102.80	28.981	
11,837.41	7,168.00	7,098.16	7,093.88	84.17	16.34	88.92	-3,197.50	-2,324.01	2,990.77	2,887.25	103.52	28.891 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	91.23	-4.74	221.23	223.17					
100.00	100.00	71.11	71.11	0.08	0.09	91.16	-4.48	221.21	221.26	221.08	0.18	1,237.484		
154.06	154.06	125.07	125.06	0.21	0.20	91.03	-3.99	221.20	221.23	220.83	0.40	546.635		
200.00	200.00	170.72	170.72	0.31	0.32	90.92	-3.53	221.23	221.26	220.63	0.63	352.137		
300.00	300.00	270.23	270.22	0.53	0.58	90.68	-2.62	221.49	221.51	220.40	1.11	199.194		
400.00	400.00	370.48	370.47	0.76	0.84	90.51	-1.97	221.84	221.85	220.26	1.60	138.874		
500.00	500.00	470.64	470.63	0.98	1.10	90.37	-1.42	222.03	222.03	219.94	2.09	106.439		
600.00	600.00	571.41	571.40	1.21	1.35	90.17	-0.65	222.08	222.08	219.52	2.56	86.896		
700.00	700.00	671.77	671.75	1.43	1.58	90.05	-0.20	221.77	221.77	218.76	3.01	73.661		
800.00	800.00	771.50	771.48	1.66	1.82	89.91	0.36	221.47	221.47	218.00	3.48	63.688		
900.00	900.00	871.58	871.56	1.88	2.07	89.80	0.77	221.27	221.27	217.32	3.95	55.968		
1,000.00	1,000.00	972.01	971.98	2.11	2.32	89.67	1.29	220.93	220.93	216.51	4.43	49.917		
1,100.00	1,100.00	1,071.78	1,071.75	2.33	2.52	89.56	1.69	220.49	220.49	215.64	4.86	45.410		
1,200.00	1,200.00	1,172.86	1,172.84	2.56	2.69	89.57	1.65	220.00	220.01	214.77	5.24	41.966		
1,300.00	1,300.00	1,272.33	1,272.30	2.78	2.86	89.59	1.58	219.15	219.16	213.52	5.64	38.827		
1,400.00	1,399.98	1,371.84	1,371.81	3.00	3.05	53.55	1.65	218.72	217.69	211.64	6.05	35.968		
1,500.00	1,499.84	1,472.85	1,472.82	3.23	3.22	54.81	1.44	218.14	214.05	207.62	6.44	33.263		
1,600.00	1,599.45	1,572.76	1,572.72	3.45	3.39	56.99	1.02	217.04	208.07	201.24	6.82	30.496		
1,700.00	1,698.70	1,670.51	1,670.47	3.69	3.60	60.04	0.83	216.22	200.84	193.58	7.26	27.674		
1,800.00	1,797.61	1,769.62	1,769.57	3.95	3.84	63.81	0.91	215.95	193.58	185.83	7.75	24.980		
1,900.00	1,896.51	1,868.59	1,868.54	4.22	4.08	67.82	1.13	215.39	186.84	178.58	8.27	22.601		
2,000.00	1,995.40	1,966.58	1,966.53	4.51	4.28	71.98	1.53	215.13	181.32	172.57	8.76	20.705		
2,100.00	2,094.30	2,065.28	2,065.23	4.80	4.40	76.49	1.49	215.19	177.32	168.14	9.19	19.301		
2,200.00	2,193.19	2,165.23	2,165.18	5.10	4.54	81.41	1.08	214.80	174.27	164.62	9.65	18.066		
2,300.00	2,292.09	2,264.46	2,264.41	5.41	4.73	86.43	1.00	213.85	171.89	161.72	10.17	16.900		
2,400.00	2,390.98	2,363.16	2,363.10	5.72	4.94	91.59	0.74	212.83	170.92	160.21	10.71	15.963		
2,416.30	2,407.10	2,379.24	2,379.18	5.77	4.97	92.44	0.68	212.64	170.90	160.10	10.80	15.825 CC, ES		
2,500.00	2,489.88	2,462.04	2,461.97	6.04	5.14	96.92	0.16	211.50	171.39	160.16	11.23	15.260		
2,600.00	2,588.77	2,561.11	2,561.02	6.36	5.35	102.33	-0.64	209.75	173.24	161.49	11.76	14.735		
2,700.00	2,687.67	2,659.71	2,659.61	6.68	5.55	107.22	-0.58	208.71	176.36	164.09	12.27	14.376		
2,800.00	2,786.56	2,757.66	2,757.56	7.01	5.70	111.45	-0.04	208.99	181.02	168.31	12.71	14.239		
2,900.00	2,885.46	2,856.52	2,856.41	7.34	5.81	115.35	0.31	209.90	187.11	174.00	13.11	14.274		
3,000.00	2,984.36	2,955.51	2,955.41	7.67	5.92	119.10	0.65	210.41	193.88	180.39	13.49	14.373		
3,100.00	3,083.25	3,054.54	3,054.43	8.00	6.05	122.65	0.79	210.77	201.56	187.67	13.89	14.514		
3,200.00	3,182.15	3,153.43	3,153.32	8.34	6.23	126.02	0.96	210.78	209.83	195.51	14.32	14.653		
3,300.00	3,281.04	3,252.10	3,251.99	8.67	6.40	129.16	0.91	210.65	218.95	204.21	14.73	14.861		
3,400.00	3,379.94	3,351.11	3,351.00	9.01	6.55	132.03	0.92	210.63	228.65	213.53	15.12	15.120		
3,500.00	3,478.83	3,450.40	3,450.29	9.35	6.74	134.84	0.87	209.92	238.83	223.29	15.54	15.367		
3,600.00	3,577.73	3,549.60	3,549.47	9.69	6.96	137.61	0.96	208.35	249.31	233.32	15.99	15.595		
3,700.00	3,676.62	3,648.78	3,648.64	10.03	7.19	140.16	1.15	206.73	260.22	243.78	16.43	15.833		
3,800.00	3,775.52	3,748.29	3,748.13	10.37	7.43	142.58	1.58	204.75	271.35	254.47	16.89	16.070		
3,900.00	3,874.41	3,848.31	3,848.11	10.72	7.68	144.97	2.33	202.01	282.63	265.30	17.34	16.303		
4,000.00	3,973.31	3,948.55	3,948.32	11.06	7.93	147.13	3.65	199.57	293.77	275.98	17.79	16.510		
4,100.00	4,072.20	4,046.31	4,046.03	11.40	8.17	149.09	5.15	197.17	305.09	286.84	18.25	16.720		
4,200.00	4,171.10	4,143.42	4,143.08	11.75	8.41	151.05	6.00	193.81	317.51	298.82	18.69	16.988		
4,300.00	4,269.99	4,241.55	4,241.14	12.09	8.66	152.94	6.83	190.15	330.35	311.22	19.13	17.267		
4,400.00	4,368.89	4,337.73	4,337.24	12.44	8.89	154.66	7.19	186.41	344.02	324.45	19.57	17.581		
4,500.00	4,467.78	4,434.30	4,433.74	12.78	9.11	156.22	6.83	182.70	358.69	338.69	20.00	17.934		
4,600.00	4,566.68	4,532.76	4,532.12	13.13	9.34	157.71	6.31	178.73	373.81	353.38	20.44	18.292		
4,700.00	4,665.57	4,631.21	4,630.50	13.48	9.57	159.07	5.82	174.94	389.08	368.21	20.88	18.638		
4,800.00	4,764.47	4,729.64	4,728.85	13.82	9.81	160.33	5.23	171.03	404.68	383.37	21.32	18.983		
4,900.00	4,863.36	4,829.56	4,828.69	14.17	10.05	161.53	5.03	167.06	420.09	398.32	21.77	19.296		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	4,926.44	4,925.49	14.52	10.28	162.63	4.80	163.06	435.75	413.53	22.22	19.611		
5,100.00	5,061.15	5,022.41	5,021.37	14.87	10.51	163.63	4.13	159.12	451.98	429.31	22.66	19.942		
5,200.00	5,160.05	5,117.30	5,116.17	15.21	10.72	164.51	2.73	155.25	469.03	445.92	23.10	20.303		
5,300.00	5,258.94	5,214.98	5,213.75	15.56	10.94	165.35	0.86	151.11	486.66	463.12	23.54	20.674		
5,400.00	5,357.84	5,318.15	5,316.83	15.91	11.18	166.13	-0.70	147.42	503.76	479.76	24.00	20.994		
5,500.00	5,456.73	5,415.90	5,414.53	16.26	11.40	166.79	-1.97	144.26	520.61	496.17	24.45	21.297		
5,600.00	5,555.63	5,514.35	5,512.92	16.61	11.62	167.36	-3.50	141.45	537.61	512.71	24.89	21.596		
5,700.00	5,654.52	5,614.24	5,612.77	16.96	11.84	167.90	-4.91	138.73	554.48	529.13	25.35	21.875		
5,800.00	5,753.42	5,712.90	5,711.38	17.31	12.07	168.43	-6.06	135.86	571.24	545.44	25.81	22.135		
5,900.00	5,852.31	5,810.36	5,808.79	17.66	12.30	168.94	-7.18	132.82	588.12	561.85	26.27	22.388		
6,000.00	5,951.21	5,905.72	5,904.08	18.01	12.53	169.44	-8.45	129.49	605.37	578.65	26.73	22.651		
6,100.00	6,050.10	6,000.00	5,998.26	18.36	12.75	169.96	-10.00	125.37	623.33	596.15	27.18	22.933		
6,200.00	6,149.00	6,101.30	6,099.42	18.71	13.00	170.56	-11.41	120.24	641.43	613.77	27.66	23.194		
6,300.00	6,247.89	6,207.77	6,205.77	19.06	13.27	171.16	-11.85	115.23	658.57	630.42	28.15	23.394		
6,400.00	6,346.79	6,302.74	6,300.67	19.41	13.51	171.62	-12.30	111.49	675.47	646.84	28.62	23.599		
6,500.00	6,445.68	6,398.26	6,396.12	19.76	13.75	171.98	-13.53	108.22	692.86	663.77	29.09	23.820		
6,600.00	6,544.58	6,501.80	6,499.61	20.11	13.99	172.33	-14.91	105.11	710.13	680.56	29.57	24.015		
6,700.00	6,643.53	6,604.85	6,602.62	20.44	14.23	159.36	-16.04	103.02	726.27	696.23	30.03	24.183		
6,800.00	6,743.00	6,707.03	6,704.79	20.62	14.45	71.69	-17.05	101.75	731.07	700.77	30.29	24.132		
6,900.00	6,840.75	6,812.68	6,810.44	20.64	14.62	49.98	-17.57	101.24	720.20	690.36	29.84	24.132		
7,000.00	6,933.82	6,906.53	6,904.28	20.54	14.70	46.86	-17.98	101.67	694.91	666.00	28.91	24.036		
7,100.00	7,019.36	6,989.94	6,987.69	20.31	14.75	49.22	-18.68	102.33	657.59	629.52	28.07	23.431		
7,200.00	7,094.79	7,069.63	7,067.37	20.01	14.79	55.48	-19.35	103.02	610.68	582.61	28.07	21.755		
7,300.00	7,157.81	7,133.07	7,130.81	19.66	14.82	64.37	-19.56	103.65	557.69	528.50	29.19	19.106		
7,400.00	7,206.51	7,180.79	7,178.53	19.29	14.85	74.36	-19.97	104.17	504.16	473.40	30.76	16.390		
7,500.00	7,239.40	7,214.40	7,212.13	18.94	14.87	83.42	-20.41	104.55	456.44	424.58	31.86	14.326		
7,600.00	7,255.49	7,231.82	7,229.55	18.63	14.88	89.30	-20.65	104.75	421.94	389.63	32.31	13.058		
7,700.00	7,256.04	7,233.72	7,231.44	18.39	14.88	90.65	-20.67	104.77	407.49	374.91	32.58	12.508		
7,710.79	7,255.81	7,233.63	7,231.36	18.36	14.88	90.64	-20.67	104.77	407.35	374.73	32.62	12.487 SF		
7,800.00	7,253.91	7,232.94	7,230.67	18.51	14.88	90.54	-20.66	104.76	417.00	384.01	32.99	12.639		
7,900.00	7,251.78	7,232.18	7,229.90	19.20	14.88	90.44	-20.65	104.75	449.14	415.55	33.59	13.371		
8,000.00	7,249.65	7,231.41	7,229.13	20.08	14.88	90.33	-20.64	104.74	499.57	465.14	34.43	14.511		
8,100.00	7,247.53	7,230.64	7,228.37	21.07	14.88	90.22	-20.63	104.73	563.39	527.97	35.42	15.906		
8,200.00	7,245.40	7,229.88	7,227.60	22.17	14.88	90.11	-20.62	104.72	636.58	600.04	36.54	17.420		
8,300.00	7,243.27	7,229.11	7,226.84	23.36	14.88	90.00	-20.61	104.72	716.29	678.51	37.78	18.960		
8,400.00	7,241.14	7,228.35	7,226.08	24.64	14.88	89.90	-20.60	104.71	800.57	761.46	39.11	20.469		
8,500.00	7,239.01	7,227.59	7,225.32	25.98	14.88	89.79	-20.59	104.70	888.11	847.59	40.52	21.915		
8,600.00	7,236.89	7,226.83	7,224.56	27.39	14.88	89.68	-20.58	104.69	978.04	936.04	42.01	23.283		
8,700.00	7,234.76	7,226.07	7,223.80	28.85	14.88	89.58	-20.57	104.68	1,069.77	1,026.22	43.55	24.564		
8,800.00	7,232.63	7,225.32	7,223.04	30.36	14.88	89.47	-20.56	104.67	1,162.85	1,117.71	45.14	25.760		
8,900.00	7,230.50	7,224.56	7,222.29	31.91	14.87	89.36	-20.55	104.66	1,257.00	1,210.23	46.78	26.873		
9,000.00	7,228.38	7,223.81	7,221.54	33.49	14.87	89.26	-20.54	104.66	1,351.99	1,303.54	48.45	27.906		
9,100.00	7,226.25	7,223.05	7,220.78	35.11	14.87	89.15	-20.53	104.65	1,447.66	1,397.51	50.15	28.866		
9,200.00	7,224.12	7,222.30	7,220.03	36.75	14.87	89.05	-20.52	104.64	1,543.87	1,491.99	51.88	29.758		
9,300.00	7,221.99	7,221.55	7,219.28	38.41	14.87	88.94	-20.51	104.63	1,640.54	1,586.90	53.63	30.587		
9,400.00	7,219.86	7,220.80	7,218.53	40.10	14.87	88.84	-20.50	104.62	1,737.58	1,682.17	55.41	31.360		
9,500.00	7,217.74	7,220.06	7,217.79	41.80	14.87	88.73	-20.49	104.61	1,834.94	1,777.74	57.20	32.079		
9,600.00	7,215.61	7,219.31	7,217.04	43.53	14.87	88.63	-20.48	104.61	1,932.57	1,873.56	59.01	32.751		
9,700.00	7,213.48	7,218.57	7,216.30	45.26	14.87	88.53	-20.47	104.60	2,030.43	1,969.60	60.83	33.379		
9,800.00	7,211.35	7,217.82	7,215.55	47.01	14.87	88.42	-20.46	104.59	2,128.49	2,065.82	62.66	33.967		
9,900.00	7,209.22	7,217.08	7,214.81	48.77	14.87	88.31	-20.45	104.58	2,226.72	2,162.21	64.51	34.518		
10,000.00	7,207.10	7,216.34	7,214.07	50.54	14.87	88.21	-20.44	104.57	2,325.10	2,258.74	66.36	35.036		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-BLACKFORD 1-26 offset - HSR-BLACKFORD 1-26 - HSR-BLACKFORD 1												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,100.00	7,204.97	7,215.60	7,213.33	52.32	14.87	88.11	-20.43	104.56	2,423.61	2,355.39	68.23	35.524	
10,200.00	7,202.84	7,214.86	7,212.59	54.11	14.87	88.00	-20.42	104.56	2,522.24	2,452.15	70.10	35.983	
10,300.00	7,200.71	7,214.13	7,211.86	55.91	14.87	87.90	-20.41	104.55	2,620.98	2,549.00	71.97	36.416	
10,400.00	7,198.59	7,213.39	7,211.12	57.72	14.87	87.80	-20.40	104.54	2,719.80	2,645.95	73.86	36.825	
10,500.00	7,196.46	7,212.66	7,210.39	59.53	14.87	87.69	-20.39	104.53	2,818.71	2,742.97	75.75	37.213	
10,600.00	7,194.33	7,211.93	7,209.66	61.34	14.87	87.59	-20.38	104.52	2,917.70	2,840.06	77.64	37.580	
10,700.00	7,192.20	7,211.19	7,208.92	63.17	14.86	87.49	-20.37	104.51	3,016.75	2,937.21	79.54	37.928	
10,800.00	7,190.07	7,210.46	7,208.19	64.99	14.86	87.39	-20.36	104.51	3,115.86	3,034.42	81.44	38.259	
10,900.00	7,187.95	7,209.74	7,207.47	66.83	14.86	87.28	-20.35	104.50	3,215.02	3,131.67	83.35	38.573	
11,000.00	7,185.82	7,209.01	7,206.74	68.66	14.86	87.18	-20.34	104.49	3,314.24	3,228.98	85.26	38.873	
11,100.00	7,183.69	7,208.28	7,206.01	70.50	14.86	87.08	-20.33	104.48	3,413.50	3,326.33	87.17	39.159	
11,200.00	7,181.56	7,207.56	7,205.29	72.35	14.86	86.98	-20.32	104.47	3,512.80	3,423.72	89.09	39.431	
11,300.00	7,179.44	7,206.83	7,204.56	74.19	14.86	86.88	-20.31	104.46	3,612.14	3,521.14	91.00	39.692	
11,400.00	7,177.31	7,206.11	7,203.84	76.04	14.86	86.78	-20.30	104.46	3,711.52	3,618.59	92.92	39.941	
11,500.00	7,175.18	7,205.39	7,203.12	77.90	14.86	86.67	-20.29	104.45	3,810.93	3,716.08	94.85	40.180	
11,600.00	7,173.05	7,204.67	7,202.40	79.75	14.86	86.57	-20.28	104.44	3,910.37	3,813.60	96.77	40.408	
11,700.00	7,170.92	7,203.95	7,201.68	81.61	14.86	86.47	-20.27	104.43	4,009.83	3,911.14	98.70	40.627	
11,800.00	7,168.80	7,203.23	7,200.96	83.47	14.86	86.37	-20.26	104.42	4,109.33	4,008.70	100.63	40.838	
11,837.41	7,168.00	7,202.97	7,200.70	84.17	14.86	86.34	-20.25	104.42	4,146.56	4,045.21	101.35	40.915	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-26A - HSR-CAMPBELL 1													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-125.26	-2,662.29	-3,766.27	4,612.84					
100.00	100.00	21.01	21.01	0.08	0.03	-125.26	-2,662.28	-3,766.29	4,612.24	4,612.12	0.11	N/A		
200.00	200.00	107.58	107.58	0.31	0.14	-125.25	-2,662.03	-3,766.75	4,612.49	4,612.04	0.45	N/A		
300.00	300.00	221.24	221.24	0.53	0.32	-125.25	-2,661.87	-3,767.06	4,612.63	4,611.78	0.85	5,425.810		
400.00	400.00	302.46	302.46	0.76	0.45	-125.24	-2,661.87	-3,767.36	4,612.92	4,611.71	1.21	3,803.266		
500.00	500.00	427.10	427.10	0.98	0.72	-125.24	-2,661.59	-3,767.73	4,613.01	4,611.31	1.70	2,712.647		
513.43	513.43	438.44	438.43	1.01	0.74	-125.24	-2,661.56	-3,767.74	4,613.00	4,611.25	1.76	2,627.866		
600.00	600.00	514.33	514.32	1.21	0.91	-125.24	-2,661.51	-3,767.91	4,613.13	4,611.01	2.12	2,177.744		
700.00	700.00	614.59	614.59	1.43	1.15	-125.23	-2,661.52	-3,768.13	4,613.31	4,610.72	2.59	1,784.590		
800.00	800.00	700.00	699.99	1.66	1.37	-125.23	-2,661.52	-3,768.64	4,613.78	4,610.75	3.02	1,525.468		
900.00	900.00	813.13	813.12	1.88	1.66	-125.23	-2,661.42	-3,769.30	4,614.21	4,610.67	3.54	1,304.317		
1,000.00	1,000.00	900.00	899.99	2.11	1.88	-125.22	-2,661.39	-3,769.88	4,614.72	4,610.73	3.98	1,158.256		
1,100.00	1,100.00	1,013.64	1,013.63	2.33	2.17	-125.22	-2,661.41	-3,770.54	4,615.21	4,610.71	4.50	1,024.968		
1,200.00	1,200.00	1,100.00	1,099.99	2.56	2.40	-125.21	-2,661.36	-3,770.88	4,615.52	4,610.56	4.95	931.755		
1,300.00	1,300.00	1,177.88	1,177.86	2.78	2.60	-125.21	-2,661.37	-3,771.52	4,616.22	4,610.84	5.38	857.846		
1,400.00	1,399.98	1,263.42	1,263.40	3.00	2.82	-161.59	-2,661.55	-3,772.68	4,619.10	4,613.27	5.82	792.986		
1,500.00	1,499.84	1,360.96	1,360.93	3.23	3.05	-161.57	-2,662.13	-3,773.92	4,625.44	4,619.17	6.28	736.736		
1,600.00	1,599.45	1,453.55	1,453.51	3.45	3.27	-161.54	-2,662.93	-3,774.97	4,635.13	4,628.42	6.71	690.812		
1,700.00	1,698.70	1,547.46	1,547.40	3.69	3.50	-161.50	-2,663.66	-3,776.33	4,648.31	4,641.17	7.15	650.465		
1,800.00	1,797.61	1,644.68	1,644.61	3.95	3.74	-161.53	-2,664.40	-3,777.75	4,663.89	4,656.28	7.61	613.135		
1,900.00	1,896.51	1,739.03	1,738.95	4.22	3.98	-161.58	-2,665.17	-3,779.20	4,679.68	4,671.61	8.07	579.844		
2,000.00	1,995.40	1,834.95	1,834.85	4.51	4.23	-161.63	-2,665.72	-3,780.91	4,695.53	4,686.99	8.55	549.447		
2,100.00	2,094.30	1,957.65	1,957.53	4.80	4.54	-161.69	-2,666.52	-3,782.96	4,711.38	4,702.28	9.09	518.123		
2,200.00	2,193.19	2,053.13	2,053.00	5.10	4.79	-161.74	-2,666.59	-3,784.21	4,726.58	4,717.01	9.57	493.728		
2,300.00	2,292.09	2,152.00	2,151.86	5.41	5.04	-161.79	-2,667.24	-3,785.69	4,742.26	4,732.19	10.06	471.208		
2,400.00	2,390.98	2,262.11	2,261.96	5.72	5.33	-161.85	-2,667.66	-3,786.89	4,757.43	4,746.85	10.59	449.335		
2,500.00	2,489.88	2,343.25	2,343.09	6.04	5.55	-161.89	-2,667.85	-3,788.03	4,772.82	4,761.78	11.04	432.280		
2,600.00	2,588.77	2,432.53	2,432.35	6.36	5.78	-161.93	-2,668.03	-3,789.79	4,788.61	4,777.09	11.52	415.835		
2,700.00	2,687.67	2,550.64	2,550.43	6.68	6.08	-161.97	-2,667.34	-3,792.40	4,804.15	4,792.09	12.06	398.502		
2,800.00	2,786.56	2,709.15	2,708.89	7.01	6.44	-162.01	-2,664.98	-3,795.63	4,819.10	4,806.44	12.66	380.698		
2,900.00	2,885.46	2,790.49	2,790.21	7.34	6.61	-162.03	-2,663.41	-3,797.00	4,833.45	4,820.37	13.08	369.668		
3,000.00	2,984.36	2,911.04	2,910.71	7.67	6.87	-162.06	-2,661.12	-3,798.98	4,847.79	4,834.21	13.58	357.057		
3,100.00	3,083.25	3,015.78	3,015.43	8.00	7.09	-162.09	-2,659.01	-3,800.37	4,861.80	4,847.76	14.04	346.329		
3,200.00	3,182.15	3,109.98	3,109.59	8.34	7.28	-162.11	-2,657.07	-3,801.67	4,875.83	4,861.35	14.48	336.692		
3,300.00	3,281.04	3,210.21	3,209.79	8.67	7.50	-162.14	-2,654.99	-3,803.07	4,889.88	4,874.93	14.94	327.218		
3,400.00	3,379.94	3,300.00	3,299.57	9.01	7.70	-162.16	-2,653.67	-3,804.11	4,904.07	4,888.68	15.39	318.580		
3,500.00	3,478.83	3,380.56	3,380.12	9.35	7.90	-162.20	-2,653.20	-3,804.81	4,918.55	4,902.70	15.84	310.468		
3,600.00	3,577.73	3,496.82	3,496.39	9.69	8.10	-162.26	-2,653.60	-3,805.05	4,933.05	4,916.76	16.29	302.850		
3,700.00	3,676.62	3,600.00	3,599.56	10.03	8.14	-162.33	-2,654.26	-3,804.40	4,947.04	4,930.47	16.57	298.488		
3,800.00	3,775.52	3,673.21	3,672.76	10.37	8.19	-162.37	-2,654.82	-3,804.06	4,961.32	4,944.45	16.87	294.004		
3,900.00	3,874.41	3,747.61	3,747.16	10.72	8.28	-162.42	-2,655.92	-3,804.08	4,976.33	4,959.12	17.21	289.145		
4,000.00	3,973.31	3,847.44	3,846.98	11.06	8.41	-162.49	-2,657.56	-3,804.26	4,991.59	4,973.99	17.60	283.633		
4,100.00	4,072.20	3,944.91	3,944.43	11.40	8.55	-162.55	-2,659.20	-3,804.19	5,006.67	4,988.69	17.99	278.368		
4,200.00	4,171.10	4,030.66	4,030.16	11.75	8.68	-162.61	-2,660.74	-3,804.37	5,022.05	5,003.68	18.37	273.413		
4,300.00	4,269.99	4,134.14	4,133.63	12.09	8.87	-162.68	-2,662.46	-3,804.75	5,037.48	5,018.68	18.80	267.931		
4,400.00	4,368.89	4,232.43	4,231.91	12.44	9.07	-162.73	-2,663.59	-3,805.32	5,052.79	5,033.54	19.25	262.426		
4,500.00	4,467.78	4,313.57	4,313.05	12.78	9.26	-162.77	-2,664.09	-3,806.37	5,068.35	5,048.65	19.70	257.302		
4,600.00	4,566.68	4,400.00	4,399.45	13.13	9.49	-162.80	-2,664.23	-3,808.13	5,084.23	5,064.06	20.17	252.043		
4,700.00	4,665.57	4,489.72	4,489.15	13.48	9.72	-162.84	-2,664.29	-3,810.25	5,100.32	5,079.67	20.66	246.925		
4,800.00	4,764.47	4,613.21	4,612.61	13.82	10.04	-162.88	-2,664.15	-3,813.04	5,116.22	5,095.00	21.22	241.078		
4,900.00	4,863.36	4,717.26	4,716.63	14.17	10.30	-162.91	-2,663.66	-3,815.36	5,131.91	5,110.17	21.74	236.100		
5,000.00	4,962.26	4,894.35	4,893.69	14.52	10.70	-162.96	-2,662.17	-3,817.90	5,146.73	5,124.35	22.39	229.886		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-26A - HSR-CAMPBELL 1													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,006.83	5,006.16	14.87	10.89	-163.01	-2,661.16	-3,818.25	5,160.63	5,137.80	22.83	226.046		
5,200.00	5,160.05	5,100.00	5,099.34	15.21	11.05	-163.04	-2,660.41	-3,818.46	5,174.53	5,151.29	23.24	222.684		
5,300.00	5,258.94	5,168.28	5,167.61	15.56	11.20	-163.07	-2,659.89	-3,818.90	5,188.76	5,165.13	23.64	219.519		
5,400.00	5,357.84	5,287.49	5,286.82	15.91	11.44	-163.11	-2,659.22	-3,819.83	5,203.29	5,179.15	24.13	215.598		
5,500.00	5,456.73	5,370.63	5,369.95	16.26	11.61	-163.15	-2,658.85	-3,820.12	5,217.50	5,192.95	24.55	212.484		
5,600.00	5,555.63	5,480.42	5,479.74	16.61	11.78	-163.19	-2,658.37	-3,820.80	5,231.95	5,206.97	24.98	209.485		
5,700.00	5,654.52	5,590.67	5,589.99	16.96	11.83	-163.25	-2,658.40	-3,820.61	5,246.03	5,220.75	25.28	207.507		
5,800.00	5,753.42	5,661.87	5,661.19	17.31	11.91	-163.28	-2,658.50	-3,820.56	5,260.28	5,234.66	25.61	205.362		
5,900.00	5,852.31	5,807.85	5,807.17	17.66	12.11	-163.35	-2,658.65	-3,820.69	5,274.74	5,248.68	26.06	202.391		
6,000.00	5,951.21	5,900.00	5,899.32	18.01	12.16	-163.39	-2,658.43	-3,820.15	5,288.36	5,262.00	26.37	200.579		
6,100.00	6,050.10	5,977.97	5,977.28	18.36	12.21	-163.43	-2,658.62	-3,819.67	5,302.26	5,275.59	26.67	198.798		
6,200.00	6,149.00	6,051.02	6,050.34	18.71	12.29	-163.48	-2,659.21	-3,819.42	5,316.69	5,289.69	27.00	196.897		
6,300.00	6,247.89	6,158.64	6,157.94	19.06	12.42	-163.54	-2,660.34	-3,819.30	5,331.48	5,304.10	27.38	194.692		
6,400.00	6,346.79	6,275.54	6,274.85	19.41	12.53	-163.60	-2,661.15	-3,818.69	5,345.70	5,317.95	27.75	192.628		
6,500.00	6,445.68	6,354.44	6,353.74	19.76	12.62	-163.64	-2,661.77	-3,818.28	5,360.02	5,331.93	28.09	190.825		
6,600.00	6,544.58	6,445.80	6,445.09	20.11	12.74	-163.70	-2,662.86	-3,818.04	5,374.75	5,346.29	28.46	188.821		
6,700.00	6,643.53	6,561.58	6,560.87	20.44	12.94	-177.08	-2,663.17	-3,818.19	5,388.92	5,359.97	28.95	186.157		
6,800.00	6,743.00	6,654.00	6,653.28	20.62	13.13	94.32	-2,662.24	-3,819.08	5,395.39	5,366.09	29.30	184.137		
6,900.00	6,840.75	6,743.83	6,743.08	20.64	13.32	71.13	-2,660.74	-3,820.66	5,391.51	5,362.13	29.37	183.558		
7,000.00	6,933.82	6,836.25	6,835.47	20.54	13.53	66.01	-2,658.99	-3,822.46	5,377.33	5,348.07	29.27	183.729		
7,100.00	7,019.36	6,915.95	6,915.14	20.31	13.70	65.53	-2,657.64	-3,823.94	5,353.58	5,324.45	29.13	183.763		
7,200.00	7,094.79	6,982.63	6,981.81	20.01	13.86	67.32	-2,656.75	-3,825.11	5,321.33	5,292.16	29.17	182.426		
7,300.00	7,157.81	7,034.68	7,033.85	19.66	13.98	70.63	-2,656.22	-3,826.00	5,281.86	5,252.36	29.50	179.032		
7,400.00	7,206.51	7,073.67	7,072.83	19.29	14.07	75.12	-2,655.92	-3,826.69	5,236.67	5,206.56	30.12	173.881		
7,500.00	7,239.40	7,100.00	7,099.16	18.94	14.14	80.50	-2,655.77	-3,827.16	5,187.35	5,156.50	30.85	168.157		
7,600.00	7,255.49	7,111.94	7,111.10	18.63	14.17	86.43	-2,655.71	-3,827.39	5,135.54	5,104.05	31.48	163.123		
7,700.00	7,256.04	7,112.02	7,111.17	18.39	14.17	89.82	-2,655.71	-3,827.39	5,083.00	5,051.14	31.86	159.522		
7,800.00	7,253.91	7,100.00	7,099.16	18.51	14.14	89.66	-2,655.77	-3,827.16	5,031.66	4,999.42	32.24	156.050		
7,900.00	7,251.78	7,100.00	7,099.16	19.20	14.14	89.66	-2,655.77	-3,827.16	4,981.79	4,948.94	32.85	151.673		
8,000.00	7,249.65	7,100.00	7,099.16	20.08	14.14	89.66	-2,655.77	-3,827.16	4,933.44	4,899.82	33.62	146.755		
8,100.00	7,247.53	7,100.00	7,099.16	21.07	14.14	89.66	-2,655.77	-3,827.16	4,886.65	4,852.04	34.61	141.189		
8,200.00	7,245.40	7,100.00	7,099.16	22.17	14.14	89.66	-2,655.77	-3,827.16	4,841.48	4,805.73	35.75	135.421		
8,300.00	7,243.27	7,100.00	7,099.16	23.36	14.14	89.66	-2,655.77	-3,827.16	4,797.97	4,760.97	37.00	129.659		
8,400.00	7,241.14	7,100.00	7,099.16	24.64	14.14	89.66	-2,655.77	-3,827.16	4,756.16	4,717.81	38.35	124.008		
8,500.00	7,239.01	7,100.00	7,099.16	25.98	14.14	89.66	-2,655.77	-3,827.16	4,716.11	4,676.32	39.78	118.540		
8,600.00	7,236.89	7,093.10	7,092.25	27.39	14.12	89.57	-2,655.80	-3,827.04	4,677.84	4,636.59	41.25	113.391		
8,700.00	7,234.76	7,090.78	7,089.94	28.85	14.11	89.54	-2,655.82	-3,827.00	4,641.41	4,598.61	42.80	108.436		
8,800.00	7,232.63	7,088.45	7,087.61	30.36	14.11	89.51	-2,655.83	-3,826.95	4,606.87	4,562.47	44.40	103.753		
8,900.00	7,230.50	7,086.09	7,085.25	31.91	14.10	89.48	-2,655.84	-3,826.91	4,574.25	4,528.20	46.04	99.345		
9,000.00	7,228.38	7,083.71	7,082.87	33.49	14.10	89.45	-2,655.86	-3,826.87	4,543.59	4,495.87	47.72	95.209		
9,100.00	7,226.25	7,081.31	7,080.47	35.11	14.09	89.42	-2,655.87	-3,826.82	4,514.94	4,465.51	49.43	91.336		
9,200.00	7,224.12	7,078.88	7,078.04	36.75	14.09	89.38	-2,655.89	-3,826.78	4,488.34	4,437.17	51.17	87.716		
9,300.00	7,221.99	7,076.43	7,075.59	38.41	14.08	89.35	-2,655.90	-3,826.74	4,463.81	4,410.88	52.93	84.335		
9,400.00	7,219.86	7,073.95	7,073.11	40.10	14.07	89.32	-2,655.92	-3,826.69	4,441.40	4,386.69	54.71	81.180		
9,500.00	7,217.74	7,071.45	7,070.61	41.80	14.07	89.29	-2,655.93	-3,826.65	4,421.14	4,364.63	56.51	78.237		
9,600.00	7,215.61	7,068.92	7,068.08	43.53	14.06	89.25	-2,655.95	-3,826.60	4,403.06	4,344.73	58.32	75.492		
9,700.00	7,213.48	7,066.36	7,065.52	45.26	14.05	89.22	-2,655.97	-3,826.56	4,387.18	4,327.02	60.15	72.933		
9,800.00	7,211.35	7,063.78	7,062.94	47.01	14.05	89.18	-2,655.99	-3,826.51	4,373.52	4,311.53	61.99	70.547		
9,900.00	7,209.22	7,061.17	7,060.33	48.77	14.04	89.15	-2,656.01	-3,826.46	4,362.12	4,298.27	63.85	68.322		
10,000.00	7,207.10	7,058.53	7,057.70	50.54	14.04	89.12	-2,656.02	-3,826.42	4,352.98	4,287.27	65.71	66.247		
10,100.00	7,204.97	7,055.87	7,055.03	52.32	14.03	89.08	-2,656.04	-3,826.37	4,346.12	4,278.54	67.58	64.312		
10,200.00	7,202.84	7,053.18	7,052.34	54.11	14.02	89.04	-2,656.07	-3,826.32	4,341.55	4,272.10	69.46	62.507		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-CAMPBELL 12-26A offset - HSR-CAMPBELL 12-26A - HSR-CAMPBELL 1												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,050.46	7,049.62	55.91	14.02	89.01	-2,656.09	-3,826.27	4,339.28	4,267.94	71.34	60.823	
10,348.54	7,199.68	7,049.13	7,048.29	56.79	14.01	88.99	-2,656.10	-3,826.25	4,339.01	4,266.71	72.31	60.009 CC	
10,400.00	7,198.59	7,047.71	7,046.87	57.72	14.01	88.97	-2,656.11	-3,826.23	4,339.32	4,266.08	73.23	59.252 ES	
10,500.00	7,196.46	7,044.93	7,044.09	59.53	14.00	88.94	-2,656.13	-3,826.18	4,341.65	4,266.52	75.13	57.787	
10,600.00	7,194.33	7,042.12	7,041.28	61.34	14.00	88.90	-2,656.15	-3,826.13	4,346.29	4,269.25	77.03	56.420	
10,700.00	7,192.20	7,039.28	7,038.44	63.17	13.99	88.86	-2,656.18	-3,826.08	4,353.21	4,274.27	78.94	55.144	
10,800.00	7,190.07	7,036.41	7,035.57	64.99	13.98	88.82	-2,656.20	-3,826.03	4,362.42	4,281.56	80.85	53.954	
10,900.00	7,187.95	7,033.50	7,032.67	66.83	13.98	88.78	-2,656.23	-3,825.98	4,373.89	4,291.12	82.77	52.844	
11,000.00	7,185.82	7,030.57	7,029.74	68.66	13.97	88.75	-2,656.25	-3,825.93	4,387.61	4,302.92	84.69	51.809	
11,100.00	7,183.69	7,027.60	7,026.77	70.50	13.96	88.71	-2,656.28	-3,825.87	4,403.55	4,316.94	86.61	50.843	
11,200.00	7,181.56	7,024.60	7,023.77	72.35	13.95	88.67	-2,656.31	-3,825.82	4,421.70	4,333.16	88.54	49.942	
11,300.00	7,179.44	7,021.57	7,020.74	74.19	13.95	88.63	-2,656.34	-3,825.77	4,442.02	4,351.56	90.47	49.102	
