

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

ADAMS_VENTURERS 41 PAD

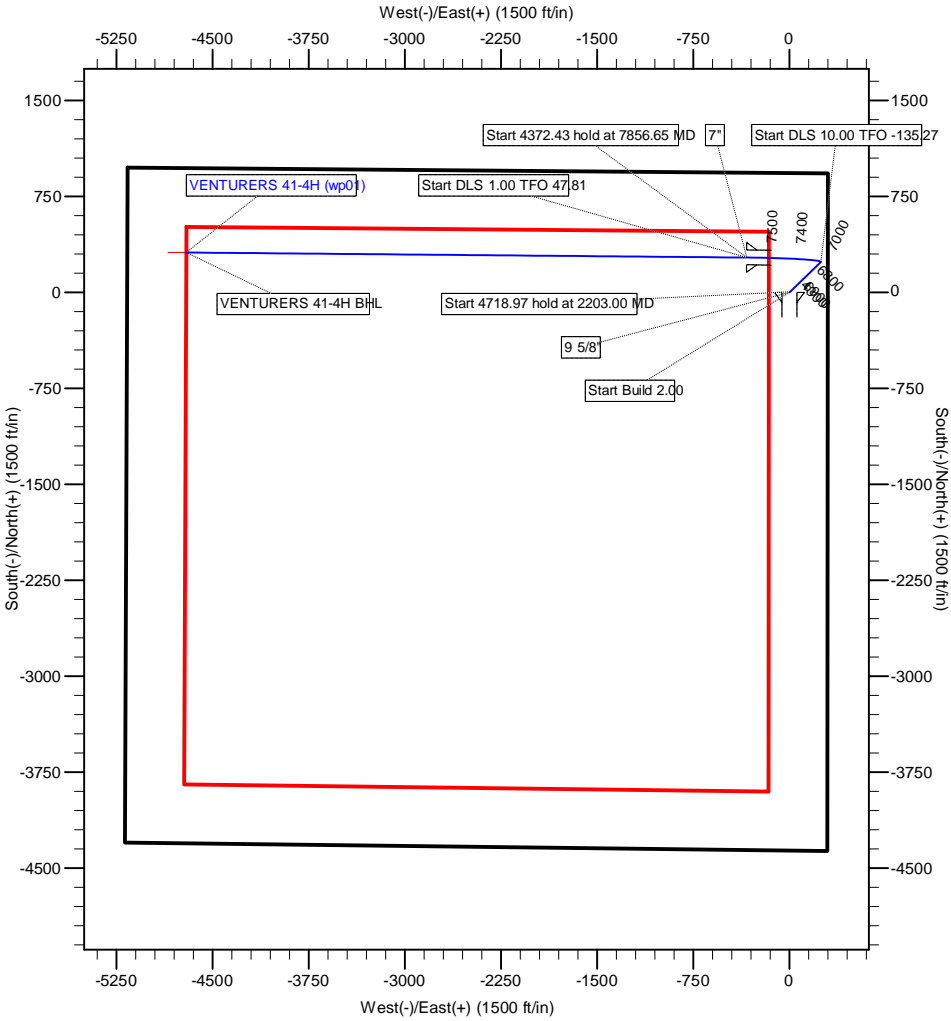
VENTURERS 41-4H

VENTURERS 41-4H

Plan: VENTURERS 41-4H (wp01)

Standard Planning Report

10 January, 2012



Azimuths to True North
Magnetic North: 8.64°

Magnetic Field
Strength: 52758.1snT
Dip Angle: 66.56°
Date: 1/10/2012
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: ADAMS VENTURERS 41 PAD
Well: VENTURERS 41-4H
Wellbore: VENTURERS 41-4H
Section:
SHL:
Design: VENTURERS 41-4H (wp01)
Latitude: 39.780536
Longitude: -104.584471
GL: 5446.00
KB: WELL @ 5471.00ft (Original Well Elev)

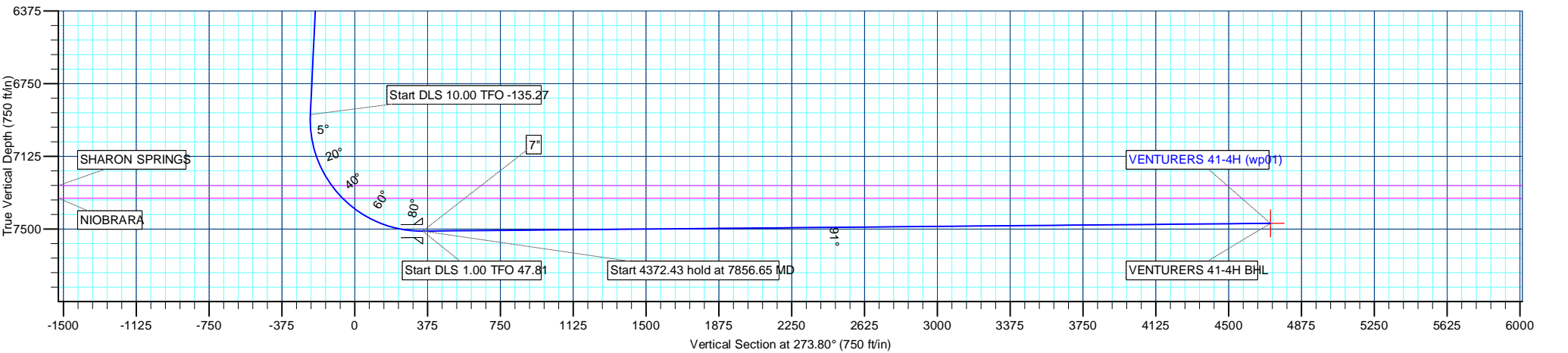
WELL DETAILS: VENTURERS 41-4H						
+N/-S	+E/-W	Northing	Ground Level: Easting	5446.00 Latitude	39.780536 Longitude	Slot
0.00	0.00	1164230.80	3257309.56		-104.584471	

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
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
2203.00	4.06	45.88	2202.83	5.01	5.16	2.00	45.88	-4.82
6921.97	4.06	45.88	6909.96	237.61	245.00	0.00	0.00	-228.73
7856.05	90.52	270.51	7511.00	273.00	-332.13	10.00	-135.27	349.48
7856.65	90.52	270.51	7510.99	273.01	-332.74	1.00	47.81	350.09
12229.09	90.52	270.51	7471.00	312.27	-4704.81	0.00	0.00	4715.16

