

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CANNON 26-3HZ PAD

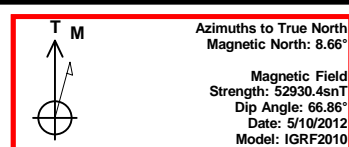
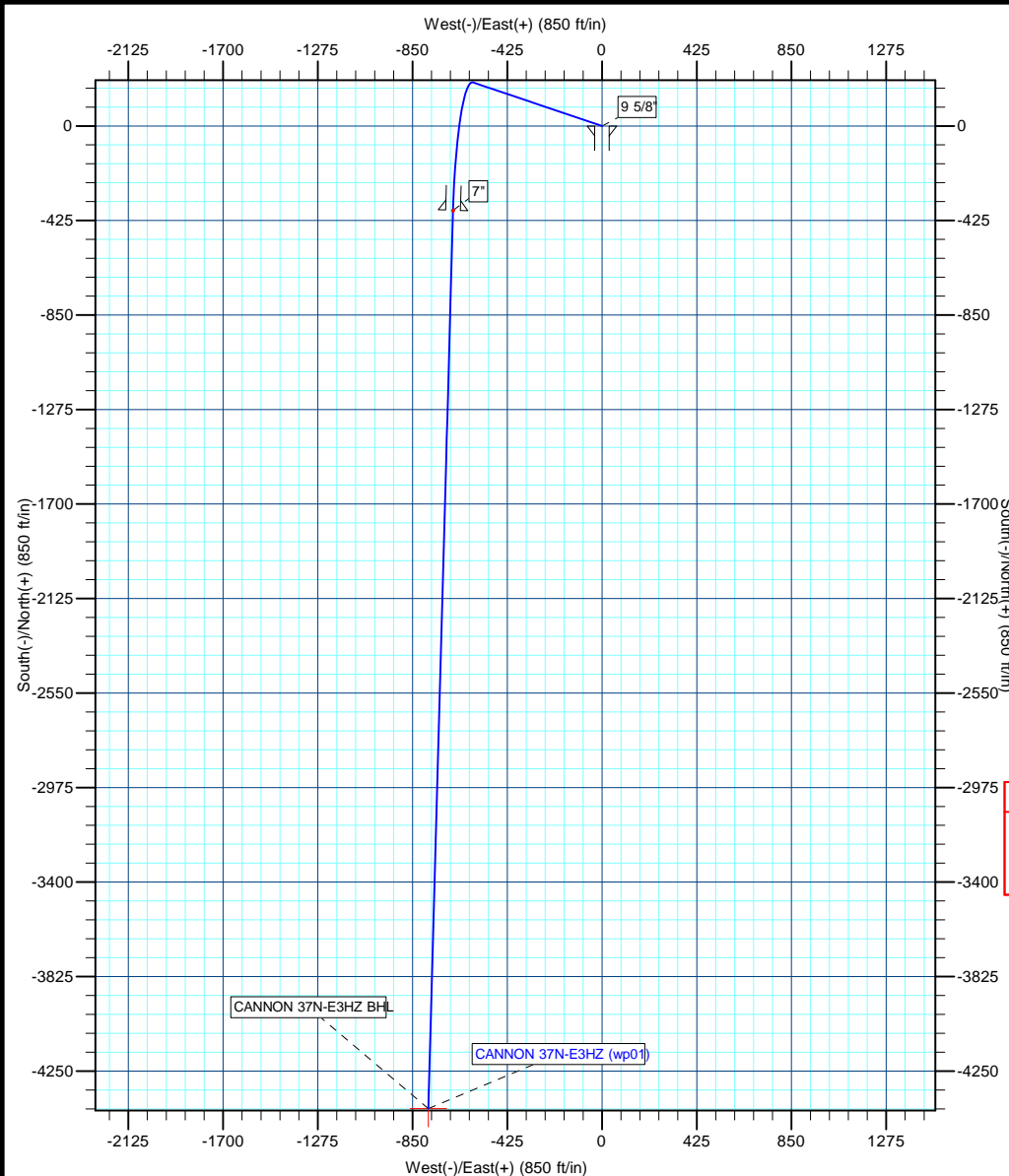
CANNON 37N-E3HZ

CANNON 37N-E3HZ

Plan: CANNON 37N-E3HZ (wp01)