11,400.00	7,177.31	7,018.50	7,017.67	76.04	13.94	88.59	-2,656.36	-3,825.72	4,464.49	4,372.09	92.40	48.319	
11,500.00	7,175.18	7,015.39	7,014.56	77.90	13.93	88.55	-2,656.40	-3,825.66	4,489.07	4,394.74	94.33	47.590	
11,600.00	7,173.05	7,012.25	7,011.43	79.75	13.92	88.50	-2,656.43	-3,825.61	4,515.73	4,419.47	96.26	46.910	
11,700.00	7,170.92	7,009.08	7,008.25	81.61	13.92	88.46	-2,656.46	-3,825.56	4,544.44	4,446.24	98.20	46.277	
11,800.00	7,168.80	7,005.87	7,005.04	83.47	13.91	88.42	-2,656.49	-3,825.50	4,575.14	4,475.00	100.14	45.688	
11,837.41	7,168.00	7,004.65	7,003.83	84.17	13.91	88.40	-2,656.50	-3,825.48	4,587.14	4,486.27	100.87	45.478 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-118.35	-1,301.86	-2,412.94	2,742.42					
100.00	100.00	30.75	30.75	0.08	0.04	-118.35	-1,301.87	-2,412.99	2,741.80	2,741.67	0.13	N/A CC		
200.00	200.00	116.37	116.37	0.31	0.17	-118.35	-1,302.09	-2,413.54	2,742.47	2,741.99	0.48	5,730.599		
300.00	300.00	237.41	237.40	0.53	0.44	-118.34	-1,301.90	-2,414.08	2,742.76	2,741.78	0.98	2,804.201		
400.00	400.00	338.59	338.58	0.76	0.69	-118.33	-1,301.40	-2,414.42	2,742.82	2,741.38	1.44	1,898.973		
476.28	476.28	415.29	415.28	0.93	0.88	-118.31	-1,300.76	-2,414.73	2,742.79	2,740.98	1.81	1,518.089		
500.00	500.00	435.46	435.45	0.98	0.93	-118.31	-1,300.56	-2,414.85	2,742.80	2,740.89	1.91	1,434.689		
600.00	600.00	529.21	529.19	1.21	1.17	-118.28	-1,299.49	-2,415.82	2,743.17	2,740.79	2.38	1,153.548		
700.00	700.00	630.32	630.28	1.43	1.43	-118.24	-1,297.99	-2,416.77	2,743.29	2,740.43	2.87	957.323		
800.00	800.00	707.91	707.85	1.66	1.63	-118.20	-1,296.73	-2,418.18	2,744.10	2,740.81	3.29	833.594		
900.00	900.00	854.12	854.01	1.88	2.01	-118.12	-1,293.48	-2,420.02	2,744.05	2,740.16	3.89	705.420		
1,000.00	1,000.00	957.12	956.98	2.11	2.27	-118.07	-1,290.95	-2,420.62	2,743.41	2,739.03	4.37	627.333		
1,100.00	1,100.00	1,055.45	1,055.28	2.33	2.51	-118.03	-1,288.77	-2,421.08	2,742.78	2,737.93	4.85	566.103		
1,200.00	1,200.00	1,141.12	1,140.94	2.56	2.73	-118.00	-1,287.27	-2,421.44	2,742.35	2,737.06	5.29	518.615		
1,207.91	1,207.91	1,147.09	1,146.91	2.57	2.75	-117.99	-1,287.17	-2,421.49	2,742.34	2,737.02	5.32	515.384		
1,300.00	1,300.00	1,222.39	1,222.19	2.78	2.94	-117.96	-1,285.98	-2,422.47	2,742.70	2,736.98	5.72	479.246 ES		
1,400.00	1,399.98	1,326.54	1,326.32	3.00	3.22	-154.33	-1,284.66	-2,423.84	2,744.84	2,738.62	6.22	441.005		
1,500.00	1,499.84	1,443.53	1,443.30	3.23	3.52	-154.30	-1,283.14	-2,424.92	2,749.77	2,743.03	6.75	407.640		
1,600.00	1,599.45	1,542.21	1,541.96	3.45	3.77	-154.29	-1,281.90	-2,425.16	2,757.26	2,750.05	7.21	382.584		
1,700.00	1,698.70	1,622.21	1,621.96	3.69	3.97	-154.25	-1,280.98	-2,425.91	2,768.53	2,760.91	7.62	363.401		
1,800.00	1,797.61	1,725.21	1,724.95	3.95	4.23	-154.33	-1,280.17	-2,427.08	2,782.44	2,774.34	8.10	343.572		
1,900.00	1,896.51	1,845.29	1,845.03	4.22	4.52	-154.47	-1,279.10	-2,427.42	2,795.61	2,786.99	8.62	324.265		
2,000.00	1,995.40	1,933.59	1,933.32	4.51	4.75	-154.56	-1,278.06	-2,427.80	2,808.84	2,799.77	9.08	309.394		
2,100.00	2,094.30	2,020.58	2,020.31	4.80	4.97	-154.66	-1,277.33	-2,428.48	2,822.55	2,813.01	9.54	295.946		
2,200.00	2,193.19	2,122.75	2,122.47	5.10	5.21	-154.78	-1,277.01	-2,429.19	2,836.44	2,826.42	10.02	283.037		
2,300.00	2,292.09	2,236.36	2,236.08	5.41	5.49	-154.91	-1,276.56	-2,429.45	2,849.89	2,839.35	10.54	270.449		
2,400.00	2,390.98	2,335.62	2,335.33	5.72	5.74	-155.03	-1,276.02	-2,429.53	2,863.16	2,852.13	11.03	259.576		
2,500.00	2,489.88	2,427.61	2,427.33	6.04	5.97	-155.13	-1,275.61	-2,429.62	2,876.49	2,864.99	11.50	250.057		
2,600.00	2,588.77	2,509.27	2,508.98	6.36	6.16	-155.23	-1,275.35	-2,430.11	2,890.34	2,878.40	11.94	242.061		
2,700.00	2,687.67	2,601.48	2,601.19	6.68	6.31	-155.34	-1,275.53	-2,430.82	2,904.60	2,892.25	12.34	235.295		
2,800.00	2,786.56	2,711.93	2,711.63	7.01	6.40	-155.48	-1,276.17	-2,431.24	2,918.71	2,906.03	12.68	230.252		
2,900.00	2,885.46	2,800.00	2,799.70	7.34	6.46	-155.59	-1,276.78	-2,431.67	2,932.98	2,919.98	13.00	225.688		
3,000.00	2,984.36	2,908.20	2,907.90	7.67	6.56	-155.73	-1,277.59	-2,432.14	2,947.26	2,933.92	13.34	220.958		
3,100.00	3,083.25	3,000.00	2,999.70	8.00	6.63	-155.85	-1,278.32	-2,432.51	2,961.53	2,947.86	13.67	216.678		
3,200.00	3,182.15	3,100.72	3,100.41	8.34	6.78	-155.97	-1,278.93	-2,433.12	2,975.91	2,961.85	14.06	211.623		
3,300.00	3,281.04	3,222.56	3,222.25	8.67	6.88	-156.12	-1,279.26	-2,433.24	2,989.68	2,975.27	14.41	207.411		
3,400.00	3,379.94	3,316.28	3,315.97	9.01	6.91	-156.24	-1,279.77	-2,432.97	3,003.28	2,988.58	14.70	204.300		
3,500.00	3,478.83	3,410.97	3,410.65	9.35	6.96	-156.36	-1,280.50	-2,432.71	3,017.04	3,002.03	15.01	200.978		
3,600.00	3,577.73	3,500.72	3,500.41	9.69	7.09	-156.47	-1,280.88	-2,432.90	3,031.04	3,015.64	15.39	196.933		
3,700.00	3,676.62	3,604.34	3,604.03	10.03	7.24	-156.59	-1,281.42	-2,433.14	3,045.11	3,029.32	15.80	192.752		
3,800.00	3,775.52	3,717.13	3,716.81	10.37	7.33	-156.73	-1,282.31	-2,432.93	3,059.01	3,042.87	16.14	189.495		
3,900.00	3,874.41	3,854.13	3,853.80	10.72	7.44	-156.91	-1,282.58	-2,431.25	3,071.61	3,055.11	16.51	186.095		
4,000.00	3,973.31	3,959.76	3,959.42	11.06	7.54	-157.03	-1,282.32	-2,429.74	3,083.93	3,067.06	16.87	182.835		
4,100.00	4,072.20	4,068.34	4,067.98	11.40	7.68	-157.15	-1,281.31	-2,428.18	3,095.91	3,078.65	17.26	179.352		
4,200.00	4,171.10	4,164.78	4,164.41	11.75	7.80	-157.25	-1,280.53	-2,426.58	3,107.78	3,090.13	17.64	176.158		
4,300.00	4,269.99	4,259.99	4,259.60	12.09	7.92	-157.37	-1,280.25	-2,424.90	3,119.82	3,101.81	18.01	173.196		
4,400.00	4,368.89	4,353.35	4,352.94	12.44	8.03	-157.47	-1,280.04	-2,423.33	3,131.99	3,113.60	18.38	170.364		
4,500.00	4,467.78	4,432.84	4,432.42	12.78	8.13	-157.57	-1,279.88	-2,422.27	3,144.50	3,125.75	18.74	167.759		
4,600.00	4,566.68	4,500.00	4,499.59	13.13	8.22	-157.64	-1,279.91	-2,422.01	3,157.91	3,138.82	19.09	165.403		
4,700.00	4,665.57	4,594.36	4,593.95	13.48	8.37	-157.74	-1,280.10	-2,422.17	3,171.90	3,152.41	19.49	162.728		
4,800.00	4,764.47	4,681.96	4,681.55	13.82	8.51	-157.83	-1,280.43	-2,422.49	3,186.15	3,166.26	19.89	160.171		
4,900.00	4,863.36	4,776.03	4,775.61	14.17	8.68	-157.92	-1,280.85	-2,423.09	3,200.68	3,180.36	20.32	157.522		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-FOGELMAN 6-26 offset - HSR-FOGELMAN 6-26 - HSR-FOGELMAN 6-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	4,867.10	4,866.68	14.52	8.87	-158.01	-1,280.84	-2,424.10	3,215.37	3,194.61	20.76	154.848		
5,100.00	5,061.15	4,970.20	4,969.76	14.87	9.11	-158.08	-1,280.23	-2,425.80	3,230.22	3,208.97	21.25	151.995		
5,200.00	5,160.05	5,069.84	5,069.39	15.21	9.33	-158.16	-1,279.64	-2,427.20	3,244.87	3,223.14	21.74	149.292		
5,300.00	5,258.94	5,208.66	5,208.20	15.56	9.64	-158.27	-1,278.86	-2,428.34	3,259.09	3,236.79	22.30	146.164		
5,400.00	5,357.84	5,300.00	5,299.53	15.91	9.85	-158.34	-1,277.84	-2,428.83	3,272.75	3,249.99	22.76	143.804		
5,500.00	5,456.73	5,400.00	5,399.52	16.26	10.08	-158.41	-1,276.58	-2,429.49	3,286.43	3,263.19	23.24	141.394		
5,600.00	5,555.63	5,483.80	5,483.31	16.61	10.27	-158.47	-1,275.68	-2,430.08	3,300.28	3,276.58	23.69	139.287		
5,700.00	5,654.52	5,585.15	5,584.65	16.96	10.51	-158.55	-1,274.76	-2,431.10	3,314.46	3,290.27	24.19	137.019		
5,800.00	5,753.42	5,700.00	5,699.49	17.31	10.78	-158.62	-1,273.01	-2,432.26	3,328.31	3,303.60	24.72	134.663		
5,900.00	5,852.31	5,797.55	5,797.01	17.66	11.01	-158.68	-1,271.20	-2,433.17	3,341.93	3,316.73	25.20	132.610		
6,000.00	5,951.21	5,914.65	5,914.09	18.01	11.28	-158.74	-1,268.81	-2,434.07	3,355.33	3,329.60	25.73	130.414		
6,100.00	6,050.10	6,020.17	6,019.58	18.36	11.52	-158.80	-1,266.30	-2,434.58	3,368.29	3,342.07	26.23	128.436		
6,200.00	6,149.00	6,100.00	6,099.37	18.71	11.71	-158.83	-1,264.10	-2,435.32	3,381.44	3,354.78	26.67	126.796		
6,300.00	6,247.89	6,191.63	6,190.97	19.06	11.93	-158.87	-1,261.76	-2,436.46	3,394.98	3,367.83	27.15	125.066		
6,400.00	6,346.79	6,293.52	6,292.83	19.41	12.18	-158.92	-1,259.56	-2,437.71	3,408.69	3,381.04	27.65	123.287		
6,500.00	6,445.68	6,393.71	6,392.98	19.76	12.42	-158.97	-1,257.32	-2,438.88	3,422.32	3,394.17	28.15	121.585		
6,600.00	6,544.58	6,494.00	6,493.23	20.11	12.66	-159.01	-1,254.97	-2,440.08	3,435.92	3,407.27	28.65	119.936		
6,700.00	6,643.53	6,574.98	6,574.18	20.44	12.86	-172.39	-1,252.88	-2,441.39	3,449.45	3,420.32	29.12	118.446		
6,800.00	6,743.00	6,666.98	6,666.12	20.62	13.09	98.99	-1,250.31	-2,443.49	3,456.66	3,427.15	29.51	117.124		
6,900.00	6,840.75	6,765.28	6,764.35	20.64	13.33	75.85	-1,247.39	-2,445.90	3,454.55	3,424.85	29.70	116.306		
7,000.00	6,933.82	6,854.88	6,853.86	20.54	13.56	70.75	-1,244.41	-2,448.26	3,443.40	3,413.66	29.74	115.799		
7,100.00	7,019.36	6,932.72	6,931.62	20.31	13.75	70.22	-1,241.55	-2,450.58	3,424.12	3,394.38	29.75	115.107		
7,200.00	7,094.79	7,000.00	6,998.81	20.01	13.92	71.83	-1,238.92	-2,452.83	3,397.89	3,368.01	29.88	113.714		
7,300.00	7,157.81	7,056.78	7,055.50	19.66	14.07	74.77	-1,236.42	-2,454.97	3,366.02	3,335.81	30.21	111.424		
7,400.00	7,206.51	7,100.00	7,098.62	19.29	14.17	78.53	-1,234.21	-2,456.78	3,330.01	3,299.33	30.68	108.533		
7,500.00	7,239.40	7,130.65	7,129.19	18.94	14.25	82.79	-1,232.51	-2,458.12	3,291.44	3,260.24	31.20	105.500		
7,600.00	7,255.49	7,142.45	7,140.96	18.63	14.28	87.11	-1,231.84	-2,458.64	3,251.83	3,220.19	31.64	102.778		
7,700.00	7,256.04	7,136.52	7,135.05	18.39	14.27	89.34	-1,232.18	-2,458.38	3,212.71	3,180.76	31.95	100.547		
7,800.00	7,253.91	7,127.76	7,126.30	18.51	14.25	89.18	-1,232.68	-2,457.99	3,175.97	3,143.63	32.34	98.211		
7,900.00	7,251.78	7,119.18	7,117.75	19.20	14.22	89.01	-1,233.16	-2,457.62	3,141.96	3,109.05	32.91	95.470		
8,000.00	7,249.65	7,110.78	7,109.37	20.08	14.20	88.85	-1,233.63	-2,457.25	3,110.77	3,077.12	33.65	92.439		
8,100.00	7,247.53	7,102.55	7,101.16	21.07	14.18	88.69	-1,234.08	-2,456.89	3,082.49	3,047.94	34.54	89.232		
8,200.00	7,245.40	7,100.00	7,098.62	22.17	14.17	88.64	-1,234.21	-2,456.78	3,057.20	3,021.58	35.62	85.818		
8,300.00	7,243.27	7,089.16	7,087.80	23.36	14.15	88.43	-1,234.79	-2,456.31	3,034.98	2,998.17	36.81	82.442		
8,400.00	7,241.14	7,082.93	7,081.59	24.64	14.13	88.31	-1,235.11	-2,456.04	3,015.90	2,977.78	38.13	79.104		
8,500.00	7,239.01	7,076.84	7,075.52	25.98	14.12	88.20	-1,235.43	-2,455.79	3,000.02	2,960.50	39.52	75.910		
8,600.00	7,236.89	7,070.90	7,069.58	27.39	14.10	88.08	-1,235.73	-2,455.54	2,987.39	2,946.41	40.99	72.889		
8,700.00	7,234.76	7,065.08	7,063.78	28.85	14.09	87.97	-1,236.01	-2,455.30	2,978.05	2,935.54	42.51	70.056		
8,800.00	7,232.63	7,059.40	7,058.11	30.36	14.07	87.86	-1,236.29	-2,455.07	2,972.04	2,927.95	44.08	67.416		
8,900.00	7,230.50	7,053.84	7,052.56	31.91	14.06	87.75	-1,236.56	-2,454.85	2,969.37	2,923.66	45.70	64.971		
8,929.64	7,229.87	7,052.21	7,050.93	32.38	14.05	87.72	-1,236.64	-2,454.79	2,969.22	2,922.96	46.26	64.191		
9,000.00	7,228.38	7,048.40	7,047.13	33.49	14.04	87.65	-1,236.82	-2,454.64	2,970.05	2,922.69	47.36	62.714		
9,100.00	7,226.25	7,043.08	7,041.82	35.11	14.03	87.55	-1,237.06	-2,454.43	2,974.09	2,925.04	49.05	60.638		
9,200.00	7,224.12	7,037.87	7,036.62	36.75	14.02	87.45	-1,237.30	-2,454.23	2,981.46	2,930.70	50.76	58.734		
9,300.00	7,221.99	7,032.77	7,031.53	38.41	14.01	87.35	-1,237.53	-2,454.03	2,992.15	2,939.65	52.50	56.992		
9,400.00	7,219.86	7,027.78	7,026.54	40.10	13.99	87.25	-1,237.75	-2,453.84	3,006.11	2,951.85	54.26	55.401		
9,500.00	7,217.74	7,022.89	7,021.66	41.80	13.98	87.16	-1,237.97	-2,453.66	3,023.31	2,967.27	56.04	53.949		
9,600.00	7,215.61	7,018.10	7,016.88	43.53	13.97	87.07	-1,238.17	-2,453.48	3,043.70	2,985.86	57.83	52.627		
9,700.00	7,213.48	7,013.40	7,012.19	45.26	13.96	86.98	-1,238.37	-2,453.31	3,067.19	3,007.55	59.64	51.425		
9,800.00	7,211.35	7,000.00	6,998.81	47.01	13.92	86.72	-1,238.92	-2,452.83	3,093.75	3,032.34	61.41	50.380		
9,900.00	7,209.22	7,000.00	6,998.81	48.77	13.92	86.72	-1,238.92	-2,452.83	3,123.25	3,059.98	63.27	49.363		
10,000.00	7,207.10	7,000.00	6,998.81	50.54	13.92	86.72	-1,238.92	-2,452.83	3,155.64	3,090.50	65.14	48.442		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-FOGELMAN 6-26 offset - HSR-FOGELMAN 6-26 - HSR-FOGELMAN 6-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,204.97	7,000.00	6,998.81	52.32	13.92	86.72	-1,238.92	-2,452.83	3,190.84	3,123.82	67.02	47.607	
10,200.00	7,202.84	6,989.53	6,988.35	54.11	13.90	86.52	-1,239.34	-2,452.47	3,228.74	3,159.89	68.84	46.900	
10,300.00	7,200.71	6,984.41	6,983.24	55.91	13.88	86.42	-1,239.55	-2,452.29	3,269.25	3,198.54	70.70	46.238	
10,400.00	7,198.59	6,979.31	6,978.15	57.72	13.87	86.32	-1,239.75	-2,452.12	3,312.27	3,239.70	72.57	45.641	
10,500.00	7,196.46	6,974.25	6,973.09	59.53	13.86	86.22	-1,239.95	-2,451.95	3,357.72	3,283.27	74.45	45.103	
10,600.00	7,194.33	6,969.21	6,968.06	61.34	13.85	86.13	-1,240.15	-2,451.78	3,405.48	3,329.16	76.32	44.619	
10,700.00	7,192.20	6,964.19	6,963.05	63.17	13.83	86.03	-1,240.34	-2,451.61	3,455.47	3,377.27	78.21	44.184	
10,800.00	7,190.07	6,959.21	6,958.07	64.99	13.82	85.93	-1,240.54	-2,451.44	3,507.59	3,427.50	80.09	43.794	
10,900.00	7,187.95	6,954.25	6,953.12	66.83	13.81	85.84	-1,240.73	-2,451.28	3,561.75	3,479.77	81.98	43.444	
11,000.00	7,185.82	6,949.31	6,948.19	68.66	13.80	85.74	-1,240.92	-2,451.12	3,617.86	3,533.98	83.88	43.132	
11,100.00	7,183.69	6,944.40	6,943.29	70.50	13.78	85.65	-1,241.11	-2,450.96	3,675.82	3,590.04	85.78	42.854	
11,200.00	7,181.56	6,939.52	6,938.41	72.35	13.77	85.55	-1,241.30	-2,450.80	3,735.55	3,647.87	87.68	42.607	
11,300.00	7,179.44	6,934.66	6,933.56	74.19	13.76	85.46	-1,241.48	-2,450.64	3,796.97	3,707.39	89.58	42.387	
11,400.00	7,177.31	6,929.83	6,928.73	76.04	13.75	85.37	-1,241.66	-2,450.49	3,859.99	3,768.51	91.48	42.194	
11,500.00	7,175.18	6,925.02	6,923.93	77.90	13.73	85.28	-1,241.85	-2,450.34	3,924.55	3,831.16	93.39	42.023	
11,600.00	7,173.05	6,920.24	6,919.15	79.75	13.72	85.18	-1,242.03	-2,450.19	3,990.55	3,895.26	95.30	41.874	
11,700.00	7,170.92	6,915.48	6,914.40	81.61	13.71	85.09	-1,242.21	-2,450.04	4,057.95	3,960.74	97.21	41.744	
11,800.00	7,168.80	6,910.75	6,909.67	83.47	13.70	85.00	-1,242.38	-2,449.90	4,126.65	4,027.53	99.12	41.632	
11,837.41	7,168.00	6,900.00	6,898.94	84.17	13.67	84.79	-1,242.78	-2,449.57	4,152.70	4,052.93	99.77	41.625 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILLS 15-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-166.64	-3,937.17	-934.77	4,046.63					
100.00	100.00	150.27	150.26	0.08	0.27	-166.64	-3,935.41	-934.81	4,045.36	4,045.01	0.35	N/A		
200.00	200.00	232.72	232.70	0.31	0.48	-166.63	-3,934.29	-935.00	4,044.10	4,043.30	0.79	5,113.641		
300.00	300.00	300.00	299.98	0.53	0.66	-166.63	-3,933.69	-934.96	4,043.28	4,042.09	1.19	3,400.606		
387.31	387.31	376.58	376.56	0.73	0.79	-166.63	-3,933.40	-935.01	4,043.00	4,041.48	1.52	2,656.339		
400.00	400.00	385.69	385.67	0.76	0.81	-166.63	-3,933.39	-935.04	4,043.01	4,041.44	1.57	2,580.392		
500.00	500.00	489.23	489.20	0.98	0.99	-166.62	-3,933.37	-935.74	4,043.15	4,041.18	1.97	2,052.042		
600.00	600.00	582.45	582.42	1.21	1.17	-166.61	-3,933.30	-936.39	4,043.23	4,040.85	2.38	1,700.548		
700.00	700.00	674.32	674.29	1.43	1.35	-166.60	-3,933.46	-936.86	4,043.52	4,040.74	2.78	1,454.790		
800.00	800.00	785.44	785.41	1.66	1.59	-166.59	-3,933.66	-937.51	4,043.84	4,040.59	3.25	1,245.827		
900.00	900.00	878.98	878.94	1.88	1.77	-166.59	-3,933.73	-937.83	4,043.99	4,040.35	3.65	1,108.802		
1,000.00	1,000.00	980.31	980.27	2.11	1.95	-166.59	-3,933.98	-938.06	4,044.28	4,040.22	4.06	996.053		
1,100.00	1,100.00	1,085.75	1,085.72	2.33	2.16	-166.58	-3,934.08	-938.44	4,044.46	4,039.96	4.50	899.466		
1,200.00	1,200.00	1,173.20	1,173.17	2.56	2.32	-166.58	-3,934.26	-938.51	4,044.69	4,039.81	4.88	828.854		
1,300.00	1,300.00	1,268.31	1,268.27	2.78	2.52	-166.58	-3,934.70	-938.82	4,045.21	4,039.90	5.30	762.855		
1,400.00	1,399.98	1,379.11	1,379.07	3.00	2.79	157.02	-3,935.01	-939.60	4,047.26	4,041.46	5.80	697.718		
1,500.00	1,499.84	1,481.40	1,481.36	3.23	3.05	157.02	-3,935.09	-940.20	4,052.29	4,046.00	6.28	644.778		
1,600.00	1,599.45	1,570.98	1,570.94	3.45	3.28	157.00	-3,935.27	-940.64	4,060.62	4,053.89	6.73	603.346		
1,700.00	1,698.70	1,669.52	1,669.47	3.69	3.53	156.98	-3,935.64	-941.25	4,072.36	4,065.17	7.20	565.884		
1,800.00	1,797.61	1,793.83	1,793.78	3.95	3.84	157.07	-3,935.64	-942.39	4,086.15	4,078.42	7.74	528.203		
1,900.00	1,896.51	1,891.91	1,891.86	4.22	4.07	157.16	-3,935.29	-943.16	4,099.68	4,091.47	8.21	499.390		
2,000.00	1,995.40	1,982.29	1,982.24	4.51	4.30	157.24	-3,935.14	-943.65	4,113.33	4,104.66	8.68	474.085		
2,100.00	2,094.30	2,075.06	2,075.01	4.80	4.54	157.33	-3,935.14	-944.28	4,127.19	4,118.03	9.16	450.550		
2,200.00	2,193.19	2,192.52	2,192.45	5.10	4.83	157.44	-3,934.94	-945.40	4,140.97	4,131.27	9.70	426.864		
2,300.00	2,292.09	2,291.98	2,291.91	5.41	5.06	157.52	-3,934.54	-945.96	4,154.44	4,144.26	10.18	408.126		
2,400.00	2,390.98	2,397.21	2,397.14	5.72	5.26	157.61	-3,934.16	-946.15	4,167.86	4,157.24	10.62	392.415		
2,500.00	2,489.88	2,488.69	2,488.62	6.04	5.33	157.68	-3,933.97	-945.78	4,181.29	4,170.35	10.95	381.951		
2,600.00	2,588.77	2,582.54	2,582.47	6.36	5.36	157.74	-3,934.10	-944.72	4,194.89	4,183.65	11.23	373.433		
2,700.00	2,687.67	2,676.53	2,676.45	6.68	5.40	157.79	-3,934.34	-943.65	4,208.60	4,197.07	11.53	365.101		
2,800.00	2,786.56	2,762.26	2,762.18	7.01	5.45	157.85	-3,934.61	-943.18	4,222.51	4,210.68	11.84	356.775		
2,900.00	2,885.46	2,846.51	2,846.42	7.34	5.53	157.91	-3,935.23	-942.52	4,236.78	4,224.61	12.17	348.110		
3,000.00	2,984.36	2,945.78	2,945.69	7.67	5.65	157.97	-3,936.11	-942.24	4,251.32	4,238.77	12.55	338.740		
3,100.00	3,083.25	3,047.57	3,047.48	8.00	5.78	158.04	-3,936.76	-941.87	4,265.61	4,252.67	12.94	329.643		
3,200.00	3,182.15	3,139.39	3,139.29	8.34	5.91	158.10	-3,937.59	-941.41	4,280.11	4,266.79	13.33	321.182		
3,300.00	3,281.04	3,243.49	3,243.38	8.67	6.07	158.18	-3,938.41	-941.21	4,294.60	4,280.85	13.75	312.381		
3,400.00	3,379.94	3,337.45	3,337.35	9.01	6.22	158.24	-3,939.13	-940.76	4,309.01	4,294.85	14.16	304.377		
3,500.00	3,478.83	3,421.08	3,420.96	9.35	6.37	158.29	-3,940.02	-940.56	4,323.75	4,309.20	14.56	297.017		
3,600.00	3,577.73	3,514.16	3,514.04	9.69	6.54	158.35	-3,941.18	-940.34	4,338.68	4,323.69	14.99	289.440		
3,700.00	3,676.62	3,600.00	3,599.87	10.03	6.70	158.41	-3,942.60	-939.99	4,353.95	4,338.54	15.41	282.547		
3,800.00	3,775.52	3,678.48	3,678.33	10.37	6.86	158.46	-3,944.20	-939.71	4,369.59	4,353.77	15.82	276.132		
3,900.00	3,874.41	3,815.61	3,815.43	10.72	7.14	158.54	-3,946.51	-939.49	4,384.98	4,368.62	16.36	268.014		
4,000.00	3,973.31	3,900.00	3,899.82	11.06	7.31	158.60	-3,947.69	-939.23	4,400.06	4,383.27	16.79	262.028		
4,100.00	4,072.20	3,976.89	3,976.70	11.40	7.47	158.65	-3,949.05	-939.17	4,415.55	4,398.33	17.22	256.444		
4,200.00	4,171.10	4,089.87	4,089.66	11.75	7.73	158.72	-3,951.15	-939.55	4,431.26	4,413.53	17.73	249.893		
4,300.00	4,269.99	4,176.40	4,176.18	12.09	7.93	158.78	-3,952.63	-939.72	4,446.80	4,428.61	18.19	244.461		
4,400.00	4,368.89	4,271.23	4,270.99	12.44	8.15	158.84	-3,954.52	-939.91	4,462.59	4,443.92	18.67	239.044		
4,500.00	4,467.78	4,350.94	4,350.68	12.78	8.33	158.90	-3,956.18	-940.17	4,478.53	4,459.41	19.11	234.301		
4,600.00	4,566.68	4,430.44	4,430.15	13.13	8.52	158.95	-3,958.33	-940.39	4,495.02	4,475.46	19.56	229.812		
4,700.00	4,665.57	4,527.77	4,527.44	13.48	8.74	159.00	-3,961.22	-940.30	4,511.68	4,491.63	20.04	225.105		
4,800.00	4,764.47	4,619.58	4,619.21	13.82	8.95	159.05	-3,964.00	-940.10	4,528.37	4,507.86	20.51	220.766		
4,900.00	4,863.36	4,700.00	4,699.57	14.17	9.14	159.09	-3,966.81	-939.87	4,545.47	4,524.51	20.96	216.892		
5,000.00	4,962.26	4,804.27	4,803.78	14.52	9.38	159.15	-3,970.59	-939.72	4,562.76	4,541.30	21.46	212.618		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILLS 15-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	4,987.51	4,986.96	14.87	9.81	159.25	-3,974.86	-939.42	4,578.70	4,556.56	22.14	206.800		
5,200.00	5,160.05	5,147.84	5,147.28	15.21	10.16	159.36	-3,976.22	-939.67	4,593.51	4,570.77	22.74	201.967		
5,300.00	5,258.94	5,288.95	5,288.39	15.56	10.35	159.46	-3,975.10	-940.56	4,606.75	4,583.56	23.19	198.661		
5,400.00	5,357.84	5,400.00	5,399.42	15.91	10.46	159.55	-3,973.67	-941.28	4,619.60	4,596.03	23.56	196.040		
5,500.00	5,456.73	5,481.44	5,480.86	16.26	10.54	159.61	-3,972.72	-941.62	4,632.52	4,608.62	23.90	193.808		
5,600.00	5,555.63	5,579.77	5,579.19	16.61	10.64	159.68	-3,971.99	-941.78	4,645.78	4,621.52	24.26	191.493		
5,700.00	5,654.52	5,665.83	5,665.24	16.96	10.73	159.74	-3,971.35	-942.04	4,659.08	4,634.47	24.61	189.310		
5,800.00	5,753.42	5,759.81	5,759.22	17.31	10.83	159.80	-3,971.00	-942.12	4,672.68	4,647.70	24.98	187.079		
5,900.00	5,852.31	5,848.88	5,848.29	17.66	10.95	159.86	-3,970.66	-942.34	4,686.32	4,660.96	25.36	184.804		
6,000.00	5,951.21	5,933.05	5,932.46	18.01	11.09	159.91	-3,970.75	-942.21	4,700.32	4,674.56	25.76	182.483		
6,100.00	6,050.10	6,019.02	6,018.43	18.36	11.25	159.96	-3,971.04	-942.06	4,714.54	4,688.36	26.18	180.084		
6,200.00	6,149.00	6,100.00	6,099.40	18.71	11.41	160.00	-3,971.86	-941.56	4,729.25	4,702.64	26.60	177.782		
6,300.00	6,247.89	6,151.55	6,150.94	19.06	11.52	160.03	-3,972.78	-941.13	4,744.59	4,717.62	26.97	175.924		
6,400.00	6,346.79	6,227.67	6,227.03	19.41	11.68	160.06	-3,974.68	-940.79	4,760.73	4,733.34	27.39	173.805		
6,500.00	6,445.68	6,362.33	6,361.67	19.76	11.97	160.13	-3,977.51	-940.16	4,776.53	4,748.60	27.94	170.967		
6,600.00	6,544.58	6,500.00	6,499.31	20.11	12.25	160.19	-3,979.53	-938.76	4,791.59	4,763.12	28.47	168.308		
6,700.00	6,643.53	6,568.16	6,567.47	20.44	12.39	147.05	-3,980.34	-938.37	4,806.01	4,777.22	28.79	166.938		
6,800.00	6,743.00	6,700.00	6,699.29	20.62	12.69	58.96	-3,982.20	-938.03	4,808.80	4,779.77	29.03	165.634		
6,900.00	6,840.75	6,788.91	6,788.20	20.64	12.89	35.82	-3,982.92	-937.96	4,794.40	4,766.03	28.37	168.994		
7,000.00	6,933.82	6,894.70	6,893.99	20.54	13.14	30.46	-3,983.78	-938.01	4,763.93	4,736.91	27.01	176.360		
7,100.00	7,019.36	6,979.57	6,978.86	20.31	13.34	29.57	-3,984.32	-938.07	4,718.17	4,693.11	25.07	188.203		
7,200.00	7,094.79	7,045.97	7,045.25	20.01	13.50	31.14	-3,984.83	-938.03	4,658.82	4,635.86	22.96	202.928		
7,300.00	7,157.81	7,100.00	7,099.28	19.66	13.63	35.12	-3,985.32	-938.22	4,587.78	4,566.30	21.48	213.604		
7,400.00	7,206.51	7,187.79	7,187.07	19.29	13.83	43.13	-3,985.81	-938.53	4,506.95	4,484.77	22.18	203.218		
7,500.00	7,239.40	7,221.66	7,220.94	18.94	13.90	56.48	-3,985.84	-938.58	4,418.84	4,393.16	25.68	172.072		
7,600.00	7,255.49	7,235.13	7,234.41	18.63	13.93	78.01	-3,985.87	-938.61	4,326.43	4,296.01	30.42	142.228		
7,700.00	7,256.04	7,235.76	7,235.03	18.39	13.94	92.90	-3,985.87	-938.61	4,232.48	4,200.66	31.82	133.023		
7,800.00	7,253.91	7,234.15	7,233.43	18.51	13.93	92.84	-3,985.86	-938.60	4,138.70	4,106.38	32.32	128.072		
7,900.00	7,251.78	7,232.53	7,231.81	19.20	13.93	92.78	-3,985.86	-938.60	4,045.21	4,012.21	33.00	122.590		
8,000.00	7,249.65	7,230.90	7,230.18	20.08	13.92	92.71	-3,985.86	-938.60	3,952.04	3,918.19	33.85	116.758		
8,100.00	7,247.53	7,229.26	7,228.54	21.07	13.92	92.65	-3,985.86	-938.60	3,859.21	3,824.36	34.85	110.747		
8,200.00	7,245.40	7,227.60	7,226.88	22.17	13.92	92.58	-3,985.85	-938.59	3,766.75	3,730.77	35.98	104.702		
8,300.00	7,243.27	7,225.94	7,225.21	23.36	13.91	92.52	-3,985.85	-938.59	3,674.68	3,637.46	37.22	98.738		
8,400.00	7,241.14	7,224.26	7,223.53	24.64	13.91	92.45	-3,985.85	-938.59	3,583.04	3,544.48	38.55	92.939		
8,500.00	7,239.01	7,222.56	7,221.84	25.98	13.91	92.38	-3,985.84	-938.58	3,491.85	3,451.88	39.97	87.362		
8,600.00	7,236.89	7,220.86	7,220.14	27.39	13.90	92.32	-3,985.84	-938.58	3,401.16	3,359.70	41.46	82.043		
8,700.00	7,234.76	7,219.14	7,218.42	28.85	13.90	92.25	-3,985.84	-938.58	3,311.00	3,268.00	43.00	76.998		
8,800.00	7,232.63	7,217.41	7,216.69	30.36	13.89	92.18	-3,985.84	-938.58	3,221.43	3,176.83	44.60	72.236		
8,900.00	7,230.50	7,215.66	7,214.94	31.91	13.89	92.11	-3,985.84	-938.57	3,132.48	3,086.25	46.23	67.753		
9,000.00	7,228.38	7,213.90	7,213.18	33.49	13.89	92.04	-3,985.83	-938.57	3,044.22	2,996.31	47.91	63.543		
9,100.00	7,226.25	7,212.13	7,211.41	35.11	13.88	91.97	-3,985.83	-938.57	2,956.70	2,907.09	49.61	59.594		
9,200.00	7,224.12	7,210.35	7,209.62	36.75	13.88	91.90	-3,985.83	-938.56	2,870.00	2,818.65	51.35	55.894		
9,300.00	7,221.99	7,208.55	7,207.82	38.41	13.87	91.83	-3,985.83	-938.56	2,784.19	2,731.09	53.10	52.429		
9,400.00	7,219.86	7,206.73	7,206.01	40.10	13.87	91.76	-3,985.83	-938.56	2,699.36	2,644.47	54.88	49.185		
9,500.00	7,217.74	7,200.00	7,199.28	41.80	13.85	91.49	-3,985.82	-938.55	2,615.60	2,558.96	56.64	46.180		
9,600.00	7,215.61	7,200.00	7,199.28	43.53	13.85	91.49	-3,985.82	-938.55	2,533.01	2,474.54	58.47	43.325		
9,700.00	7,213.48	7,200.00	7,199.28	45.26	13.85	91.49	-3,985.82	-938.55	2,451.71	2,391.41	60.30	40.655		
9,800.00	7,211.35	7,199.04	7,198.32	47.01	13.85	91.46	-3,985.82	-938.55	2,371.85	2,309.70	62.15	38.164		
9,900.00	7,209.22	7,196.38	7,195.66	48.77	13.85	91.35	-3,985.82	-938.54	2,293.56	2,229.57	63.99	35.841		
10,000.00	7,207.10	7,193.79	7,193.07	50.54	13.84	91.25	-3,985.82	-938.54	2,217.02	2,151.18	65.85	33.670		