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
VENTURERS 41-4H BHL	7471.00	312.27	-4704.81	39.781392	-104.601211	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1561.00	1561.00	FOX HILLS
3971.00	3975.62	PARKMAN
4991.00	4998.18	SUSSEX
5361.00	5359.09	SHANNON
7276.00	7311.91	SHARON SPRINGS
7341.00	7397.43	NIOBRARA

CASING DETAILS			
TVD	MD	Name	Size
1710.00	1710.00	9 5/8"	9-5/8
7511.00	7856.05	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-4H		
Design:	VENTURERS 41-4H (wp01)		

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	ADAMS_VENTURERS 41 PAD			
Site Position:		Northing:	1,164,230.80 usft	Latitude: 39.780536
From:	Lat/Long	Easting:	3,257,309.56 usft	Longitude: -104.584471
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.59 °

Well	VENTURERS 41-4H			
Well Position	+N/-S	-0.01 ft	Northing:	1,164,230.79 usft
	+E/-W	0.00 ft	Easting:	3,257,309.56 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,446.00 ft

Wellbore	VENTURERS 41-4H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/10/2012	8.64	66.56	52,758

Design	VENTURERS 41-4H (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	273.80

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,203.00	4.06	45.88	2,202.83	5.01	5.16	2.00	2.00	0.00	45.88	
6,921.97	4.06	45.88	6,909.96	237.61	245.00	0.00	0.00	0.00	0.00	
7,856.05	90.52	270.51	7,511.00	273.00	-332.13	10.00	9.26	-14.49	-135.27	
7,856.65	90.52	270.51	7,510.99	273.01	-332.74	1.00	0.67	0.74	47.81	
12,229.09	90.52	270.51	7,471.00	312.27	-4,704.81	0.00	0.00	0.00	0.00	VENTURERS 41-4H I

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-4H		
Design:	VENTURERS 41-4H (wp01)		

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
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
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,561.00	0.00	0.00	1,561.00	0.00	0.00	0.00	0.00	0.00	0.00
FOX HILLS									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,710.00	0.00	0.00	1,710.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
2,100.00	2.00	45.88	2,099.98	1.21	1.25	-1.17	2.00	2.00	0.00
2,200.00	4.00	45.88	2,199.84	4.86	5.01	-4.68	2.00	2.00	0.00
2,203.00	4.06	45.88	2,202.83	5.01	5.16	-4.82	2.00	2.00	0.00
Start 4718.97 hold at 2203.00 MD									
2,300.00	4.06	45.88	2,299.59	9.79	10.09	-9.42	0.00	0.00	0.00
2,400.00	4.06	45.88	2,399.34	14.72	15.17	-14.17	0.00	0.00	0.00
2,500.00	4.06	45.88	2,499.08	19.64	20.26	-18.91	0.00	0.00	0.00
2,600.00	4.06	45.88	2,598.83	24.57	25.34	-23.66	0.00	0.00	0.00
2,700.00	4.06	45.88	2,698.58	29.50	30.42	-28.40	0.00	0.00	0.00
2,800.00	4.06	45.88	2,798.33	34.43	35.50	-33.15	0.00	0.00	0.00
2,900.00	4.06	45.88	2,898.08	39.36	40.59	-37.89	0.00	0.00	0.00
3,000.00	4.06	45.88	2,997.83	44.29	45.67	-42.63	0.00	0.00	0.00
3,100.00	4.06	45.88	3,097.58	49.22	50.75	-47.38	0.00	0.00	0.00
3,200.00	4.06	45.88	3,197.33	54.15	55.83	-52.12	0.00	0.00	0.00
3,300.00	4.06	45.88	3,297.08	59.08	60.92	-56.87	0.00	0.00	0.00
3,400.00	4.06	45.88	3,396.83	64.01	66.00	-61.61	0.00	0.00	0.00
3,500.00	4.06	45.88	3,496.58	68.94	71.08	-66.36	0.00	0.00	0.00
3,600.00	4.06	45.88	3,596.32	73.87	76.16	-71.10	0.00	0.00	0.00
3,700.00	4.06	45.88	3,696.07	78.80	81.25	-75.85	0.00	0.00	0.00
3,800.00	4.06	45.88	3,795.82	83.72	86.33	-80.59	0.00	0.00	0.00
3,900.00	4.06	45.88	3,895.57	88.65	91.41	-85.34	0.00	0.00	0.00
3,975.62	4.06	45.88	3,971.00	92.38	95.25	-88.93	0.00	0.00	0.00
PARKMAN									
4,000.00	4.06	45.88	3,995.32	93.58	96.49	-90.08	0.00	0.00	0.00
4,100.00	4.06	45.88	4,095.07	98.51	101.58	-94.83	0.00	0.00	0.00
4,200.00	4.06	45.88	4,194.82	103.44	106.66	-99.57	0.00	0.00	0.00
4,300.00	4.06	45.88	4,294.57	108.37	111.74	-104.32	0.00	0.00	0.00
4,400.00	4.06	45.88	4,394.32	113.30	116.82	-109.06	0.00	0.00	0.00

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Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-4H		
Design:	VENTURERS 41-4H (wp01)		