Standard Planning Report

10 May, 2012



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_CANNON 26-3HZ PAD
Well: CANNON 37N-E3HZ
Wellbore: CANNON 37N-E3HZ
Section:
SHL:
Design: CANNON 37N-E3HZ (wp01)
Latitude: 40.173890
Longitude: -104.641723
GL: 4840.00
KB: gl + rkb @ 4857.00ft

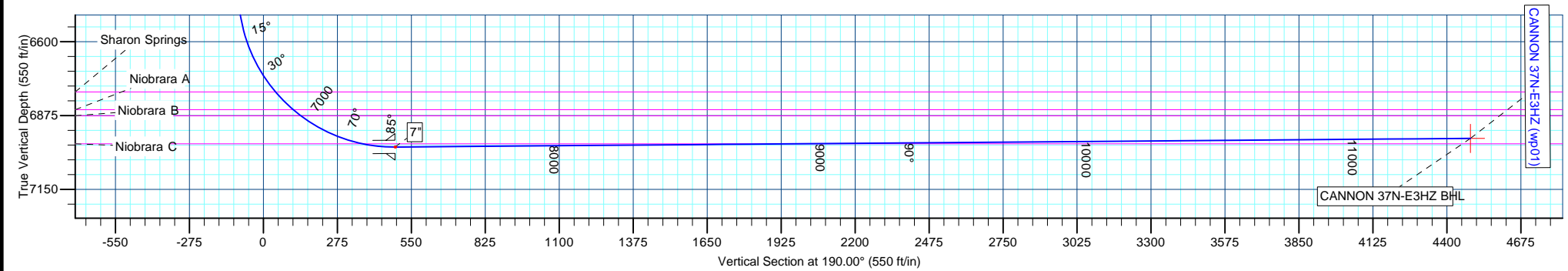
WELL DETAILS: CANNON 37N-E3HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4840.00 Latitude 40.173890	Longitude -104.641723	Slot
0.00	0.00	1307351.71	3239832.54			

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
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
1869.06	7.38	288.69	1868.04	7.61	-22.49	2.00	288.69	-3.59
6440.84	7.38	288.69	6401.94	195.77	-578.87	0.00	0.00	-92.32
7366.96	90.44	181.54	6992.00	-379.00	-668.00	10.00	-106.95	489.20
7370.10	90.45	181.57	6991.98	-382.14	-668.09	1.00	73.92	492.30
11409.06	90.45	181.57	6960.00	-4419.45	-778.94	0.00	0.00	4487.57

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CANNON 37N-E3HZ BHL	6960.00	-4419.45	-778.94	40.161758	-104.644510	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3821.00	3838.34	Parkman
4216.00	4236.64	Sussex
6787.00	6859.98	Sharon Springs
6853.00	6953.18	Niobrara A
6876.00	6989.94	Niobrara B
6980.00	7244.47	Niobrara C

CASING DETAILS			
TVD	MD	Name	Size
775.00	775.00	9 5/8"	9-5/8
6992.00	7366.96	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CANNON 37N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4857.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4857.00ft
Site:	WELD_CANNON 26-3HZ PAD	North Reference:	True
Well:	CANNON 37N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CANNON 37N-E3HZ		
Design:	CANNON 37N-E3HZ (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	WELD_CANNON 26-3HZ PAD			
Site Position:		Northing:	1,307,332.63 usft	Latitude: 40.173837
From:	Lat/Long	Easting:	3,239,855.64 usft	Longitude: -104.641641
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.55 °

Well	CANNON 37N-E3HZ			
Well Position	+N/-S	19.30 ft	Northing:	1,307,351.71 usft
	+E/-W	-22.91 ft	Easting:	3,239,832.54 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		Ground Level: 4,840.00 ft

Wellbore	CANNON 37N-E3HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/10/2012	8.66	66.86	52,930

Design	CANNON 37N-E3HZ (wp01)			
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	190.00

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	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,869.06	7.38	288.69	1,868.04	7.61	-22.49	2.00	2.00	0.00	288.69	
6,440.84	7.38	288.69	6,401.94	195.77	-578.87	0.00	0.00	0.00	0.00	
7,366.96	90.44	181.54	6,992.00	-379.00	-668.00	10.00	8.97	-11.57	-106.95	
7,370.10	90.45	181.57	6,991.98	-382.14	-668.09	1.00	0.28	0.96	73.92	
11,409.06	90.45	181.57	6,960.00	-4,419.45	-778.94	0.00	0.00	0.00	0.00	CANNON 37N-E3HZ