10,100.00	7,204.97	7,191.25	7,190.53	52.32	13.83	91.15	-3,985.81	-938.54	2,142.41	2,074.70	67.71	31.641		
10,200.00	7,202.84	7,188.77	7,188.05	54.11	13.83	91.05	-3,985.81	-938.53	2,069.94	2,000.36	69.58	29.749		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-MILLS 15-26 offset - HSR-MILLS 15-26 - HSR-MILLS 15-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,186.35	7,185.63	55.91	13.82	90.96	-3,985.81	-938.53	1,999.85	1,928.39	71.46	27.986	
10,400.00	7,198.59	7,183.98	7,183.26	57.72	13.82	90.86	-3,985.80	-938.52	1,932.38	1,859.04	73.35	26.346	
10,500.00	7,196.46	7,181.66	7,180.94	59.53	13.81	90.77	-3,985.80	-938.52	1,867.83	1,792.60	75.24	24.826	
10,600.00	7,194.33	7,179.39	7,178.67	61.34	13.81	90.68	-3,985.79	-938.51	1,806.51	1,729.38	77.14	23.420	
10,700.00	7,192.20	7,177.17	7,176.45	63.17	13.80	90.59	-3,985.79	-938.51	1,748.77	1,669.73	79.04	22.125	
10,800.00	7,190.07	7,175.00	7,174.27	64.99	13.80	90.51	-3,985.78	-938.50	1,694.95	1,614.00	80.95	20.939	
10,900.00	7,187.95	7,172.87	7,172.15	66.83	13.79	90.42	-3,985.78	-938.50	1,645.46	1,562.60	82.86	19.858	
11,000.00	7,185.82	7,170.79	7,170.06	68.66	13.79	90.34	-3,985.77	-938.49	1,600.69	1,515.91	84.78	18.881	
11,100.00	7,183.69	7,168.74	7,168.02	70.50	13.78	90.26	-3,985.76	-938.49	1,561.04	1,474.35	86.70	18.006	
11,200.00	7,181.56	7,166.74	7,166.02	72.35	13.78	90.18	-3,985.76	-938.48	1,526.92	1,438.31	88.62	17.230	
11,300.00	7,179.44	7,164.78	7,164.06	74.19	13.77	90.10	-3,985.75	-938.48	1,498.71	1,408.17	90.55	16.552	
11,400.00	7,177.31	7,162.86	7,162.14	76.04	13.77	90.03	-3,985.74	-938.47	1,476.74	1,384.27	92.48	15.969	
11,500.00	7,175.18	7,160.98	7,160.26	77.90	13.76	89.95	-3,985.73	-938.47	1,461.30	1,366.89	94.41	15.478	
11,600.00	7,173.05	7,159.13	7,158.41	79.75	13.76	89.88	-3,985.73	-938.46	1,452.59	1,356.25	96.34	15.077	
11,676.93	7,171.41	7,157.74	7,157.02	81.18	13.76	89.83	-3,985.72	-938.46	1,450.55	1,352.70	97.86	14.823 CC	
11,700.00	7,170.92	7,157.32	7,156.60	81.61	13.76	89.81	-3,985.72	-938.46	1,450.74	1,352.46	98.28	14.761 ES	
11,800.00	7,168.80	7,155.55	7,154.83	83.47	13.75	89.74	-3,985.71	-938.45	1,455.76	1,355.54	100.22	14.525	
11,837.41	7,168.00	7,154.89	7,154.17	84.17	13.75	89.71	-3,985.71	-938.45	1,459.40	1,358.45	100.95	14.457 SF	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.74	16.26	-3,573.13	3,574.25					
100.00	100.00	11.01	11.01	0.08	0.01	-89.74	16.26	-3,573.13	3,573.17	3,573.07	0.10	N/A CC		
200.00	200.00	103.01	103.01	0.31	0.14	-89.74	16.40	-3,573.26	3,573.31	3,572.86	0.45	7,947.924		
300.00	300.00	201.99	201.99	0.53	0.40	-89.73	16.56	-3,573.53	3,573.58	3,572.65	0.93	3,843.455		
400.00	400.00	306.63	306.63	0.76	0.62	-89.74	16.51	-3,573.75	3,573.79	3,572.41	1.38	2,598.248		
500.00	500.00	403.47	403.47	0.98	0.82	-89.74	16.31	-3,573.94	3,573.98	3,572.18	1.80	1,983.004		
600.00	600.00	500.00	500.00	1.21	1.05	-89.74	16.23	-3,574.23	3,574.29	3,572.03	2.26	1,580.041		
700.00	700.00	605.07	605.07	1.43	1.33	-89.74	16.25	-3,574.52	3,574.57	3,571.81	2.76	1,295.733		
800.00	800.00	700.00	700.00	1.66	1.56	-89.74	16.37	-3,574.83	3,574.89	3,571.67	3.22	1,110.249		
900.00	900.00	804.43	804.43	1.88	1.79	-89.73	16.73	-3,575.17	3,575.22	3,571.55	3.67	973.827		
1,000.00	1,000.00	902.71	902.70	2.11	1.99	-89.72	17.18	-3,575.40	3,575.45	3,571.35	4.10	872.078		
1,100.00	1,100.00	1,000.00	999.99	2.33	2.22	-89.72	17.54	-3,575.69	3,575.75	3,571.20	4.55	785.224		
1,200.00	1,200.00	1,103.78	1,103.77	2.56	2.47	-89.71	17.93	-3,575.98	3,576.04	3,571.01	5.03	711.520		
1,300.00	1,300.00	1,204.99	1,204.98	2.78	2.70	-89.70	18.42	-3,576.19	3,576.25	3,570.77	5.48	652.698 ES		
1,400.00	1,399.98	1,303.63	1,303.62	3.00	2.92	-126.10	19.05	-3,576.40	3,577.49	3,571.56	5.93	603.558		
1,500.00	1,499.84	1,400.00	1,399.99	3.23	3.15	-126.10	19.76	-3,576.70	3,580.89	3,574.52	6.38	561.705		
1,600.00	1,599.45	1,489.60	1,489.58	3.45	3.38	-126.10	20.31	-3,577.15	3,586.54	3,579.71	6.82	525.544		
1,700.00	1,698.70	1,592.76	1,592.74	3.69	3.65	-126.13	20.70	-3,577.74	3,594.33	3,587.01	7.32	490.998		
1,800.00	1,797.61	1,696.63	1,696.60	3.95	3.91	-126.28	21.24	-3,578.19	3,603.51	3,595.69	7.82	460.726		
1,900.00	1,896.51	1,804.43	1,804.40	4.22	4.17	-126.47	22.06	-3,578.45	3,612.61	3,604.28	8.32	434.089		
2,000.00	1,995.40	1,914.38	1,914.35	4.51	4.37	-126.67	22.61	-3,578.41	3,621.46	3,612.67	8.79	412.162		
2,100.00	2,094.30	2,023.93	2,023.90	4.80	4.53	-126.87	23.01	-3,578.08	3,630.10	3,620.89	9.21	394.262		
2,200.00	2,193.19	2,140.50	2,140.46	5.10	4.69	-127.08	23.81	-3,577.17	3,638.27	3,628.64	9.63	377.684		
2,300.00	2,292.09	2,246.70	2,246.66	5.41	4.84	-127.26	24.74	-3,576.08	3,646.25	3,636.19	10.06	362.414		
2,400.00	2,390.98	2,351.87	2,351.81	5.72	4.99	-127.44	25.73	-3,574.74	3,654.01	3,643.52	10.49	348.388		
2,500.00	2,489.88	2,450.93	2,450.86	6.04	5.11	-127.62	26.19	-3,573.43	3,661.76	3,650.86	10.90	336.072		
2,600.00	2,588.77	2,543.00	2,542.92	6.36	5.22	-127.79	26.50	-3,572.25	3,669.60	3,658.30	11.30	324.861		
2,700.00	2,687.67	2,633.53	2,633.45	6.68	5.34	-127.95	26.76	-3,571.36	3,677.77	3,666.06	11.71	314.199		
2,800.00	2,786.56	2,731.62	2,731.54	7.01	5.48	-128.12	27.00	-3,570.46	3,686.03	3,673.90	12.14	303.750		
2,900.00	2,885.46	2,826.16	2,826.07	7.34	5.63	-128.29	27.24	-3,569.69	3,694.44	3,681.87	12.57	293.861		
3,000.00	2,984.36	2,924.94	2,924.85	7.67	5.79	-128.47	27.55	-3,568.84	3,702.94	3,689.90	13.03	284.107		
3,100.00	3,083.25	3,022.44	3,022.35	8.00	5.98	-128.63	27.97	-3,568.21	3,711.47	3,697.95	13.51	274.684		
3,200.00	3,182.15	3,115.87	3,115.78	8.34	6.17	-128.80	28.44	-3,567.64	3,720.17	3,706.17	14.00	265.719		
3,300.00	3,281.04	3,221.17	3,221.07	8.67	6.40	-128.97	29.09	-3,566.95	3,728.85	3,714.33	14.52	256.817		
3,400.00	3,379.94	3,316.47	3,316.36	9.01	6.57	-129.14	29.36	-3,566.28	3,737.53	3,722.54	14.99	249.280		
3,500.00	3,478.83	3,407.31	3,407.20	9.35	6.72	-129.30	29.36	-3,565.80	3,746.44	3,731.00	15.43	242.730		
3,600.00	3,577.73	3,514.58	3,514.47	9.69	6.90	-129.49	29.46	-3,565.19	3,755.33	3,739.42	15.92	235.947		
3,700.00	3,676.62	3,600.00	3,599.89	10.03	7.06	-129.64	29.50	-3,564.67	3,764.24	3,747.88	16.37	229.996		
3,800.00	3,775.52	3,684.70	3,684.59	10.37	7.15	-129.79	29.24	-3,564.44	3,773.55	3,756.79	16.76	225.143		
3,900.00	3,874.41	3,765.53	3,765.42	10.72	7.22	-129.94	28.73	-3,564.67	3,783.44	3,766.32	17.13	220.929		
4,000.00	3,973.31	3,848.13	3,848.01	11.06	7.29	-130.09	28.12	-3,565.27	3,793.81	3,776.32	17.49	216.880		
4,100.00	4,072.20	3,932.08	3,931.96	11.40	7.37	-130.24	27.27	-3,566.21	3,804.62	3,786.75	17.87	212.905		
4,200.00	4,171.10	4,023.57	4,023.42	11.75	7.46	-130.41	26.17	-3,567.54	3,815.81	3,797.55	18.26	208.940		
4,300.00	4,269.99	4,152.80	4,152.64	12.09	7.62	-130.65	25.17	-3,569.08	3,826.79	3,808.07	18.72	204.476		
4,400.00	4,368.89	4,284.54	4,284.39	12.44	7.84	-130.87	25.27	-3,569.44	3,836.77	3,817.54	19.23	199.504		
4,500.00	4,467.78	4,393.61	4,393.45	12.78	8.09	-131.04	26.00	-3,569.24	3,846.30	3,826.53	19.77	194.551		
4,600.00	4,566.68	4,486.29	4,486.12	13.13	8.30	-131.19	26.58	-3,569.03	3,855.83	3,835.55	20.28	190.125		
4,700.00	4,665.57	4,587.78	4,587.62	13.48	8.54	-131.34	27.35	-3,568.88	3,865.46	3,844.64	20.81	185.709		
4,800.00	4,764.47	4,680.40	4,680.23	13.82	8.76	-131.48	28.23	-3,568.78	3,875.13	3,853.80	21.33	181.670		
4,900.00	4,863.36	4,791.44	4,791.27	14.17	9.02	-131.65	29.26	-3,568.65	3,884.83	3,862.94	21.89	177.481		
5,000.00	4,962.26	4,911.51	4,911.32	14.52	9.30	-131.83	30.51	-3,567.93	3,894.06	3,871.60	22.46	173.395		
5,100.00	5,061.15	5,011.94	5,011.75	14.87	9.49	-131.99	30.90	-3,566.97	3,903.03	3,880.08	22.94	170.127		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-ROZEMA 4-26 offset - HSR-ROZEMA 4-26 - HSR-ROZEMA 4-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,200.00	5,160.05	5,100.00	5,099.81	15.21	9.61	-132.14	30.63	-3,566.21	3,912.18	3,888.82	23.36	167.442		
5,300.00	5,258.94	5,194.95	5,194.75	15.56	9.75	-132.30	30.37	-3,565.57	3,921.56	3,897.76	23.80	164.763		
5,400.00	5,357.84	5,298.05	5,297.85	15.91	9.91	-132.47	30.13	-3,564.86	3,930.96	3,906.70	24.26	162.067		
5,500.00	5,456.73	5,395.62	5,395.42	16.26	10.06	-132.63	29.78	-3,564.14	3,940.35	3,915.65	24.70	159.556		
5,600.00	5,555.63	5,489.22	5,489.01	16.61	10.24	-132.78	29.81	-3,563.57	3,949.85	3,924.68	25.17	156.931		
5,700.00	5,654.52	5,573.27	5,573.06	16.96	10.43	-132.91	30.13	-3,563.29	3,959.62	3,933.97	25.65	154.348		
5,800.00	5,753.42	5,667.02	5,666.82	17.31	10.65	-133.05	30.49	-3,563.28	3,969.73	3,943.57	26.16	151.720		
5,900.00	5,852.31	5,761.04	5,760.84	17.66	10.86	-133.19	31.09	-3,563.36	3,979.93	3,953.26	26.67	149.226		
6,000.00	5,951.21	5,867.65	5,867.44	18.01	11.10	-133.35	31.64	-3,563.50	3,990.22	3,963.02	27.20	146.693		
6,100.00	6,050.10	5,966.31	5,966.09	18.36	11.33	-133.48	32.75	-3,563.48	4,000.30	3,972.58	27.72	144.290		
6,200.00	6,149.00	6,075.89	6,075.65	18.71	11.59	-133.63	34.66	-3,563.55	4,010.42	3,982.15	28.28	141.828		
6,300.00	6,247.89	6,174.37	6,174.12	19.06	11.83	-133.75	36.51	-3,563.39	4,020.31	3,991.50	28.81	139.562		
6,400.00	6,346.79	6,277.09	6,276.82	19.41	12.08	-133.89	38.03	-3,563.21	4,030.26	4,000.92	29.35	137.329		
6,500.00	6,445.68	6,386.06	6,385.79	19.76	12.35	-134.03	39.41	-3,562.78	4,040.05	4,010.15	29.90	135.101		
6,600.00	6,544.58	6,474.36	6,474.08	20.11	12.56	-134.15	40.61	-3,562.41	4,049.83	4,019.41	30.41	133.162		
6,700.00	6,643.53	6,561.21	6,560.92	20.44	12.77	-147.59	41.47	-3,562.29	4,059.87	4,028.98	30.89	131.416		
6,800.00	6,743.00	6,671.46	6,671.17	20.62	13.04	123.48	42.62	-3,562.28	4,068.34	4,037.07	31.27	130.098		
6,900.00	6,840.75	6,770.92	6,770.62	20.64	13.28	99.48	43.29	-3,561.88	4,073.96	4,042.44	31.52	129.244		
7,000.00	6,933.82	6,854.40	6,854.11	20.54	13.48	92.96	43.59	-3,561.64	4,077.28	4,045.64	31.64	128.878		
7,100.00	7,019.36	6,943.31	6,943.01	20.31	13.69	90.54	43.76	-3,561.53	4,078.64	4,046.95	31.69	128.689		
7,200.00	7,094.79	7,029.85	7,029.56	20.01	13.89	89.80	43.93	-3,561.12	4,078.10	4,046.40	31.70	128.646		
7,300.00	7,157.81	7,089.53	7,089.23	19.66	14.01	89.65	44.04	-3,560.82	4,076.60	4,044.96	31.63	128.878		
7,400.00	7,206.51	7,132.75	7,132.45	19.29	14.09	89.78	44.09	-3,560.64	4,074.84	4,043.28	31.56	129.134		
7,500.00	7,239.40	7,161.45	7,161.15	18.94	14.13	89.98	44.09	-3,560.56	4,073.40	4,041.86	31.54	129.135		
7,600.00	7,255.49	7,175.57	7,175.27	18.63	14.15	90.10	44.09	-3,560.53	4,072.66	4,041.02	31.64	128.719		
7,628.78	7,257.25	7,177.12	7,176.82	18.53	14.15	90.11	44.09	-3,560.53	4,072.64	4,040.93	31.71	128.434		
7,700.00	7,256.04	7,176.09	7,175.80	18.39	14.15	90.09	44.09	-3,560.53	4,072.98	4,041.12	31.87	127.809		
7,800.00	7,253.91	7,174.27	7,173.97	18.51	14.15	90.07	44.09	-3,560.53	4,075.54	4,043.26	32.28	126.256		
7,900.00	7,251.78	7,172.44	7,172.14	19.20	14.15	90.04	44.09	-3,560.54	4,080.54	4,047.66	32.88	124.110		
8,000.00	7,249.65	7,170.60	7,170.30	20.08	14.14	90.02	44.09	-3,560.54	4,087.98	4,054.31	33.67	121.400		
8,100.00	7,247.53	7,168.76	7,168.46	21.07	14.14	89.99	44.09	-3,560.55	4,097.85	4,063.17	34.68	118.174		
8,200.00	7,245.40	7,166.90	7,166.60	22.17	14.14	89.96	44.09	-3,560.55	4,110.12	4,074.31	35.81	114.776		
8,300.00	7,243.27	7,165.03	7,164.73	23.36	14.14	89.94	44.09	-3,560.55	4,124.79	4,087.73	37.06	111.312		
8,400.00	7,241.14	7,163.16	7,162.86	24.64	14.13	89.91	44.09	-3,560.56	4,141.82	4,103.42	38.40	107.865		
8,500.00	7,239.01	7,161.27	7,160.97	25.98	14.13	89.88	44.09	-3,560.56	4,161.18	4,121.35	39.82	104.494		
8,600.00	7,236.89	7,159.38	7,159.08	27.39	14.13	89.86	44.09	-3,560.57	4,182.84	4,141.52	41.32	101.242		
8,700.00	7,234.76	7,157.47	7,157.18	28.85	14.12	89.83	44.09	-3,560.57	4,206.76	4,163.90	42.87	98.134		
8,800.00	7,232.63	7,155.56	7,155.26	30.36	14.12	89.80	44.09	-3,560.58	4,232.92	4,188.45	44.47	95.187		
8,900.00	7,230.50	7,153.64	7,153.34	31.91	14.12	89.78	44.09	-3,560.58	4,261.25	4,215.14	46.11	92.406		
9,000.00	7,228.38	7,151.71	7,151.41	33.49	14.11	89.75	44.09	-3,560.59	4,291.74	4,243.94	47.80	89.792		
9,100.00	7,226.25	7,149.77	7,149.47	35.11	14.11	89.72	44.09	-3,560.59	4,324.31	4,274.80	49.51	87.343		
9,200.00	7,224.12	7,147.81	7,147.52	36.75	14.11	89.70	44.09	-3,560.60	4,358.94	4,307.69	51.25	85.052		
9,300.00	7,221.99	7,145.85	7,145.55	38.41	14.11	89.67	44.09	-3,560.60	4,395.57	4,342.56	53.01	82.913		
9,400.00	7,219.86	7,143.88	7,143.58	40.10	14.10	89.64	44.09	-3,560.61	4,434.16	4,379.36	54.80	80.916		
9,500.00	7,217.74	7,141.90	7,141.60	41.80	14.10	89.61	44.09	-3,560.62	4,474.64	4,418.04	56.60	79.054		
9,600.00	7,215.61	7,139.91	7,139.61	43.53	14.10	89.58	44.09	-3,560.62	4,516.97	4,458.55	58.42	77.318		
9,700.00	7,213.48	7,137.91	7,137.61	45.26	14.09	89.56	44.09	-3,560.63	4,561.11	4,500.85	60.25	75.699		
9,800.00	7,211.35	7,135.90	7,135.60	47.01	14.09	89.53	44.09	-3,560.63	4,606.99	4,544.89	62.10	74.188		
9,900.00	7,209.22	7,133.88	7,133.58	48.77	14.09	89.50	44.09	-3,560.64	4,654.56	4,590.61	63.96	72.779		
10,000.00	7,207.10	7,131.85	7,131.55	50.54	14.08	89.47	44.09	-3,560.65	4,703.79	4,637.96	65.82	71.463		
10,100.00	7,204.97	7,129.80	7,129.51	52.32	14.08	89.44	44.08	-3,560.66	4,754.60	4,686.90	67.70	70.234		
10,200.00	7,202.84	7,127.75	7,127.45	54.11	14.08	89.41	44.08	-3,560.66	4,806.95	4,737.38	69.58	69.086		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-ROZEMA 4-26 offset - HSR-ROZEMA 4-26 - HSR-ROZEMA 4-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,125.69	7,125.39	55.91	14.07	89.38	44.08	-3,560.67	4,860.80	4,789.33	71.47	68.013	
10,400.00	7,198.59	7,123.61	7,123.32	57.72	14.07	89.35	44.08	-3,560.68	4,916.09	4,842.73	73.37	67.008	
10,500.00	7,196.46	7,121.53	7,121.23	59.53	14.07	89.33	44.08	-3,560.69	4,972.78	4,897.51	75.27	66.068	
10,600.00	7,194.33	7,119.44	7,119.14	61.34	14.06	89.30	44.08	-3,560.69	5,030.82	4,953.64	77.18	65.187	
10,700.00	7,192.20	7,117.33	7,117.03	63.17	14.06	89.27	44.07	-3,560.70	5,090.16	5,011.07	79.09	64.360	
10,800.00	7,190.07	7,115.21	7,114.91	64.99	14.06	89.24	44.07	-3,560.71	5,150.75	5,069.75	81.01	63.585	
10,900.00	7,187.95	7,113.08	7,112.78	66.83	14.05	89.21	44.07	-3,560.72	5,212.56	5,129.63	82.93	62.858	
11,000.00	7,185.82	7,110.94	7,110.65	68.66	14.05	89.18	44.07	-3,560.73	5,275.54	5,190.69	84.85	62.174	
11,100.00	7,183.69	7,108.79	7,108.49	70.50	14.05	89.15	44.06	-3,560.74	5,339.65	5,252.87	86.78	61.531	
11,200.00	7,181.56	7,106.63	7,106.33	72.35	14.04	89.12	44.06	-3,560.75	5,404.84	5,316.13	88.71	60.927	
11,300.00	7,179.44	7,104.46	7,104.16	74.19	14.04	89.09	44.06	-3,560.75	5,471.09	5,380.44	90.64	60.357	
11,400.00	7,177.31	7,102.27	7,101.97	76.04	14.04	89.05	44.06	-3,560.76	5,538.35	5,445.77	92.58	59.821	
11,500.00	7,175.18	7,100.00	7,099.70	77.90	14.03	89.02	44.05	-3,560.77	5,606.58	5,512.06	94.52	59.316	
11,600.00	7,173.05	7,097.86	7,097.56	79.75	14.03	88.99	44.05	-3,560.78	5,675.76	5,579.30	96.46	58.840	
11,700.00	7,170.92	7,095.64	7,095.34	81.61	14.02	88.96	44.05	-3,560.79	5,745.84	5,647.44	98.40	58.390	
11,800.00	7,168.80	7,093.41	7,093.12	83.47	14.02	88.93	44.04	-3,560.80	5,816.80	5,716.45	100.35	57.966	
11,837.41	7,168.00	7,092.58	7,092.28	84.17	14.02	88.92	44.04	-3,560.81	5,843.57	5,742.49	101.08	57.813 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-RUSSELL 3-26A offset - HSR-Russell 3-26A - HSR-Russell 3-26A													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.17	-7.20	-2,422.87	2,423.84					
100.00	100.00	33.57	33.57	0.08	0.04	-90.17	-7.21	-2,422.86	2,422.87	2,422.74	0.13	N/A		
200.00	200.00	136.49	136.49	0.31	0.23	-90.17	-7.37	-2,422.71	2,422.72	2,422.18	0.54	4,500.064		
291.72	291.72	223.73	223.73	0.52	0.43	-90.18	-7.57	-2,422.57	2,422.58	2,421.64	0.95	2,559.903 CC		
300.00	300.00	230.76	230.76	0.53	0.44	-90.18	-7.57	-2,422.57	2,422.59	2,421.61	0.97	2,484.796 ES		
400.00	400.00	319.32	319.32	0.76	0.56	-90.18	-7.51	-2,422.89	2,422.93	2,421.62	1.32	1,840.521		
500.00	500.00	423.00	423.00	0.98	0.68	-90.17	-7.17	-2,423.35	2,423.37	2,421.72	1.66	1,461.287		
600.00	600.00	520.84	520.84	1.21	0.86	-90.17	-7.07	-2,423.68	2,423.72	2,421.65	2.07	1,172.314		
700.00	700.00	605.75	605.74	1.43	1.05	-90.17	-7.26	-2,424.36	2,424.52	2,422.03	2.49	975.240		
800.00	800.00	716.38	716.37	1.66	1.32	-90.19	-7.85	-2,425.28	2,425.34	2,422.37	2.98	814.775		
900.00	900.00	814.62	814.61	1.88	1.56	-90.20	-8.50	-2,425.93	2,426.00	2,422.56	3.44	704.545		
1,000.00	1,000.00	909.35	909.32	2.11	1.80	-90.21	-8.93	-2,426.74	2,426.87	2,422.96	3.91	621.302		
1,100.00	1,100.00	1,022.38	1,022.36	2.33	2.08	-90.22	-9.43	-2,427.44	2,427.47	2,423.06	4.42	549.734		
1,200.00	1,200.00	1,121.63	1,121.60	2.56	2.34	-90.23	-9.73	-2,427.83	2,427.87	2,422.98	4.89	496.092		
1,300.00	1,300.00	1,218.20	1,218.18	2.78	2.59	-90.23	-9.92	-2,428.32	2,428.38	2,423.01	5.37	452.388		
1,400.00	1,399.98	1,317.21	1,317.18	3.00	2.84	-126.65	-10.11	-2,428.91	2,430.02	2,424.17	5.85	415.508		
1,500.00	1,499.84	1,416.85	1,416.82	3.23	3.10	-126.69	-10.30	-2,429.50	2,433.74	2,427.41	6.33	384.688		
1,600.00	1,599.45	1,511.60	1,511.57	3.45	3.35	-126.76	-10.49	-2,430.20	2,439.70	2,432.91	6.79	359.165		
1,700.00	1,698.70	1,616.48	1,616.44	3.69	3.62	-126.87	-10.73	-2,430.91	2,447.72	2,440.43	7.29	335.768		
1,800.00	1,797.61	1,716.66	1,716.62	3.95	3.87	-127.11	-10.81	-2,431.49	2,457.21	2,449.44	7.77	316.102		
1,900.00	1,896.51	1,823.31	1,823.27	4.22	4.07	-127.40	-10.48	-2,431.88	2,466.61	2,458.39	8.22	300.121		
2,000.00	1,995.40	1,925.43	1,925.39	4.51	4.22	-127.67	-10.22	-2,432.00	2,475.82	2,467.19	8.63	286.880		
2,100.00	2,094.30	2,020.89	2,020.85	4.80	4.42	-127.93	-10.17	-2,432.15	2,485.12	2,476.03	9.09	273.411		
2,200.00	2,193.19	2,116.28	2,116.24	5.10	4.66	-128.19	-10.28	-2,432.41	2,494.60	2,485.00	9.60	259.871		
2,300.00	2,292.09	2,210.31	2,210.27	5.41	4.90	-128.45	-10.67	-2,432.84	2,504.33	2,494.22	10.11	247.720		
2,400.00	2,390.98	2,310.68	2,310.63	5.72	5.14	-128.73	-11.36	-2,433.32	2,514.15	2,503.52	10.63	236.599		
2,500.00	2,489.88	2,400.00	2,399.95	6.04	5.35	-128.98	-11.91	-2,433.78	2,524.07	2,512.95	11.12	226.914		
2,600.00	2,588.77	2,490.10	2,490.05	6.36	5.59	-129.23	-12.36	-2,434.57	2,534.40	2,522.76	11.64	217.740		
2,700.00	2,687.67	2,588.46	2,588.39	6.68	5.84	-129.49	-12.76	-2,435.78	2,545.12	2,532.94	12.18	208.938		
2,800.00	2,786.56	2,691.22	2,691.15	7.01	6.11	-129.76	-13.02	-2,436.96	2,555.79	2,543.06	12.74	200.679		
2,900.00	2,885.46	2,796.92	2,796.85	7.34	6.38	-130.04	-13.57	-2,437.92	2,566.31	2,553.02	13.29	193.078		
3,000.00	2,984.36	2,898.52	2,898.44	7.67	6.63	-130.32	-14.46	-2,438.61	2,576.68	2,562.85	13.83	186.337		
3,100.00	3,083.25	2,995.27	2,995.19	8.00	6.88	-130.57	-15.12	-2,439.28	2,587.10	2,572.73	14.36	180.146		
3,200.00	3,182.15	3,082.53	3,082.44	8.34	7.10	-130.80	-15.60	-2,440.10	2,597.81	2,582.93	14.88	174.591		
3,300.00	3,281.04	3,178.15	3,178.05	8.67	7.36	-131.05	-16.31	-2,441.30	2,608.90	2,593.48	15.42	169.192		
3,400.00	3,379.94	3,276.45	3,276.34	9.01	7.61	-131.31	-17.18	-2,442.56	2,620.08	2,604.11	15.97	164.108		
3,500.00	3,478.83	3,374.79	3,374.66	9.35	7.87	-131.57	-18.03	-2,443.83	2,631.32	2,614.80	16.51	159.363		
3,600.00	3,577.73	3,479.74	3,479.61	9.69	8.14	-131.82	-18.36	-2,445.15	2,642.53	2,625.45	17.07	154.789		
3,700.00	3,676.62	3,583.74	3,583.60	10.03	8.40	-132.07	-18.38	-2,446.23	2,653.53	2,635.90	17.63	150.546		
3,800.00	3,775.52	3,686.20	3,686.05	10.37	8.64	-132.31	-18.20	-2,447.15	2,664.42	2,646.26	18.16	146.753		
3,900.00	3,874.41	3,795.50	3,795.35	10.72	8.84	-132.54	-17.14	-2,447.95	2,675.11	2,656.47	18.64	143.534		
4,000.00	3,973.31	3,884.88	3,884.71	11.06	8.97	-132.72	-15.62	-2,448.64	2,685.78	2,666.72	19.06	140.925		
4,100.00	4,072.20	4,025.63	4,025.42	11.40	9.12	-132.98	-12.43	-2,448.99	2,695.90	2,676.40	19.50	138.231		
4,200.00	4,171.10	4,133.22	4,132.97	11.75	9.20	-133.17	-9.56	-2,448.36	2,705.18	2,685.31	19.87	136.131		
4,300.00	4,269.99	4,244.98	4,244.70	12.09	9.26	-133.38	-7.18	-2,447.11	2,714.02	2,693.79	20.23	134.190		
4,400.00	4,368.89	4,354.92	4,354.62	12.44	9.31	-133.59	-5.41	-2,445.40	2,722.54	2,701.97	20.56	132.409		
4,500.00	4,467.78	4,464.87	4,464.52	12.78	9.35	-133.81	-3.57	-2,443.21	2,730.63	2,709.74	20.90	130.661		
4,600.00	4,566.68	4,573.50	4,573.10	13.13	9.41	-134.02	-1.40	-2,440.72	2,738.43	2,717.19	21.24	128.911		
4,700.00	4,665.57	4,699.54	4,699.05	13.48	9.48	-134.24	1.82	-2,437.16	2,745.68	2,724.07	21.61	127.077		
4,800.00	4,764.47	4,804.70	4,804.09	13.82	9.56	-134.41	5.51	-2,433.64	2,752.29	2,730.31	21.97	125.251		
4,900.00	4,863.36	4,919.88	4,919.12	14.17	9.65	-134.59	9.48	-2,429.35	2,758.55	2,736.20	22.35	123.417		
5,000.00	4,962.26	5,023.40	5,022.51	14.52	9.72	-134.80	11.33	-2,424.62	2,764.24	2,741.52	22.71	121.702		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-RUSSELL 3-26A offset - HSR-Russell 3-26A - HSR-Russell 3-26A													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
5,100.00	5,061.15	5,100.00	5,099.05	14.87	9.77	-134.96	11.90	-2,421.61	2,770.69	2,747.64	23.06	120.172		
5,200.00	5,160.05	5,165.47	5,164.49	15.21	9.82	-135.11	11.93	-2,419.64	2,778.17	2,754.78	23.40	118.736		
5,300.00	5,258.94	5,245.55	5,244.54	15.56	9.89	-135.30	11.29	-2,417.75	2,786.52	2,762.77	23.75	117.308		
5,400.00	5,357.84	5,331.74	5,330.71	15.91	9.97	-135.51	10.45	-2,416.16	2,795.47	2,771.35	24.12	115.892		
5,500.00	5,456.73	5,424.63	5,423.59	16.26	10.06	-135.73	9.66	-2,414.79	2,804.81	2,780.31	24.50	114.484		
5,600.00	5,555.63	5,531.73	5,530.68	16.61	10.17	-135.96	9.32	-2,413.29	2,814.17	2,789.28	24.89	113.067		
5,700.00	5,654.52	5,640.69	5,639.62	16.96	10.28	-136.19	9.67	-2,411.35	2,823.09	2,797.81	25.28	111.662		
5,800.00	5,753.42	5,738.09	5,737.01	17.31	10.39	-136.39	10.28	-2,409.66	2,832.05	2,806.38	25.67	110.320		
5,900.00	5,852.31	5,835.48	5,834.38	17.66	10.50	-136.58	11.02	-2,407.97	2,841.01	2,814.94	26.07	108.988		
6,000.00	5,951.21	5,937.98	5,936.86	18.01	10.62	-136.78	12.19	-2,406.45	2,850.19	2,823.71	26.48	107.648		
6,100.00	6,050.10	6,058.12	6,056.97	18.36	10.78	-137.01	13.50	-2,403.81	2,858.69	2,831.78	26.91	106.234		
6,200.00	6,149.00	6,155.39	6,154.20	18.71	10.90	-137.20	14.23	-2,401.33	2,866.95	2,839.63	27.32	104.953		
6,300.00	6,247.89	6,249.99	6,248.77	19.06	11.03	-137.39	14.61	-2,399.05	2,875.45	2,847.73	27.72	103.719		
6,400.00	6,346.79	6,360.83	6,359.58	19.41	11.18	-137.61	15.24	-2,396.35	2,883.95	2,855.80	28.15	102.434		
6,500.00	6,445.68	6,442.43	6,441.14	19.76	11.29	-137.77	15.94	-2,394.18	2,892.24	2,863.69	28.55	101.291		
6,600.00	6,544.58	6,506.35	6,505.06	20.11	11.39	-137.89	16.25	-2,393.24	2,901.73	2,872.80	28.93	100.294		
6,700.00	6,643.53	6,600.00	6,598.70	20.44	11.53	-151.38	16.50	-2,392.43	2,911.79	2,882.46	29.33	99.266		
6,800.00	6,743.00	6,687.58	6,686.28	20.62	11.67	119.75	16.80	-2,391.96	2,919.63	2,890.03	29.60	98.645		
6,900.00	6,840.75	6,787.63	6,786.33	20.64	11.83	96.00	17.18	-2,391.64	2,924.07	2,894.28	29.79	98.141		
7,000.00	6,933.82	6,876.44	6,875.14	20.54	11.97	89.90	17.33	-2,391.30	2,925.09	2,895.21	29.89	97.870		
7,100.00	7,019.36	6,951.40	6,950.09	20.31	12.10	87.88	17.54	-2,391.20	2,923.47	2,893.57	29.90	97.769		
7,200.00	7,094.79	7,015.40	7,014.10	20.01	12.22	87.45	17.95	-2,391.43	2,920.11	2,890.24	29.87	97.762		
7,300.00	7,157.81	7,069.65	7,068.34	19.66	12.32	87.76	18.30	-2,391.79	2,915.84	2,886.01	29.83	97.756		
7,400.00	7,206.51	7,122.39	7,121.08	19.29	12.43	88.53	18.59	-2,392.24	2,911.49	2,881.66	29.83	97.599		
7,500.00	7,239.40	7,176.30	7,174.99	18.94	12.53	89.59	19.02	-2,392.40	2,907.62	2,877.70	29.92	97.169		
7,600.00	7,255.49	7,200.00	7,198.69	18.63	12.57	90.15	19.27	-2,392.35	2,905.10	2,875.04	30.06	96.647		
7,664.98	7,258.33	7,200.00	7,198.69	18.44	12.57	90.17	19.27	-2,392.35	2,904.60	2,874.39	30.21	96.152		
7,700.00	7,256.04	7,200.00	7,198.69	18.39	12.57	90.20	19.27	-2,392.35	2,904.61	2,874.32	30.29	95.902		
7,800.00	7,253.91	7,195.11	7,193.80	18.51	12.56	90.10	19.22	-2,392.37	2,907.33	2,876.64	30.69	94.730		
7,900.00	7,251.78	7,189.95	7,188.64	19.20	12.55	90.00	19.16	-2,392.38	2,913.48	2,882.20	31.28	93.142		
8,000.00	7,249.65	7,184.89	7,183.57	20.08	12.54	89.90	19.11	-2,392.39	2,923.04	2,890.99	32.05	91.199		
8,100.00	7,247.53	7,179.92	7,178.61	21.07	12.53	89.80	19.06	-2,392.40	2,935.97	2,902.93	33.04	88.872		
8,200.00	7,245.40	7,175.05	7,173.74	22.17	12.52	89.71	19.01	-2,392.40	2,952.22	2,918.07	34.15	86.445		
8,300.00	7,243.27	7,170.28	7,168.97	23.36	12.52	89.61	18.97	-2,392.41	2,971.75	2,936.37	35.38	83.994		
8,400.00	7,241.14	7,165.59	7,164.28	24.64	12.51	89.52	18.92	-2,392.40	2,994.49	2,957.78	36.71	81.581		
8,500.00	7,239.01	7,160.99	7,159.68	25.98	12.50	89.43	18.88	-2,392.40	3,020.36	2,982.25	38.11	79.248		
8,600.00	7,236.89	7,156.48	7,155.17	27.39	12.49	89.34	18.84	-2,392.39	3,049.29	3,009.70	39.59	77.022		
8,700.00	7,234.76	7,152.05	7,150.74	28.85	12.48	89.25	18.81	-2,392.38	3,081.19	3,040.06	41.13	74.920		
8,800.00	7,232.63	7,147.70	7,146.39	30.36	12.47	89.17	18.77	-2,392.37	3,115.97	3,073.26	42.71	72.951		
8,900.00	7,230.50	7,143.43	7,142.12	31.91	12.47	89.08	18.74	-2,392.35	3,153.54	3,109.19	44.34	71.116		
9,000.00	7,228.38	7,139.24	7,137.93	33.49	12.46	89.00	18.71	-2,392.34	3,193.79	3,147.78	46.01	69.414		