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)
4,500.00	4.06	45.88	4,494.07	118.23	121.91	-113.81	0.00	0.00	0.00
4,600.00	4.06	45.88	4,593.81	123.16	126.99	-118.55	0.00	0.00	0.00
4,700.00	4.06	45.88	4,693.56	128.09	132.07	-123.30	0.00	0.00	0.00
4,800.00	4.06	45.88	4,793.31	133.02	137.15	-128.04	0.00	0.00	0.00
4,900.00	4.06	45.88	4,893.06	137.95	142.24	-132.79	0.00	0.00	0.00
4,998.18	4.06	45.88	4,991.00	142.79	147.23	-137.45	0.00	0.00	0.00
SUSSEX									
5,000.00	4.06	45.88	4,992.81	142.88	147.32	-137.53	0.00	0.00	0.00
5,100.00	4.06	45.88	5,092.56	147.80	152.40	-142.28	0.00	0.00	0.00
5,200.00	4.06	45.88	5,192.31	152.73	157.48	-147.02	0.00	0.00	0.00
5,300.00	4.06	45.88	5,292.06	157.66	162.57	-151.77	0.00	0.00	0.00
5,359.09	4.06	45.88	5,351.00	160.58	165.57	-154.57	0.00	0.00	0.00
SHANNON									
5,400.00	4.06	45.88	5,391.81	162.59	167.65	-156.51	0.00	0.00	0.00
5,500.00	4.06	45.88	5,491.56	167.52	172.73	-161.26	0.00	0.00	0.00
5,600.00	4.06	45.88	5,591.31	172.45	177.81	-166.00	0.00	0.00	0.00
5,700.00	4.06	45.88	5,691.05	177.38	182.90	-170.75	0.00	0.00	0.00
5,800.00	4.06	45.88	5,790.80	182.31	187.98	-175.49	0.00	0.00	0.00
5,900.00	4.06	45.88	5,890.55	187.24	193.06	-180.24	0.00	0.00	0.00
6,000.00	4.06	45.88	5,990.30	192.17	198.14	-184.98	0.00	0.00	0.00
6,100.00	4.06	45.88	6,090.05	197.10	203.23	-189.73	0.00	0.00	0.00
6,200.00	4.06	45.88	6,189.80	202.03	208.31	-194.47	0.00	0.00	0.00
6,300.00	4.06	45.88	6,289.55	206.96	213.39	-199.22	0.00	0.00	0.00
6,400.00	4.06	45.88	6,389.30	211.88	218.47	-203.96	0.00	0.00	0.00
6,500.00	4.06	45.88	6,489.05	216.81	223.56	-208.71	0.00	0.00	0.00
6,600.00	4.06	45.88	6,588.80	221.74	228.64	-213.45	0.00	0.00	0.00
6,700.00	4.06	45.88	6,688.54	226.67	233.72	-218.20	0.00	0.00	0.00
6,800.00	4.06	45.88	6,788.29	231.60	238.80	-222.94	0.00	0.00	0.00
6,900.00	4.06	45.88	6,888.04	236.53	243.89	-227.69	0.00	0.00	0.00
6,921.97	4.06	45.88	6,909.96	237.61	245.00	-228.73	0.00	0.00	0.00
Start DLS 10.00 TFO -135.27									
7,000.00	5.68	300.62	6,987.82	241.51	243.66	-227.13	10.00	2.08	-134.89
7,100.00	15.18	281.13	7,086.08	246.57	226.51	-209.68	10.00	9.50	-19.49
7,200.00	25.07	276.66	7,179.86	251.57	192.53	-175.45	10.00	9.89	-4.47
7,300.00	35.02	274.62	7,266.32	256.35	142.76	-125.47	10.00	9.95	-2.04
7,311.91	36.20	274.44	7,276.00	256.90	135.85	-118.54	10.00	9.96	-1.47
SHARON SPRINGS									
7,397.43	44.73	273.42	7,341.00	260.66	80.53	-63.09	10.00	9.97	-1.19
NIOBRARA									
7,400.00	44.99	273.40	7,342.82	260.77	78.72	-61.27	10.00	9.98	-1.00
7,500.00	54.97	272.54	7,407.05	264.69	2.34	15.20	10.00	9.98	-0.86
7,600.00	64.95	271.87	7,457.05	267.99	-84.06	101.62	10.00	9.98	-0.67
7,700.00	74.94	271.31	7,491.31	270.57	-177.84	195.37	10.00	9.99	-0.57
7,800.00	84.92	270.79	7,508.77	272.37	-276.15	293.59	10.00	9.99	-0.52
7,856.05	90.52	270.51	7,511.00	273.00	-332.13	349.49	10.00	9.99	-0.50
Start DLS 1.00 TFO 47.81 - 7"									
7,856.65	90.52	270.51	7,510.99	273.01	-332.74	350.09	1.01	0.68	0.75
Start 4372.43 hold at 7856.65 MD									
7,900.00	90.52	270.51	7,510.60	273.39	-376.08	393.36	0.00	0.00	0.00
8,000.00	90.52	270.51	7,509.68	274.29	-476.07	493.19	0.00	0.00	0.00
8,100.00	90.52	270.51	7,508.77	275.19	-576.06	593.02	0.00	0.00	0.00
8,200.00	90.52	270.51	7,507.85	276.09	-676.06	692.86	0.00	0.00	0.00
8,300.00	90.52	270.51	7,506.94	276.99	-776.05	792.69	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
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Wellbore:	VENTURERS 41-4H		
Design:	VENTURERS 41-4H (wp01)		

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)	
8,400.00	90.52	270.51	7,506.02	277.88	-876.04	892.52	0.00	0.00	0.00	
8,500.00	90.52	270.51	7,505.11	278.78	-976.03	992.35	0.00	0.00	0.00	
8,600.00	90.52	270.51	7,504.20	279.68	-1,076.02	1,092.18	0.00	0.00	0.00	
8,700.00	90.52	270.51	7,503.28	280.58	-1,176.02	1,192.02	0.00	0.00	0.00	
8,800.00	90.52	270.51	7,502.37	281.48	-1,276.01	1,291.85	0.00	0.00	0.00	
8,900.00	90.52	270.51	7,501.45	282.37	-1,376.00	1,391.68	0.00	0.00	0.00	
9,000.00	90.52	270.51	7,500.54	283.27	-1,475.99	1,491.51	0.00	0.00	0.00	
9,100.00	90.52	270.51	7,499.62	284.17	-1,575.98	1,591.34	0.00	0.00	0.00	
9,200.00	90.52	270.51	7,498.71	285.07	-1,675.97	1,691.17	0.00	0.00	0.00	
9,300.00	90.52	270.51	7,497.79	285.97	-1,775.97	1,791.01	0.00	0.00	0.00	
9,400.00	90.52	270.51	7,496.88	286.86	-1,875.96	1,890.84	0.00	0.00	0.00	
9,500.00	90.52	270.51	7,495.96	287.76	-1,975.95	1,990.67	0.00	0.00	0.00	
9,600.00	90.52	270.51	7,495.05	288.66	-2,075.94	2,090.50	0.00	0.00	0.00	
9,700.00	90.52	270.51	7,494.13	289.56	-2,175.93	2,190.33	0.00	0.00	0.00	
9,800.00	90.52	270.51	7,493.22	290.46	-2,275.92	2,290.16	0.00	0.00	0.00	
9,900.00	90.52	270.51	7,492.30	291.35	-2,375.92	2,390.00	0.00	0.00	0.00	
10,000.00	90.52	270.51	7,491.39	292.25	-2,475.91	2,489.83	0.00	0.00	0.00	
10,100.00	90.52	270.51	7,490.47	293.15	-2,575.90	2,589.66	0.00	0.00	0.00	
10,200.00	90.52	270.51	7,489.56	294.05	-2,675.89	2,689.49	0.00	0.00	0.00	
10,300.00	90.52	270.51	7,488.65	294.95	-2,775.88	2,789.32	0.00	0.00	0.00	
10,400.00	90.52	270.51	7,487.73	295.84	-2,875.88	2,889.15	0.00	0.00	0.00	
10,500.00	90.52	270.51	7,486.82	296.74	-2,975.87	2,988.99	0.00	0.00	0.00	
10,600.00	90.52	270.51	7,485.90	297.64	-3,075.86	3,088.82	0.00	0.00	0.00	
10,700.00	90.52	270.51	7,484.99	298.54	-3,175.85	3,188.65	0.00	0.00	0.00	
10,800.00	90.52	270.51	7,484.07	299.43	-3,275.84	3,288.48	0.00	0.00	0.00	
10,900.00	90.52	270.51	7,483.16	300.33	-3,375.83	3,388.31	0.00	0.00	0.00	
11,000.00	90.52	270.51	7,482.24	301.23	-3,475.83	3,488.15	0.00	0.00	0.00	
11,100.00	90.52	270.51	7,481.33	302.13	-3,575.82	3,587.98	0.00	0.00	0.00	
11,200.00	90.52	270.51	7,480.41	303.03	-3,675.81	3,687.81	0.00	0.00	0.00	
11,300.00	90.52	270.51	7,479.50	303.92	-3,775.80	3,787.64	0.00	0.00	0.00	
11,400.00	90.52	270.51	7,478.58	304.82	-3,875.79	3,887.47	0.00	0.00	0.00	
11,500.00	90.52	270.51	7,477.67	305.72	-3,975.79	3,987.30	0.00	0.00	0.00	
11,600.00	90.52	270.51	7,476.75	306.62	-4,075.78	4,087.14	0.00	0.00	0.00	
11,700.00	90.52	270.51	7,475.84	307.52	-4,175.77	4,186.97	0.00	0.00	0.00	
11,800.00	90.52	270.51	7,474.93	308.41	-4,275.76	4,286.80	0.00	0.00	0.00	
11,900.00	90.52	270.51	7,474.01	309.31	-4,375.75	4,386.63	0.00	0.00	0.00	
12,000.00	90.52	270.51	7,473.10	310.21	-4,475.74	4,486.46	0.00	0.00	0.00	
12,100.00	90.52	270.51	7,472.18	311.11	-4,575.74	4,586.29	0.00	0.00	0.00	
12,200.00	90.52	270.51	7,471.27	312.01	-4,675.73	4,686.13	0.00	0.00	0.00	
12,229.09	90.52	270.51	7,471.00	312.27	-4,704.81	4,715.17	0.00	0.00	0.00	
TD at 12229.09 - VENTURERS 41-4H BHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VENTURERS 41-4H BH	0.00	0.00	7,471.00	312.27	-4,704.81	1,164,494.47	3,252,601.78	39.781392	-104.601211
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-4H		
Design:	VENTURERS 41-4H (wp01)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,710.00	1,710.00	9 5/8"	9-5/8	12-1/4	
7,856.05	7,511.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,561.00	1,561.00	FOX HILLS		0.00	
3,975.62	3,971.00	PARKMAN		0.00	
4,998.18	4,991.00	SUSSEX		0.00	
5,359.09	5,351.00	SHANNON		0.00	
7,311.91	7,276.00	SHARON SPRINGS		0.00	
7,397.43	7,341.00	NIOBRARA		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.00	2,000.00	0.00	0.00	Start Build 2.00	
2,203.00	2,202.83	5.01	5.16	Start 4718.97 hold at 2203.00 MD	
6,921.97	6,909.96	237.61	245.00	Start DLS 10.00 TFO -135.27	
7,856.05	7,511.00	273.00	-332.13	Start DLS 1.00 TFO 47.81	
7,856.65	7,510.99	273.01	-332.74	Start 4372.43 hold at 7856.65 MD	
12,229.09	7,471.00	312.27	-4,704.81	TD at 12229.09	

US ROCKIES REGION PLANNING

**COLORADO NORTHERN ZONE - 83
ADAMS_VENTURERS 41 PAD
VENTURERS 41-4H**

**VENTURERS 41-4H
VENTURERS 41-4H (wp01)**

Anticollision Report

10 January, 2012

Anadarko Petroleum Corp

Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Reference Site:	ADAMS_VENTURERS 41 PAD	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	True
Reference Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	VENTURERS 41-4H	Database:	edmp
Reference Design:	VENTURERS 41-4H (wp01)	Offset TVD Reference:	Offset Datum

Reference	VENTURERS 41-4H (wp01)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
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	1/10/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,228.32	VENTURERS 41-4H (wp01) (VENTURER	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						
ADAMS_VENTURERS 41 PAD						
VENTURERS 41-5H - VENTURERS 41-5H - VENTURER	2,000.00	2,000.00	30.23	21.52	3.471	CC, ES, SF

Offset Design	ADAMS_VENTURERS 41 PAD - VENTURERS 41-5H - VENTURERS 41-5H - VENTURERS 41-5H (wp												Offset Site Error:	0.00 ft
Survey Program:	0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		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	-180.00	-30.23	0.00	30.23					
100.00	100.00	100.00	100.00	0.08	0.08	-180.00	-30.23	0.00	30.23	30.07	0.17	179.353		
200.00	200.00	200.00	200.00	0.31	0.31	-180.00	-30.23	0.00	30.23	29.62	0.62	48.914		
300.00	300.00	300.00	300.00	0.53	0.53	-180.00	-30.23	0.00	30.23	29.17	1.07	28.319		
400.00	400.00	400.00	400.00	0.76	0.76	-180.00	-30.23	0.00	30.23	28.72	1.52	19.928		
500.00	500.00	500.00	500.00	0.98	0.98	-180.00	-30.23	0.00	30.23	28.27	1.97	15.373		
600.00	600.00	600.00	600.00	1.21	1.21	-180.00	-30.23	0.00	30.23	27.82	2.42	12.513		
700.00	700.00	700.00	700.00	1.43	1.43	-180.00	-30.23	0.00	30.23	27.37	2.87	10.550		
800.00	800.00	800.00	800.00	1.66	1.66	-180.00	-30.23	0.00	30.23	26.92	3.32	9.120		
900.00	900.00	900.00	900.00	1.88	1.88	-180.00	-30.23	0.00	30.23	26.47	3.76	8.031		
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-180.00	-30.23	0.00	30.23	26.02	4.21	7.174		
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	-180.00	-30.23	0.00	30.23	25.57	4.66	6.483		
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	-180.00	-30.23	0.00	30.23	25.12	5.11	5.913		
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	-180.00	-30.23	0.00	30.23	24.67	5.56	5.435		
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	-180.00	-30.23	0.00	30.23	24.22	6.01	5.029		
1,500.00	1,500.00	1,500.00	1,500.00	3.23	3.23	-180.00	-30.23	0.00	30.23	23.77	6.46	4.679		
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	-180.00	-30.23	0.00	30.23	23.32	6.91	4.374		
1,700.00	1,700.00	1,700.00	1,700.00	3.68	3.68	-180.00	-30.23	0.00	30.23	22.87	7.36	4.107		
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	-180.00	-30.23	0.00	30.23	22.42	7.81	3.871		
1,900.00	1,900.00	1,900.00	1,900.00	4.13	4.13	-180.00	-30.23	0.00	30.23	21.97	8.26	3.660		
2,000.00	2,000.00	2,000.00	2,000.00	4.35	4.35	-180.00	-30.23	0.00	30.23	21.52	8.71	3.471	CC, ES, SF	
2,100.00	2,099.98	2,098.90	2,098.88	4.58	4.55	135.46	-31.88	0.45	33.13	24.00	9.12	3.631		
2,200.00	2,199.84	2,197.28	2,197.12	4.79	4.72	138.32	-36.79	1.77	41.86	32.36	9.50	4.406		
2,300.00	2,299.59	2,294.82	2,294.30	5.02	4.89	140.20	-44.87	3.96	55.25	45.36	9.89	5.585		
2,400.00	2,399.34	2,391.46	2,390.24	5.24	5.08	140.33	-56.01	6.97	71.78	61.49	10.29	6.976		
2,500.00	2,499.08	2,486.98	2,484.64	5.47	5.28	139.66	-70.09	10.78	91.39	80.69	10.69	8.546		