9,100.00	7,226.25	7,135.12	7,133.81	35.11	12.45	88.92	18.68	-2,392.32	3,236.63	3,188.92	47.71	67.840		
9,200.00	7,224.12	7,131.07	7,129.76	36.75	12.44	88.84	18.65	-2,392.30	3,281.95	3,232.52	49.44	66.388		
9,300.00	7,221.99	7,127.10	7,125.79	38.41	12.43	88.76	18.62	-2,392.27	3,329.66	3,278.47	51.19	65.049		
9,400.00	7,219.86	7,123.19	7,121.88	40.10	12.43	88.68	18.59	-2,392.25	3,379.65	3,326.69	52.96	63.817		
9,500.00	7,217.74	7,119.35	7,118.04	41.80	12.42	88.61	18.57	-2,392.22	3,431.83	3,377.08	54.75	62.684		
9,600.00	7,215.61	7,115.57	7,114.27	43.53	12.41	88.53	18.55	-2,392.20	3,486.08	3,429.53	56.55	61.642		
9,700.00	7,213.48	7,111.86	7,110.56	45.26	12.41	88.46	18.53	-2,392.17	3,542.33	3,483.96	58.37	60.684		
9,800.00	7,211.35	7,108.21	7,106.91	47.01	12.40	88.39	18.50	-2,392.14	3,600.48	3,540.27	60.21	59.802		
9,900.00	7,209.22	7,104.63	7,103.32	48.77	12.39	88.32	18.49	-2,392.11	3,660.43	3,598.38	62.05	58.991		
10,000.00	7,207.10	7,101.10	7,099.79	50.54	12.39	88.25	18.47	-2,392.07	3,722.10	3,658.20	63.90	58.244		
10,100.00	7,204.97	7,100.00	7,098.69	52.32	12.38	88.23	18.46	-2,392.06	3,785.41	3,719.62	65.78	57.545		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,200.00	7,202.84	7,095.89	7,094.58	54.11	12.38	88.15	18.44	-2,392.02	3,850.27	3,782.62	67.65	56.916		
10,300.00	7,200.71	7,093.44	7,092.13	55.91	12.37	88.10	18.43	-2,392.00	3,916.60	3,847.07	69.53	56.328		
10,400.00	7,198.59	7,090.97	7,089.67	57.72	12.37	88.05	18.42	-2,391.98	3,984.35	3,912.92	71.42	55.786		
10,500.00	7,196.46	7,088.50	7,087.19	59.53	12.36	88.00	18.40	-2,391.96	4,053.42	3,980.10	73.32	55.285		
10,600.00	7,194.33	7,086.01	7,084.71	61.34	12.36	87.95	18.39	-2,391.93	4,123.76	4,048.54	75.22	54.823		
10,700.00	7,192.20	7,083.51	7,082.21	63.17	12.35	87.90	18.38	-2,391.91	4,195.31	4,118.18	77.12	54.396		
10,800.00	7,190.07	7,081.00	7,079.70	64.99	12.35	87.85	18.36	-2,391.89	4,268.00	4,188.96	79.03	54.002		
10,900.00	7,187.95	7,078.48	7,077.17	66.83	12.34	87.80	18.35	-2,391.87	4,341.77	4,260.82	80.95	53.636		
11,000.00	7,185.82	7,075.94	7,074.64	68.66	12.34	87.75	18.33	-2,391.85	4,416.57	4,333.70	82.87	53.298		
11,100.00	7,183.69	7,073.40	7,072.09	70.50	12.33	87.70	18.32	-2,391.82	4,492.35	4,407.57	84.79	52.984		
11,200.00	7,181.56	7,070.84	7,069.53	72.35	12.33	87.65	18.30	-2,391.80	4,569.06	4,482.35	86.71	52.693		
11,300.00	7,179.44	7,068.27	7,066.96	74.19	12.32	87.60	18.29	-2,391.78	4,646.66	4,558.02	88.64	52.424		
11,400.00	7,177.31	7,065.68	7,064.38	76.04	12.32	87.55	18.27	-2,391.76	4,725.10	4,634.53	90.57	52.173		
11,500.00	7,175.18	7,063.09	7,061.78	77.90	12.31	87.50	18.26	-2,391.74	4,804.33	4,711.84	92.50	51.940		
11,600.00	7,173.05	7,060.48	7,059.17	79.75	12.31	87.45	18.24	-2,391.72	4,884.33	4,789.90	94.43	51.724		
11,700.00	7,170.92	7,057.86	7,056.55	81.61	12.30	87.40	18.23	-2,391.70	4,965.05	4,868.69	96.37	51.523		
11,800.00	7,168.80	7,055.22	7,053.92	83.47	12.30	87.34	18.21	-2,391.68	5,046.46	4,948.16	98.30	51.336		
11,837.41	7,168.00	7,054.23	7,052.93	84.17	12.29	87.32	18.21	-2,391.67	5,077.09	4,978.06	99.03	51.269 SF		

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-SHOWALTER 16-26 offset - HSR-SHOWALTER 16-26 - HSR-SHOWALT													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	178.55	-3,934.27	99.46	3,935.54					
100.00	100.00	72.42	72.42	0.08	0.10	178.55	-3,934.44	99.32	3,935.73	3,935.55	0.18	N/A		
200.00	200.00	170.82	170.81	0.31	0.32	178.56	-3,934.99	98.83	3,936.28	3,935.65	0.63	6,256.380		
300.00	300.00	283.52	283.51	0.53	0.61	178.57	-3,935.39	98.22	3,936.62	3,935.47	1.14	3,440.276		
400.00	400.00	394.29	394.28	0.76	0.87	178.58	-3,935.42	97.72	3,936.64	3,935.01	1.63	2,420.264		
500.00	500.00	493.64	493.63	0.98	1.08	178.58	-3,935.32	97.53	3,936.53	3,934.47	2.06	1,911.472		
534.46	534.46	524.47	524.46	1.06	1.15	178.58	-3,935.31	97.49	3,936.51	3,934.31	2.21	1,784.526		
600.00	600.00	581.69	581.68	1.21	1.28	178.58	-3,935.37	97.36	3,936.58	3,934.10	2.48	1,584.979		
700.00	700.00	697.28	697.28	1.43	1.55	178.59	-3,935.47	97.00	3,936.67	3,933.69	2.98	1,321.634		
726.50	726.50	716.51	716.50	1.49	1.59	178.59	-3,935.45	96.94	3,936.64	3,933.56	3.08	1,277.130		
800.00	800.00	766.46	766.45	1.66	1.70	178.59	-3,935.60	96.68	3,936.86	3,933.50	3.36	1,170.971		
900.00	900.00	844.41	844.39	1.88	1.89	178.60	-3,936.37	95.97	3,937.80	3,934.03	3.77	1,044.473		
1,000.00	1,000.00	936.52	936.49	2.11	2.11	178.62	-3,937.59	94.72	3,939.10	3,934.88	4.22	933.281		
1,100.00	1,100.00	1,035.75	1,035.69	2.33	2.37	178.65	-3,939.00	92.61	3,940.46	3,935.76	4.70	838.388		
1,200.00	1,200.00	1,141.21	1,141.08	2.56	2.65	178.70	-3,940.51	89.45	3,941.83	3,936.63	5.20	757.687		
1,300.00	1,300.00	1,256.28	1,256.05	2.78	2.95	178.77	-3,941.80	84.56	3,942.86	3,937.12	5.73	687.878		
1,400.00	1,399.98	1,381.45	1,381.02	3.00	3.28	142.46	-3,942.70	77.64	3,944.85	3,938.57	6.29	627.337		
1,500.00	1,499.84	1,498.60	1,497.93	3.23	3.59	142.58	-3,942.81	70.10	3,948.99	3,942.17	6.82	579.235		
1,600.00	1,599.45	1,590.80	1,589.89	3.45	3.83	142.66	-3,942.81	63.59	3,955.81	3,948.53	7.28	543.171		
1,700.00	1,698.70	1,716.92	1,715.70	3.69	4.16	142.81	-3,942.45	54.73	3,965.17	3,957.33	7.84	505.838		
1,800.00	1,797.61	1,812.32	1,810.91	3.95	4.41	142.98	-3,941.91	48.70	3,976.32	3,967.99	8.33	477.455		
1,900.00	1,896.51	1,914.55	1,912.98	4.22	4.68	143.19	-3,941.27	43.10	3,987.58	3,978.73	8.84	450.866		
2,000.00	1,995.40	2,000.00	1,998.33	4.51	4.90	143.36	-3,940.78	38.89	3,998.94	3,989.62	9.32	428.971		
2,100.00	2,094.30	2,091.52	2,089.74	4.80	5.14	143.54	-3,940.49	34.63	4,010.60	4,000.77	9.82	408.326		
2,200.00	2,193.19	2,187.33	2,185.46	5.10	5.40	143.72	-3,940.38	30.44	4,022.50	4,012.16	10.34	389.108		
2,300.00	2,292.09	2,269.68	2,267.75	5.41	5.61	143.87	-3,940.45	27.06	4,034.63	4,023.81	10.82	372.822		
2,400.00	2,390.98	2,353.65	2,351.65	5.72	5.84	144.03	-3,940.88	23.75	4,047.22	4,035.90	11.31	357.748		
2,500.00	2,489.88	2,438.48	2,436.42	6.04	6.06	144.17	-3,941.59	20.68	4,060.16	4,048.35	11.81	343.857		
2,600.00	2,588.77	2,523.70	2,521.59	6.36	6.29	144.32	-3,942.61	17.87	4,073.48	4,061.18	12.30	331.082		
2,700.00	2,687.67	2,616.95	2,614.77	6.68	6.53	144.48	-3,943.94	14.66	4,087.07	4,074.25	12.82	318.792		
2,800.00	2,786.56	2,724.69	2,722.44	7.01	6.82	144.66	-3,945.43	10.83	4,100.65	4,087.27	13.38	306.550		
2,900.00	2,885.46	2,838.36	2,836.04	7.34	7.12	144.85	-3,946.55	7.26	4,113.87	4,099.91	13.95	294.890		
3,000.00	2,984.36	2,939.09	2,936.73	7.67	7.39	145.01	-3,947.43	4.27	4,126.99	4,112.50	14.49	284.780		
3,100.00	3,083.25	3,041.73	3,039.32	8.00	7.66	145.17	-3,948.21	1.32	4,140.04	4,125.00	15.04	275.292		
3,200.00	3,182.15	3,144.71	3,142.27	8.34	7.94	145.33	-3,948.93	-1.17	4,153.05	4,137.47	15.59	266.447		
3,300.00	3,281.04	3,246.93	3,244.46	8.67	8.21	145.48	-3,949.51	-3.58	4,165.94	4,149.81	16.13	258.220		
3,400.00	3,379.94	3,342.12	3,339.62	9.01	8.46	145.62	-3,950.06	-5.74	4,178.88	4,162.22	16.66	250.805		
3,500.00	3,478.83	3,433.31	3,430.79	9.35	8.70	145.75	-3,950.70	-7.79	4,191.96	4,174.78	17.18	244.013		
3,600.00	3,577.73	3,520.86	3,518.31	9.69	8.93	145.88	-3,951.53	-9.60	4,205.31	4,187.62	17.68	237.793		
3,700.00	3,676.62	3,611.97	3,609.40	10.03	9.16	146.00	-3,952.65	-11.33	4,218.93	4,200.74	18.20	231.870		
3,800.00	3,775.52	3,741.60	3,739.01	10.37	9.50	146.18	-3,953.83	-13.22	4,232.25	4,213.45	18.80	225.081		
3,900.00	3,874.41	3,856.08	3,853.49	10.72	9.80	146.32	-3,954.23	-14.08	4,244.99	4,225.62	19.38	219.059		
4,000.00	3,973.31	3,963.07	3,960.47	11.06	10.08	146.45	-3,954.35	-15.19	4,257.55	4,237.62	19.94	213.569		
4,100.00	4,072.20	4,091.63	4,088.98	11.40	10.41	146.64	-3,953.88	-18.60	4,269.76	4,249.22	20.54	207.881		
4,200.00	4,171.10	4,191.33	4,188.61	11.75	10.66	146.80	-3,953.01	-22.10	4,281.54	4,260.47	21.07	203.243		
4,300.00	4,269.99	4,281.65	4,278.88	12.09	10.89	146.94	-3,952.31	-25.38	4,293.45	4,271.87	21.57	199.030		
4,400.00	4,368.89	4,363.61	4,360.78	12.44	11.10	147.07	-3,951.91	-28.24	4,305.66	4,283.60	22.06	195.176		
4,500.00	4,467.78	4,435.27	4,432.40	12.78	11.29	147.18	-3,951.88	-30.87	4,318.38	4,295.85	22.53	191.710		
4,600.00	4,566.68	4,500.00	4,497.07	13.13	11.46	147.28	-3,952.34	-33.45	4,331.86	4,308.89	22.97	188.550		
4,700.00	4,665.57	4,563.99	4,561.00	13.48	11.63	147.38	-3,953.29	-36.09	4,346.15	4,322.73	23.42	185.573		
4,800.00	4,764.47	4,631.78	4,628.72	13.82	11.81	147.49	-3,954.83	-38.80	4,361.22	4,337.35	23.87	182.698		
4,900.00	4,863.36	4,700.00	4,696.87	14.17	11.98	147.59	-3,956.81	-41.17	4,376.93	4,352.61	24.32	179.982		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	4,783.00	4,779.78	14.52	12.18	147.71	-3,959.66	-43.86	4,393.16	4,368.37	24.79	177.192		
5,100.00	5,061.15	4,870.18	4,866.85	14.87	12.38	147.84	-3,963.01	-46.60	4,409.79	4,384.51	25.27	174.497		
5,200.00	5,160.05	4,992.80	4,989.35	15.21	12.66	148.00	-3,967.69	-49.51	4,426.38	4,400.57	25.82	171.457		
5,300.00	5,258.94	5,199.76	5,196.24	15.56	13.13	148.23	-3,971.46	-51.89	4,440.37	4,413.82	26.56	167.209		
5,400.00	5,357.84	5,345.04	5,341.51	15.91	13.50	148.40	-3,972.18	-53.36	4,453.57	4,426.38	27.19	163.787		
5,500.00	5,456.73	5,445.46	5,441.93	16.26	13.76	148.52	-3,972.10	-54.58	4,466.28	4,438.55	27.72	161.097		
5,600.00	5,555.63	5,531.62	5,528.09	16.61	13.98	148.62	-3,972.21	-55.89	4,479.22	4,451.00	28.22	158.710		
5,700.00	5,654.52	5,616.90	5,613.35	16.96	14.21	148.72	-3,972.49	-57.51	4,492.44	4,463.71	28.72	156.415		
5,800.00	5,753.42	5,700.00	5,696.43	17.31	14.43	148.82	-3,973.18	-59.01	4,506.12	4,476.91	29.21	154.255		
5,900.00	5,852.31	5,800.00	5,796.41	17.66	14.69	148.94	-3,974.13	-60.64	4,519.94	4,490.20	29.74	151.960		
6,000.00	5,951.21	5,893.00	5,889.40	18.01	14.92	149.05	-3,974.95	-61.95	4,533.71	4,503.46	30.26	149.846		
6,100.00	6,050.10	5,961.45	5,957.83	18.36	15.09	149.12	-3,975.87	-62.75	4,547.92	4,517.22	30.69	148.167		
6,200.00	6,149.00	6,039.21	6,035.57	18.71	15.27	149.21	-3,977.44	-63.68	4,562.78	4,531.63	31.15	146.480		
6,300.00	6,247.89	6,137.16	6,133.49	19.06	15.50	149.32	-3,979.56	-65.07	4,577.85	4,546.20	31.65	144.651		
6,400.00	6,346.79	6,262.02	6,258.32	19.41	15.79	149.46	-3,981.99	-66.86	4,592.74	4,560.52	32.21	142.586		
6,500.00	6,445.68	6,384.92	6,381.20	19.76	16.07	149.58	-3,983.60	-67.75	4,606.91	4,574.16	32.75	140.653		
6,600.00	6,544.58	6,497.66	6,493.94	20.11	16.29	149.69	-3,984.74	-67.99	4,620.76	4,587.52	33.24	139.002		
6,700.00	6,643.53	6,613.13	6,609.40	20.44	16.47	136.69	-3,985.52	-67.94	4,633.70	4,600.12	33.58	137.991		
6,800.00	6,743.00	6,700.32	6,696.59	20.62	16.60	48.62	-3,986.11	-67.82	4,634.18	4,600.58	33.60	137.909		
6,900.00	6,840.75	6,809.24	6,805.51	20.64	16.79	25.26	-3,986.83	-67.79	4,617.45	4,584.77	32.68	141.282		
7,000.00	6,933.82	6,900.00	6,896.27	20.54	17.00	19.25	-3,987.30	-68.17	4,583.94	4,553.13	30.81	148.758		
7,100.00	7,019.36	6,983.12	6,979.38	20.31	17.21	17.32	-3,987.75	-68.67	4,534.83	4,506.73	28.10	161.404		
7,200.00	7,094.79	7,060.47	7,056.73	20.01	17.40	17.33	-3,988.22	-69.02	4,471.58	4,446.85	24.73	180.813		
7,300.00	7,157.81	7,124.44	7,120.70	19.66	17.56	19.00	-3,988.58	-69.26	4,396.08	4,374.90	21.18	207.523		
7,400.00	7,206.51	7,171.80	7,168.06	19.29	17.67	23.14	-3,988.86	-69.45	4,310.67	4,292.03	18.63	231.348		
7,500.00	7,239.40	7,204.10	7,200.36	18.94	17.75	32.91	-3,989.06	-69.60	4,217.93	4,197.81	20.12	209.649		
7,600.00	7,255.49	7,220.46	7,216.71	18.63	17.79	61.55	-3,989.17	-69.68	4,120.67	4,090.05	30.63	134.547		
7,700.00	7,256.04	7,221.60	7,217.86	18.39	17.80	95.55	-3,989.17	-69.69	4,021.79	3,985.92	35.87	112.109		
7,800.00	7,253.91	7,220.13	7,216.39	18.51	17.79	95.40	-3,989.16	-69.68	3,922.88	3,886.51	36.37	107.855		
7,900.00	7,251.78	7,218.66	7,214.92	19.20	17.79	95.26	-3,989.15	-69.67	3,824.02	3,786.97	37.05	103.207		
8,000.00	7,249.65	7,217.19	7,213.45	20.08	17.79	95.12	-3,989.14	-69.66	3,725.23	3,687.33	37.90	98.295		
8,100.00	7,247.53	7,215.73	7,211.98	21.07	17.78	94.97	-3,989.14	-69.65	3,626.50	3,587.61	38.89	93.244		
8,200.00	7,245.40	7,214.26	7,210.51	22.17	17.78	94.83	-3,989.13	-69.65	3,527.84	3,487.83	40.01	88.163		
8,300.00	7,243.27	7,212.79	7,209.05	23.36	17.77	94.69	-3,989.12	-69.64	3,429.26	3,388.01	41.25	83.137		
8,400.00	7,241.14	7,211.32	7,207.58	24.64	17.77	94.54	-3,989.11	-69.63	3,330.76	3,288.18	42.58	78.229		
8,500.00	7,239.01	7,209.85	7,206.11	25.98	17.77	94.40	-3,989.10	-69.62	3,232.35	3,188.37	43.99	73.485		
8,600.00	7,236.89	7,208.38	7,204.64	27.39	17.76	94.26	-3,989.09	-69.62	3,134.05	3,088.58	45.46	68.934		
8,700.00	7,234.76	7,206.92	7,203.17	28.85	17.76	94.11	-3,989.08	-69.61	3,035.85	2,988.85	47.00	64.590		
8,800.00	7,232.63	7,205.45	7,201.71	30.36	17.76	93.97	-3,989.07	-69.60	2,937.78	2,889.19	48.59	60.462		
8,900.00	7,230.50	7,203.98	7,200.24	31.91	17.75	93.82	-3,989.06	-69.60	2,839.84	2,789.62	50.22	56.549		
9,000.00	7,228.38	7,202.51	7,198.77	33.49	17.75	93.68	-3,989.05	-69.59	2,742.04	2,690.16	51.89	52.848		
9,100.00	7,226.25	7,200.00	7,196.26	35.11	17.74	93.43	-3,989.04	-69.58	2,644.41	2,590.84	53.57	49.363		
9,200.00	7,224.12	7,200.00	7,196.26	36.75	17.74	93.43	-3,989.04	-69.58	2,546.97	2,491.65	55.32	46.045		
9,300.00	7,221.99	7,198.12	7,194.38	38.41	17.74	93.25	-3,989.02	-69.57	2,449.73	2,392.66	57.06	42.932		
9,400.00	7,219.86	7,196.65	7,192.91	40.10	17.73	93.11	-3,989.02	-69.56	2,352.71	2,293.88	58.83	39.991		
9,500.00	7,217.74	7,195.18	7,191.44	41.80	17.73	92.96	-3,989.01	-69.55	2,255.96	2,195.34	60.62	37.215		
9,600.00	7,215.61	7,193.71	7,189.97	43.53	17.73	92.82	-3,989.00	-69.55	2,159.51	2,097.08	62.43	34.594		
9,700.00	7,213.48	7,192.24	7,188.50	45.26	17.72	92.67	-3,988.99	-69.54	2,063.39	1,999.14	64.24	32.118		
9,800.00	7,211.35	7,190.77	7,187.03	47.01	17.72	92.53	-3,988.98	-69.53	1,967.65	1,901.58	66.08	29.779		
9,900.00	7,209.22	7,189.29	7,185.55	48.77	17.72	92.38	-3,988.97	-69.53	1,872.36	1,804.44	67.92	27.568		
10,000.00	7,207.10	7,187.81	7,184.07	50.54	17.71	92.24	-3,988.96	-69.52	1,777.59	1,707.82	69.77	25.477		
10,100.00	7,204.97	7,186.33	7,182.59	52.32	17.71	92.09	-3,988.95	-69.51	1,683.42	1,611.79	71.63	23.500		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-SHOWALTER 16-26 offset - HSR-SHOWALTER 16-26 - HSR-SHOWALT												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,184.85	7,181.11	54.11	17.71	91.95	-3,988.94	-69.51	1,589.96	1,516.46	73.50	21.631	
10,300.00	7,200.71	7,183.36	7,179.62	55.91	17.70	91.80	-3,988.93	-69.50	1,497.35	1,421.97	75.38	19.864	
10,400.00	7,198.59	7,181.88	7,178.14	57.72	17.70	91.65	-3,988.92	-69.49	1,405.74	1,328.48	77.26	18.194	
10,500.00	7,196.46	7,180.39	7,176.65	59.53	17.69	91.51	-3,988.91	-69.49	1,315.36	1,236.21	79.15	16.618	
10,600.00	7,194.33	7,178.90	7,175.15	61.34	17.69	91.36	-3,988.91	-69.48	1,226.47	1,145.42	81.05	15.133	
10,700.00	7,192.20	7,177.40	7,173.66	63.17	17.69	91.21	-3,988.90	-69.47	1,139.42	1,056.48	82.95	13.737	
10,800.00	7,190.07	7,175.91	7,172.17	64.99	17.68	91.07	-3,988.89	-69.47	1,054.67	969.82	84.85	12.430	
10,900.00	7,187.95	7,174.41	7,170.67	66.83	17.68	90.92	-3,988.88	-69.46	972.82	886.06	86.76	11.213	
11,000.00	7,185.82	7,172.91	7,169.17	68.66	17.68	90.77	-3,988.87	-69.45	894.66	805.99	88.67	10.090	
11,100.00	7,183.69	7,171.41	7,167.67	70.50	17.67	90.62	-3,988.86	-69.45	821.25	730.67	90.58	9.067	
11,200.00	7,181.56	7,169.90	7,166.16	72.35	17.67	90.47	-3,988.85	-69.44	753.97	661.48	92.50	8.151	
11,300.00	7,179.44	7,168.40	7,164.65	74.19	17.67	90.33	-3,988.84	-69.44	694.62	600.21	94.41	7.357	
11,400.00	7,177.31	7,166.89	7,163.15	76.04	17.66	90.18	-3,988.83	-69.43	645.38	549.05	96.34	6.699	
11,500.00	7,175.18	7,165.38	7,161.63	77.90	17.66	90.03	-3,988.82	-69.42	608.71	510.46	98.26	6.195	
11,600.00	7,173.05	7,163.86	7,160.12	79.75	17.65	89.88	-3,988.81	-69.42	586.98	486.79	100.18	5.859	
11,679.98	7,171.35	7,162.65	7,158.91	81.24	17.65	89.76	-3,988.81	-69.41	581.51	479.76	101.74	5.715 CC	
11,700.00	7,170.92	7,162.35	7,158.61	81.61	17.65	89.73	-3,988.81	-69.41	581.85	479.74	102.11	5.698 ES, SF	
11,800.00	7,168.80	7,160.83	7,157.09	83.47	17.65	89.58	-3,988.80	-69.40	593.76	489.72	104.04	5.707	
11,837.41	7,168.00	7,160.26	7,156.52	84.17	17.65	89.52	-3,988.79	-69.40	602.44	497.68	104.76	5.751	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINTON 2-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-97.59	-135.87	-1,020.10	1,029.74					
100.00	100.00	56.66	56.66	0.08	0.08	-97.58	-135.82	-1,020.31	1,029.34	1,029.18	0.16	6,446.369 CC		
200.00	200.00	154.13	154.12	0.31	0.28	-97.56	-135.54	-1,021.39	1,030.39	1,029.80	0.58	1,762.313		
300.00	300.00	257.73	257.71	0.53	0.55	-97.53	-135.13	-1,022.21	1,031.12	1,030.04	1.08	953.140		
400.00	400.00	359.02	359.00	0.76	0.81	-97.51	-134.76	-1,022.81	1,031.66	1,030.09	1.57	657.467		
500.00	500.00	464.39	464.38	0.98	1.02	-97.50	-134.67	-1,023.14	1,031.97	1,029.97	2.00	515.039		
600.00	600.00	569.09	569.07	1.21	1.17	-97.48	-134.25	-1,022.86	1,031.65	1,029.27	2.38	434.223		
700.00	700.00	669.69	669.67	1.43	1.34	-97.43	-133.36	-1,022.42	1,031.09	1,028.32	2.77	372.159		
800.00	800.00	768.75	768.73	1.66	1.54	-97.38	-132.42	-1,022.03	1,030.58	1,027.38	3.20	321.957		
900.00	900.00	865.32	865.29	1.88	1.77	-97.33	-131.50	-1,021.83	1,030.25	1,026.60	3.65	281.960		
930.23	930.23	894.20	894.17	1.95	1.84	-97.32	-131.30	-1,021.83	1,030.24	1,026.44	3.79	271.632		
1,000.00	1,000.00	963.72	963.69	2.11	2.02	-97.30	-130.89	-1,021.91	1,030.26	1,026.13	4.13	249.534		
1,100.00	1,100.00	1,062.94	1,062.90	2.33	2.28	-97.26	-130.20	-1,022.05	1,030.31	1,025.70	4.61	223.421		
1,200.00	1,200.00	1,165.66	1,165.61	2.56	2.54	-97.20	-129.08	-1,022.24	1,030.36	1,025.26	5.10	202.005		
1,300.00	1,300.00	1,264.13	1,264.09	2.78	2.80	-97.13	-127.93	-1,022.20	1,030.17	1,024.59	5.58	184.693		
1,300.29	1,300.29	1,264.41	1,264.36	2.78	2.80	-97.13	-127.93	-1,022.20	1,030.17	1,024.59	5.58	184.644 ES		
1,400.00	1,399.98	1,362.71	1,362.65	3.00	3.05	-133.51	-126.51	-1,022.49	1,031.49	1,025.43	6.06	170.202		
1,500.00	1,499.84	1,464.54	1,464.47	3.23	3.32	-133.60	-125.19	-1,022.72	1,035.16	1,028.61	6.55	158.137		
1,600.00	1,599.45	1,561.06	1,560.99	3.45	3.57	-133.80	-124.38	-1,022.81	1,041.18	1,034.17	7.01	148.444		
1,700.00	1,698.70	1,659.79	1,659.71	3.69	3.83	-134.09	-123.30	-1,023.33	1,050.05	1,042.56	7.49	140.176		
1,800.00	1,797.61	1,761.46	1,761.38	3.95	4.09	-134.56	-122.04	-1,023.66	1,060.51	1,052.52	7.99	132.747		
1,900.00	1,896.51	1,858.33	1,858.23	4.22	4.34	-135.05	-121.00	-1,023.85	1,071.06	1,062.59	8.47	126.401		
2,000.00	1,995.40	1,954.76	1,954.67	4.51	4.57	-135.57	-120.58	-1,024.29	1,082.03	1,073.08	8.95	120.846		
2,100.00	2,094.30	2,053.04	2,052.94	4.80	4.79	-136.07	-120.01	-1,024.85	1,093.18	1,083.75	9.43	115.965		
2,200.00	2,193.19	2,151.65	2,151.55	5.10	4.99	-136.59	-119.91	-1,025.38	1,104.47	1,094.59	9.88	111.758		
2,300.00	2,292.09	2,250.48	2,250.38	5.41	5.20	-137.10	-119.74	-1,025.92	1,115.85	1,105.50	10.35	107.849		
2,400.00	2,390.98	2,344.41	2,344.31	5.72	5.39	-137.57	-119.59	-1,026.54	1,127.43	1,116.62	10.81	104.336		
2,500.00	2,489.88	2,436.50	2,436.39	6.04	5.58	-138.02	-119.62	-1,027.79	1,139.79	1,128.53	11.25	101.291		
2,600.00	2,588.77	2,536.14	2,536.01	6.36	5.78	-138.50	-119.59	-1,029.39	1,152.47	1,140.75	11.72	98.333		
2,700.00	2,687.67	2,636.29	2,636.15	6.68	6.00	-138.95	-119.12	-1,030.81	1,164.94	1,152.72	12.22	95.365		
2,800.00	2,786.56	2,730.45	2,730.30	7.01	6.23	-139.35	-118.36	-1,032.50	1,177.76	1,165.04	12.71	92.642		
2,900.00	2,885.46	2,828.88	2,828.70	7.34	6.47	-139.74	-117.46	-1,034.52	1,190.87	1,177.65	13.22	90.055		
3,000.00	2,984.36	2,930.11	2,929.90	7.67	6.73	-140.14	-116.36	-1,036.44	1,203.85	1,190.10	13.75	87.569		
3,100.00	3,083.25	3,026.27	3,026.04	8.00	6.97	-140.49	-115.14	-1,038.37	1,216.93	1,202.66	14.26	85.320		
3,200.00	3,182.15	3,123.69	3,123.42	8.34	7.22	-140.83	-113.74	-1,040.62	1,230.31	1,215.53	14.78	83.225		
3,300.00	3,281.04	3,224.05	3,223.76	8.67	7.48	-141.19	-112.44	-1,042.65	1,243.49	1,228.18	15.31	81.225		
3,400.00	3,379.94	3,313.05	3,312.72	9.01	7.70	-141.50	-111.51	-1,044.97	1,257.33	1,241.52	15.80	79.563		
3,500.00	3,478.83	3,425.70	3,425.34	9.35	7.98	-141.90	-110.41	-1,047.41	1,270.82	1,254.47	16.35	77.716		
3,600.00	3,577.73	3,524.93	3,524.55	9.69	8.23	-142.26	-109.85	-1,048.92	1,283.86	1,266.99	16.87	76.122		
3,700.00	3,676.62	3,621.98	3,621.59	10.03	8.46	-142.62	-109.53	-1,050.54	1,297.16	1,279.79	17.37	74.697		
3,800.00	3,775.52	3,726.90	3,726.50	10.37	8.70	-143.01	-109.37	-1,051.77	1,310.09	1,292.22	17.87	73.298		
3,900.00	3,874.41	3,821.04	3,820.63	10.72	8.90	-143.37	-109.56	-1,052.96	1,323.26	1,304.91	18.34	72.141		
4,000.00	3,973.31	3,924.74	3,924.32	11.06	9.12	-143.77	-109.78	-1,054.08	1,336.32	1,317.50	18.82	70.997		
4,100.00	4,072.20	4,024.09	4,023.67	11.40	9.31	-144.14	-110.03	-1,055.07	1,349.37	1,330.09	19.28	69.981		
4,200.00	4,171.10	4,126.20	4,125.78	11.75	9.47	-144.52	-110.47	-1,055.62	1,362.10	1,342.40	19.70	69.131		
4,300.00	4,269.99	4,214.33	4,213.91	12.09	9.60	-144.86	-111.10	-1,056.43	1,375.33	1,355.23	20.10	68.431		
4,400.00	4,368.89	4,306.54	4,306.10	12.44	9.76	-145.20	-112.10	-1,057.78	1,389.25	1,368.73	20.52	67.700		
4,500.00	4,467.78	4,416.35	4,415.90	12.78	9.98	-145.60	-112.82	-1,059.26	1,402.98	1,381.98	21.00	66.804		
4,600.00	4,566.68	4,516.88	4,516.41	13.13	10.21	-145.93	-112.91	-1,060.30	1,416.27	1,394.78	21.50	65.880		
4,700.00	4,665.57	4,608.72	4,608.25	13.48	10.43	-146.22	-112.89	-1,061.58	1,429.90	1,407.92	21.98	65.040		
4,800.00	4,764.47	4,712.25	4,711.77	13.82	10.69	-146.53	-112.65	-1,063.02	1,443.50	1,420.99	22.51	64.138		
4,900.00	4,863.36	4,800.00	4,799.50	14.17	10.91	-146.79	-112.52	-1,064.70	1,457.64	1,434.65	22.99	63.404		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINTON 2-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	4,884.99	4,884.46	14.52	11.11	-147.04	-112.79	-1,066.95	1,472.64	1,449.19	23.45	62.793		
5,100.00	5,061.15	4,989.42	4,988.85	14.87	11.35	-147.35	-113.40	-1,069.76	1,487.84	1,463.89	23.95	62.117		
5,200.00	5,160.05	5,084.62	5,084.02	15.21	11.56	-147.64	-114.09	-1,072.05	1,502.88	1,478.46	24.42	61.537		
5,300.00	5,258.94	5,180.77	5,180.13	15.56	11.76	-147.94	-115.33	-1,074.41	1,518.20	1,493.32	24.88	61.020		
5,400.00	5,357.84	5,293.38	5,292.71	15.91	11.99	-148.29	-116.76	-1,076.81	1,533.27	1,507.91	25.36	60.452		
5,500.00	5,456.73	5,389.52	5,388.84	16.26	12.20	-148.58	-117.62	-1,078.47	1,547.87	1,522.05	25.82	59.938		
5,600.00	5,555.63	5,486.46	5,485.75	16.61	12.41	-148.86	-118.51	-1,080.33	1,562.69	1,536.40	26.29	59.440		
5,700.00	5,654.52	5,575.26	5,574.52	16.96	12.60	-149.12	-119.55	-1,082.24	1,577.85	1,551.11	26.74	59.010		
5,800.00	5,753.42	5,679.15	5,678.37	17.31	12.83	-149.40	-120.63	-1,084.90	1,593.38	1,566.15	27.23	58.516		
5,900.00	5,852.31	5,789.47	5,788.67	17.66	13.11	-149.68	-120.90	-1,087.28	1,608.26	1,580.51	27.76	57.942		
6,000.00	5,951.21	5,887.43	5,886.61	18.01	13.32	-149.93	-121.45	-1,088.86	1,622.80	1,594.58	28.23	57.492		
6,100.00	6,050.10	5,977.26	5,976.42	18.36	13.49	-150.20	-122.85	-1,090.21	1,637.68	1,609.02	28.65	57.153		
6,200.00	6,149.00	6,060.97	6,060.10	18.71	13.67	-150.43	-124.19	-1,092.09	1,653.28	1,624.20	29.08	56.845		
6,300.00	6,247.89	6,158.09	6,157.16	19.06	13.89	-150.67	-125.53	-1,095.17	1,669.65	1,640.09	29.56	56.483		
6,400.00	6,346.79	6,257.76	6,256.78	19.41	14.13	-150.90	-126.20	-1,098.28	1,685.71	1,655.66	30.06	56.082		
6,500.00	6,445.68	6,361.45	6,360.41	19.76	14.40	-151.12	-126.60	-1,101.74	1,701.89	1,671.31	30.57	55.665		
6,600.00	6,544.58	6,464.73	6,463.64	20.11	14.66	-151.32	-126.49	-1,104.83	1,717.55	1,686.46	31.10	55.235		
6,700.00	6,643.53	6,573.90	6,572.77	20.44	14.95	-164.90	-125.92	-1,108.02	1,732.77	1,701.13	31.64	54.760		
6,800.00	6,743.00	6,685.91	6,684.73	20.62	15.24	106.38	-124.23	-1,110.83	1,741.89	1,709.77	32.12	54.233		
6,900.00	6,840.75	6,789.35	6,788.12	20.64	15.49	83.34	-122.11	-1,113.06	1,743.14	1,710.71	32.43	53.751		
7,000.00	6,933.82	6,883.45	6,882.19	20.54	15.73	78.42	-120.25	-1,114.82	1,737.41	1,704.78	32.63	53.243		
7,100.00	7,019.36	6,971.17	6,969.87	20.31	15.94	78.10	-118.30	-1,116.42	1,725.93	1,693.11	32.82	52.581		
7,200.00	7,094.79	7,052.29	7,050.94	20.01	16.13	79.85	-115.88	-1,117.89	1,710.22	1,677.15	33.07	51.711		
7,300.00	7,157.81	7,115.72	7,114.32	19.66	16.27	82.38	-113.40	-1,118.93	1,692.15	1,658.82	33.32	50.779		
7,400.00	7,206.51	7,155.63	7,154.18	19.29	16.36	84.82	-111.80	-1,119.65	1,674.11	1,640.60	33.51	49.960		
7,500.00	7,239.40	7,181.52	7,180.05	18.94	16.42	86.97	-110.80	-1,120.18	1,657.89	1,624.21	33.67	49.232		
7,600.00	7,255.49	7,192.50	7,191.02	18.63	16.44	88.51	-110.38	-1,120.42	1,644.80	1,610.95	33.86	48.584		
7,700.00	7,256.04	7,189.61	7,188.13	18.39	16.43	88.96	-110.49	-1,120.36	1,635.86	1,601.77	34.09	47.983		
7,800.00	7,253.91	7,184.30	7,182.83	18.51	16.42	88.77	-110.69	-1,120.24	1,632.71	1,598.22	34.49	47.344		
7,801.68	7,253.87	7,184.21	7,182.74	18.52	16.42	88.77	-110.70	-1,120.24	1,632.71	1,598.21	34.50	47.330		
7,900.00	7,251.78	7,178.95	7,177.48	19.20	16.41	88.58	-110.90	-1,120.13	1,635.66	1,600.59	35.07	46.645		
8,000.00	7,249.65	7,173.55	7,172.09	20.08	16.40	88.39	-111.10	-1,120.02	1,644.67	1,608.86	35.81	45.922		