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 VENTURERS 41-4H
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Reference Site:	ADAMS_VENTURERS 41 PAD	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	True
Reference Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	VENTURERS 41-4H	Database:	edmp
Reference Design:	VENTURERS 41-4H (wp01)	Offset TVD Reference:	Offset Datum

Offset Design ADAMS_VENTURERS 41 PAD - VENTURERS 41-5H - VENTURERS 41-5H - VENTURERS 41-5H (wp													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		
2,600.00	2,598.83	2,581.53	2,577.54	5.70	5.50	138.65	-87.00	15.36	114.02	102.92	11.10	10.270		
2,700.00	2,698.58	2,678.61	2,672.69	5.93	5.76	137.78	-105.61	20.39	137.93	126.41	11.52	11.968		
2,800.00	2,798.33	2,775.69	2,767.84	6.17	6.04	137.16	-124.21	25.42	161.86	149.91	11.95	13.541		
2,900.00	2,898.08	2,872.77	2,862.99	6.40	6.33	136.70	-142.82	30.46	185.80	173.41	12.39	14.998		
3,000.00	2,997.83	2,969.86	2,958.14	6.64	6.64	136.34	-161.42	35.49	209.75	196.92	12.83	16.349		
3,100.00	3,097.58	3,066.94	3,053.29	6.88	6.96	136.06	-180.03	40.52	233.71	220.44	13.28	17.605		
3,200.00	3,197.33	3,164.02	3,148.44	7.12	7.29	135.83	-198.63	45.56	257.67	243.95	13.73	18.773		
3,300.00	3,297.08	3,261.10	3,243.59	7.36	7.63	135.64	-217.24	50.59	281.64	267.46	14.18	19.862		
3,400.00	3,396.83	3,358.19	3,338.74	7.60	7.98	135.48	-235.84	55.62	305.60	290.96	14.64	20.878		
3,500.00	3,496.58	3,455.27	3,433.89	7.85	8.34	135.34	-254.45	60.66	329.57	314.47	15.10	21.827		
3,600.00	3,596.32	3,552.35	3,529.04	8.09	8.70	135.23	-273.06	65.69	353.54	337.98	15.56	22.715		
3,700.00	3,696.07	3,649.43	3,624.19	8.34	9.08	135.12	-291.66	70.72	377.51	361.48	16.03	23.548		
3,800.00	3,795.82	3,746.51	3,719.34	8.58	9.45	135.03	-310.27	75.76	401.49	384.98	16.50	24.330		
3,900.00	3,895.57	3,843.60	3,814.49	8.83	9.83	134.95	-328.87	80.79	425.46	408.48	16.97	25.065		
4,000.00	3,995.32	3,940.68	3,909.64	9.08	10.22	134.88	-347.48	85.82	449.43	431.98	17.45	25.757		
4,100.00	4,095.07	4,037.76	4,004.79	9.33	10.60	134.81	-366.08	90.86	473.41	455.48	17.93	26.409		
4,200.00	4,194.82	4,134.84	4,099.94	9.58	10.99	134.75	-384.69	95.89	497.38	478.98	18.40	27.025		
4,300.00	4,294.57	4,231.93	4,195.09	9.82	11.39	134.70	-403.29	100.92	521.36	502.47	18.88	27.607		
4,400.00	4,394.32	4,329.01	4,290.24	10.07	11.78	134.65	-421.90	105.96	545.33	525.97	19.37	28.159		
4,500.00	4,494.07	4,426.09	4,385.39	10.32	12.18	134.61	-440.51	110.99	569.31	549.46	19.85	28.681		
4,600.00	4,593.81	4,523.17	4,480.54	10.58	12.58	134.57	-459.11	116.02	593.29	572.95	20.33	29.176		
4,700.00	4,693.56	4,620.25	4,575.69	10.83	12.99	134.53	-477.72	121.06	617.26	596.44	20.82	29.647		
4,800.00	4,793.31	4,717.34	4,670.84	11.08	13.39	134.49	-496.32	126.09	641.24	619.93	21.31	30.094		
4,900.00	4,893.06	4,814.42	4,765.99	11.33	13.80	134.46	-514.93	131.12	665.22	643.42	21.80	30.520		
5,000.00	4,992.81	4,911.50	4,861.14	11.58	14.20	134.43	-533.53	136.16	689.20	666.91	22.29	30.926		
5,100.00	5,092.56	5,008.58	4,956.29	11.83	14.61	134.40	-552.14	141.19	713.17	690.40	22.78	31.313		
5,200.00	5,192.31	5,105.67	5,051.44	12.08	15.02	134.38	-570.74	146.22	737.15	713.89	23.27	31.683		
5,300.00	5,292.06	5,202.75	5,146.59	12.34	15.43	134.35	-589.35	151.26	761.13	737.37	23.76	32.036		
5,400.00	5,391.81	5,299.83	5,241.74	12.59	15.85	134.33	-607.96	156.29	785.11	760.86	24.25	32.374		
5,500.00	5,491.56	5,396.91	5,336.88	12.84	16.26	134.31	-626.56	161.32	809.09	784.34	24.74	32.697		
5,600.00	5,591.31	5,493.99	5,432.03	13.10	16.67	134.29	-645.17	166.36	833.06	807.83	25.24	33.007		
5,700.00	5,691.05	5,591.08	5,527.18	13.35	17.09	134.27	-663.77	171.39	857.04	831.31	25.73	33.304		
5,800.00	5,790.80	5,688.16	5,622.33	13.60	17.50	134.25	-682.38	176.42	881.02	854.79	26.23	33.589		
5,900.00	5,890.55	5,785.24	5,717.48	13.86	17.92	134.23	-700.98	181.46	905.00	878.28	26.73	33.863		
6,000.00	5,990.30	5,882.32	5,812.63	14.11	18.34	134.22	-719.59	186.49	928.98	901.76	27.22	34.126		
6,100.00	6,090.05	5,979.41	5,907.78	14.36	18.76	134.20	-738.19	191.52	952.96	925.24	27.72	34.379		
6,200.00	6,189.80	6,076.49	6,002.93	14.62	19.17	134.19	-756.80	196.56	976.94	948.72	28.22	34.623		
6,300.00	6,289.55	6,173.57	6,098.08	14.87	19.59	134.17	-775.41	201.59	1,000.92	972.20	28.71	34.858		
6,400.00	6,389.30	6,270.65	6,193.23	15.13	20.01	134.16	-794.01	206.62	1,024.89	995.68	29.21	35.084		
6,500.00	6,489.05	6,367.73	6,288.38	15.38	20.43	134.14	-812.62	211.66	1,048.87	1,019.16	29.71	35.302		
6,600.00	6,588.80	6,464.82	6,383.53	15.64	20.85	134.13	-831.22	216.69	1,072.85	1,042.64	30.21	35.512		
6,700.00	6,688.54	6,561.90	6,478.68	15.89	21.27	134.12	-849.83	221.72	1,096.83	1,066.12	30.71	35.715		
6,800.00	6,788.29	6,658.98	6,573.83	16.15	21.69	134.11	-868.43	226.76	1,120.81	1,089.60	31.21	35.911		
6,900.00	6,888.04	6,756.06	6,668.98	16.40	22.12	134.10	-887.04	231.79	1,144.79	1,113.08	31.71	36.101		
7,000.00	6,987.82	6,852.89	6,763.88	16.61	22.54	-119.19	-905.59	236.81	1,168.78	1,136.52	32.26	36.228		
7,100.00	7,086.08	6,947.33	6,856.44	16.72	22.95	-98.56	-923.69	241.71	1,192.68	1,159.93	32.75	36.416		
7,200.00	7,179.86	7,039.65	6,946.94	16.77	23.33	-93.62	-941.39	245.77	1,216.65	1,183.50	33.15	36.706		
7,300.00	7,266.32	7,142.76	7,047.63	16.78	23.66	-91.49	-960.97	236.69	1,240.37	1,206.92	33.44	37.087		
7,400.00	7,342.82	7,256.84	7,155.17	16.77	23.93	-90.41	-981.73	205.45	1,262.96	1,229.26	33.70	37.471		
7,500.00	7,407.05	7,384.89	7,265.96	16.92	24.15	-89.94	-1,002.91	145.41	1,283.42	1,249.38	34.05	37.695		
7,600.00	7,457.05	7,529.51	7,371.86	17.51	24.33	-89.88	-1,022.88	49.54	1,300.55	1,265.83	34.72	37.460		
7,700.00	7,491.31	7,691.17	7,458.24	18.38	24.52	-89.99	-1,038.75	-85.55	1,312.99	1,276.86	36.13	36.340		

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 VENTURERS 41-4H
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Reference Site:	ADAMS_VENTURERS 41 PAD	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	True
Reference Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	VENTURERS 41-4H	Database:	edmp
Reference Design:	VENTURERS 41-4H (wp01)	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		
7,800.00	7,508.77	7,865.84	7,506.14	19.50	24.92	-90.05	-1,046.88	-252.62	1,319.45	1,280.76	38.69	34.105		
7,900.00	7,510.60	8,001.40	7,510.50	20.84	25.58	-90.00	-1,046.74	-387.96	1,320.19	1,278.49	41.70	31.662		
8,000.00	7,509.68	8,101.40	7,509.59	22.37	26.41	-90.00	-1,045.84	-487.95	1,320.19	1,275.47	44.72	29.520		
8,100.00	7,508.77	8,201.40	7,508.67	24.07	27.55	-90.00	-1,044.94	-587.95	1,320.19	1,272.08	48.10	27.446		
8,200.00	7,507.85	8,301.40	7,507.76	25.91	28.96	-90.00	-1,044.04	-687.94	1,320.18	1,268.42	51.77	25.502		
8,300.00	7,506.94	8,401.40	7,506.84	27.86	30.58	-90.00	-1,043.14	-787.93	1,320.18	1,264.52	55.66	23.717		
8,400.00	7,506.02	8,501.40	7,505.93	29.90	32.37	-90.00	-1,042.24	-887.92	1,320.18	1,260.44	59.74	22.098		
8,500.00	7,505.11	8,601.40	7,505.02	32.02	34.28	-90.00	-1,041.34	-987.91	1,320.18	1,256.21	63.97	20.637		
8,600.00	7,504.20	8,701.40	7,504.10	34.20	36.29	-90.00	-1,040.44	-1,087.90	1,320.18	1,251.85	68.32	19.323		
8,700.00	7,503.28	8,801.40	7,503.19	36.42	38.37	-90.00	-1,039.54	-1,187.90	1,320.17	1,247.40	72.77	18.141		
8,800.00	7,502.37	8,901.40	7,502.28	38.69	40.51	-90.00	-1,038.64	-1,287.89	1,320.17	1,242.87	77.31	17.077		
8,900.00	7,501.45	9,001.40	7,501.36	40.99	42.71	-90.00	-1,037.74	-1,387.88	1,320.17	1,238.26	81.91	16.118		
9,000.00	7,500.54	9,101.40	7,500.45	43.32	44.94	-90.00	-1,036.84	-1,487.87	1,320.17	1,233.60	86.57	15.250		
9,100.00	7,499.62	9,201.40	7,499.53	45.67	47.21	-90.00	-1,035.94	-1,587.86	1,320.17	1,228.89	91.28	14.463		
9,200.00	7,498.71	9,301.40	7,498.62	48.05	49.51	-90.00	-1,035.04	-1,687.85	1,320.16	1,224.14	96.03	13.748		
9,300.00	7,497.79	9,401.40	7,497.71	50.44	51.83	-90.00	-1,034.14	-1,787.85	1,320.16	1,219.35	100.81	13.095		
9,400.00	7,496.88	9,501.40	7,496.79	52.85	54.18	-90.00	-1,033.24	-1,887.84	1,320.16	1,214.53	105.63	12.498		
9,500.00	7,495.96	9,601.40	7,495.88	55.27	56.54	-90.00	-1,032.34	-1,987.83	1,320.16	1,209.68	110.47	11.950		
9,600.00	7,495.05	9,701.40	7,494.96	57.70	58.92	-90.00	-1,031.44	-2,087.82	1,320.16	1,204.81	115.34	11.446		
9,700.00	7,494.13	9,801.40	7,494.05	60.14	61.32	-90.00	-1,030.54	-2,187.81	1,320.15	1,199.92	120.23	10.980		
9,800.00	7,493.22	9,901.40	7,493.14	62.60	63.73	-90.00	-1,029.64	-2,287.81	1,320.15	1,195.01	125.14	10.550		
9,900.00	7,492.30	10,001.40	7,492.22	65.06	66.15	-90.00	-1,028.74	-2,387.80	1,320.15	1,190.09	130.06	10.150		
10,000.00	7,491.39	10,101.40	7,491.31	67.52	68.58	-90.00	-1,027.84	-2,487.79	1,320.15	1,185.15	135.00	9.779		
10,100.00	7,490.47	10,201.40	7,490.39	70.00	71.02	-90.00	-1,026.94	-2,587.78	1,320.15	1,180.20	139.95	9.433		
10,200.00	7,489.56	10,301.40	7,489.48	72.48	73.46	-90.00	-1,026.04	-2,687.77	1,320.14	1,175.23	144.91	9.110		
10,300.00	7,488.65	10,401.40	7,488.57	74.96	75.92	-90.00	-1,025.14	-2,787.76	1,320.14	1,170.26	149.88	8.808		
10,400.00	7,487.73	10,501.40	7,487.65	77.46	78.38	-90.00	-1,024.24	-2,887.76	1,320.14	1,165.28	154.86	8.525		
10,500.00	7,486.82	10,601.40	7,486.74	79.95	80.85	-90.00	-1,023.34	-2,987.75	1,320.14	1,160.28	159.85	8.258		
10,600.00	7,485.90	10,701.40	7,485.83	82.45	83.32	-90.00	-1,022.44	-3,087.74	1,320.14	1,155.28	164.85	8.008		
10,700.00	7,484.99	10,801.40	7,484.91	84.95	85.80	-90.00	-1,021.54	-3,187.73	1,320.13	1,150.28	169.86	7.772		
10,800.00	7,484.07	10,901.40	7,484.00	87.46	88.28	-90.00	-1,020.64	-3,287.72	1,320.13	1,145.26	174.87	7.549		
10,900.00	7,483.16	11,001.40	7,483.08	89.96	90.76	-90.00	-1,019.74	-3,387.71	1,320.13	1,140.24	179.89	7.339		
11,000.00	7,482.24	11,101.40	7,482.17	92.47	93.25	-90.00	-1,018.84	-3,487.71	1,320.13	1,135.22	184.91	7.139		
11,100.00	7,481.33	11,201.40	7,481.26	94.99	95.75	-90.00	-1,017.94	-3,587.70	1,320.13	1,130.19	189.94	6.950		
11,200.00	7,480.41	11,301.40	7,480.34	97.50	98.24	-90.00	-1,017.04	-3,687.69	1,320.12	1,125.15	194.97	6.771		
11,300.00	7,479.50	11,401.40	7,479.43	100.02	100.74	-90.00	-1,016.14	-3,787.68	1,320.12	1,120.12	200.01	6.600		
11,400.00	7,478.58	11,501.40	7,478.51	102.54	103.25	-90.00	-1,015.24	-3,887.67	1,320.12	1,115.07	205.05	6.438		
11,500.00	7,477.67	11,601.40	7,477.60	105.06	105.75	-90.00	-1,014.34	-3,987.67	1,320.12	1,110.03	210.09	6.284		
11,600.00	7,476.75	11,701.40	7,476.69	107.59	108.26	-90.00	-1,013.44	-4,087.66	1,320.12	1,104.98	215.14	6.136		
11,700.00	7,475.84	11,801.40	7,475.77	110.11	110.77	-90.00	-1,012.54	-4,187.65	1,320.11	1,099.92	220.19	5.995		
11,800.00	7,474.93	11,901.40	7,474.86	112.64	113.28	-90.00	-1,011.64	-4,287.64	1,320.11	1,094.87	225.24	5.861		
11,900.00	7,474.01	12,001.40	7,473.95	115.17	115.80	-90.00	-1,010.74	-4,387.63	1,320.11	1,089.81	230.30	5.732		
12,000.00	7,473.10	12,101.40	7,473.03	117.70	118.31	-90.00	-1,009.84	-4,487.62	1,320.11	1,084.75	235.36	5.609		
12,100.00	7,472.18	12,201.40	7,472.12	120.23	120.83	-90.00	-1,008.94	-4,587.62	1,320.11	1,079.68	240.42	5.491		
12,200.00	7,471.27	12,301.40	7,471.20	122.76	123.35	-90.00	-1,008.04	-4,687.61	1,320.10	1,074.62	245.49	5.377		
12,221.49	7,471.07	12,322.89	7,471.01	123.30	123.89	-90.00	-1,007.85	-4,709.10	1,320.10	1,073.53	246.58	5.354		
12,229.09	7,471.00	12,323.64	7,471.00	123.50	123.91	-90.00	-1,007.84	-4,709.84	1,320.12	1,073.33	246.79	5.349		