8,100.00	7,247.53	7,168.11	7,166.65	21.07	16.39	88.20	-111.31	-1,119.90	1,659.65	1,622.94	36.71	45.206		
8,200.00	7,245.40	7,162.63	7,161.17	22.17	16.37	88.01	-111.53	-1,119.79	1,680.44	1,642.70	37.74	44.525		
8,300.00	7,243.27	7,157.10	7,155.65	23.36	16.36	87.82	-111.74	-1,119.68	1,706.83	1,667.92	38.91	43.869		
8,400.00	7,241.14	7,151.52	7,150.08	24.64	16.35	87.62	-111.96	-1,119.57	1,738.55	1,698.34	40.21	43.239		
8,500.00	7,239.01	7,145.90	7,144.47	25.98	16.34	87.43	-112.18	-1,119.47	1,775.33	1,733.74	41.59	42.687		
8,600.00	7,236.89	7,140.24	7,138.81	27.39	16.32	87.23	-112.41	-1,119.36	1,816.86	1,773.82	43.04	42.214		
8,700.00	7,234.76	7,134.52	7,133.10	28.85	16.31	87.03	-112.64	-1,119.26	1,862.81	1,818.26	44.55	41.817		
8,800.00	7,232.63	7,128.76	7,127.34	30.36	16.30	86.83	-112.87	-1,119.15	1,912.88	1,866.77	46.10	41.491		
8,900.00	7,230.50	7,122.96	7,121.54	31.91	16.28	86.62	-113.11	-1,119.05	1,966.74	1,919.03	47.70	41.229		
9,000.00	7,228.38	7,117.10	7,115.69	33.49	16.27	86.42	-113.34	-1,118.95	2,024.09	1,974.75	49.34	41.027		
9,100.00	7,226.25	7,111.19	7,109.79	35.11	16.26	86.21	-113.59	-1,118.85	2,084.65	2,033.65	51.00	40.876		
9,200.00	7,224.12	7,105.23	7,103.84	36.75	16.24	86.00	-113.83	-1,118.76	2,148.14	2,095.45	52.69	40.770		
9,300.00	7,221.99	7,100.00	7,098.61	38.41	16.23	85.82	-114.05	-1,118.67	2,214.31	2,159.90	54.41	40.699		
9,400.00	7,219.86	7,100.00	7,098.61	40.10	16.23	85.82	-114.05	-1,118.67	2,282.93	2,226.74	56.20	40.624 SF		
9,500.00	7,217.74	7,088.73	7,087.35	41.80	16.21	85.43	-114.51	-1,118.49	2,353.78	2,295.88	57.89	40.658		
9,600.00	7,215.61	7,083.63	7,082.25	43.53	16.20	85.25	-114.72	-1,118.41	2,426.67	2,367.01	59.66	40.672		
9,700.00	7,213.48	7,078.64	7,077.27	45.26	16.18	85.07	-114.91	-1,118.33	2,501.43	2,439.98	61.45	40.707		
9,800.00	7,211.35	7,073.76	7,072.40	47.01	16.17	84.90	-115.10	-1,118.25	2,577.88	2,514.64	63.25	40.759		
9,900.00	7,209.22	7,069.00	7,067.63	48.77	16.16	84.74	-115.28	-1,118.17	2,655.89	2,590.84	65.05	40.826		
10,000.00	7,207.10	7,064.33	7,062.97	50.54	16.15	84.58	-115.45	-1,118.09	2,735.32	2,668.45	66.87	40.903		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-Sinton 2-26 offset - HSR-SINTON 2-26 - HSR-SINTON 2-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,204.97	7,059.77	7,058.41	52.32	16.14	84.42	-115.62	-1,118.01	2,816.06	2,747.36	68.70	40.991	
10,200.00	7,202.84	7,055.31	7,053.95	54.11	16.13	84.26	-115.78	-1,117.94	2,897.98	2,827.45	70.53	41.086	
10,300.00	7,200.71	7,050.94	7,049.59	55.91	16.12	84.11	-115.93	-1,117.86	2,981.00	2,908.62	72.38	41.188	
10,400.00	7,198.59	7,046.66	7,045.31	57.72	16.11	83.96	-116.08	-1,117.79	3,065.03	2,990.80	74.22	41.294	
10,500.00	7,196.46	7,042.47	7,041.13	59.53	16.10	83.82	-116.22	-1,117.72	3,149.98	3,073.90	76.08	41.405	
10,600.00	7,194.33	7,038.37	7,037.03	61.34	16.09	83.67	-116.36	-1,117.65	3,235.78	3,157.85	77.94	41.519	
10,700.00	7,192.20	7,034.35	7,033.01	63.17	16.08	83.53	-116.49	-1,117.58	3,322.38	3,242.58	79.80	41.634	
10,800.00	7,190.07	7,030.41	7,029.08	64.99	16.08	83.40	-116.62	-1,117.51	3,409.70	3,328.03	81.67	41.751	
10,900.00	7,187.95	7,026.55	7,025.22	66.83	16.07	83.26	-116.74	-1,117.44	3,497.69	3,414.15	83.54	41.869	
11,000.00	7,185.82	7,022.77	7,021.44	68.66	16.06	83.13	-116.86	-1,117.37	3,586.31	3,500.90	85.41	41.988	
11,100.00	7,183.69	7,019.06	7,017.73	70.50	16.05	83.00	-116.97	-1,117.30	3,675.50	3,588.21	87.29	42.106	
11,200.00	7,181.56	7,015.42	7,014.10	72.35	16.04	82.88	-117.08	-1,117.24	3,765.24	3,676.07	89.17	42.225	
11,300.00	7,179.44	7,000.00	6,998.68	74.19	16.01	82.34	-117.53	-1,116.95	3,855.50	3,764.60	90.89	42.417	
11,400.00	7,177.31	7,000.00	6,998.68	76.04	16.01	82.34	-117.53	-1,116.95	3,946.19	3,853.36	92.83	42.512	
11,500.00	7,175.18	7,000.00	6,998.68	77.90	16.01	82.34	-117.53	-1,116.95	4,037.31	3,942.55	94.76	42.605	
11,600.00	7,173.05	7,000.00	6,998.68	79.75	16.01	82.34	-117.53	-1,116.95	4,128.85	4,032.15	96.70	42.699	
11,700.00	7,170.92	7,000.00	6,998.68	81.61	16.01	82.34	-117.53	-1,116.95	4,220.77	4,122.14	98.64	42.791	
11,800.00	7,168.80	7,000.00	6,998.68	83.47	16.01	82.34	-117.53	-1,116.95	4,313.05	4,212.48	100.58	42.883	
11,837.41	7,168.00	7,000.00	6,998.68	84.17	16.01	82.34	-117.53	-1,116.95	4,347.67	4,246.36	101.30	42.917	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-SKELLY 9-26 offset - HSR SKELLY 9-26 - HSR SKELLY 9-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	173.91	-2,767.47	295.28	2,783.18					
100.00	100.00	106.87	106.87	0.08	0.15	173.93	-2,767.38	294.40	2,783.01	2,782.77	0.24	N/A		
200.00	200.00	204.51	204.50	0.31	0.41	173.95	-2,767.25	293.15	2,782.74	2,782.02	0.72	3,873.712		
300.00	300.00	310.41	310.39	0.53	0.65	173.97	-2,766.91	292.52	2,782.36	2,781.17	1.19	2,346.424		
400.00	400.00	400.00	399.98	0.76	0.79	173.97	-2,766.76	292.42	2,782.17	2,780.62	1.55	1,798.040		
406.99	406.99	402.57	402.55	0.77	0.79	173.97	-2,766.76	292.42	2,782.17	2,780.61	1.57	1,777.187		
500.00	500.00	495.19	495.17	0.98	0.88	173.97	-2,766.84	292.47	2,782.26	2,780.40	1.86	1,493.702		
600.00	600.00	607.18	607.16	1.21	1.03	173.96	-2,766.70	292.53	2,782.13	2,779.90	2.23	1,245.405		
700.00	700.00	702.58	702.56	1.43	1.17	173.96	-2,766.45	292.68	2,781.89	2,779.28	2.61	1,067.165		
800.00	800.00	807.41	807.39	1.66	1.35	173.95	-2,766.12	293.17	2,781.63	2,778.62	3.01	924.928		
900.00	900.00	902.79	902.77	1.88	1.53	173.94	-2,765.81	293.85	2,781.38	2,777.97	3.41	814.827		
1,000.00	1,000.00	1,012.21	1,012.19	2.11	1.76	173.91	-2,765.30	294.94	2,781.02	2,777.16	3.87	719.063		
1,100.00	1,100.00	1,114.95	1,114.91	2.33	1.99	173.88	-2,764.58	296.39	2,780.47	2,776.15	4.32	643.062		
1,200.00	1,200.00	1,219.79	1,219.73	2.56	2.24	173.85	-2,763.67	297.87	2,779.76	2,774.97	4.80	579.654		
1,300.00	1,300.00	1,321.33	1,321.26	2.78	2.49	173.82	-2,762.71	299.20	2,778.96	2,773.70	5.27	527.600		
1,334.51	1,334.51	1,357.22	1,357.15	2.86	2.57	137.41	-2,762.35	299.69	2,778.82	2,773.38	5.43	511.369		
1,400.00	1,399.98	1,425.66	1,425.58	3.00	2.74	137.40	-2,761.59	300.69	2,779.34	2,773.58	5.75	483.150		
1,500.00	1,499.84	1,531.16	1,531.06	3.23	3.01	137.41	-2,760.29	302.03	2,782.10	2,775.86	6.24	445.810		
1,600.00	1,599.45	1,635.02	1,634.91	3.45	3.27	137.45	-2,758.85	302.90	2,787.24	2,780.51	6.73	414.424		
1,700.00	1,698.70	1,736.14	1,736.01	3.69	3.52	137.50	-2,757.40	303.52	2,794.89	2,787.68	7.21	387.818		
1,800.00	1,797.61	1,835.65	1,835.51	3.95	3.75	137.66	-2,755.91	303.83	2,804.34	2,796.65	7.69	364.649		
1,900.00	1,896.51	1,928.20	1,928.06	4.22	3.96	137.85	-2,754.69	303.80	2,814.05	2,805.90	8.16	344.992		
2,000.00	1,995.40	2,020.10	2,019.94	4.51	4.17	138.04	-2,753.75	303.60	2,824.07	2,815.45	8.62	327.578		
2,100.00	2,094.30	2,116.57	2,116.41	4.80	4.39	138.23	-2,752.88	303.45	2,834.26	2,825.15	9.11	311.262		
2,200.00	2,193.19	2,209.43	2,209.27	5.10	4.61	138.42	-2,752.19	303.45	2,844.65	2,835.05	9.60	296.341		
2,300.00	2,292.09	2,300.00	2,299.84	5.41	4.84	138.59	-2,751.65	303.53	2,855.23	2,845.13	10.10	282.741		
2,400.00	2,390.98	2,393.40	2,393.24	5.72	5.08	138.78	-2,751.32	303.60	2,866.08	2,855.46	10.61	270.073		
2,500.00	2,489.88	2,500.00	2,499.84	6.04	5.32	138.99	-2,751.05	303.47	2,877.03	2,865.90	11.13	258.502		
2,600.00	2,588.77	2,589.12	2,588.95	6.36	5.49	139.16	-2,750.83	303.30	2,888.03	2,876.45	11.58	249.404		
2,700.00	2,687.67	2,681.01	2,680.84	6.68	5.60	139.34	-2,750.89	303.21	2,899.37	2,887.39	11.97	242.125		
2,800.00	2,786.56	2,765.65	2,765.48	7.01	5.66	139.51	-2,751.21	303.12	2,911.06	2,898.75	12.31	236.474		
2,900.00	2,885.46	2,854.48	2,854.31	7.34	5.70	139.67	-2,751.99	303.21	2,923.27	2,910.63	12.64	231.254		
3,000.00	2,984.36	2,947.71	2,947.54	7.67	5.76	139.85	-2,753.01	303.13	2,935.73	2,922.75	12.98	226.172		
3,100.00	3,083.25	3,042.37	3,042.19	8.00	5.82	140.03	-2,754.23	302.94	2,948.39	2,935.07	13.33	221.235		
3,200.00	3,182.15	3,137.48	3,137.29	8.34	5.89	140.22	-2,755.55	302.68	2,961.19	2,947.51	13.68	216.406		
3,300.00	3,281.04	3,243.71	3,243.50	8.67	5.98	140.43	-2,757.13	302.02	2,974.12	2,960.06	14.06	211.552		
3,400.00	3,379.94	3,357.82	3,357.61	9.01	6.10	140.65	-2,758.10	301.28	2,986.41	2,971.96	14.45	206.613		
3,500.00	3,478.83	3,470.29	3,470.07	9.35	6.23	140.87	-2,758.74	300.39	2,998.49	2,983.61	14.87	201.619		
3,600.00	3,577.73	3,577.68	3,577.46	9.69	6.39	141.09	-2,758.82	299.24	3,010.08	2,994.77	15.31	196.574		
3,700.00	3,676.62	3,671.31	3,671.08	10.03	6.53	141.28	-2,758.86	298.07	3,021.68	3,005.93	15.74	191.924		
3,800.00	3,775.52	3,759.23	3,758.99	10.37	6.67	141.46	-2,759.15	296.52	3,033.59	3,017.42	16.17	187.637		
3,900.00	3,874.41	3,848.88	3,848.60	10.72	6.81	141.66	-2,759.81	294.19	3,045.90	3,029.31	16.59	183.560		
4,000.00	3,973.31	3,968.44	3,968.11	11.06	7.01	141.93	-2,760.67	290.80	3,058.28	3,041.21	17.07	179.113		
4,100.00	4,072.20	4,105.04	4,104.62	11.40	7.27	142.26	-2,760.01	285.88	3,069.45	3,051.84	17.61	174.319		
4,200.00	4,171.10	4,208.58	4,208.06	11.75	7.48	142.52	-2,758.84	281.53	3,080.04	3,061.95	18.10	170.207		
4,300.00	4,269.99	4,300.00	4,299.39	12.09	7.67	142.74	-2,757.74	277.65	3,090.63	3,072.07	18.56	166.486		
4,400.00	4,368.89	4,380.14	4,379.45	12.44	7.83	142.94	-2,757.12	274.06	3,101.70	3,082.69	19.01	163.169		
4,500.00	4,467.78	4,488.62	4,487.79	12.78	8.05	143.22	-2,756.68	268.77	3,113.18	3,093.67	19.51	159.574		
4,600.00	4,566.68	4,616.03	4,615.07	13.13	8.33	143.53	-2,755.19	263.08	3,123.97	3,103.91	20.06	155.750		
4,700.00	4,665.57	4,732.00	4,730.94	13.48	8.59	143.79	-2,752.94	258.95	3,134.03	3,113.43	20.59	152.185		
4,800.00	4,764.47	4,838.00	4,836.88	13.82	8.83	144.02	-2,750.53	255.79	3,143.80	3,122.69	21.11	148.903		
4,900.00	4,863.36	4,940.82	4,939.63	14.17	9.07	144.23	-2,747.97	253.41	3,153.41	3,131.78	21.63	145.802		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-SKELLY 9-26 offset - HSR SKELLY 9-26 - HSR SKELLY 9-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	5,040.63	5,039.40	14.52	9.30	144.41	-2,745.48	251.91	3,163.02	3,140.89	22.14	142.882		
5,100.00	5,061.15	5,141.23	5,139.96	14.87	9.53	144.60	-2,742.90	250.58	3,172.60	3,149.96	22.65	140.085		
5,200.00	5,160.05	5,238.46	5,237.15	15.21	9.75	144.76	-2,740.42	249.77	3,182.22	3,159.07	23.15	137.463		
5,300.00	5,258.94	5,334.94	5,333.60	15.56	9.97	144.92	-2,738.06	249.15	3,191.96	3,168.31	23.65	134.972		
5,400.00	5,357.84	5,429.31	5,427.94	15.91	10.19	145.08	-2,735.81	248.73	3,201.79	3,177.64	24.14	132.612		
5,500.00	5,456.73	5,515.67	5,514.28	16.26	10.39	145.22	-2,734.01	248.25	3,211.94	3,187.32	24.62	130.442		
5,600.00	5,555.63	5,600.00	5,598.60	16.61	10.59	145.36	-2,732.64	247.71	3,222.56	3,197.46	25.10	128.380		
5,700.00	5,654.52	5,680.39	5,678.98	16.96	10.78	145.49	-2,731.73	247.15	3,233.72	3,208.14	25.57	126.450		
5,800.00	5,753.42	5,760.09	5,758.68	17.31	10.96	145.62	-2,731.29	246.51	3,245.46	3,219.43	26.03	124.667		
5,900.00	5,852.31	5,840.90	5,839.49	17.66	11.13	145.75	-2,731.32	245.80	3,257.81	3,231.34	26.48	123.044		
6,000.00	5,951.21	5,924.10	5,922.69	18.01	11.28	145.89	-2,731.77	245.03	3,270.70	3,243.79	26.90	121.565		
6,100.00	6,050.10	6,010.45	6,009.02	18.36	11.42	146.03	-2,732.60	243.96	3,284.04	3,256.71	27.33	120.184		
6,200.00	6,149.00	6,106.04	6,104.60	18.71	11.58	146.19	-2,733.71	242.49	3,297.62	3,269.86	27.76	118.785		
6,300.00	6,247.89	6,204.67	6,203.20	19.06	11.75	146.36	-2,734.90	241.13	3,311.27	3,283.07	28.20	117.426		
6,400.00	6,346.79	6,300.00	6,298.52	19.41	11.88	146.50	-2,736.19	240.51	3,325.04	3,296.43	28.61	116.232		
6,500.00	6,445.68	6,397.19	6,395.71	19.76	11.99	146.64	-2,737.61	240.52	3,338.90	3,309.91	28.99	115.171		
6,600.00	6,544.58	6,507.68	6,506.19	20.11	12.11	146.79	-2,739.03	240.79	3,352.59	3,323.21	29.38	114.105		
6,700.00	6,643.53	6,617.48	6,615.98	20.44	12.22	133.84	-2,740.05	241.24	3,365.39	3,335.79	29.60	113.685		
6,800.00	6,743.00	6,718.04	6,716.54	20.62	12.32	45.83	-2,740.83	242.13	3,365.49	3,335.96	29.53	113.950		
6,900.00	6,840.75	6,808.01	6,806.49	20.64	12.41	22.37	-2,741.65	242.97	3,348.44	3,319.86	28.58	117.159		
7,000.00	6,933.82	6,896.37	6,894.85	20.54	12.51	16.19	-2,742.62	243.67	3,314.82	3,288.02	26.79	123.723		
7,100.00	7,019.36	6,978.11	6,976.58	20.31	12.60	13.95	-2,743.64	244.27	3,265.58	3,241.32	24.26	134.634		
7,200.00	7,094.79	7,055.84	7,054.30	20.01	12.70	13.46	-2,744.66	244.87	3,202.14	3,181.01	21.13	151.560		
7,300.00	7,157.81	7,121.17	7,119.62	19.66	12.78	14.31	-2,745.47	245.49	3,126.33	3,108.62	17.70	176.604		
7,400.00	7,206.51	7,169.38	7,167.82	19.29	12.83	16.97	-2,746.08	246.00	3,040.51	3,025.84	14.67	207.198		
7,500.00	7,239.40	7,202.80	7,201.24	18.94	12.87	23.93	-2,746.53	246.37	2,947.31	2,933.15	14.16	208.182		
7,600.00	7,255.49	7,221.90	7,220.33	18.63	12.90	49.70	-2,746.77	246.57	2,849.51	2,826.68	22.83	124.826		
7,700.00	7,256.04	7,223.86	7,222.30	18.39	12.90	95.70	-2,746.80	246.59	2,750.05	2,718.95	31.10	88.434		
7,800.00	7,253.91	7,222.91	7,221.35	18.51	12.90	95.50	-2,746.79	246.58	2,650.53	2,618.95	31.59	83.906		
7,900.00	7,251.78	7,221.96	7,220.40	19.20	12.90	95.29	-2,746.77	246.57	2,551.06	2,518.80	32.26	79.069		
8,000.00	7,249.65	7,221.02	7,219.46	20.08	12.90	95.09	-2,746.76	246.56	2,451.63	2,418.53	33.10	74.057		
8,100.00	7,247.53	7,220.09	7,218.53	21.07	12.90	94.89	-2,746.75	246.55	2,352.25	2,318.16	34.09	68.996		
8,200.00	7,245.40	7,219.17	7,217.61	22.17	12.90	94.70	-2,746.74	246.54	2,252.92	2,217.71	35.21	63.987		
8,300.00	7,243.27	7,218.25	7,216.69	23.36	12.89	94.50	-2,746.73	246.53	2,153.66	2,117.22	36.44	59.106		
8,400.00	7,241.14	7,217.35	7,215.78	24.64	12.89	94.31	-2,746.72	246.52	2,054.46	2,016.70	37.76	54.408		
8,500.00	7,239.01	7,216.45	7,214.88	25.98	12.89	94.11	-2,746.70	246.51	1,955.35	1,916.18	39.16	49.926		
8,600.00	7,236.89	7,215.55	7,213.99	27.39	12.89	93.92	-2,746.69	246.51	1,856.33	1,815.69	40.64	45.679		
8,700.00	7,234.76	7,214.67	7,213.10	28.85	12.89	93.73	-2,746.68	246.50	1,757.42	1,715.25	42.17	41.674		
8,800.00	7,232.63	7,213.79	7,212.22	30.36	12.89	93.54	-2,746.67	246.49	1,658.64	1,614.89	43.75	37.909		
8,900.00	7,230.50	7,212.91	7,211.35	31.91	12.89	93.35	-2,746.66	246.48	1,560.02	1,514.64	45.38	34.377		
9,000.00	7,228.38	7,212.05	7,210.49	33.49	12.89	93.17	-2,746.65	246.47	1,461.59	1,414.54	47.04	31.070		
9,100.00	7,226.25	7,211.19	7,209.63	35.11	12.89	92.98	-2,746.64	246.46	1,363.38	1,314.64	48.74	27.974		
9,200.00	7,224.12	7,210.34	7,208.78	36.75	12.88	92.80	-2,746.63	246.45	1,265.45	1,214.99	50.46	25.079		
9,300.00	7,221.99	7,209.49	7,207.93	38.41	12.88	92.62	-2,746.61	246.44	1,167.87	1,115.67	52.20	22.371		
9,400.00	7,219.86	7,208.66	7,207.09	40.10	12.88	92.44	-2,746.60	246.43	1,070.74	1,016.77	53.97	19.839		
9,500.00	7,217.74	7,207.82	7,206.26	41.80	12.88	92.26	-2,746.59	246.43	974.19	918.43	55.76	17.472		
9,600.00	7,215.61	7,207.00	7,205.44	43.53	12.88	92.08	-2,746.58	246.42	878.41	820.85	57.56	15.261		
9,700.00	7,213.48	7,206.18	7,204.62	45.26	12.88	91.90	-2,746.57	246.41	783.68	724.31	59.37	13.199		
9,800.00	7,211.35	7,205.37	7,203.81	47.01	12.88	91.73	-2,746.56	246.40	690.44	629.24	61.20	11.281		
9,900.00	7,209.22	7,204.56	7,203.00	48.77	12.88	91.55	-2,746.55	246.39	599.39	536.35	63.04	9.508		
10,000.00	7,207.10	7,203.76	7,202.20	50.54	12.88	91.38	-2,746.54	246.38	511.68	446.79	64.89	7.885		
10,100.00	7,204.97	7,202.97	7,201.41	52.32	12.87	91.21	-2,746.53	246.37	429.38	362.63	66.75	6.433		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-SKELLY 9-26 offset - HSR SKELLY 9-26 - HSR SKELLY 9-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.00	7,202.84	7,202.18	7,200.62	54.11	12.87	91.04	-2,746.52	246.36	356.26	287.64	68.62	5.192	
10,300.00	7,200.71	7,201.40	7,199.84	55.91	12.87	90.87	-2,746.51	246.36	299.12	228.63	70.49	4.243	
10,400.00	7,198.59	7,200.00	7,198.44	57.72	12.87	90.57	-2,746.49	246.34	268.36	196.01	72.35	3.709	
10,437.27	7,197.79	7,200.00	7,198.44	58.39	12.87	90.57	-2,746.49	246.34	265.76	192.65	73.12	3.635 CC, ES, SF	
10,500.00	7,196.46	7,199.85	7,198.29	59.53	12.87	90.54	-2,746.49	246.34	273.07	198.81	74.26	3.677	
10,600.00	7,194.33	7,199.06	7,197.50	61.34	12.87	90.37	-2,746.48	246.33	311.63	235.48	76.15	4.092	
10,700.00	7,192.20	7,198.26	7,196.70	63.17	12.87	90.20	-2,746.47	246.32	373.70	295.66	78.04	4.789	
10,800.00	7,190.07	7,197.47	7,195.91	64.99	12.87	90.03	-2,746.45	246.31	449.66	369.72	79.94	5.625	
10,900.00	7,187.95	7,196.67	7,195.11	66.83	12.87	89.85	-2,746.44	246.30	533.61	451.77	81.84	6.520	
11,000.00	7,185.82	7,195.87	7,194.31	68.66	12.87	89.68	-2,746.43	246.29	622.32	538.57	83.75	7.431	
11,100.00	7,183.69	7,195.07	7,193.51	70.50	12.87	89.51	-2,746.42	246.29	714.02	628.36	85.65	8.336	
11,200.00	7,181.56	7,194.27	7,192.71	72.35	12.86	89.34	-2,746.41	246.28	807.69	720.12	87.56	9.224	
11,300.00	7,179.44	7,193.47	7,191.91	74.19	12.86	89.16	-2,746.40	246.27	902.71	813.24	89.48	10.089	
11,400.00	7,177.31	7,192.66	7,191.10	76.04	12.86	88.99	-2,746.39	246.26	998.71	907.32	91.39	10.928	
11,500.00	7,175.18	7,191.85	7,190.29	77.90	12.86	88.81	-2,746.38	246.25	1,095.43	1,002.12	93.31	11.740	
11,600.00	7,173.05	7,191.04	7,189.48	79.75	12.86	88.64	-2,746.37	246.24	1,192.68	1,097.46	95.23	12.525	
11,700.00	7,170.92	7,190.23	7,188.67	81.61	12.86	88.47	-2,746.36	246.23	1,290.36	1,193.21	97.14	13.283	
11,800.00	7,168.80	7,189.42	7,187.86	83.47	12.86	88.29	-2,746.35	246.22	1,388.36	1,289.30	99.06	14.015	
11,837.41	7,168.00	7,189.11	7,187.55	84.17	12.86	88.22	-2,746.34	246.22	1,425.10	1,325.32	99.78	14.282	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - HSR-STUBBEN 11-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-132.52	-2,475.91	-2,699.95	3,663.60					
100.00	100.00	51.60	51.60	0.08	0.07	-132.52	-2,475.96	-2,699.93	3,663.33	3,663.18	0.15	N/A		
200.00	200.00	161.83	161.83	0.31	0.29	-132.53	-2,476.33	-2,699.62	3,663.36	3,662.76	0.60	6,144.603		
300.00	300.00	262.19	262.18	0.53	0.54	-132.54	-2,476.67	-2,698.86	3,663.04	3,661.96	1.08	3,403.134		
400.00	400.00	372.13	372.12	0.76	0.78	-132.55	-2,477.02	-2,698.17	3,662.80	3,661.26	1.54	2,381.295		
500.00	500.00	488.53	488.52	0.98	1.00	-132.55	-2,476.46	-2,697.51	3,662.05	3,660.07	1.98	1,846.393		
600.00	600.00	568.97	568.96	1.21	1.19	-132.56	-2,476.25	-2,696.91	3,661.33	3,658.93	2.40	1,526.849		
700.00	700.00	663.62	663.61	1.43	1.38	-132.56	-2,476.29	-2,696.58	3,661.10	3,658.28	2.82	1,299.851		
800.00	800.00	754.57	754.56	1.66	1.54	-132.56	-2,476.07	-2,696.51	3,660.88	3,657.69	3.20	1,145.275		
803.23	803.23	757.24	757.23	1.66	1.54	-132.56	-2,476.07	-2,696.51	3,660.88	3,657.67	3.21	1,141.157		
900.00	900.00	844.00	843.98	1.88	1.66	-132.56	-2,476.43	-2,696.40	3,661.06	3,657.52	3.55	1,032.390		
1,000.00	1,000.00	937.35	937.33	2.11	1.76	-132.56	-2,476.51	-2,696.74	3,661.39	3,657.53	3.87	946.855		
1,100.00	1,100.00	1,036.22	1,036.21	2.33	1.87	-132.56	-2,476.83	-2,697.23	3,661.97	3,657.77	4.20	871.000		
1,200.00	1,200.00	1,148.81	1,148.79	2.56	2.09	-132.57	-2,477.49	-2,696.97	3,662.19	3,657.54	4.65	787.538		
1,300.00	1,300.00	1,248.14	1,248.12	2.78	2.29	-132.58	-2,477.84	-2,696.86	3,662.35	3,657.28	5.07	722.443		
1,400.00	1,399.98	1,349.43	1,349.41	3.00	2.46	-168.98	-2,477.92	-2,696.99	3,664.21	3,658.74	5.47	670.456		
1,500.00	1,499.84	1,451.01	1,450.98	3.23	2.66	-168.98	-2,478.08	-2,696.98	3,669.45	3,663.56	5.89	623.006		
1,600.00	1,599.45	1,546.75	1,546.73	3.45	2.88	-168.97	-2,478.23	-2,696.97	3,678.10	3,671.77	6.32	581.521		
1,700.00	1,698.70	1,643.21	1,643.19	3.69	3.10	-168.96	-2,478.53	-2,697.04	3,690.33	3,683.57	6.75	546.403		
1,800.00	1,797.61	1,743.27	1,743.25	3.95	3.33	-168.99	-2,478.79	-2,697.09	3,704.97	3,697.77	7.20	514.651		
1,900.00	1,896.51	1,843.44	1,843.41	4.22	3.52	-169.04	-2,479.02	-2,697.22	3,719.78	3,712.16	7.62	488.214		
2,000.00	1,995.40	1,951.10	1,951.08	4.51	3.65	-169.08	-2,478.96	-2,697.37	3,734.41	3,726.43	7.98	467.973		
2,100.00	2,094.30	2,048.21	2,048.18	4.80	3.78	-169.12	-2,478.85	-2,697.37	3,748.89	3,740.56	8.33	449.844		
2,200.00	2,193.19	2,166.48	2,166.46	5.10	3.99	-169.18	-2,478.93	-2,697.19	3,763.43	3,754.65	8.78	428.833		
2,300.00	2,292.09	2,275.88	2,275.86	5.41	4.16	-169.23	-2,478.45	-2,696.47	3,777.21	3,768.03	9.18	411.394		
2,400.00	2,390.98	2,353.41	2,353.38	5.72	4.27	-169.26	-2,478.13	-2,696.16	3,791.22	3,781.70	9.53	397.908		
2,500.00	2,489.88	2,435.81	2,435.78	6.04	4.38	-169.29	-2,478.08	-2,696.33	3,805.89	3,796.01	9.88	385.231		
2,600.00	2,588.77	2,534.13	2,534.10	6.36	4.52	-169.33	-2,477.98	-2,696.66	3,820.63	3,810.38	10.26	372.489		
2,700.00	2,687.67	2,637.81	2,637.78	6.68	4.68	-169.37	-2,478.03	-2,697.03	3,835.50	3,824.85	10.66	359.952		
2,800.00	2,786.56	2,737.06	2,737.03	7.01	4.83	-169.40	-2,477.41	-2,697.40	3,849.93	3,838.89	11.04	348.657		
2,900.00	2,885.46	2,800.00	2,799.96	7.34	4.92	-169.41	-2,477.14	-2,698.10	3,865.03	3,853.66	11.37	339.847		
3,000.00	2,984.36	2,884.79	2,884.74	7.67	5.07	-169.44	-2,477.22	-2,699.36	3,880.75	3,868.99	11.77	329.836		
3,100.00	3,083.25	2,969.99	2,969.93	8.00	5.24	-169.47	-2,477.92	-2,700.53	3,896.88	3,884.70	12.18	320.028		
3,200.00	3,182.15	3,100.00	3,099.93	8.34	5.52	-169.52	-2,479.52	-2,701.64	3,912.95	3,900.26	12.70	308.221		
3,300.00	3,281.04	3,192.33	3,192.25	8.67	5.72	-169.56	-2,480.25	-2,702.22	3,928.52	3,915.38	13.14	299.040		
3,400.00	3,379.94	3,288.25	3,288.16	9.01	5.93	-169.60	-2,480.99	-2,703.01	3,944.22	3,930.63	13.59	290.236		
3,500.00	3,478.83	3,387.87	3,387.77	9.35	6.16	-169.64	-2,481.93	-2,703.71	3,959.95	3,945.89	14.06	281.712		
3,600.00	3,577.73	3,476.65	3,476.55	9.69	6.35	-169.67	-2,482.40	-2,704.78	3,975.77	3,961.28	14.49	274.421		
3,700.00	3,676.62	3,631.87	3,631.74	10.03	6.61	-169.69	-2,481.24	-2,707.42	3,991.11	3,976.11	15.00	266.123		
3,800.00	3,775.52	3,740.33	3,740.19	10.37	6.77	-169.72	-2,480.28	-2,708.02	4,005.48	3,990.09	15.40	260.129		
3,900.00	3,874.41	3,834.63	3,834.49	10.72	6.91	-169.76	-2,480.33	-2,707.69	4,019.86	4,004.08	15.79	254.643		
4,000.00	3,973.31	3,925.28	3,925.14	11.06	7.07	-169.80	-2,480.54	-2,707.40	4,034.39	4,018.20	16.19	249.222		
4,100.00	4,072.20	4,011.69	4,011.55	11.40	7.24	-169.83	-2,480.70	-2,707.51	4,049.20	4,032.59	16.60	243.858		
4,200.00	4,171.10	4,101.39	4,101.25	11.75	7.44	-169.86	-2,480.94	-2,707.88	4,064.27	4,047.22	17.05	238.426		
4,300.00	4,269.99	4,200.00	4,199.86	12.09	7.64	-169.89	-2,480.89	-2,708.49	4,079.28	4,061.79	17.49	233.295		
4,400.00	4,368.89	4,279.74	4,279.59	12.44	7.80	-169.92	-2,480.90	-2,709.19	4,094.55	4,076.66	17.89	228.874		
4,500.00	4,467.78	4,416.36	4,416.20	12.78	8.06	-169.95	-2,480.96	-2,710.46	4,109.89	4,091.49	18.40	223.364		
4,600.00	4,566.68	4,516.17	4,516.02	13.13	8.23	-169.98	-2,480.33	-2,711.24	4,124.62	4,105.80	18.82	219.200		
4,700.00	4,665.57	4,618.37	4,618.21	13.48	8.41	-170.00	-2,479.87	-2,711.78	4,139.29	4,120.05	19.24	215.134		
4,800.00	4,764.47	4,716.60	4,716.44	13.82	8.59	-170.03	-2,479.40	-2,712.24	4,153.91	4,134.25	19.66	211.283		
4,900.00	4,863.36	4,803.22	4,803.06	14.17	8.75	-170.05	-2,479.08	-2,712.80	4,168.72	4,148.65	20.07	207.706		
5,000.00	4,962.26	4,923.84	4,923.68	14.52	8.95	-170.10	-2,479.22	-2,712.69	4,183.32	4,162.81	20.51	203.922		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - HSR-STUBBEN 11-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,017.43	5,017.27	14.87	9.09	-170.14	-2,479.62	-2,712.17	4,197.83	4,176.93	20.90	200.869		
5,200.00	5,160.05	5,114.20	5,114.03	15.21	9.25	-170.17	-2,479.41	-2,712.31	4,212.40	4,191.09	21.31	197.708		
5,300.00	5,258.94	5,202.55	5,202.38	15.56	9.42	-170.19	-2,479.16	-2,712.72	4,227.14	4,205.42	21.72	194.599		
5,400.00	5,357.84	5,312.65	5,312.48	15.91	9.63	-170.23	-2,479.01	-2,713.01	4,241.85	4,219.67	22.18	191.241		
5,500.00	5,456.73	5,407.61	5,407.44	16.26	9.81	-170.26	-2,478.87	-2,713.18	4,256.49	4,233.88	22.61	188.282		
5,600.00	5,555.63	5,500.00	5,499.83	16.61	10.01	-170.29	-2,478.92	-2,713.39	4,271.30	4,248.25	23.05	185.309		
5,700.00	5,654.52	5,600.00	5,599.83	16.96	10.23	-170.32	-2,478.97	-2,713.61	4,286.10	4,262.59	23.51	182.309		
5,800.00	5,753.42	5,684.09	5,683.92	17.31	10.41	-170.34	-2,479.02	-2,713.91	4,301.03	4,277.09	23.94	179.666		
5,900.00	5,852.31	5,785.13	5,784.95	17.66	10.64	-170.38	-2,479.24	-2,714.50	4,316.22	4,291.80	24.42	176.781		
6,000.00	5,951.21	5,880.47	5,880.29	18.01	10.86	-170.40	-2,479.42	-2,715.01	4,331.35	4,306.47	24.88	174.072		
6,100.00	6,050.10	5,979.20	5,979.02	18.36	11.09	-170.43	-2,479.72	-2,715.53	4,346.55	4,321.20	25.36	171.406		
6,200.00	6,149.00	6,073.27	6,073.09	18.71	11.31	-170.46	-2,480.03	-2,716.03	4,361.79	4,335.96	25.82	168.904		
6,300.00	6,247.89	6,152.51	6,152.32	19.06	11.50	-170.49	-2,480.35	-2,716.67	4,377.27	4,351.01	26.26	166.708		
6,400.00	6,346.79	6,222.93	6,222.74	19.41	11.66	-170.50	-2,480.67	-2,717.76	4,393.31	4,366.64	26.67	164.729		
6,500.00	6,445.68	6,300.00	6,299.79	19.76	11.84	-170.52	-2,481.75	-2,719.12	4,410.10	4,383.01	27.10	162.753		
6,600.00	6,544.58	6,369.60	6,369.36	20.11	12.00	-170.55	-2,483.37	-2,720.28	4,427.44	4,399.94	27.50	160.992		
6,700.00	6,643.53	6,443.81	6,443.53	20.44	12.17	176.04	-2,485.52	-2,721.42	4,444.79	4,416.84	27.95	159.014		
6,800.00	6,743.00	6,500.00	6,499.68	20.62	12.30	87.25	-2,487.43	-2,722.50	4,454.13	4,425.93	28.20	157.943		