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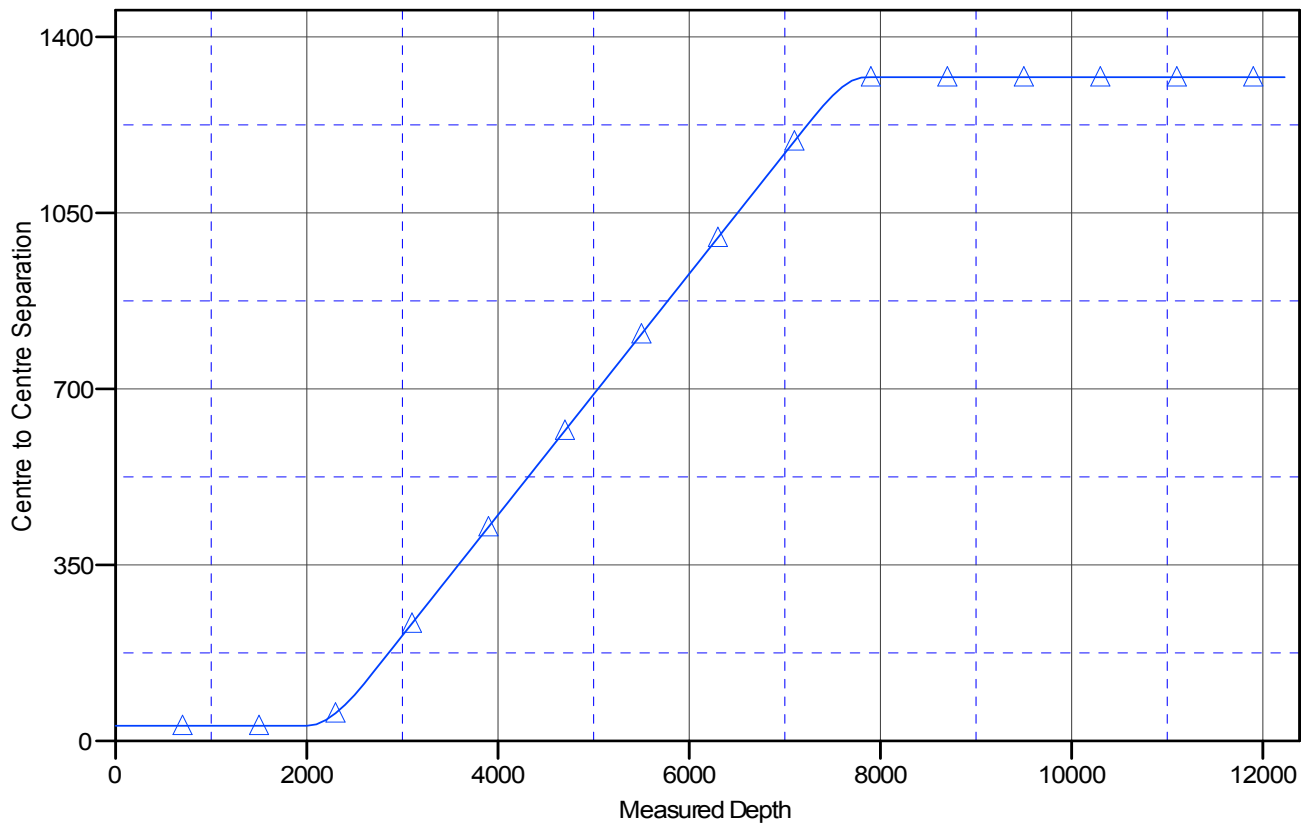
Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Reference Site:	ADAMS_VENTURERS 41 PAD	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site Error:	0.00 ft	North Reference:	True
Reference Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	VENTURERS 41-4H	Database:	edmp
Reference Design:	VENTURERS 41-4H (wp01)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5471.00ft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: VENTURERS 41-4H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.59°

Ladder Plot



LEGEND

:41-5H, VENTURERS 41-5H(wp01) V0

Anadarko Petroleum Corp

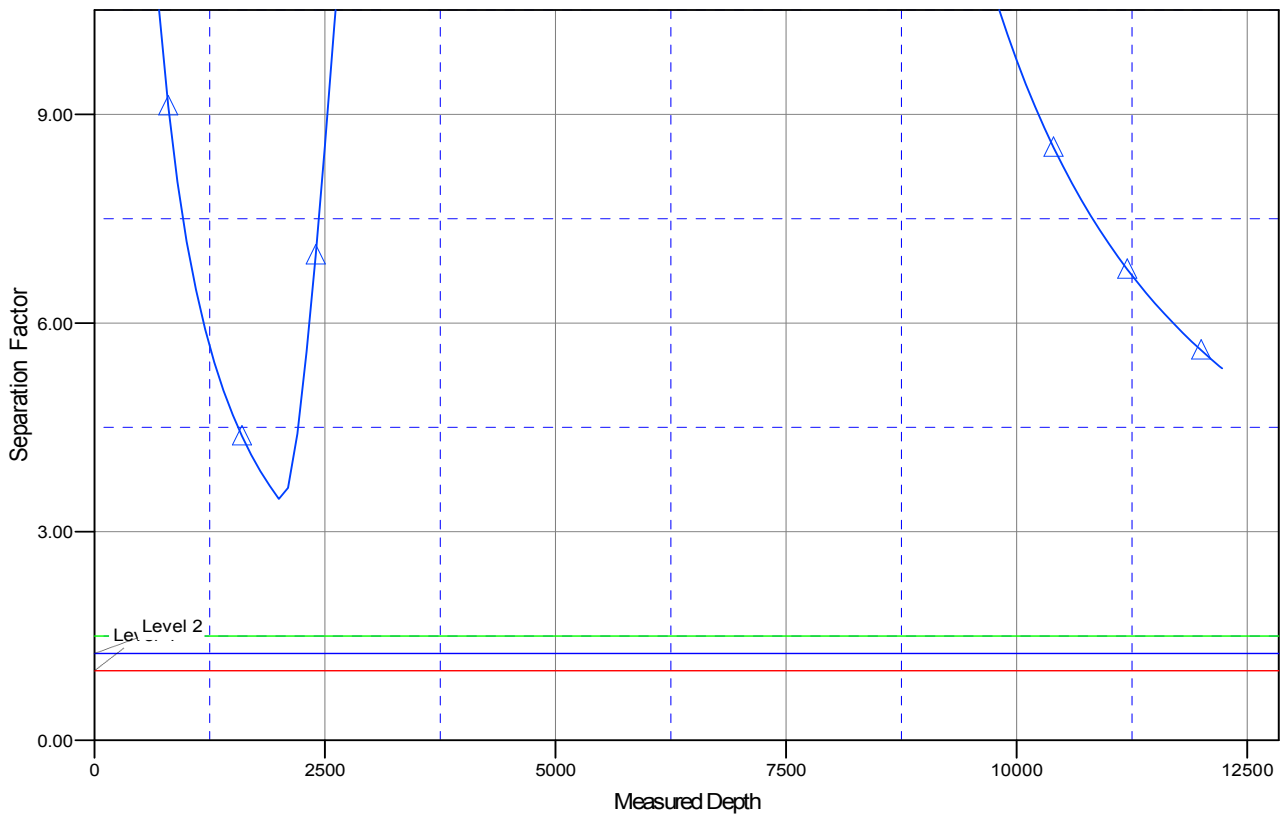
Anticollision Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well VENTURERS 41-4H
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
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Site Error:	0.00 ft	North Reference:	True
Reference Well:	VENTURERS 41-4H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	VENTURERS 41-4H	Database:	edmp
Reference Design:	VENTURERS 41-4H (wp01)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5471.00ft (Original Well Ele)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: VENTURERS 41-4H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.59°

Separation Factor Plot



LEGEND

:41-5H, VENTURERS 41-5H (wp01) V0