6,900.00	6,840.75	6,572.26	6,571.86	20.64	12.46	63.85	-2,490.16	-2,724.41	4,452.00	4,423.90	28.10	158.437		
7,000.00	6,933.82	6,745.14	6,744.56	20.54	12.87	59.00	-2,495.67	-2,729.71	4,437.99	4,409.99	28.00	158.513		
7,100.00	7,019.36	6,975.11	6,974.49	20.31	13.39	59.67	-2,496.74	-2,733.62	4,409.91	4,381.83	28.08	157.049		
7,200.00	7,094.79	7,121.81	7,121.12	20.01	13.63	62.80	-2,493.12	-2,735.28	4,370.18	4,341.95	28.23	154.802		
7,300.00	7,157.81	7,234.51	7,233.71	19.66	13.79	67.86	-2,488.18	-2,736.22	4,321.43	4,292.59	28.84	149.822		
7,400.00	7,206.51	7,299.24	7,298.38	19.29	13.87	74.15	-2,485.30	-2,736.13	4,266.30	4,236.52	29.77	143.305		
7,500.00	7,239.40	7,324.61	7,323.72	18.94	13.90	81.21	-2,484.26	-2,735.95	4,207.10	4,176.41	30.69	137.066		
7,600.00	7,255.49	7,335.31	7,334.42	18.63	13.92	88.84	-2,483.84	-2,735.87	4,145.95	4,114.59	31.36	132.215		
7,700.00	7,256.04	7,332.40	7,331.51	18.39	13.91	93.07	-2,483.96	-2,735.89	4,084.81	4,053.00	31.81	128.419		
7,800.00	7,253.91	7,327.04	7,326.15	18.51	13.91	92.97	-2,484.16	-2,735.94	4,025.10	3,992.80	32.30	124.615		
7,900.00	7,251.78	7,321.55	7,320.67	19.20	13.90	92.88	-2,484.38	-2,735.98	3,967.01	3,934.03	32.98	120.299		
8,000.00	7,249.65	7,315.93	7,315.06	20.08	13.89	92.78	-2,484.61	-2,736.02	3,910.60	3,876.78	33.82	115.631		
8,100.00	7,247.53	7,310.19	7,309.32	21.07	13.89	92.68	-2,484.84	-2,736.06	3,855.95	3,821.14	34.81	110.768		
8,200.00	7,245.40	7,304.32	7,303.45	22.17	13.88	92.57	-2,485.09	-2,736.10	3,803.13	3,767.20	35.93	105.843		
8,300.00	7,243.27	7,297.19	7,296.34	23.36	13.87	92.45	-2,485.39	-2,736.14	3,752.23	3,715.07	37.16	100.976		
8,400.00	7,241.14	7,287.06	7,286.22	24.64	13.86	92.27	-2,485.83	-2,736.19	3,703.31	3,664.84	38.47	96.262		
8,500.00	7,239.01	7,276.75	7,275.91	25.98	13.85	92.09	-2,486.28	-2,736.23	3,656.46	3,616.59	39.86	91.724		
8,600.00	7,236.89	7,266.25	7,265.42	27.39	13.83	91.91	-2,486.74	-2,736.25	3,611.75	3,570.42	41.32	87.401		
8,700.00	7,234.76	7,255.55	7,254.74	28.85	13.82	91.72	-2,487.22	-2,736.26	3,569.26	3,526.41	42.84	83.311		
8,800.00	7,232.63	7,244.66	7,243.85	30.36	13.80	91.53	-2,487.71	-2,736.24	3,529.07	3,484.66	44.41	79.465		
8,900.00	7,230.50	7,233.56	7,232.76	31.91	13.79	91.33	-2,488.23	-2,736.22	3,491.26	3,445.24	46.02	75.865		
9,000.00	7,228.38	7,222.25	7,221.47	33.49	13.77	91.13	-2,488.75	-2,736.17	3,455.92	3,408.25	47.66	72.504		
9,100.00	7,226.25	7,210.72	7,209.95	35.11	13.76	90.93	-2,489.30	-2,736.10	3,423.11	3,373.77	49.34	69.377		
9,200.00	7,224.12	7,199.20	7,198.44	36.75	13.74	90.73	-2,489.85	-2,736.01	3,392.90	3,341.86	51.04	66.471		
9,300.00	7,221.99	7,190.11	7,189.37	38.41	13.73	90.57	-2,490.28	-2,735.94	3,365.38	3,312.60	52.78	63.765		
9,400.00	7,219.86	7,181.38	7,180.64	40.10	13.72	90.41	-2,490.69	-2,735.86	3,340.60	3,286.07	54.53	61.257		
9,500.00	7,217.74	7,172.98	7,172.26	41.80	13.71	90.27	-2,491.06	-2,735.79	3,318.64	3,262.33	56.31	58.935		
9,600.00	7,215.61	7,164.90	7,164.18	43.53	13.69	90.12	-2,491.41	-2,735.71	3,299.55	3,241.45	58.10	56.788		
9,700.00	7,213.48	7,157.12	7,156.41	45.26	13.68	89.99	-2,491.74	-2,735.64	3,283.38	3,223.47	59.91	54.804		
9,800.00	7,211.35	7,149.62	7,148.91	47.01	13.67	89.85	-2,492.05	-2,735.56	3,270.17	3,208.44	61.73	52.974		
9,900.00	7,209.22	7,142.38	7,141.68	48.77	13.66	89.73	-2,492.34	-2,735.49	3,259.96	3,196.40	63.57	51.285		
10,000.00	7,207.10	7,135.40	7,134.71	50.54	13.65	89.60	-2,492.61	-2,735.42	3,252.79	3,187.38	65.41	49.730		
10,100.00	7,204.97	7,128.66	7,127.97	52.32	13.64	89.48	-2,492.87	-2,735.35	3,248.66	3,181.40	67.26	48.298		
10,184.59	7,203.17	7,123.14	7,122.45	53.84	13.63	89.39	-2,493.07	-2,735.29	3,247.57	3,178.72	68.85	47.167	CC	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-STUBBEN 11-26 offset - HSR-STUBBEN 11-26 - HSR-STUBBEN 11-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,200.00	7,202.84	7,122.15	7,121.46	54.11	13.63	89.37	-2,493.11	-2,735.28	3,247.60	3,178.48	69.13	46.981 ES	
10,300.00	7,200.71	7,115.85	7,115.17	55.91	13.62	89.26	-2,493.34	-2,735.21	3,249.61	3,178.61	71.00	45.772	
10,400.00	7,198.59	7,109.76	7,109.08	57.72	13.61	89.15	-2,493.55	-2,735.15	3,254.68	3,181.80	72.87	44.662	
10,500.00	7,196.46	7,103.86	7,103.19	59.53	13.61	89.05	-2,493.75	-2,735.08	3,262.79	3,188.04	74.76	43.645	
10,600.00	7,194.33	7,100.00	7,099.33	61.34	13.60	88.98	-2,493.88	-2,735.04	3,273.94	3,197.28	76.66	42.709	
10,700.00	7,192.20	7,093.40	7,092.74	63.17	13.59	88.86	-2,494.09	-2,734.96	3,288.07	3,209.53	78.55	41.862	
10,800.00	7,190.07	7,088.60	7,087.94	64.99	13.58	88.78	-2,494.25	-2,734.91	3,305.17	3,224.72	80.45	41.084	
10,900.00	7,187.95	7,083.93	7,083.27	66.83	13.57	88.70	-2,494.39	-2,734.85	3,325.18	3,242.83	82.36	40.376	
11,000.00	7,185.82	7,079.40	7,078.74	68.66	13.57	88.62	-2,494.53	-2,734.80	3,348.05	3,263.79	84.27	39.731	
11,100.00	7,183.69	7,075.00	7,074.34	70.50	13.56	88.54	-2,494.65	-2,734.75	3,373.73	3,287.55	86.18	39.146	
11,200.00	7,181.56	7,070.71	7,070.06	72.35	13.55	88.46	-2,494.78	-2,734.70	3,402.14	3,314.04	88.10	38.616	
11,300.00	7,179.44	7,066.54	7,065.89	74.19	13.55	88.39	-2,494.89	-2,734.66	3,433.23	3,343.21	90.02	38.137	
11,400.00	7,177.31	7,062.49	7,061.84	76.04	13.54	88.32	-2,495.00	-2,734.61	3,466.92	3,374.97	91.95	37.705	
11,500.00	7,175.18	7,058.54	7,057.90	77.90	13.53	88.25	-2,495.11	-2,734.57	3,503.14	3,409.26	93.88	37.316	
11,600.00	7,173.05	7,054.70	7,054.05	79.75	13.53	88.18	-2,495.21	-2,734.52	3,541.80	3,445.99	95.81	36.968	
11,700.00	7,170.92	7,050.96	7,050.31	81.61	13.52	88.12	-2,495.30	-2,734.48	3,582.83	3,485.09	97.74	36.656	
11,800.00	7,168.80	7,047.31	7,046.66	83.47	13.52	88.05	-2,495.40	-2,734.44	3,626.15	3,526.48	99.68	36.379	
11,837.41	7,168.00	7,045.97	7,045.32	84.17	13.51	88.03	-2,495.43	-2,734.42	3,642.94	3,542.53	100.40	36.284 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-TERRY 8-26 offset - HSR-TERRY 8-26 - HSR-TERRY 8-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	174.48	-1,333.28	128.78	1,339.57					
100.00	100.00	82.15	82.15	0.08	0.11	174.48	-1,333.35	128.97	1,339.58	1,339.38	0.19	6,926.605		
200.00	200.00	186.19	186.18	0.31	0.35	174.44	-1,333.40	129.71	1,339.69	1,339.03	0.66	2,019.008		
280.20	280.20	265.17	265.16	0.49	0.56	174.41	-1,333.27	130.39	1,339.63	1,338.58	1.05	1,276.306		
300.00	300.00	284.39	284.38	0.53	0.61	174.41	-1,333.26	130.52	1,339.63	1,338.49	1.14	1,170.664		
400.00	400.00	385.59	385.58	0.76	0.87	174.39	-1,333.24	130.96	1,339.66	1,338.03	1.63	821.174		
500.00	500.00	492.58	492.57	0.98	1.13	174.37	-1,332.91	131.33	1,339.38	1,337.27	2.12	632.874		
600.00	600.00	598.19	598.17	1.21	1.34	174.36	-1,332.05	131.60	1,338.60	1,336.06	2.55	525.973		
700.00	700.00	695.00	694.98	1.43	1.46	174.37	-1,331.24	131.23	1,337.73	1,334.84	2.89	462.281		
800.00	800.00	787.94	787.92	1.66	1.54	174.40	-1,330.86	130.48	1,337.24	1,334.04	3.20	417.910		
900.00	900.00	897.33	897.30	1.88	1.67	174.44	-1,330.41	129.48	1,336.75	1,333.20	3.55	376.085		
1,000.00	1,000.00	993.49	993.45	2.11	1.85	174.46	-1,329.70	128.90	1,335.96	1,332.00	3.96	337.320		
1,100.00	1,100.00	1,085.86	1,085.82	2.33	2.01	174.48	-1,329.42	128.44	1,335.61	1,331.27	4.34	307.752		
1,200.00	1,200.00	1,188.25	1,188.21	2.56	2.18	174.51	-1,329.38	127.82	1,335.51	1,330.78	4.73	282.156		
1,300.00	1,300.00	1,292.20	1,292.16	2.78	2.38	174.53	-1,329.03	127.17	1,335.12	1,329.96	5.17	258.458		
1,318.87	1,318.87	1,310.46	1,310.42	2.82	2.42	138.14	-1,328.95	127.00	1,335.07	1,329.83	5.24	254.573		
1,400.00	1,399.98	1,385.12	1,385.08	3.00	2.56	138.20	-1,328.83	126.36	1,336.12	1,330.55	5.57	239.861		
1,500.00	1,499.84	1,488.04	1,488.00	3.23	2.77	138.33	-1,328.84	125.63	1,339.97	1,333.98	6.00	223.378		
1,600.00	1,599.45	1,590.52	1,590.47	3.45	3.00	138.53	-1,328.53	125.01	1,346.15	1,339.70	6.46	208.468		
1,700.00	1,698.70	1,688.61	1,688.56	3.69	3.23	138.77	-1,328.17	124.36	1,354.92	1,348.00	6.92	195.765		
1,800.00	1,797.61	1,786.95	1,786.89	3.95	3.46	139.17	-1,327.90	123.68	1,365.73	1,358.33	7.40	184.626		
1,900.00	1,896.51	1,891.01	1,890.95	4.22	3.71	139.62	-1,327.46	122.85	1,376.57	1,368.66	7.90	174.241		
2,000.00	1,995.40	1,989.63	1,989.57	4.51	3.95	140.03	-1,326.80	122.42	1,387.25	1,378.85	8.40	165.132		
2,100.00	2,094.30	2,088.94	2,088.88	4.80	4.20	140.43	-1,326.15	122.19	1,398.03	1,389.12	8.91	156.943		
2,200.00	2,193.19	2,210.60	2,210.52	5.10	4.51	140.92	-1,324.43	121.49	1,408.13	1,398.65	9.48	148.586		
2,300.00	2,292.09	2,326.44	2,326.31	5.41	4.79	141.40	-1,321.11	120.52	1,416.82	1,406.79	10.03	141.220		
2,400.00	2,390.98	2,429.53	2,429.32	5.72	5.05	141.82	-1,317.18	119.34	1,424.64	1,414.08	10.56	134.895		
2,500.00	2,489.88	2,515.69	2,515.42	6.04	5.27	142.18	-1,314.46	118.19	1,433.17	1,422.12	11.05	129.683		
2,600.00	2,588.77	2,616.03	2,615.72	6.36	5.53	142.57	-1,311.54	117.47	1,442.04	1,430.47	11.57	124.584		
2,700.00	2,687.67	2,707.53	2,707.19	6.68	5.75	142.90	-1,309.15	117.35	1,451.27	1,439.20	12.07	120.222		
2,800.00	2,786.56	2,808.06	2,807.69	7.01	6.00	143.26	-1,306.70	117.20	1,460.74	1,448.15	12.59	116.004		
2,900.00	2,885.46	2,900.00	2,899.60	7.34	6.23	143.59	-1,304.50	117.00	1,470.31	1,457.22	13.10	112.276		
3,000.00	2,984.36	2,991.70	2,991.29	7.67	6.46	143.91	-1,302.75	116.88	1,480.43	1,466.83	13.60	108.866		
3,100.00	3,083.25	3,090.18	3,089.76	8.00	6.70	144.24	-1,301.35	116.97	1,491.06	1,476.95	14.11	105.665		
3,200.00	3,182.15	3,191.97	3,191.53	8.34	6.95	144.57	-1,299.80	117.03	1,501.64	1,487.00	14.63	102.613		
3,300.00	3,281.04	3,283.46	3,283.01	8.67	7.15	144.87	-1,298.52	117.17	1,512.39	1,497.28	15.11	100.068		
3,400.00	3,379.94	3,380.36	3,379.90	9.01	7.34	145.15	-1,297.56	118.06	1,523.57	1,507.99	15.58	97.813		
3,500.00	3,478.83	3,488.13	3,487.67	9.35	7.56	145.46	-1,296.29	119.00	1,534.60	1,518.53	16.07	95.495		
3,600.00	3,577.73	3,591.91	3,591.43	9.69	7.80	145.76	-1,294.52	119.73	1,545.15	1,528.57	16.58	93.191		
3,700.00	3,676.62	3,689.82	3,689.32	10.03	8.01	146.03	-1,292.77	120.75	1,555.64	1,538.57	17.07	91.134		
3,800.00	3,775.52	3,789.04	3,788.51	10.37	8.21	146.27	-1,291.09	122.46	1,566.22	1,548.68	17.54	89.277		
3,900.00	3,874.41	3,877.95	3,877.39	10.72	8.37	146.47	-1,289.84	124.26	1,577.11	1,559.13	17.98	87.720		
4,000.00	3,973.31	4,000.63	4,000.02	11.06	8.60	146.74	-1,287.96	127.02	1,587.93	1,569.45	18.48	85.935		
4,100.00	4,072.20	4,112.43	4,111.74	11.40	8.85	146.99	-1,284.66	129.56	1,597.30	1,578.30	19.00	84.072		
4,200.00	4,171.10	4,208.39	4,207.63	11.75	9.07	147.20	-1,281.65	131.67	1,606.52	1,587.03	19.49	82.411		
4,300.00	4,269.99	4,317.19	4,316.35	12.09	9.33	147.45	-1,277.83	133.53	1,615.42	1,595.40	20.03	80.665		
4,400.00	4,368.89	4,405.69	4,404.79	12.44	9.55	147.66	-1,274.87	134.85	1,624.53	1,604.02	20.52	79.183		
4,500.00	4,467.78	4,504.54	4,503.58	12.78	9.79	147.88	-1,271.89	136.62	1,633.99	1,612.97	21.02	77.719		
4,600.00	4,566.68	4,595.52	4,594.51	13.13	10.00	148.08	-1,269.43	138.46	1,643.75	1,622.24	21.51	76.423		
4,700.00	4,665.57	4,691.48	4,690.42	13.48	10.22	148.28	-1,267.19	140.43	1,653.89	1,631.89	22.00	75.178		
4,800.00	4,764.47	4,800.80	4,799.68	13.82	10.48	148.50	-1,264.44	142.65	1,663.88	1,641.36	22.52	73.870		
4,900.00	4,863.36	4,899.04	4,897.87	14.17	10.71	148.71	-1,261.65	144.43	1,673.60	1,650.56	23.03	72.661		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-TERRY 8-26 offset - HSR-TERRY 8-26 - HSR-TERRY 8-26													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,962.26	5,012.70	5,011.46	14.52	11.01	148.99	-1,257.74	145.47	1,682.80	1,659.21	23.59	71.342		
5,100.00	5,061.15	5,100.00	5,098.71	14.87	11.23	149.23	-1,254.88	145.30	1,692.30	1,668.22	24.08	70.276		
5,200.00	5,160.05	5,171.22	5,169.91	15.21	11.41	149.43	-1,253.37	144.88	1,702.98	1,678.45	24.53	69.426		
5,300.00	5,258.94	5,253.07	5,251.75	15.56	11.59	149.66	-1,252.59	144.48	1,714.89	1,689.92	24.97	68.666		
5,400.00	5,357.84	5,344.65	5,343.33	15.91	11.75	149.90	-1,252.42	143.97	1,727.61	1,702.21	25.40	68.011		
5,500.00	5,456.73	5,444.86	5,443.54	16.26	11.91	150.18	-1,252.24	143.03	1,740.42	1,714.60	25.83	67.390		
5,600.00	5,555.63	5,541.75	5,540.42	16.61	12.07	150.46	-1,251.99	141.80	1,753.24	1,727.00	26.25	66.801		
5,700.00	5,654.52	5,634.86	5,633.52	16.96	12.21	150.72	-1,251.99	140.48	1,766.37	1,739.72	26.65	66.287		
5,800.00	5,753.42	5,730.61	5,729.26	17.31	12.34	151.00	-1,252.24	138.89	1,779.82	1,752.78	27.04	65.824		
5,900.00	5,852.31	5,832.92	5,831.54	17.66	12.49	151.31	-1,252.39	136.68	1,793.28	1,765.84	27.45	65.337		
6,000.00	5,951.21	5,933.05	5,931.65	18.01	12.65	151.60	-1,252.29	134.62	1,806.53	1,778.66	27.86	64.833		
6,100.00	6,050.10	6,022.11	6,020.69	18.36	12.79	151.86	-1,252.47	132.79	1,820.11	1,791.85	28.26	64.409		
6,200.00	6,149.00	6,111.42	6,109.97	18.71	12.91	152.11	-1,253.22	130.84	1,834.37	1,805.74	28.64	64.059		
6,300.00	6,247.89	6,240.41	6,238.92	19.06	13.12	152.49	-1,253.24	127.71	1,847.89	1,818.79	29.10	63.502		
6,400.00	6,346.79	6,352.80	6,351.28	19.41	13.37	152.81	-1,252.01	125.25	1,860.36	1,830.76	29.60	62.858		
6,500.00	6,445.68	6,457.34	6,455.80	19.76	13.62	153.06	-1,250.52	124.22	1,872.35	1,842.25	30.10	62.194		
6,600.00	6,544.58	6,555.76	6,554.21	20.11	13.87	153.27	-1,249.17	124.24	1,884.26	1,853.65	30.61	61.558		
6,700.00	6,643.53	6,657.40	6,655.84	20.44	14.13	140.38	-1,247.78	124.04	1,895.69	1,864.70	31.00	61.158		
6,800.00	6,743.00	6,757.28	6,755.71	20.62	14.38	52.52	-1,246.22	123.95	1,894.59	1,863.51	31.08	60.957		
6,900.00	6,840.75	6,856.15	6,854.58	20.64	14.64	29.56	-1,244.67	123.41	1,876.59	1,846.35	30.24	62.056		
7,000.00	6,933.82	6,955.95	6,954.36	20.54	14.89	24.25	-1,242.85	122.97	1,841.98	1,813.43	28.55	64.517		
7,100.00	7,019.36	7,045.73	7,044.11	20.31	15.13	23.39	-1,240.87	122.73	1,791.80	1,765.64	26.16	68.498		
7,200.00	7,094.79	7,130.79	7,129.15	20.01	15.34	25.14	-1,238.84	122.94	1,727.83	1,704.36	23.48	73.592		
7,300.00	7,157.81	7,209.54	7,207.85	19.66	15.54	29.88	-1,236.09	123.36	1,651.60	1,630.12	21.48	76.878		
7,400.00	7,206.51	7,247.54	7,245.82	19.29	15.63	38.30	-1,234.70	123.61	1,566.33	1,544.52	21.81	71.826		
7,500.00	7,239.40	7,272.71	7,270.97	18.94	15.69	54.29	-1,233.89	123.78	1,474.90	1,448.45	26.46	55.749		
7,600.00	7,255.49	7,283.90	7,282.16	18.63	15.72	81.83	-1,233.55	123.86	1,380.04	1,347.39	32.64	42.280		
7,700.00	7,256.04	7,281.83	7,280.09	18.39	15.72	99.52	-1,233.61	123.85	1,284.53	1,250.30	34.22	37.534		
7,800.00	7,253.91	7,277.37	7,275.64	18.51	15.71	98.88	-1,233.74	123.82	1,189.72	1,155.03	34.69	34.296		
7,900.00	7,251.78	7,272.81	7,271.08	19.20	15.69	98.22	-1,233.88	123.78	1,095.82	1,060.49	35.33	31.016		
8,000.00	7,249.65	7,268.14	7,266.41	20.08	15.68	97.54	-1,234.03	123.75	1,003.08	966.95	36.13	27.764		
8,100.00	7,247.53	7,263.37	7,261.64	21.07	15.67	96.85	-1,234.18	123.72	911.84	874.78	37.07	24.600		
8,200.00	7,245.40	7,258.48	7,256.75	22.17	15.66	96.14	-1,234.34	123.68	822.62	784.49	38.13	21.576		
8,300.00	7,243.27	7,253.47	7,251.74	23.36	15.65	95.41	-1,234.50	123.65	736.13	696.83	39.29	18.735		
8,400.00	7,241.14	7,248.34	7,246.62	24.64	15.63	94.66	-1,234.67	123.61	653.46	612.92	40.54	16.117		
8,500.00	7,239.01	7,243.08	7,241.36	25.98	15.62	93.89	-1,234.85	123.58	576.27	534.39	41.87	13.763		
8,600.00	7,236.89	7,237.69	7,235.97	27.39	15.61	93.09	-1,235.04	123.54	507.04	463.78	43.26	11.721		
8,700.00	7,234.76	7,232.16	7,230.45	28.85	15.59	92.28	-1,235.24	123.51	449.49	404.80	44.70	10.056		
8,800.00	7,232.63	7,226.49	7,224.79	30.36	15.58	91.45	-1,235.45	123.47	408.57	362.39	46.18	8.848		
8,900.00	7,230.50	7,220.68	7,218.97	31.91	15.56	90.59	-1,235.66	123.43	389.55	341.86	47.69	8.168		
8,926.17	7,229.95	7,219.13	7,217.43	32.32	15.56	90.37	-1,235.72	123.42	388.68	340.52	48.16	8.071 CC, ES		
9,000.00	7,228.38	7,214.71	7,213.01	33.49	15.55	89.72	-1,235.89	123.39	395.60	346.38	49.23	8.036 SF		
9,100.00	7,226.25	7,208.58	7,206.88	35.11	15.53	88.81	-1,236.13	123.35	425.65	374.87	50.78	8.382		
9,200.00	7,224.12	7,202.28	7,200.60	36.75	15.52	87.89	-1,236.38	123.32	475.17	422.82	52.35	9.077		
9,300.00	7,221.99	7,196.25	7,194.56	38.41	15.50	87.00	-1,236.62	123.28	538.80	484.87	53.93	9.991		
9,400.00	7,219.86	7,190.57	7,188.89	40.10	15.49	86.17	-1,236.84	123.25	612.18	556.65	55.53	11.023		
9,500.00	7,217.74	7,185.07	7,183.40	41.80	15.48	85.37	-1,237.05	123.21	692.21	635.06	57.15	12.112		
9,600.00	7,215.61	7,179.75	7,178.07	43.53	15.46	84.59	-1,237.25	123.18	776.84	718.06	58.78	13.216		
9,700.00	7,213.48	7,174.58	7,172.91	45.26	15.45	83.84	-1,237.43	123.16	864.72	804.31	60.42	14.313		
9,800.00	7,211.35	7,169.57	7,167.91	47.01	15.44	83.11	-1,237.61	123.13	954.96	892.90	62.06	15.388		
9,900.00	7,209.22	7,164.72	7,163.06	48.77	15.43	82.41	-1,237.78	123.10	1,046.95	983.24	63.71	16.434		
10,000.00	7,207.10	7,160.00	7,158.34	50.54	15.41	81.73	-1,237.94	123.08	1,140.27	1,074.91	65.36	17.446		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-TERRY 8-26 offset - HSR-TERRY 8-26 - HSR-TERRY 8-26												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,100.00	7,204.97	7,155.42	7,153.77	52.32	15.40	81.07	-1,238.09	123.06	1,234.61	1,167.59	67.01	18.423	
10,200.00	7,202.84	7,150.97	7,149.32	54.11	15.39	80.44	-1,238.23	123.03	1,329.76	1,261.08	68.67	19.364	
10,300.00	7,200.71	7,146.65	7,145.00	55.91	15.38	79.82	-1,238.37	123.01	1,425.55	1,355.22	70.33	20.269	
10,400.00	7,198.59	7,142.44	7,140.79	57.72	15.37	79.22	-1,238.50	122.99	1,521.88	1,449.89	71.99	21.140	
10,500.00	7,196.46	7,138.35	7,136.71	59.53	15.36	78.64	-1,238.62	122.97	1,618.63	1,544.98	73.65	21.977	
10,600.00	7,194.33	7,134.37	7,132.73	61.34	15.35	78.08	-1,238.74	122.96	1,715.75	1,640.44	75.31	22.782	
10,700.00	7,192.20	7,130.50	7,128.86	63.17	15.34	77.54	-1,238.85	122.94	1,813.17	1,736.20	76.97	23.557	
10,800.00	7,190.07	7,126.73	7,125.09	64.99	15.33	77.01	-1,238.95	122.92	1,910.85	1,832.22	78.63	24.302	
10,900.00	7,187.95	7,123.05	7,121.41	66.83	15.32	76.50	-1,239.05	122.91	2,008.74	1,928.45	80.29	25.019	
11,000.00	7,185.82	7,119.47	7,117.83	68.66	15.31	76.00	-1,239.15	122.89	2,106.83	2,024.88	81.95	25.710	
11,100.00	7,183.69	7,115.98	7,114.35	70.50	15.30	75.52	-1,239.24	122.88	2,205.08	2,121.47	83.60	26.376	
11,200.00	7,181.56	7,100.00	7,098.37	72.35	15.26	73.34	-1,239.63	122.82	2,303.52	2,219.16	84.36	27.307	
11,300.00	7,179.44	7,100.00	7,098.37	74.19	15.26	73.34	-1,239.63	122.82	2,402.01	2,315.78	86.23	27.855	
11,400.00	7,177.31	7,100.00	7,098.37	76.04	15.26	73.34	-1,239.63	122.82	2,500.63	2,412.52	88.11	28.381	
11,500.00	7,175.18	7,100.00	7,098.37	77.90	15.26	73.34	-1,239.63	122.82	2,599.35	2,509.36	89.99	28.884	
11,600.00	7,173.05	7,099.67	7,098.04	79.75	15.26	73.30	-1,239.64	122.82	2,698.17	2,606.32	91.85	29.376	
11,700.00	7,170.92	7,095.19	7,093.56	81.61	15.25	72.70	-1,239.74	122.80	2,797.06	2,703.69	93.38	29.955	
11,800.00	7,168.80	7,090.71	7,089.08	83.47	15.24	72.10	-1,239.84	122.79	2,896.03	2,801.14	94.89	30.520	
11,837.41	7,168.00	7,089.04	7,087.41	84.17	15.24	71.88	-1,239.88	122.78	2,933.07	2,837.62	95.45	30.728	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-THOMPSON 2-26 offset - HSR-THOMPSON 2-26 - HSR-THOMPSON 2-2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-97.96	-141.33	-1,010.33	1,020.47					
100.00	100.00	110.30	110.27	0.08	0.14	-97.87	-139.58	-1,009.97	1,020.18	1,019.95	0.22	4,563.087		
200.00	200.00	210.23	210.15	0.31	0.37	-97.90	-139.58	-1,006.48	1,016.72	1,016.04	0.68	1,496.927		
300.00	300.00	310.17	310.03	0.53	0.61	-97.92	-139.58	-1,002.99	1,013.26	1,012.13	1.13	892.865		
400.00	400.00	410.11	409.90	0.76	0.84	-97.95	-139.58	-999.50	1,009.81	1,008.22	1.59	634.901		
500.00	500.00	510.05	509.78	0.98	1.08	-97.98	-139.58	-996.02	1,006.35	1,004.30	2.05	491.827		
600.00	600.00	609.99	609.66	1.21	1.31	-98.01	-139.58	-992.53	1,002.89	1,000.39	2.50	400.867		
700.00	700.00	709.93	709.54	1.43	1.54	-98.03	-139.58	-989.04	999.44	996.48	2.96	337.935		
800.00	800.00	809.87	809.42	1.66	1.78	-98.06	-139.58	-985.55	995.98	992.57	3.41	291.807		
900.00	900.00	909.81	909.29	1.88	2.01	-98.09	-139.58	-982.07	992.53	988.66	3.87	256.543		
1,000.00	1,000.00	1,009.75	1,009.17	2.11	2.25	-98.12	-139.58	-978.58	989.07	984.75	4.32	228.711		
1,100.00	1,100.00	1,109.69	1,109.05	2.33	2.48	-98.15	-139.58	-975.09	985.62	980.84	4.78	206.186		
1,200.00	1,200.00	1,209.63	1,208.93	2.56	2.71	-98.18	-139.58	-971.60	982.16	976.93	5.24	187.580		
1,300.00	1,300.00	1,309.56	1,308.81	2.78	2.95	-98.20	-139.58	-968.11	978.71	973.02	5.69	171.954		
1,400.00	1,399.98	1,409.52	1,408.70	3.00	3.18	-134.74	-139.58	-964.63	976.48	970.39	6.09	160.337		
1,440.36	1,440.31	1,449.86	1,449.01	3.09	3.28	-134.83	-139.58	-963.22	976.28	970.01	6.27	155.747	CC, ES	
1,500.00	1,499.84	1,509.42	1,508.55	3.23	3.41	-134.99	-139.58	-961.14	976.72	970.19	6.53	149.544		
1,600.00	1,599.45	1,609.16	1,608.22	3.45	3.65	-135.34	-139.58	-957.66	979.46	972.49	6.97	140.546		
1,700.00	1,698.70	1,708.60	1,707.60	3.69	3.88	-135.79	-139.58	-954.19	984.75	977.34	7.41	132.928		
1,800.00	1,797.61	1,807.76	1,806.70	3.95	4.11	-136.39	-139.58	-950.73	991.95	984.08	7.87	126.100		
1,900.00	1,896.51	1,906.90	1,905.78	4.22	4.34	-137.01	-139.58	-947.27	999.36	991.02	8.34	119.886		
2,000.00	1,995.40	2,006.04	2,004.86	4.51	4.58	-137.62	-139.58	-943.81	1,006.88	998.07	8.81	114.271		
2,100.00	2,094.30	2,105.18	2,103.94	4.80	4.81	-138.22	-139.58	-940.35	1,014.52	1,005.23	9.29	109.191		
2,200.00	2,193.19	2,204.32	2,203.02	5.10	5.04	-138.81	-139.58	-936.89	1,022.26	1,012.49	9.77	104.584		
2,300.00	2,292.09	2,303.47	2,302.10	5.41	5.27	-139.39	-139.58	-933.43	1,030.12	1,019.86	10.26	100.396		
2,400.00	2,390.98	2,402.61	2,401.19	5.72	5.50	-139.96	-139.58	-929.97	1,038.08	1,027.33	10.75	96.579		
2,500.00	2,489.88	2,501.75	2,500.27	6.04	5.74	-140.53	-139.58	-926.51	1,046.14	1,034.90	11.24	93.091		
2,600.00	2,588.77	2,600.89	2,599.35	6.36	5.97	-141.08	-139.58	-923.05	1,054.30	1,042.57	11.73	89.895		
2,700.00	2,687.67	2,700.03	2,698.43	6.68	6.20	-141.63	-139.58	-919.59	1,062.56	1,050.34	12.22	86.959		
2,800.00	2,786.56	2,799.18	2,797.51	7.01	6.43	-142.17	-139.58	-916.13	1,070.92	1,058.21	12.71	84.254		
2,900.00	2,885.46	2,898.32	2,896.59	7.34	6.66	-142.70	-139.58	-912.67	1,079.37	1,066.17	13.20	81.758		
3,000.00	2,984.36	2,997.46	2,995.67	7.67	6.90	-143.22	-139.58	-909.21	1,087.91	1,074.22	13.69	79.447		
3,100.00	3,083.25	3,096.60	3,094.76	8.00	7.13	-143.74	-139.58	-905.75	1,096.54	1,082.36	14.18	77.303		
3,200.00	3,182.15	3,195.74	3,193.84	8.34	7.36	-144.24	-139.58	-902.29	1,105.26	1,090.58	14.68	75.311		
3,300.00	3,281.04	3,294.89	3,292.92	8.67	7.59	-144.74	-139.59	-898.83	1,114.06	1,098.90	15.17	73.455		
3,400.00	3,379.94	3,394.03	3,392.00	9.01	7.82	-145.23	-139.59	-895.37	1,122.95	1,107.29	15.66	71.723		
3,500.00	3,478.83	3,493.17	3,491.08	9.35	8.06	-145.72	-139.59	-891.91	1,131.92	1,115.77	16.15	70.103		
3,600.00	3,577.73	3,592.31	3,590.16	9.69	8.29	-146.19	-139.59	-888.45	1,140.96	1,124.33	16.64	68.586		
3,700.00	3,676.62	3,691.45	3,689.24	10.03	8.52	-146.66	-139.59	-884.99	1,150.09	1,132.96	17.12	67.162		
3,800.00	3,775.52	3,790.59	3,788.33	10.37	8.75	-147.12	-139.59	-881.53	1,159.29	1,141.68	17.61	65.824		
3,900.00	3,874.41	3,889.74	3,887.41	10.72	8.98	-147.57	-139.59	-878.07	1,168.56	1,150.46	18.10	64.564		
4,000.00	3,973.31	3,988.88	3,986.49	11.06	9.22	-148.02	-139.59	-874.61	1,177.91	1,159.32	18.59	63.377		
4,100.00	4,072.20	4,088.02	4,085.57	11.40	9.45	-148.46	-139.59	-871.15	1,187.32	1,168.25	19.07	62.255		
4,200.00	4,171.10	4,187.16	4,184.65	11.75	9.68	-148.89	-139.59	-867.69	1,196.81	1,177.25	19.56	61.195		
4,300.00	4,269.99	4,286.30	4,283.73	12.09	9.91	-149.32	-139.59	-864.23	1,206.36	1,186.32	20.04	60.192		
4,400.00	4,368.89	4,385.45	4,382.81	12.44	10.14	-149.74	-139.59	-860.77	1,215.98	1,195.45	20.53	59.241		
4,500.00	4,467.78	4,484.59	4,481.90	12.78	10.38	-150.15	-139.59	-857.31	1,225.66	1,204.65	21.01	58.339		
4,600.00	4,566.68	4,583.73	4,580.98	13.13	10.61	-150.56	-139.59	-853.85	1,235.40	1,213.91	21.49	57.482		
4,700.00	4,665.57	4,682.87	4,680.06	13.48	10.84	-150.96	-139.59	-850.39	1,245.21	1,223.23	21.97	56.667		
4,800.00	4,764.47	4,782.01	4,779.14	13.82	11.07	-151.35	-139.59	-846.93	1,255.07	1,232.62	22.46	55.891		
4,900.00	4,863.36	4,881.16	4,878.22	14.17	11.30	-151.74	-139.59	-843.47	1,264.99	1,242.06	22.94	55.152		
5,000.00	4,962.26	4,980.30	4,977.30	14.52	11.53	-152.12	-139.59	-840.01	1,274.97	1,251.56	23.42	54.446		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-THOMPSON 2-26 offset - HSR-THOMPSON 2-26 - HSR-THOMPSON 2-2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,079.44	5,076.39	14.87	11.77	-152.49	-139.59	-836.55	1,285.01	1,261.11	23.90	53.773		
5,200.00	5,160.05	5,178.58	5,175.47	15.21	12.00	-152.86	-139.59	-833.09	1,295.10	1,270.72	24.38	53.129		
5,300.00	5,258.94	5,277.72	5,274.55	15.56	12.23	-153.23	-139.59	-829.63	1,305.24	1,280.39	24.86	52.514		
5,400.00	5,357.84	5,376.86	5,373.63	15.91	12.46	-153.59	-139.59	-826.17	1,315.43	1,290.10	25.33	51.925		
5,500.00	5,456.73	5,476.01	5,472.71	16.26	12.69	-153.94	-139.59	-822.71	1,325.68	1,299.87	25.81	51.360		
5,600.00	5,555.63	5,575.15	5,571.79	16.61	12.93	-154.29	-139.59	-819.25	1,335.97	1,309.68	26.29	50.819		
5,700.00	5,654.52	5,674.29	5,670.87	16.96	13.16	-154.63	-139.59	-815.79	1,346.31	1,319.55	26.77	50.300		
5,800.00	5,753.42	5,773.43	5,769.96	17.31	13.39	-154.97	-139.59	-812.33	1,356.70	1,329.46	27.24	49.802		
5,900.00	5,852.31	5,872.57	5,869.04	17.66	13.62	-155.30	-139.59	-808.87	1,367.14	1,339.42	27.72	49.323		
6,000.00	5,951.21	5,971.72	5,968.12	18.01	13.85	-155.63	-139.59	-805.41	1,377.62	1,349.42	28.19	48.862		
6,100.00	6,050.10	6,070.86	6,067.20	18.36	14.09	-155.95	-139.59	-801.95	1,388.14	1,359.47	28.67	48.419		
6,200.00	6,149.00	6,170.00	6,166.28	18.71	14.32	-156.27	-139.59	-798.49	1,398.71	1,369.57	29.14	47.993		
6,300.00	6,247.89	6,269.14	6,265.36	19.06	14.55	-156.58	-139.59	-795.03	1,409.32	1,379.70	29.62	47.582		
6,400.00	6,346.79	6,368.28	6,364.44	19.41	14.78	-156.89	-139.59	-791.57	1,419.97	1,389.88	30.09	47.186		
6,500.00	6,445.68	6,467.43	6,463.53	19.76	15.01	-157.19	-139.59	-788.11	1,430.66	1,400.09	30.57	46.804		
6,600.00	6,544.58	6,566.57	6,562.61	20.11	15.25	-157.49	-139.59	-784.65	1,441.39	1,410.35	31.04	46.435		
6,700.00	6,643.53	6,665.77	6,661.75	20.44	15.48	-171.05	-139.59	-781.18	1,451.87	1,420.34	31.53	46.041		
6,800.00	6,743.00	6,765.49	6,761.41	20.62	15.71	100.61	-139.59	-777.70	1,455.86	1,423.94	31.92	45.610		
6,900.00	6,840.75	6,863.48	6,859.34	20.64	15.94	78.04	-139.59	-774.28	1,450.91	1,418.81	32.09	45.210		
7,000.00	6,933.82	6,956.78	6,952.58	20.54	16.16	73.82	-139.59	-771.03	1,437.73	1,405.57	32.16	44.701		
7,100.00	7,019.36	7,042.54	7,038.29	20.31	16.36	74.41	-139.59	-768.04	1,417.71	1,385.42	32.29	43.902		
7,200.00	7,094.79	7,118.17	7,113.87	20.01	16.54	77.19	-139.59	-765.40	1,392.78	1,360.20	32.58	42.750		
7,300.00	7,157.81	7,181.35	7,177.01	19.66	16.68	81.02	-139.59	-763.19	1,365.32	1,332.33	32.98	41.395		
7,400.00	7,206.51	7,230.17	7,225.81	19.29	16.80	85.07	-139.59	-761.49	1,337.91	1,304.54	33.37	40.093		
7,500.00	7,239.40	7,263.16	7,258.77	18.94	16.88	88.65	-139.59	-760.34	1,313.07	1,279.42	33.65	39.018		
7,600.00	7,255.49	7,279.29	7,274.90	18.63	16.91	91.25	-139.59	-759.77	1,292.99	1,259.12	33.87	38.176		
7,700.00	7,256.04	7,279.84	7,275.45	18.39	16.92	92.12	-139.59	-759.75	1,279.22	1,245.10	34.12	37.488		
7,800.00	7,253.91	7,277.72	7,273.33	18.51	16.91	92.03	-139.59	-759.83	1,273.04	1,238.42	34.62	36.767		
7,828.89	7,253.29	7,277.10	7,272.71	18.67	16.91	92.00	-139.59	-759.85	1,272.72	1,237.83	34.89	36.483		
7,900.00	7,251.78	7,275.59	7,271.20	19.20	16.91	91.93	-139.59	-759.90	1,274.70	1,239.39	35.31	36.099		
8,000.00	7,249.65	7,273.47	7,269.08	20.08	16.90	91.84	-139.59	-759.98	1,284.16	1,247.99	36.17	35.508		
8,100.00	7,247.53	7,271.34	7,266.95	21.07	16.90	91.74	-139.59	-760.05	1,301.26	1,264.09	37.17	35.009		
8,200.00	7,245.40	7,269.21	7,264.82	22.17	16.89	91.65	-139.59	-760.12	1,325.69	1,287.39	38.30	34.611		
8,300.00	7,243.27	7,267.09	7,262.70	23.36	16.89	91.55	-139.59	-760.20	1,357.07	1,317.52	39.55	34.314		
8,400.00	7,241.14	7,264.96	7,260.57	24.64	16.88	91.45	-139.59	-760.27	1,394.93	1,354.04	40.89	34.114		
8,500.00	7,239.01	7,262.83	7,258.45	25.98	16.88	91.36	-139.59	-760.35	1,438.74	1,396.43	42.31	34.002		
8,600.00	7,236.89	7,260.71	7,256.32	27.39	16.87	91.26	-139.59	-760.42	1,488.00	1,444.19	43.81	33.968 SF		
8,700.00	7,234.76	7,258.58	7,254.20	28.85	16.87	91.17	-139.59	-760.50	1,542.17	1,496.81	45.36	34.001		
8,800.00	7,232.63	7,256.45	7,252.07	30.36	16.86	91.07	-139.59	-760.57	1,600.76	1,553.80	46.96	34.089		
8,900.00	7,230.50	7,254.33	7,249.95	31.91	16.86	90.98	-139.59	-760.64	1,663.30	1,614.70	48.60	34.223		
9,000.00	7,228.38	7,252.20	7,247.82	33.49	16.85	90.88	-139.59	-760.72	1,729.36	1,679.08	50.28	34.393		
9,100.00	7,226.25	7,250.08	7,245.70	35.11	16.85	90.78	-139.59	-760.79	1,798.55	1,746.56	51.99	34.591		
9,200.00	7,224.12	7,247.95	7,243.57	36.75	16.84	90.69	-139.59	-760.87	1,870.53	1,816.80	53.73	34.811		
9,300.00	7,221.99	7,245.82	7,241.45	38.41	16.84	90.59	-139.59	-760.94	1,944.99	1,889.49	55.50	35.047		
9,400.00	7,219.86	7,243.70	7,239.32	40.10	16.83	90.50	-139.59	-761.02	2,021.65	1,964.37	57.28	35.294		
9,500.00	7,217.74	7,241.57	7,237.20	41.80	16.83	90.40	-139.59	-761.09	2,100.27	2,041.19	59.08	35.548		
9,600.00	7,215.61	7,239.44	7,235.07	43.53	16.82	90.31	-139.59	-761.16	2,180.64	2,119.74	60.90	35.807		
9,700.00	7,213.48	7,237.32	7,232.95	45.26	16.82	90.21	-139.59	-761.24	2,262.58	2,199.85	62.73	36.067		
9,800.00	7,211.35	7,235.19	7,230.82	47.01	16.81	90.11	-139.59	-761.31	2,345.91	2,281.34	64.58	36.328		
9,900.00	7,209.22	7,233.06	7,228.70	48.77	16.81	90.02	-139.59	-761.39	2,430.50	2,364.07	66.43	36.587		
10,000.00	7,207.10	7,230.94	7,226.57	50.54	16.80	89.92	-139.59	-761.46	2,516.22	2,447.93	68.30	36.843		
10,100.00	7,204.97	7,228.81	7,224.45	52.32	16.80	89.83	-139.59	-761.53	2,602.96	2,532.79	70.17	37.095		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - HSR-THOMPSON 2-26 offset - HSR-THOMPSON 2-26 - HSR-THOMPSON 2-2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		
10,200.00	7,202.84	7,226.69	7,222.32	54.11	16.79	89.73	-139.59	-761.61	2,690.62	2,618.57	72.05	37.343	
10,300.00	7,200.71	7,224.56	7,220.20	55.91	16.79	89.64	-139.59	-761.68	2,779.10	2,705.16	73.94	37.586	
10,400.00	7,198.59	7,222.43	7,218.07	57.72	16.78	89.54	-139.59	-761.76	2,868.35	2,792.51	75.83	37.824	
10,500.00	7,196.46	7,220.31	7,215.95	59.53	16.78	89.45	-139.59	-761.83	2,958.28	2,880.54	77.73	38.056	
10,600.00	7,194.33	7,218.18	7,213.82	61.34	16.77	89.35	-139.59	-761.91	3,048.83	2,969.19	79.64	38.282	
10,700.00	7,192.20	7,216.05	7,211.70	63.17	16.77	89.25	-139.59	-761.98	3,139.96	3,058.41	81.55	38.503	
10,800.00	7,190.07	7,213.93	7,209.57	64.99	16.76	89.16	-139.59	-762.05	3,231.61	3,148.14	83.47	38.718	
10,900.00	7,187.95	7,211.80	7,207.45	66.83	16.76	89.06	-139.59	-762.13	3,323.74	3,238.35	85.38	38.927	
11,000.00	7,185.82	7,209.67	7,205.32	68.66	16.75	88.97	-139.59	-762.20	3,416.31	3,329.00	87.31	39.130	
11,100.00	7,183.69	7,207.55	7,203.20	70.50	16.75	88.87	-139.59	-762.28	3,509.29	3,420.06	89.23	39.328	
11,200.00	7,181.56	7,205.42	7,201.07	72.35	16.74	88.78	-139.59	-762.35	3,602.64	3,511.48	91.16	39.520	
11,300.00	7,179.44	7,203.29	7,198.95	74.19	16.74	88.68	-139.59	-762.43	3,696.34	3,603.25	93.09	39.707	
11,400.00	7,177.31	7,201.17	7,196.82	76.04	16.73	88.59	-139.59	-762.50	3,790.36	3,695.34	95.02	39.888	
11,500.00	7,175.18	7,199.04	7,194.70	77.90	16.73	88.49	-139.59	-762.57	3,884.68	3,787.72	96.96	40.065	
11,600.00	7,173.05	7,196.92	7,192.57	79.75	16.72	88.40	-139.59	-762.65	3,979.27	3,880.38	98.90	40.236	
11,700.00	7,170.92	7,194.79	7,190.45	81.61	16.72	88.30	-139.59	-762.72	4,074.13	3,973.29	100.84	40.403	
11,800.00	7,168.80	7,192.66	7,188.32	83.47	16.71	88.21	-139.59	-762.80	4,169.22	4,066.44	102.78	40.565	
11,837.41	7,168.00	7,191.87	7,187.53	84.17	16.71	88.17	-139.59	-762.82	4,204.85	4,101.35	103.50	40.625	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - J V SHIELDS GAS 1 offset - J V SHIELDS GAS 1 - J V SHIELDS GAS 1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-136.91	-3,627.32	-3,393.47	4,967.55					
100.00	100.00	167.60	167.54	0.08	0.27	-136.88	-3,623.22	-3,393.47	4,965.82	4,965.47	0.35	N/A		
200.00	200.00	267.54	267.42	0.31	0.50	-136.85	-3,619.73	-3,393.47	4,963.27	4,962.47	0.80	6,193.214		
300.00	300.00	367.48	367.30	0.53	0.74	-136.82	-3,616.24	-3,393.47	4,960.72	4,959.47	1.25	3,960.651		
400.00	400.00	467.42	467.18	0.76	0.97	-136.79	-3,612.75	-3,393.46	4,958.18	4,956.47	1.70	2,910.252		
500.00	500.00	567.36	567.05	0.98	1.20	-136.77	-3,609.27	-3,393.46	4,955.63	4,953.48	2.15	2,299.620		
600.00	600.00	667.30	666.93	1.21	1.43	-136.74	-3,605.78	-3,393.46	4,953.09	4,950.48	2.61	1,900.386		
700.00	700.00	767.24	766.81	1.43	1.66	-136.71	-3,602.29	-3,393.46	4,950.55	4,947.49	3.06	1,618.972		
800.00	800.00	867.18	866.69	1.66	1.89	-136.68	-3,598.80	-3,393.46	4,948.01	4,944.50	3.51	1,409.928		
900.00	900.00	967.12	966.57	1.88	2.13	-136.65	-3,595.31	-3,393.46	4,945.47	4,941.51	3.96	1,248.519		
1,000.00	1,000.00	1,067.06	1,066.45	2.11	2.36	-136.63	-3,591.83	-3,393.46	4,942.93	4,938.52	4.41	1,120.128		
1,100.00	1,100.00	1,166.99	1,166.32	2.33	2.59	-136.60	-3,588.34	-3,393.46	4,940.39	4,935.53	4.86	1,015.565		
1,200.00	1,200.00	1,266.93	1,266.20	2.56	2.82	-136.57	-3,584.85	-3,393.46	4,937.85	4,932.54	5.32	928.758		
1,300.00	1,300.00	1,366.87	1,366.08	2.78	3.05	-136.54	-3,581.36	-3,393.46	4,935.32	4,929.55	5.77	855.540		
1,373.14	1,373.14	1,439.99	1,439.15	2.94	3.22	-172.93	-3,578.81	-3,393.46	4,934.39	4,928.26	6.13	804.791		
1,400.00	1,399.98	1,466.84	1,465.99	3.00	3.28	-172.92	-3,577.87	-3,393.46	4,934.52	4,928.27	6.25	789.402		
1,500.00	1,499.84	1,566.78	1,565.87	3.23	3.52	-172.90	-3,574.39	-3,393.46	4,937.18	4,930.49	6.69	738.204		
1,600.00	1,599.45	1,666.58	1,665.61	3.45	3.75	-172.87	-3,570.90	-3,393.46	4,943.30	4,936.18	7.12	694.337		
1,700.00	1,698.70	1,766.11	1,765.08	3.69	3.98	-172.83	-3,567.43	-3,393.46	4,952.88	4,945.33	7.54	656.504		
1,800.00	1,797.61	1,865.38	1,864.28	3.95	4.21	-172.82	-3,563.97	-3,393.46	4,964.96	4,956.97	7.99	621.578		
1,900.00	1,896.51	1,964.63	1,963.47	4.22	4.44	-172.81	-3,560.50	-3,393.46	4,977.16	4,968.72	8.44	589.587		
2,000.00	1,995.40	2,063.88	2,062.67	4.51	4.67	-172.81	-3,557.04	-3,393.46	4,989.37	4,980.47	8.90	560.713		
2,100.00	2,094.30	2,163.13	2,161.86	4.80	4.90	-172.80	-3,553.57	-3,393.46	5,001.57	4,992.21	9.36	534.543		
2,200.00	2,193.19	2,262.38	2,261.05	5.10	5.13	-172.79	-3,550.11	-3,393.46	5,013.77	5,003.95	9.82	510.728		
2,300.00	2,292.09	2,361.64	2,360.24	5.41	5.36	-172.79	-3,546.65	-3,393.46	5,025.97	5,015.69	10.28	488.975		
2,400.00	2,390.98	2,460.89	2,459.43	5.72	5.59	-172.78	-3,543.18	-3,393.46	5,038.17	5,027.43	10.74	469.037		
2,500.00	2,489.88	2,560.14	2,558.62	6.04	5.82	-172.77	-3,539.72	-3,393.45	5,050.38	5,039.17	11.21	450.702		
2,600.00	2,588.77	2,659.39	2,657.81	6.36	6.05	-172.77	-3,536.25	-3,393.45	5,062.58	5,050.91	11.67	433.789		
2,700.00	2,687.67	2,758.64	2,757.00	6.68	6.28	-172.76	-3,532.79	-3,393.45	5,074.78	5,062.65	12.14	418.142		
2,800.00	2,786.56	2,857.89	2,856.19	7.01	6.51	-172.76	-3,529.33	-3,393.45	5,086.98	5,074.38	12.60	403.628		
2,900.00	2,885.46	2,957.14	2,955.38	7.34	6.74	-172.75	-3,525.86	-3,393.45	5,099.19	5,086.12	13.07	390.130		
3,000.00	2,984.36	3,056.40	3,054.57	7.67	6.97	-172.74	-3,522.40	-3,393.45	5,111.39	5,097.85	13.54	377.547		
3,100.00	3,083.25	3,155.65	3,153.76	8.00	7.20	-172.74	-3,518.94	-3,393.45	5,123.59	5,109.59	14.01	365.791		
3,200.00	3,182.15	3,254.90	3,252.96	8.34	7.43	-172.73	-3,515.47	-3,393.45	5,135.79	5,121.32	14.48	354.783		
3,300.00	3,281.04	3,354.15	3,352.15	8.67	7.66	-172.73	-3,512.01	-3,393.45	5,148.00	5,133.05	14.95	344.457		
3,400.00	3,379.94	3,453.40	3,451.34	9.01	7.89	-172.72	-3,508.54	-3,393.45	5,160.20	5,144.79	15.42	334.751		
3,500.00	3,478.83	3,552.65	3,550.53	9.35	8.12	-172.71	-3,505.08	-3,393.45	5,172.40	5,156.52	15.89	325.611		
3,600.00	3,577.73	3,651.90	3,649.72	9.69	8.35	-172.71	-3,501.62	-3,393.45	5,184.61	5,168.25	16.36	316.991		
3,700.00	3,676.62	3,751.15	3,748.91	10.03	8.58	-172.70	-3,498.15	-3,393.45	5,196.81	5,179.98	16.83	308.847		
3,800.00	3,775.52	3,850.41	3,848.10	10.37	8.81	-172.70	-3,494.69	-3,393.45	5,209.01	5,191.71	17.30	301.141		
3,900.00	3,874.41	3,949.66	3,947.29	10.72	9.04	-172.69	-3,491.23	-3,393.45	5,221.21	5,203.45	17.77	293.840		
4,000.00	3,973.31	4,048.91	4,046.48	11.06	9.27	-172.69	-3,487.76	-3,393.45	5,233.42	5,215.18	18.24	286.913		
4,100.00	4,072.20	4,148.16	4,145.67	11.40	9.50	-172.68	-3,484.30	-3,393.45	5,245.62	5,226.91	18.71	280.331		
4,200.00	4,171.10	4,247.41	4,244.86	11.75	9.73	-172.67	-3,480.83	-3,393.45	5,257.82	5,238.64	19.18	274.070		
4,300.00	4,269.99	4,346.66	4,344.05	12.09	9.96	-172.67	-3,477.37	-3,393.45	5,270.03	5,250.37	19.66	268.108		
4,400.00	4,368.89	4,445.91	4,443.25	12.44	10.19	-172.66	-3,473.91	-3,393.45	5,282.23	5,262.10	20.13	262.423		
4,500.00	4,467.78	4,545.16	4,542.44	12.78	10.42	-172.66	-3,470.44	-3,393.45	5,294.43	5,273.83	20.60	256.996		
4,600.00	4,566.68	4,644.42	4,641.63	13.13	10.65	-172.65	-3,466.98	-3,393.44	5,306.64	5,285.56	21.07	251.811		
4,700.00	4,665.57	4,743.67	4,740.82	13.48	10.88	-172.65	-3,463.51	-3,393.44	5,318.84	5,297.29	21.55	246.852		
4,800.00	4,764.47	4,842.92	4,840.01	13.82	11.11	-172.64	-3,460.05	-3,393.44	5,331.04	5,309.03	22.02	242.105		
4,900.00	4,863.36	4,942.17	4,939.20	14.17	11.34	-172.64	-3,456.59	-3,393.44	5,343.25	5,320.76	22.49	237.556		
5,000.00	4,962.26	5,041.42	5,038.39	14.52	11.57	-172.63	-3,453.12	-3,393.44	5,355.45	5,332.49	22.97	233.193		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,140.67	5,137.58	14.87	11.80	-172.62	-3,449.66	-3,393.44	5,367.66	5,344.22	23.44	229.005		
5,200.00	5,160.05	5,239.92	5,236.77	15.21	12.03	-172.62	-3,446.20	-3,393.44	5,379.86	5,355.95	23.91	224.982		
5,300.00	5,258.94	5,339.17	5,335.96	15.56	12.26	-172.61	-3,442.73	-3,393.44	5,392.06	5,367.68	24.39	221.114		
5,400.00	5,357.84	5,438.43	5,435.15	15.91	12.49	-172.61	-3,439.27	-3,393.44	5,404.27	5,379.41	24.86	217.393		
5,500.00	5,456.73	5,537.68	5,534.34	16.26	12.72	-172.60	-3,435.80	-3,393.44	5,416.47	5,391.14	25.33	213.810		
5,600.00	5,555.63	5,636.93	5,633.53	16.61	12.95	-172.60	-3,432.34	-3,393.44	5,428.67	5,402.87	25.81	210.358		
5,700.00	5,654.52	5,736.18	5,732.73	16.96	13.18	-172.59	-3,428.88	-3,393.44	5,440.88	5,414.60	26.28	207.030		
5,800.00	5,753.42	5,835.43	5,831.92	17.31	13.41	-172.59	-3,425.41	-3,393.44	5,453.08	5,426.33	26.75	203.820		
5,900.00	5,852.31	5,934.68	5,931.11	17.66	13.64	-172.58	-3,421.95	-3,393.44	5,465.29	5,438.06	27.23	200.720		
6,000.00	5,951.21	6,033.93	6,030.30	18.01	13.87	-172.58	-3,418.48	-3,393.44	5,477.49	5,449.79	27.70	197.726		
6,100.00	6,050.10	6,133.18	6,129.49	18.36	14.10	-172.57	-3,415.02	-3,393.44	5,489.69	5,461.52	28.18	194.832		
6,200.00	6,149.00	6,232.44	6,228.68	18.71	14.33	-172.57	-3,411.56	-3,393.44	5,501.90	5,473.25	28.65	192.034		
6,300.00	6,247.89	6,331.69	6,327.87	19.06	14.56	-172.56	-3,408.09	-3,393.44	5,514.10	5,484.98	29.12	189.327		
6,400.00	6,346.79	6,430.94	6,427.06	19.41	14.79	-172.56	-3,404.63	-3,393.44	5,526.31	5,496.71	29.60	186.705		
6,500.00	6,445.68	6,530.19	6,526.25	19.76	15.02	-172.55	-3,401.17	-3,393.44	5,538.51	5,508.44	30.07	184.167		
6,600.00	6,544.58	6,629.44	6,625.44	20.11	15.25	-172.55	-3,397.70	-3,393.44	5,550.72	5,520.17	30.55	181.706		
6,700.00	6,643.53	6,728.73	6,724.67	20.44	15.48	174.20	-3,394.24	-3,393.43	5,562.52	5,531.46	31.07	179.057		
6,800.00	6,743.00	6,828.10	6,823.98	20.62	15.71	85.95	-3,390.77	-3,393.43	5,565.31	5,533.91	31.39	177.275		
6,900.00	6,840.75	6,925.15	6,920.97	20.64	15.94	63.14	-3,387.38	-3,393.43	5,565.62	5,524.34	31.28	177.587		
7,000.00	6,933.82	7,016.92	7,012.69	20.54	16.15	58.44	-3,384.18	-3,393.43	5,533.90	5,503.01	30.89	179.130		
7,100.00	7,019.36	7,100.64	7,096.35	20.31	16.35	58.54	-3,381.26	-3,393.43	5,500.99	5,470.48	30.50	180.332		
7,200.00	7,094.79	7,173.75	7,169.42	20.01	16.52	61.18	-3,378.71	-3,393.43	5,458.12	5,427.66	30.46	179.180		
7,300.00	7,157.81	7,234.03	7,229.66	19.66	16.66	65.77	-3,376.60	-3,393.43	5,406.86	5,375.85	31.01	174.357		
7,400.00	7,206.51	7,279.66	7,275.27	19.29	16.76	72.01	-3,375.01	-3,393.43	5,349.00	5,316.89	32.11	166.605		
7,500.00	7,239.40	7,309.24	7,304.83	18.94	16.83	79.59	-3,373.98	-3,393.43	5,286.50	5,253.14	33.36	158.473		
7,600.00	7,255.49	7,321.89	7,317.47	18.63	16.86	88.02	-3,373.54	-3,393.43	5,221.42	5,187.16	34.26	152.402		
7,700.00	7,256.04	7,318.94	7,314.52	18.39	16.85	92.77	-3,373.64	-3,393.43	5,155.82	5,121.20	34.62	148.940		
7,800.00	7,253.91	7,313.33	7,308.91	18.51	16.84	92.69	-3,373.83	-3,393.43	5,091.20	5,056.17	35.02	145.360		
7,900.00	7,251.78	7,307.71	7,303.30	19.20	16.83	92.61	-3,374.03	-3,393.43	5,027.73	4,992.11	35.62	141.159		
8,000.00	7,249.65	7,302.09	7,297.69	20.08	16.81	92.52	-3,374.23	-3,393.43	4,965.46	4,929.08	36.38	136.482		
8,100.00	7,247.53	7,296.48	7,292.07	21.07	16.80	92.44	-3,374.42	-3,393.43	4,904.43	4,867.05	37.38	131.204		
8,200.00	7,245.40	7,290.86	7,286.46	22.17	16.79	92.36	-3,374.62	-3,393.43	4,844.69	4,806.18	38.51	125.809		
8,300.00	7,243.27	7,285.25	7,280.85	23.36	16.77	92.28	-3,374.81	-3,393.43	4,786.29	4,746.54	39.75	120.416		
8,400.00	7,241.14	7,279.63	7,275.24	24.64	16.76	92.20	-3,375.01	-3,393.43	4,729.28	4,688.19	41.08	115.113		
8,500.00	7,239.01	7,274.02	7,269.63	25.98	16.75	92.11	-3,375.21	-3,393.43	4,673.70	4,631.20	42.50	109.968		
8,600.00	7,236.89	7,268.40	7,264.01	27.39	16.73	92.03	-3,375.40	-3,393.43	4,619.61	4,575.62	43.99	105.024		
8,700.00	7,234.76	7,262.79	7,258.40	28.85	16.72	91.95	-3,375.60	-3,393.43	4,567.07	4,521.53	45.53	100.306		
8,800.00	7,232.63	7,257.17	7,252.79	30.36	16.71	91.87	-3,375.79	-3,393.43	4,516.12	4,468.99	47.13	95.831		
8,900.00	7,230.50	7,251.55	7,247.18	31.91	16.70	91.79	-3,375.99	-3,393.43	4,466.82	4,418.05	48.76	91.601		
9,000.00	7,228.38	7,245.94	7,241.56	33.49	16.68	91.70	-3,376.19	-3,393.43	4,419.23	4,368.79	50.44	87.617		
9,100.00	7,226.25	7,240.32	7,235.95	35.11	16.67	91.62	-3,376.38	-3,393.43	4,373.40	4,321.25	52.14	83.872		
9,200.00	7,224.12	7,234.71	7,230.34	36.75	16.66	91.54	-3,376.58	-3,393.43	4,329.38	4,275.51	53.88	80.356		
9,300.00	7,221.99	7,229.09	7,224.73	38.41	16.64	91.46	-3,376.77	-3,393.43	4,287.24	4,231.61	55.63	77.061		
9,400.00	7,219.86	7,223.48	7,219.12	40.10	16.63	91.37	-3,376.97	-3,393.43	4,247.03	4,189.62	57.41	73.975		
9,500.00	7,217.74	7,217.86	7,213.50	41.80	16.62	91.29	-3,377.17	-3,393.43	4,208.81	4,149.60	59.21	71.086		
9,600.00	7,215.61	7,212.24	7,207.89	43.53	16.60	91.21	-3,377.36	-3,393.43	4,172.62	4,111.60	61.02	68.382		
9,700.00	7,213.48	7,206.63	7,202.28	45.26	16.59	91.13	-3,377.56	-3,393.43	4,138.53	4,075.69	62.85	65.853		
9,800.00	7,211.35	7,201.01	7,196.67	47.01	16.58	91.05	-3,377.75	-3,393.43	4,106.58	4,041.90	64.68	63.487		
9,900.00	7,209.22	7,195.40	7,191.05	48.77	16.57	90.96	-3,377.95	-3,393.43	4,076.83	4,010.30	66.53	61.275		
10,000.00	7,207.10	7,189.78	7,185.44	50.54	16.55	90.88	-3,378.15	-3,393.43	4,049.32	3,980.93	68.39	59.207		
10,100.00	7,204.97	7,184.17	7,179.83	52.32	16.54	90.80	-3,378.34	-3,393.43	4,024.10	3,953.84	70.26	57.274		
10,200.00	7,202.84	7,178.55	7,174.22	54.11	16.53	90.72	-3,378.54	-3,393.43	4,001.22	3,929.08	72.14	55.467		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - J V SHIELDS GAS 1 offset - J V SHIELDS GAS 1 - J V SHIELDS GAS 1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
10,300.00	7,200.71	7,172.93	7,168.61	55.91	16.51	90.63	-3,378.73	-3,393.43	3,980.71	3,906.69	74.02	53.779	
10,400.00	7,198.59	7,167.32	7,162.99	57.72	16.50	90.55	-3,378.93	-3,393.43	3,962.60	3,886.69	75.91	52.202	
10,500.00	7,196.46	7,161.70	7,157.38	59.53	16.49	90.47	-3,379.13	-3,393.43	3,946.95	3,869.14	77.80	50.729	
10,600.00	7,194.33	7,156.09	7,151.77	61.34	16.47	90.39	-3,379.32	-3,393.43	3,933.76	3,854.05	79.71	49.354	
10,700.00	7,192.20	7,150.47	7,146.16	63.17	16.46	90.31	-3,379.52	-3,393.43	3,923.07	3,841.46	81.61	48.070	
10,800.00	7,190.07	7,144.86	7,140.54	64.99	16.45	90.22	-3,379.71	-3,393.43	3,914.90	3,831.38	83.52	46.873	
10,900.00	7,187.95	7,139.24	7,134.93	66.83	16.44	90.14	-3,379.91	-3,393.43	3,909.26	3,823.83	85.44	45.757	
11,000.00	7,185.82	7,133.62	7,129.32	68.66	16.42	90.06	-3,380.11	-3,393.43	3,906.17	3,818.82	87.35	44.717	
11,071.23	7,184.30	7,129.62	7,125.32	69.97	16.41	90.00	-3,380.25	-3,393.43	3,905.52	3,816.78	88.75	44.007 CC	
11,100.00	7,183.69	7,128.01	7,123.71	70.50	16.41	89.98	-3,380.30	-3,393.43	3,905.63	3,816.35	89.27	43.749 ES	
11,200.00	7,181.56	7,122.39	7,118.09	72.35	16.40	89.89	-3,380.50	-3,393.43	3,907.64	3,816.44	91.20	42.848	
11,300.00	7,179.44	7,116.78	7,112.48	74.19	16.38	89.81	-3,380.69	-3,393.43	3,912.20	3,819.07	93.13	42.010	
11,400.00	7,177.31	7,111.16	7,106.87	76.04	16.37	89.73	-3,380.89	-3,393.43	3,919.29	3,824.24	95.05	41.232	
11,500.00	7,175.18	7,105.55	7,101.26	77.90	16.36	89.65	-3,381.09	-3,393.43	3,928.92	3,831.93	96.99	40.510	
11,600.00	7,173.05	7,099.93	7,095.65	79.75	16.34	89.57	-3,381.28	-3,393.43	3,941.04	3,842.12	98.92	39.840	
11,700.00	7,170.92	7,094.31	7,090.03	81.61	16.33	89.48	-3,381.48	-3,393.43	3,955.66	3,854.80	100.86	39.220	
11,800.00	7,168.80	7,088.70	7,084.42	83.47	16.32	89.40	-3,381.67	-3,393.43	3,972.72	3,869.93	102.79	38.647	
11,837.41	7,168.00	7,086.60	7,082.32	84.17	16.31	89.37	-3,381.75	-3,393.43	3,979.74	3,876.22	103.52	38.444 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-165.89	-3,043.59	-764.89	3,138.37					
100.00	100.00	63.25	63.24	0.08	0.08	-165.90	-3,043.75	-764.59	3,138.32	3,138.15	0.17	N/A		
200.00	200.00	155.46	155.44	0.31	0.28	-165.92	-3,044.43	-763.37	3,138.71	3,138.12	0.59	5,329.951		
300.00	300.00	254.68	254.66	0.53	0.54	-165.95	-3,045.24	-762.36	3,139.26	3,138.18	1.07	2,921.105		
400.00	400.00	359.06	359.03	0.76	0.81	-165.96	-3,045.86	-761.83	3,139.71	3,138.14	1.57	1,998.025		
500.00	500.00	455.24	455.21	0.98	1.06	-165.96	-3,046.30	-761.60	3,140.10	3,138.06	2.04	1,537.957		
600.00	600.00	561.23	561.20	1.21	1.32	-165.97	-3,046.93	-761.36	3,140.63	3,138.10	2.53	1,240.092		
700.00	700.00	669.61	669.58	1.43	1.60	-165.98	-3,047.16	-760.96	3,140.74	3,137.71	3.03	1,036.089		
800.00	800.00	765.97	765.94	1.66	1.79	-165.98	-3,047.25	-760.90	3,140.82	3,137.37	3.45	911.447		
900.00	900.00	865.97	865.94	1.88	1.91	-165.98	-3,047.39	-761.16	3,141.01	3,137.23	3.79	829.086		
1,000.00	1,000.00	970.05	970.02	2.11	1.99	-165.97	-3,047.42	-761.46	3,141.11	3,137.02	4.10	766.446		
1,100.00	1,100.00	1,088.85	1,088.82	2.33	2.07	-165.96	-3,047.08	-761.79	3,140.91	3,136.51	4.40	713.139		
1,200.00	1,200.00	1,189.89	1,189.85	2.56	2.16	-165.96	-3,046.43	-761.81	3,140.29	3,135.58	4.71	666.370		
1,300.00	1,300.00	1,285.53	1,285.49	2.78	2.26	-165.96	-3,045.88	-761.91	3,139.76	3,134.72	5.04	623.114		
1,314.39	1,314.39	1,300.00	1,299.97	2.81	2.27	157.64	-3,045.79	-761.97	3,139.73	3,134.64	5.09	617.176		
1,400.00	1,399.98	1,377.59	1,377.55	3.00	2.37	157.65	-3,045.43	-762.38	3,141.03	3,135.65	5.38	583.762		
1,500.00	1,499.84	1,475.04	1,475.00	3.23	2.51	157.66	-3,045.18	-762.81	3,145.72	3,139.98	5.74	547.655		
1,600.00	1,599.45	1,581.71	1,581.67	3.45	2.69	157.66	-3,044.96	-762.73	3,153.58	3,147.44	6.14	513.628		
1,700.00	1,698.70	1,677.31	1,677.27	3.69	2.85	157.66	-3,044.66	-762.61	3,164.53	3,158.00	6.53	484.869		
1,800.00	1,797.61	1,783.59	1,783.55	3.95	3.04	157.75	-3,044.26	-762.87	3,177.86	3,170.91	6.94	457.600		
1,900.00	1,896.51	1,888.85	1,888.81	4.22	3.23	157.87	-3,043.48	-763.44	3,191.03	3,183.65	7.38	432.510		
2,000.00	1,995.40	1,987.45	1,987.40	4.51	3.43	157.98	-3,042.63	-764.11	3,204.12	3,196.31	7.81	410.132		
2,100.00	2,094.30	2,069.02	2,068.96	4.80	3.59	158.08	-3,042.10	-764.75	3,217.47	3,209.26	8.22	391.592		
2,200.00	2,193.19	2,166.49	2,166.43	5.10	3.78	158.19	-3,041.94	-765.45	3,231.27	3,222.62	8.66	373.228		
2,300.00	2,292.09	2,255.08	2,255.02	5.41	3.94	158.28	-3,041.87	-765.62	3,245.05	3,235.99	9.07	357.867		
2,400.00	2,390.98	2,341.66	2,341.60	5.72	4.08	158.36	-3,042.37	-765.49	3,259.35	3,249.90	9.45	344.868		
2,500.00	2,489.88	2,432.77	2,432.70	6.04	4.21	158.44	-3,043.09	-765.22	3,273.84	3,264.01	9.83	333.035		
2,600.00	2,588.77	2,522.04	2,521.97	6.36	4.34	158.52	-3,044.12	-765.12	3,288.72	3,278.50	10.22	321.811		
2,700.00	2,687.67	2,632.18	2,632.10	6.68	4.53	158.62	-3,045.16	-765.26	3,303.47	3,292.82	10.66	310.020		
2,800.00	2,786.56	2,733.71	2,733.63	7.01	4.70	158.71	-3,045.99	-765.12	3,318.05	3,306.96	11.08	299.344		
2,900.00	2,885.46	2,832.61	2,832.53	7.34	4.87	158.79	-3,046.88	-764.56	3,332.59	3,321.08	11.51	289.481		
3,000.00	2,984.36	2,935.42	2,935.33	7.67	5.06	158.87	-3,047.73	-764.20	3,347.14	3,335.18	11.95	279.994		
3,100.00	3,083.25	3,038.55	3,038.46	8.00	5.25	158.96	-3,048.40	-763.53	3,361.43	3,349.03	12.40	271.033		
3,200.00	3,182.15	3,130.22	3,130.13	8.34	5.43	159.03	-3,049.08	-763.15	3,375.88	3,363.05	12.84	263.004		
3,300.00	3,281.04	3,240.89	3,240.79	8.67	5.65	159.12	-3,049.94	-762.74	3,390.41	3,377.10	13.31	254.719		
3,400.00	3,379.94	3,345.88	3,345.77	9.01	5.85	159.19	-3,050.27	-761.53	3,404.26	3,390.49	13.77	247.214		
3,500.00	3,478.83	3,430.67	3,430.56	9.35	6.02	159.26	-3,050.82	-761.06	3,418.59	3,404.40	14.20	240.783		
3,600.00	3,577.73	3,540.16	3,540.04	9.69	6.25	159.34	-3,051.52	-760.26	3,432.89	3,418.20	14.68	233.831		
3,700.00	3,676.62	3,645.62	3,645.49	10.03	6.47	159.41	-3,052.01	-759.04	3,446.90	3,431.75	15.15	227.461		
3,800.00	3,775.52	3,746.68	3,746.55	10.37	6.67	159.48	-3,052.38	-757.88	3,460.84	3,445.22	15.62	221.579		
3,900.00	3,874.41	3,846.88	3,846.74	10.72	6.88	159.54	-3,052.68	-756.72	3,474.71	3,458.62	16.09	216.015		
4,000.00	3,973.31	3,952.67	3,952.52	11.06	7.10	159.61	-3,053.01	-755.27	3,488.54	3,471.98	16.56	210.598		
4,100.00	4,072.20	4,043.01	4,042.85	11.40	7.30	159.66	-3,053.17	-753.84	3,502.20	3,485.19	17.02	205.829		
4,200.00	4,171.10	4,130.44	4,130.25	11.75	7.49	159.70	-3,054.08	-751.84	3,516.45	3,498.99	17.46	201.347		
4,300.00	4,269.99	4,237.32	4,237.08	12.09	7.72	159.74	-3,054.96	-748.90	3,530.38	3,512.41	17.96	196.546		
4,400.00	4,368.89	4,300.00	4,299.74	12.44	7.87	159.77	-3,055.69	-747.27	3,544.78	3,526.41	18.36	193.033		
4,500.00	4,467.78	4,373.00	4,372.71	12.78	8.03	159.80	-3,057.10	-745.75	3,560.02	3,541.23	18.79	189.453		
4,600.00	4,566.68	4,458.48	4,458.15	13.13	8.23	159.84	-3,059.43	-744.54	3,576.11	3,556.86	19.25	185.808		
4,700.00	4,665.57	4,579.03	4,578.65	13.48	8.51	159.90	-3,062.36	-743.12	3,592.05	3,572.26	19.78	181.584		
4,800.00	4,764.47	4,669.24	4,668.84	13.82	8.72	159.96	-3,064.12	-742.36	3,607.61	3,587.36	20.25	178.180		
4,900.00	4,863.36	4,764.62	4,764.21	14.17	8.93	160.02	-3,066.14	-742.13	3,623.50	3,602.78	20.72	174.912		
5,000.00	4,962.26	4,870.64	4,870.21	14.52	9.15	160.10	-3,068.09	-742.44	3,639.28	3,618.08	21.19	171.708		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - LEWIS CAMP-C 2 offset - LEWIS CAMP-C 2 - LEWIS CAMP-C 2													Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	4,979.28	4,978.83	14.87	9.37	160.19	-3,069.75	-742.96	3,654.82	3,633.15	21.68	168.601		
5,200.00	5,160.05	5,086.98	5,086.53	15.21	9.61	160.27	-3,071.21	-743.09	3,670.11	3,647.94	22.17	165.559		
5,300.00	5,258.94	5,191.27	5,190.81	15.56	9.84	160.35	-3,072.43	-743.14	3,685.21	3,662.55	22.66	162.638		
5,400.00	5,357.84	5,272.28	5,271.80	15.91	10.02	160.41	-3,073.50	-743.17	3,700.45	3,677.35	23.10	160.204		
5,500.00	5,456.73	5,382.49	5,382.00	16.26	10.27	160.49	-3,075.16	-743.45	3,715.96	3,692.36	23.60	157.436		
5,600.00	5,555.63	5,472.58	5,472.08	16.61	10.49	160.55	-3,076.45	-743.15	3,731.22	3,707.14	24.07	154.990		
5,700.00	5,654.52	5,564.44	5,563.93	16.96	10.70	160.61	-3,078.02	-743.04	3,746.79	3,722.24	24.55	152.642		
5,800.00	5,753.42	5,679.32	5,678.80	17.31	10.96	160.69	-3,079.75	-743.30	3,762.30	3,737.23	25.07	150.099		
5,900.00	5,852.31	5,782.16	5,781.63	17.66	11.20	160.77	-3,080.89	-743.46	3,777.41	3,751.85	25.56	147.803		
6,000.00	5,951.21	5,909.54	5,909.01	18.01	11.49	160.86	-3,081.94	-743.41	3,792.20	3,766.10	26.10	145.271		
6,100.00	6,050.10	6,026.01	6,025.48	18.36	11.68	160.94	-3,082.08	-743.20	3,806.27	3,779.72	26.55	143.347		
6,200.00	6,149.00	6,123.82	6,123.29	18.71	11.85	161.00	-3,082.17	-742.64	3,820.22	3,793.24	26.97	141.626		
6,300.00	6,247.89	6,222.13	6,221.59	19.06	12.05	161.06	-3,082.24	-742.04	3,834.14	3,806.71	27.44	139.737		
6,400.00	6,346.79	6,312.86	6,312.31	19.41	12.25	161.12	-3,082.55	-741.24	3,848.24	3,820.35	27.89	137.956		
6,500.00	6,445.68	6,415.04	6,414.49	19.76	12.49	161.17	-3,083.03	-740.04	3,862.37	3,833.99	28.39	136.066		
6,600.00	6,544.58	6,509.23	6,508.67	20.11	12.70	161.22	-3,083.50	-738.89	3,876.52	3,847.66	28.86	134.318		
6,700.00	6,643.53	6,591.26	6,590.69	20.44	12.90	148.09	-3,084.18	-737.84	3,890.44	3,861.20	29.24	133.063		
6,800.00	6,743.00	6,663.46	6,662.88	20.62	13.08	59.93	-3,085.17	-736.97	3,892.98	3,863.61	29.37	132.559		
6,900.00	6,840.75	6,743.51	6,742.91	20.64	13.27	36.79	-3,086.80	-736.20	3,879.68	3,850.98	28.70	135.194		
7,000.00	6,933.82	6,838.90	6,838.27	20.54	13.51	31.45	-3,088.95	-735.20	3,850.51	3,823.19	27.33	140.901		
7,100.00	7,019.36	6,934.32	6,933.68	20.31	13.74	30.70	-3,090.72	-734.65	3,806.01	3,780.58	25.44	149.631		
7,200.00	7,094.79	7,000.00	6,999.34	20.01	13.91	32.38	-3,091.97	-734.01	3,747.82	3,724.43	23.38	160.273		
7,300.00	7,157.81	7,055.97	7,055.29	19.66	14.04	36.50	-3,093.18	-733.50	3,677.98	3,655.95	22.02	166.999		
7,400.00	7,206.51	7,100.00	7,099.31	19.29	14.15	43.92	-3,094.25	-733.39	3,598.71	3,576.14	22.57	159.435		
7,500.00	7,239.40	7,123.02	7,122.32	18.94	14.20	56.20	-3,094.85	-733.41	3,512.31	3,486.53	25.77	136.275		
7,600.00	7,255.49	7,139.04	7,138.33	18.63	14.24	75.65	-3,095.27	-733.44	3,421.34	3,391.00	30.34	112.780		
7,700.00	7,256.04	7,141.80	7,141.09	18.39	14.24	89.07	-3,095.35	-733.45	3,328.58	3,296.66	31.92	104.285		
7,800.00	7,253.91	7,142.27	7,141.57	18.51	14.25	89.09	-3,095.36	-733.45	3,236.06	3,203.73	32.33	100.083		
7,900.00	7,251.78	7,142.75	7,142.04	19.20	14.25	89.11	-3,095.37	-733.45	3,144.01	3,111.07	32.94	95.456		
8,000.00	7,249.65	7,143.23	7,142.52	20.08	14.25	89.13	-3,095.39	-733.45	3,052.45	3,018.74	33.71	90.552		
8,100.00	7,247.53	7,143.71	7,143.01	21.07	14.25	89.16	-3,095.40	-733.45	2,961.43	2,926.79	34.64	85.483		
8,200.00	7,245.40	7,144.20	7,143.49	22.17	14.25	89.18	-3,095.41	-733.45	2,871.02	2,835.23	35.79	80.222		
8,300.00	7,243.27	7,144.69	7,143.98	23.36	14.25	89.20	-3,095.42	-733.45	2,781.26	2,744.21	37.05	75.075		
8,400.00	7,241.14	7,145.18	7,144.47	24.64	14.25	89.22	-3,095.44	-733.46	2,692.22	2,653.82	38.40	70.109		
8,500.00	7,239.01	7,145.67	7,144.96	25.98	14.25	89.25	-3,095.45	-733.46	2,603.98	2,564.15	39.84	65.367		
8,600.00	7,236.89	7,146.17	7,145.46	27.39	14.25	89.27	-3,095.46	-733.46	2,516.62	2,475.28	41.34	60.873		
8,700.00	7,234.76	7,146.66	7,145.95	28.85	14.26	89.29	-3,095.48	-733.46	2,430.23	2,387.33	42.91	56.640		
8,800.00	7,232.63	7,147.16	7,146.45	30.36	14.26	89.31	-3,095.49	-733.46	2,344.93	2,300.41	44.52	52.670		
8,900.00	7,230.50	7,147.67	7,146.96	31.91	14.26	89.34	-3,095.50	-733.46	2,260.83	2,214.65	46.18	48.958		
9,000.00	7,228.38	7,148.17	7,147.46	33.49	14.26	89.36	-3,095.52	-733.46	2,178.07	2,130.20	47.87	45.497		
9,100.00	7,226.25	7,148.68	7,147.97	35.11	14.26	89.38	-3,095.53	-733.47	2,096.82	2,047.22	49.60	42.275		
9,200.00	7,224.12	7,149.19	7,148.48	36.75	14.26	89.41	-3,095.55	-733.47	2,017.25	1,965.90	51.35	39.283		
9,300.00	7,221.99	7,149.71	7,149.00	38.41	14.26	89.43	-3,095.56	-733.47	1,939.58	1,886.45	53.13	36.507		
9,400.00	7,219.86	7,150.22	7,149.51	40.10	14.26	89.46	-3,095.57	-733.47	1,864.03	1,809.10	54.93	33.936		
9,500.00	7,217.74	7,150.74	7,150.03	41.80	14.26	89.48	-3,095.59	-733.47	1,790.88	1,734.14	56.74	31.561		
9,600.00	7,215.61	7,151.26	7,150.55	43.53	14.27	89.50	-3,095.60	-733.47	1,720.44	1,661.87	58.57	29.372		
9,700.00	7,213.48	7,151.79	7,151.08	45.26	14.27	89.53	-3,095.62	-733.48	1,653.05	1,592.63	60.42	27.359		
9,800.00	7,211.35	7,152.32	7,151.61	47.01	14.27	89.55	-3,095.63	-733.48	1,589.09	1,526.81	62.28	25.516		
9,900.00	7,209.22	7,152.85	7,152.14	48.77	14.27	89.58	-3,095.65	-733.48	1,529.01	1,464.86	64.15	23.836		
10,000.00	7,207.10	7,153.38	7,152.67	50.54	14.27	89.60	-3,095.66	-733.48	1,473.27	1,407.24	66.03	22.313		
10,100.00	7,204.97	7,153.92	7,153.21	52.32	14.27	89.63	-3,095.67	-733.48	1,422.38	1,354.46	67.92	20.943		
10,200.00	7,202.84	7,154.46	7,153.75	54.11	14.27	89.65	-3,095.69	-733.48	1,376.88	1,307.07	69.81	19.723		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - LEWIS CAMP-C 2 offset - LEWIS CAMP-C 2 - LEWIS CAMP-C 2												Offset Site Error:	0.00 ft
Survey Program: 100-NS-GYRO-MS												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	7,200.71	7,155.00	7,154.29	55.91	14.27	89.67	-3,095.70	-733.49	1,337.33	1,265.62	71.72	18.648	
10,400.00	7,198.59	7,155.54	7,154.83	57.72	14.28	89.70	-3,095.72	-733.49	1,304.26	1,230.64	73.63	17.715	
10,500.00	7,196.46	7,156.09	7,155.38	59.53	14.28	89.73	-3,095.73	-733.49	1,278.18	1,202.64	75.54	16.920	
10,600.00	7,194.33	7,156.64	7,155.93	61.34	14.28	89.75	-3,095.75	-733.49	1,259.52	1,182.06	77.46	16.260	
10,700.00	7,192.20	7,157.20	7,156.49	63.17	14.28	89.78	-3,095.76	-733.49	1,248.61	1,169.22	79.39	15.728	
10,786.78	7,190.36	7,157.68	7,156.97	64.75	14.28	89.80	-3,095.78	-733.49	1,245.59	1,164.52	81.08	15.363 CC	
10,800.00	7,190.07	7,157.76	7,157.04	64.99	14.28	89.80	-3,095.78	-733.50	1,245.66	1,164.34	81.32	15.318 ES	
10,900.00	7,187.95	7,158.32	7,157.60	66.83	14.28	89.83	-3,095.79	-733.50	1,250.73	1,167.47	83.26	15.023	
11,000.00	7,185.82	7,158.88	7,158.17	68.66	14.28	89.85	-3,095.81	-733.50	1,263.71	1,178.51	85.19	14.833	
11,100.00	7,183.69	7,159.45	7,158.73	70.50	14.28	89.88	-3,095.82	-733.50	1,284.37	1,197.23	87.14	14.740	
11,200.00	7,181.56	7,160.02	7,159.30	72.35	14.29	89.91	-3,095.84	-733.50	1,312.34	1,223.26	89.08	14.732 SF	
11,300.00	7,179.44	7,160.59	7,159.88	74.19	14.29	89.93	-3,095.86	-733.51	1,347.17	1,256.14	91.03	14.799	
11,400.00	7,177.31	7,161.17	7,160.45	76.04	14.29	89.96	-3,095.87	-733.51	1,388.35	1,295.37	92.98	14.931	
11,500.00	7,175.18	7,161.75	7,161.03	77.90	14.29	89.99	-3,095.89	-733.51	1,435.32	1,340.39	94.94	15.119	
11,600.00	7,173.05	7,162.33	7,161.61	79.75	14.29	90.01	-3,095.90	-733.51	1,487.55	1,390.65	96.89	15.352	
11,700.00	7,170.92	7,162.91	7,162.20	81.61	14.29	90.04	-3,095.92	-733.51	1,544.48	1,445.63	98.85	15.624	
11,800.00	7,168.80	7,163.50	7,162.79	83.47	14.29	90.07	-3,095.94	-733.52	1,605.64	1,504.82	100.81	15.927	
11,837.41	7,168.00	7,163.73	7,163.01	84.17	14.29	90.08	-3,095.94	-733.52	1,629.50	1,527.96	101.55	16.047	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - SHIELDS J V 2 offset - SHIELDS J V 2 - SHIELDS J V 2													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-106.26	-1,003.38	-3,439.48	3,583.81					
100.00	100.00	26.17	26.17	0.08	0.03	-106.26	-1,003.26	-3,439.48	3,582.82	3,582.71	0.11	N/A		
200.00	200.00	151.98	151.93	0.31	0.23	-106.21	-999.82	-3,439.48	3,582.02	3,581.48	0.54	6,608.659		
300.00	300.00	251.92	251.81	0.53	0.47	-106.16	-996.33	-3,439.48	3,581.05	3,580.05	1.00	3,598.500		
400.00	400.00	351.86	351.69	0.76	0.70	-106.10	-992.85	-3,439.48	3,580.08	3,578.63	1.45	2,471.805		
500.00	500.00	451.80	451.57	0.98	0.93	-106.05	-989.36	-3,439.48	3,579.11	3,577.21	1.90	1,882.092		
600.00	600.00	551.74	551.44	1.21	1.16	-105.99	-985.87	-3,439.47	3,578.14	3,575.79	2.36	1,519.351		
700.00	700.00	651.68	651.32	1.43	1.39	-105.94	-982.38	-3,439.47	3,577.18	3,574.37	2.81	1,273.691		
800.00	800.00	751.62	751.20	1.66	1.63	-105.89	-978.89	-3,439.47	3,576.22	3,572.96	3.26	1,096.306		
900.00	900.00	851.56	851.08	1.88	1.86	-105.83	-975.41	-3,439.47	3,575.27	3,571.55	3.72	962.206		
1,000.00	1,000.00	951.50	950.96	2.11	2.09	-105.78	-971.92	-3,439.47	3,574.32	3,570.15	4.17	857.270		
1,100.00	1,100.00	1,051.44	1,050.84	2.33	2.32	-105.73	-968.43	-3,439.47	3,573.37	3,568.75	4.62	772.917		
1,200.00	1,200.00	1,151.37	1,150.71	2.56	2.55	-105.67	-964.94	-3,439.47	3,572.42	3,567.35	5.08	703.634		
1,300.00	1,300.00	1,251.31	1,250.59	2.78	2.79	-105.62	-961.45	-3,439.47	3,571.48	3,565.95	5.53	645.712		
1,334.16	1,334.16	1,285.45	1,284.71	2.86	2.86	-142.01	-960.26	-3,439.47	3,571.32	3,565.60	5.72	624.597 CC, ES		
1,400.00	1,399.98	1,351.28	1,350.50	3.00	3.02	-141.98	-957.97	-3,439.47	3,571.92	3,565.90	6.01	593.913		
1,500.00	1,499.84	1,451.23	1,450.38	3.23	3.25	-141.94	-954.48	-3,439.47	3,575.10	3,568.65	6.46	553.602		
1,600.00	1,599.45	1,551.02	1,550.12	3.45	3.48	-141.90	-950.99	-3,439.47	3,581.04	3,574.14	6.90	519.093		
1,700.00	1,698.70	1,650.56	1,649.59	3.69	3.71	-141.86	-947.52	-3,439.47	3,589.71	3,582.37	7.34	489.156		
1,800.00	1,797.61	1,749.82	1,748.80	3.95	3.94	-141.91	-944.06	-3,439.47	3,600.38	3,592.58	7.80	461.784		
1,900.00	1,896.51	1,849.07	1,847.99	4.22	4.17	-142.01	-940.59	-3,439.47	3,611.16	3,602.89	8.27	436.822		
2,000.00	1,995.40	1,948.32	1,947.18	4.51	4.40	-142.10	-937.13	-3,439.47	3,621.94	3,613.20	8.74	414.273		
2,100.00	2,094.30	2,047.57	2,046.37	4.80	4.63	-142.19	-933.67	-3,439.47	3,632.73	3,623.51	9.22	393.849		
2,200.00	2,193.19	2,146.83	2,145.56	5.10	4.86	-142.28	-930.20	-3,439.47	3,643.53	3,633.82	9.71	375.295		
2,300.00	2,292.09	2,246.08	2,244.75	5.41	5.09	-142.37	-926.74	-3,439.47	3,654.34	3,644.15	10.20	358.389		
2,400.00	2,390.98	2,345.33	2,343.94	5.72	5.32	-142.46	-923.27	-3,439.47	3,665.16	3,654.48	10.69	342.939		
2,500.00	2,489.88	2,444.58	2,443.13	6.04	5.55	-142.54	-919.81	-3,439.47	3,675.99	3,664.81	11.18	328.777		
2,600.00	2,588.77	2,543.83	2,542.32	6.36	5.78	-142.63	-916.35	-3,439.47	3,686.83	3,675.15	11.68	315.758		
2,700.00	2,687.67	2,643.08	2,641.51	6.68	6.01	-142.72	-912.88	-3,439.46	3,697.67	3,685.50	12.17	303.757		
2,800.00	2,786.56	2,742.33	2,740.70	7.01	6.24	-142.81	-909.42	-3,439.46	3,708.53	3,695.85	12.67	292.665		
2,900.00	2,885.46	2,841.58	2,839.89	7.34	6.47	-142.89	-905.95	-3,439.46	3,719.39	3,706.22	13.17	282.386		
3,000.00	2,984.36	2,940.84	2,939.08	7.67	6.70	-142.98	-902.49	-3,439.46	3,730.26	3,716.59	13.67	272.838		
3,100.00	3,083.25	3,040.09	3,038.28	8.00	6.93	-143.07	-899.03	-3,439.46	3,741.14	3,726.96	14.17	263.949		
3,200.00	3,182.15	3,139.34	3,137.47	8.34	7.16	-143.15	-895.56	-3,439.46	3,752.03	3,737.35	14.68	255.655		
3,300.00	3,281.04	3,238.59	3,236.66	8.67	7.39	-143.24	-892.10	-3,439.46	3,762.92	3,747.74	15.18	247.899		
3,400.00	3,379.94	3,337.84	3,335.85	9.01	7.62	-143.32	-888.64	-3,439.46	3,773.82	3,758.14	15.68	240.633		
3,500.00	3,478.83	3,437.09	3,435.04	9.35	7.85	-143.40	-885.17	-3,439.46	3,784.74	3,768.55	16.19	233.813		
3,600.00	3,577.73	3,536.34	3,534.23	9.69	8.08	-143.49	-881.71	-3,439.46	3,795.65	3,778.96	16.69	227.400		
3,700.00	3,676.62	3,635.59	3,633.42	10.03	8.31	-143.57	-878.24	-3,439.46	3,806.58	3,789.39	17.20	221.359		
3,800.00	3,775.52	3,734.85	3,732.61	10.37	8.54	-143.65	-874.78	-3,439.46	3,817.52	3,799.81	17.70	215.659		
3,900.00	3,874.41	3,834.10	3,831.80	10.72	8.77	-143.73	-871.32	-3,439.46	3,828.46	3,810.25	18.21	210.274		
4,000.00	3,973.31	3,933.35	3,930.99	11.06	9.00	-143.81	-867.85	-3,439.46	3,839.41	3,820.70	18.71	205.178		
4,100.00	4,072.20	4,032.60	4,030.18	11.40	9.23	-143.89	-864.39	-3,439.46	3,850.37	3,831.15	19.22	200.348		
4,200.00	4,171.10	4,131.85	4,129.37	11.75	9.46	-143.97	-860.93	-3,439.46	3,861.33	3,841.61	19.72	195.766		
4,300.00	4,269.99	4,231.10	4,228.57	12.09	9.69	-144.05	-857.46	-3,439.46	3,872.31	3,852.08	20.23	191.412		
4,400.00	4,368.89	4,330.35	4,327.76	12.44	9.92	-144.13	-854.00	-3,439.46	3,883.29	3,862.55	20.74	187.270		
4,500.00	4,467.78	4,429.61	4,426.95	12.78	10.15	-144.21	-850.53	-3,439.46	3,894.27	3,873.03	21.24	183.326		
4,600.00	4,566.68	4,528.86	4,526.14	13.13	10.38	-144.29	-847.07	-3,439.46	3,905.27	3,883.52	21.75	179.566		
4,700.00	4,665.57	4,628.11	4,625.33	13.48	10.61	-144.37	-843.61	-3,439.45	3,916.27	3,894.02	22.25	175.977		
4,800.00	4,764.47	4,727.36	4,724.52	13.82	10.84	-144.45	-840.14	-3,439.45	3,927.28	3,904.52	22.76	172.547		
4,900.00	4,863.36	4,826.61	4,823.71	14.17	11.07	-144.52	-836.68	-3,439.45	3,938.30	3,915.03	23.27	169.268		
5,000.00	4,962.26	4,925.86	4,922.90	14.52	11.30	-144.60	-833.21	-3,439.45	3,949.32	3,925.55	23.77	166.129		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - SHIELDS J V 2 offset - SHIELDS J V 2 - SHIELDS J V 2													Offset Site Error:	0.00 ft
Survey Program: 0-MWMD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,100.00	5,061.15	5,025.11	5,022.09	14.87	11.53	-144.68	-829.75	-3,439.45	3,960.35	3,936.07	24.28	163.121		
5,200.00	5,160.05	5,124.36	5,121.28	15.21	11.76	-144.75	-826.29	-3,439.45	3,971.39	3,946.60	24.78	160.237		
5,300.00	5,258.94	5,223.62	5,220.47	15.56	11.99	-144.83	-822.82	-3,439.45	3,982.43	3,957.14	25.29	157.469		
5,400.00	5,357.84	5,322.87	5,319.66	15.91	12.22	-144.90	-819.36	-3,439.45	3,993.48	3,967.69	25.80	154.810		
5,500.00	5,456.73	5,422.12	5,418.86	16.26	12.45	-144.98	-815.90	-3,439.45	4,004.54	3,978.24	26.30	152.255		
5,600.00	5,555.63	5,521.37	5,518.05	16.61	12.68	-145.05	-812.43	-3,439.45	4,015.61	3,988.80	26.81	149.796		
5,700.00	5,654.52	5,620.62	5,617.24	16.96	12.91	-145.13	-808.97	-3,439.45	4,026.68	3,999.37	27.31	147.430		
5,800.00	5,753.42	5,719.87	5,716.43	17.31	13.14	-145.20	-805.50	-3,439.45	4,037.76	4,009.94	27.82	145.150		
5,900.00	5,852.31	5,819.12	5,815.62	17.66	13.38	-145.27	-802.04	-3,439.45	4,048.84	4,020.52	28.32	142.952		
6,000.00	5,951.21	5,918.37	5,914.81	18.01	13.61	-145.35	-798.58	-3,439.45	4,059.93	4,031.10	28.83	140.833		
6,100.00	6,050.10	6,017.63	6,014.00	18.36	13.84	-145.42	-795.11	-3,439.45	4,071.03	4,041.70	29.33	138.787		
6,200.00	6,149.00	6,116.88	6,113.19	18.71	14.07	-145.49	-791.65	-3,439.45	4,082.13	4,052.29	29.84	136.811		
6,300.00	6,247.89	6,216.13	6,212.38	19.06	14.30	-145.56	-788.19	-3,439.45	4,093.24	4,062.90	30.34	134.902		
6,400.00	6,346.79	6,315.38	6,311.57	19.41	14.53	-145.63	-784.72	-3,439.45	4,104.36	4,073.51	30.85	133.056		
6,500.00	6,445.68	6,414.63	6,410.76	19.76	14.76	-145.70	-781.26	-3,439.45	4,115.48	4,084.13	31.35	131.270		
6,600.00	6,544.58	6,513.88	6,509.95	20.11	14.99	-145.77	-777.79	-3,439.45	4,126.61	4,094.75	31.86	129.541		
6,700.00	6,643.53	6,613.17	6,609.18	20.44	15.22	-159.16	-774.33	-3,439.45	4,137.56	4,105.21	32.36	127.878		
6,800.00	6,743.00	6,712.54	6,708.49	20.62	15.45	112.14	-770.86	-3,439.44	4,144.35	4,111.61	32.75	126.561		
6,900.00	6,840.75	6,809.59	6,805.48	20.64	15.67	88.65	-767.47	-3,439.44	4,145.32	4,112.31	33.01	125.575		
7,000.00	6,933.82	6,901.36	6,897.20	20.54	15.88	82.96	-764.27	-3,439.44	4,140.70	4,107.52	33.17	124.817		
7,100.00	7,019.36	6,985.08	6,980.86	20.31	16.08	81.58	-761.35	-3,439.44	4,131.05	4,097.77	33.29	124.107		
7,200.00	7,094.79	7,058.19	7,053.93	20.01	16.25	82.02	-758.80	-3,439.44	4,117.21	4,083.81	33.40	123.287		
7,300.00	7,157.81	7,118.47	7,114.18	19.66	16.39	83.43	-756.69	-3,439.44	4,100.17	4,066.64	33.53	122.298		
7,400.00	7,206.51	7,164.10	7,159.78	19.29	16.49	85.35	-755.10	-3,439.44	4,081.00	4,047.32	33.68	121.170		
7,500.00	7,239.40	7,193.69	7,189.34	18.94	16.56	87.46	-754.07	-3,439.44	4,060.80	4,026.94	33.85	119.949		
7,600.00	7,255.49	7,206.33	7,201.98	18.63	16.59	89.55	-753.63	-3,439.44	4,040.50	4,006.44	34.06	118.628		
7,700.00	7,256.04	7,203.38	7,199.04	18.39	16.58	90.61	-753.73	-3,439.44	4,021.04	3,986.72	34.31	117.184		
7,800.00	7,253.91	7,197.77	7,193.42	18.51	16.57	90.53	-753.93	-3,439.44	4,003.76	3,969.04	34.72	115.331		
7,900.00	7,251.78	7,192.15	7,187.81	19.20	16.56	90.44	-754.12	-3,439.44	3,988.90	3,953.60	35.30	112.990		
8,000.00	7,249.65	7,186.54	7,182.20	20.08	16.55	90.36	-754.32	-3,439.44	3,976.50	3,940.42	36.08	110.225		
8,100.00	7,247.53	7,180.92	7,176.59	21.07	16.53	90.28	-754.51	-3,439.44	3,966.57	3,929.50	37.07	107.000		
8,200.00	7,245.40	7,175.30	7,170.97	22.17	16.52	90.20	-754.71	-3,439.44	3,959.13	3,920.94	38.20	103.654		
8,300.00	7,243.27	7,169.69	7,165.36	23.36	16.51	90.12	-754.91	-3,439.44	3,954.20	3,914.77	39.43	100.276		
8,400.00	7,241.14	7,164.07	7,159.75	24.64	16.49	90.04	-755.10	-3,439.44	3,951.79	3,911.03	40.77	96.937		
8,445.58	7,240.17	7,161.51	7,157.19	25.25	16.49	90.00	-755.19	-3,439.44	3,951.53	3,910.07	41.46	95.311		
8,500.00	7,239.01	7,158.46	7,154.14	25.98	16.48	89.96	-755.30	-3,439.44	3,951.91	3,909.72	42.18	93.688		
8,600.00	7,236.89	7,152.84	7,148.52	27.39	16.47	89.87	-755.49	-3,439.44	3,954.54	3,910.87	43.67	90.563		
8,700.00	7,234.76	7,147.23	7,142.91	28.85	16.45	89.79	-755.69	-3,439.44	3,959.69	3,914.48	45.21	87.586		
8,800.00	7,232.63	7,141.61	7,137.30	30.36	16.44	89.71	-755.89	-3,439.44	3,967.35	3,920.54	46.80	84.768		
8,900.00	7,230.50	7,135.99	7,131.69	31.91	16.43	89.63	-756.08	-3,439.44	3,977.49	3,929.06	48.44	82.115		
9,000.00	7,228.38	7,130.38	7,126.08	33.49	16.41	89.55	-756.28	-3,439.44	3,990.12	3,940.00	50.11	79.626		
9,100.00	7,226.25	7,124.76	7,120.46	35.11	16.40	89.47	-756.47	-3,439.44	4,005.19	3,953.37	51.81	77.298		
9,200.00	7,224.12	7,119.15	7,114.85	36.75	16.39	89.39	-756.67	-3,439.44	4,022.68	3,969.14	53.55	75.125		
9,300.00	7,221.99	7,113.53	7,109.24	38.41	16.38	89.31	-756.87	-3,439.44	4,042.57	3,987.27	55.30	73.101		
9,400.00	7,219.86	7,107.92	7,103.63	40.10	16.36	89.22	-757.06	-3,439.44	4,064.81	4,007.73	57.08	71.217		
9,500.00	7,217.74	7,102.30	7,098.01	41.80	16.35	89.14	-757.26	-3,439.44	4,089.37	4,030.50	58.87	69.465		
9,600.00	7,215.61	7,096.68	7,092.40	43.53	16.34	89.06	-757.45	-3,439.44	4,116.20	4,055.52	60.68	67.836		
9,700.00	7,213.48	7,091.07	7,086.79	45.26	16.32	88.98	-757.65	-3,439.44	4,145.27	4,082.76	62.50	66.322		
9,800.00	7,211.35	7,085.45	7,081.18	47.01	16.31	88.90	-757.85	-3,439.44	4,176.52	4,112.18	64.34	64.916		
9,900.00	7,209.22	7,079.84	7,075.57	48.77	16.30	88.82	-758.04	-3,439.44	4,209.90	4,143.72	66.18	63.610		
10,000.00	7,207.10	7,074.22	7,069.95	50.54	16.28	88.74	-758.24	-3,439.44	4,245.38	4,177.34	68.04	62.396		
10,100.00	7,204.97	7,068.61	7,064.34	52.32	16.27	88.66	-758.43	-3,439.44	4,282.88	4,212.98	69.90	61.268		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Offset Design WELD_CAMP 5 PAD - SHIELDS J V 2 offset - SHIELDS J V 2 - SHIELDS J V 2												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,200.00	7,202.84	7,062.99	7,058.73	54.11	16.26	88.57	-758.63	-3,439.44	4,322.37	4,250.60	71.78	60.220	
10,300.00	7,200.71	7,057.38	7,053.12	55.91	16.25	88.49	-758.83	-3,439.44	4,363.79	4,290.13	73.66	59.246	
10,400.00	7,198.59	7,051.76	7,047.50	57.72	16.23	88.41	-759.02	-3,439.44	4,407.08	4,331.54	75.54	58.340	
10,500.00	7,196.46	7,046.14	7,041.89	59.53	16.22	88.33	-759.22	-3,439.44	4,452.19	4,374.75	77.43	57.498	
10,600.00	7,194.33	7,040.53	7,036.28	61.34	16.21	88.25	-759.41	-3,439.44	4,499.06	4,419.73	79.33	56.714	
10,700.00	7,192.20	7,034.91	7,030.67	63.17	16.19	88.17	-759.61	-3,439.44	4,547.64	4,466.41	81.23	55.985	
10,800.00	7,190.07	7,029.30	7,025.06	64.99	16.18	88.09	-759.81	-3,439.44	4,597.87	4,514.74	83.13	55.306	
10,900.00	7,187.95	7,023.68	7,019.44	66.83	16.17	88.01	-760.00	-3,439.44	4,649.71	4,564.67	85.04	54.674	
11,000.00	7,185.82	7,018.07	7,013.83	68.66	16.15	87.92	-760.20	-3,439.44	4,703.10	4,616.14	86.96	54.086	
11,100.00	7,183.69	7,012.45	7,008.22	70.50	16.14	87.84	-760.39	-3,439.44	4,757.98	4,669.11	88.87	53.537	
11,200.00	7,181.56	7,006.83	7,002.61	72.35	16.13	87.76	-760.59	-3,439.44	4,814.30	4,723.51	90.79	53.027	
11,300.00	7,179.44	7,001.22	6,996.99	74.19	16.12	87.68	-760.79	-3,439.44	4,872.03	4,779.32	92.71	52.550	
11,400.00	7,177.31	6,995.60	6,991.38	76.04	16.10	87.60	-760.98	-3,439.44	4,931.09	4,836.46	94.64	52.106	
11,500.00	7,175.18	6,989.99	6,985.77	77.90	16.09	87.52	-761.18	-3,439.44	4,991.46	4,894.90	96.56	51.692	
11,600.00	7,173.05	6,984.37	6,980.16	79.75	16.08	87.44	-761.37	-3,439.44	5,053.08	4,954.59	98.49	51.306	
11,700.00	7,170.92	6,978.76	6,974.54	81.61	16.06	87.36	-761.57	-3,439.44	5,115.90	5,015.49	100.42	50.946	
11,800.00	7,168.80	6,973.14	6,968.93	83.47	16.05	87.28	-761.77	-3,439.44	5,179.89	5,077.54	102.35	50.610	
11,837.41	7,168.00	6,971.04	6,966.83	84.17	16.05	87.24	-761.84	-3,439.44	5,204.12	5,101.05	103.07	50.490 SF	

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well CAMP 38N-26HZR
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	25' RKB + 5014' GL @ 5039.00ft
Reference Site:	WELD_CAMP 5 PAD	MD Reference:	25' RKB + 5014' GL @ 5039.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	CAMP 38N-26HZR	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	CAMP 38N-26HZR	Database:	edmp
Reference Design:	CAMP 38N-26HZR (wp04) H&P 307	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 25' RKB + 5014' GL @ 5039.00ft

Offset Depths are relative to Offset Datum

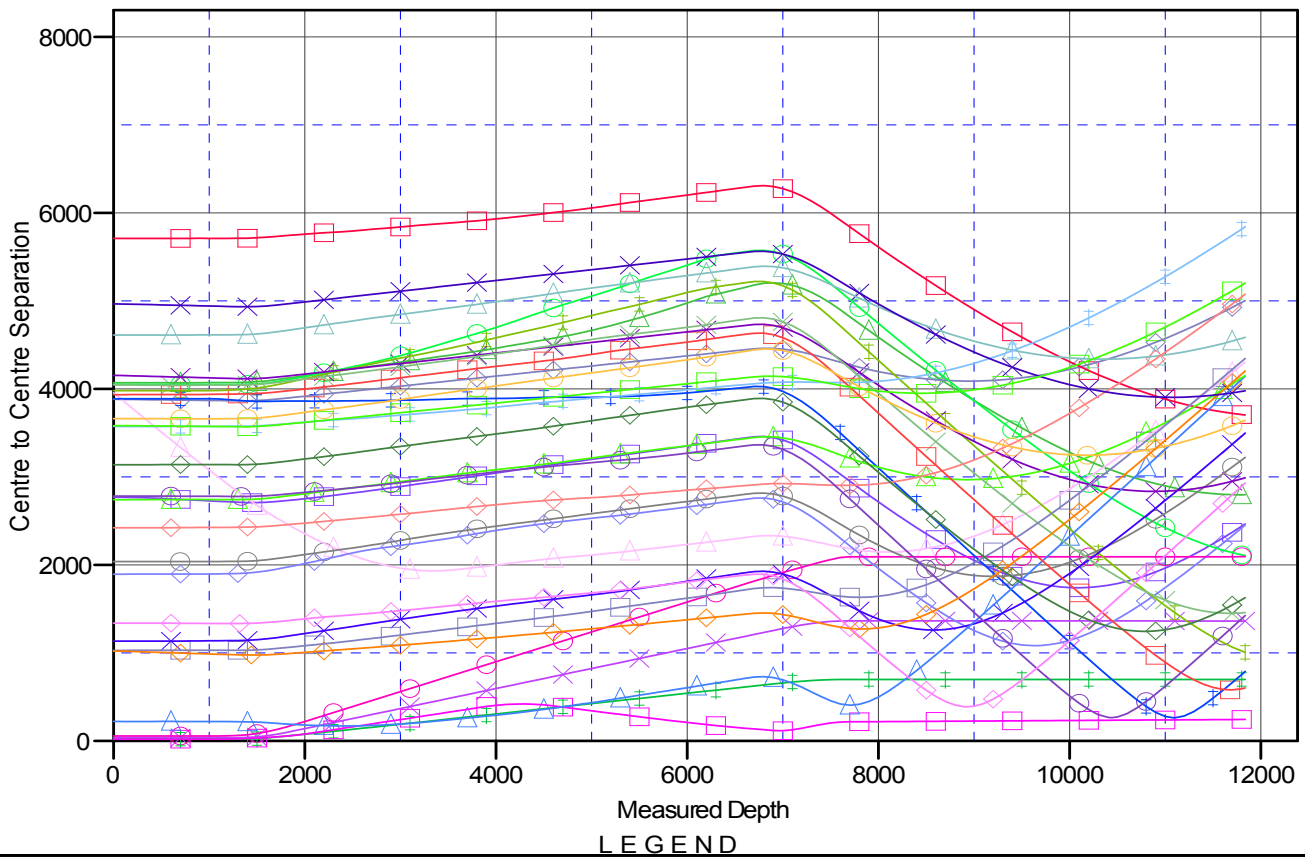
Central Meridian is -105.500000

Coordinates are relative to: CAMP 38N-26HZR

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.49°

Ladder Plot



<ul style="list-style-type: none"> CAMP 38C-26HZ, CAMP 38C-26HZ, CAMP 38C-26HZ (wp03) H&P 307 V0 CAMP 39-26 offset, CAMP 39-26, CAMP 39-26 V0 CAMP 7-26 offset, CAMP 7-26, CAMP 7-26 V0 CAMP LEWIS C 1 offset, CAMP LEWIS C 1, CAMP LEWIS C 1 V0 HSR-BEIERIE 14-26 offset, HSR-BEIERIE 14-26, HSR-BEIERIE 14-26 V0 HSR-BLACKFORD 1-26 offset, HSR-BLACKFORD 1-26, HSR-BLACKFORD 1-26 V0 HSR-CAMPBELL 12-26A offset, HSR-CAMPBELL 12-26A, HSR-CAMPBELL 12-26A V0 HSR-FOGELMAN 6-26 offset, HSR-FOGELMAN 6-26, HSR-FOGELMAN 6-26 V0 HSR-MILLS 15-26 offset, HSR-MILLS 15-26, HSR-MILLS 15-26 V0 HSR-ROZEMA 4-26 offset, HSR-ROZEMA 4-26, HSR-ROZEMA 4-26 V0 	<ul style="list-style-type: none"> HSR-SHOWALTER 16-26 HSR-Sinton 2-26 offset, HSR-Sinton 2-26, HSR-Sinton 2-26 V0 HSR-SKELLY 9-26 offset, HSR-SKELLY 9-26, HSR-SKELLY 9-26 V0 HSR-STUBBEN 11-26 offset, HSR-STUBBEN 11-26, HSR-STUBBEN 11-26 V0 HSR-TERRY 8-26 offset, HSR-TERRY 8-26, HSR-TERRY 8-26 V0 HSR-THOMPSON 2-26 offset, HSR-THOMPSON 2-26, HSR-THOMPSON 2-26 V0 JV SHIELDS GAS 1 offset, JV SHIELDS GAS 1, JV SHIELDS GAS 1 V0 LEWIS CAMP-C2 offset, LEWIS CAMP-C2, LEWIS CAMP-C2 V0 SHIELDS JV 2 offset, SHIELDS JV 2, SHIELDS JV 2 V0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anadarko Petroleum Corp

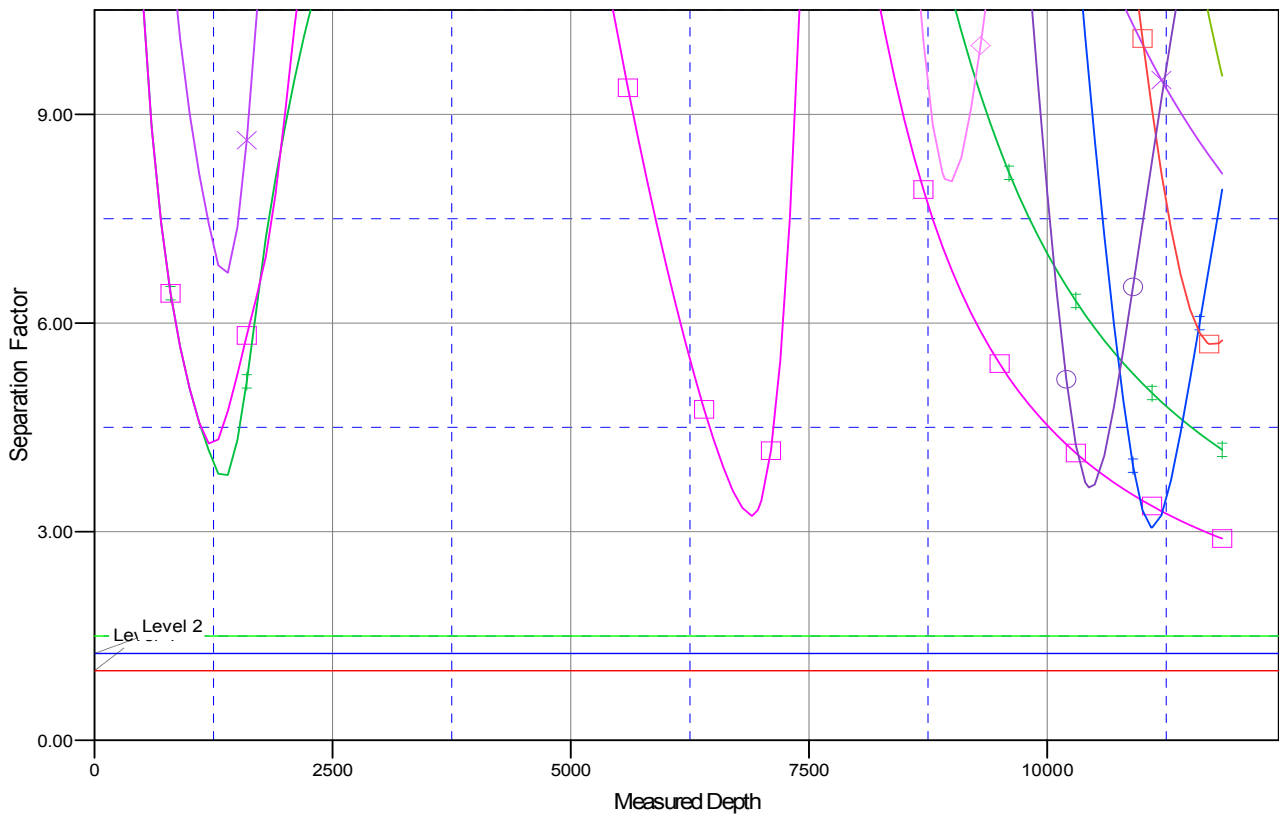
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Separation Factor Plot



LEGEND

<ul style="list-style-type: none"> CAMP 38C-26HZ, CAMP 38C-26HZ, CAMP 38C-26HZ (wp03) H&P 307 V0 CAMP 39-26 offset, CAMP 39-26, CAMP 39-26 V0 CAMP 7-26 offset, CAMP 7-26, CAMP 7-26 V0 CAMP LEWIS C 1 offset, CAMP LEWIS C 1, CAMP LEWIS C 1 V0 HSR-BEIERIE 14-26 offset, HSR-BEIERIE 14-26, HSR-BEIERIE 14-26 V0 HSR-BLACKFORD 1-26 offset, HSR-BLACKFORD 1-26, HSR-BLACKFORD 1-26 V0 HSR-CAMPBELL 12-26A offset, HSR-CAMPBELL 12-26A, HSR-CAMPBELL 12-26A V0 HSR-FOGELMAN 6-26 offset, HSR-FOGELMAN 6-26, HSR-FOGELMAN 6-26 V0 HSR-MILLS 15-26 offset, HSR-MILLS 15-26, HSR-MILLS 15-26 V0 HSR-ROZEIMA 4-26 offset, HSR-ROZEIMA 4-26, HSR-ROZEIMA 4-26 V0 	<ul style="list-style-type: none"> HSR-SHOWALTER 16-26 HSR-Sinton 2-26 offset, HS HSR-SKELLY 9-26 offset, H HSR-STUBBEN 11-26 offset, H HSR-TERRY 8-26 offset, H HSR-THOMPSON 2-26 offset, H JV SHIELDS GAS 1 offset, H LEWIS CAMP-C2 offset, LI SHIELDS JV 2 offset, SHIE
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