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CANNON 37N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4857.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4857.00ft
Site:	WELD_CANNON 26-3HZ PAD	North Reference:	True
Well:	CANNON 37N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CANNON 37N-E3HZ		
Design:	CANNON 37N-E3HZ (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
775.00	0.00	0.00	775.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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
1,600.00	2.00	288.69	1,599.98	0.56	-1.65	-0.26	2.00	2.00	0.00
1,700.00	4.00	288.69	1,699.84	2.24	-6.61	-1.05	2.00	2.00	0.00
1,800.00	6.00	288.69	1,799.45	5.03	-14.87	-2.37	2.00	2.00	0.00
1,869.06	7.38	288.69	1,868.04	7.61	-22.49	-3.59	2.00	2.00	0.00
1,900.00	7.38	288.69	1,898.72	8.88	-26.25	-4.19	0.00	0.00	0.00
2,000.00	7.38	288.69	1,997.89	12.99	-38.42	-6.13	0.00	0.00	0.00
2,100.00	7.38	288.69	2,097.07	17.11	-50.59	-8.07	0.00	0.00	0.00
2,200.00	7.38	288.69	2,196.24	21.23	-62.76	-10.01	0.00	0.00	0.00
2,300.00	7.38	288.69	2,295.41	25.34	-74.93	-11.95	0.00	0.00	0.00
2,400.00	7.38	288.69	2,394.58	29.46	-87.10	-13.89	0.00	0.00	0.00
2,500.00	7.38	288.69	2,493.75	33.57	-99.27	-15.83	0.00	0.00	0.00
2,600.00	7.38	288.69	2,592.92	37.69	-111.44	-17.77	0.00	0.00	0.00
2,700.00	7.38	288.69	2,692.09	41.81	-123.61	-19.71	0.00	0.00	0.00
2,800.00	7.38	288.69	2,791.27	45.92	-135.78	-21.66	0.00	0.00	0.00
2,900.00	7.38	288.69	2,890.44	50.04	-147.95	-23.60	0.00	0.00	0.00
3,000.00	7.38	288.69	2,989.61	54.15	-160.12	-25.54	0.00	0.00	0.00
3,100.00	7.38	288.69	3,088.78	58.27	-172.29	-27.48	0.00	0.00	0.00
3,200.00	7.38	288.69	3,187.95	62.38	-184.46	-29.42	0.00	0.00	0.00
3,300.00	7.38	288.69	3,287.12	66.50	-196.63	-31.36	0.00	0.00	0.00
3,400.00	7.38	288.69	3,386.29	70.62	-208.80	-33.30	0.00	0.00	0.00
3,500.00	7.38	288.69	3,485.46	74.73	-220.97	-35.24	0.00	0.00	0.00
3,600.00	7.38	288.69	3,584.64	78.85	-233.14	-37.18	0.00	0.00	0.00
3,700.00	7.38	288.69	3,683.81	82.96	-245.31	-39.12	0.00	0.00	0.00
3,800.00	7.38	288.69	3,782.98	87.08	-257.48	-41.06	0.00	0.00	0.00
3,838.34	7.38	288.69	3,821.00	88.66	-262.15	-41.81	0.00	0.00	0.00
Parkman									
3,900.00	7.38	288.69	3,882.15	91.20	-269.65	-43.01	0.00	0.00	0.00
4,000.00	7.38	288.69	3,981.32	95.31	-281.82	-44.95	0.00	0.00	0.00
4,100.00	7.38	288.69	4,080.49	99.43	-293.99	-46.89	0.00	0.00	0.00
4,200.00	7.38	288.69	4,179.66	103.54	-306.16	-48.83	0.00	0.00	0.00
4,236.64	7.38	288.69	4,216.00	105.05	-310.62	-49.54	0.00	0.00	0.00
Sussex									
4,300.00	7.38	288.69	4,278.84	107.66	-318.33	-50.77	0.00	0.00	0.00
4,400.00	7.38	288.69	4,378.01	111.77	-330.50	-52.71	0.00	0.00	0.00
4,500.00	7.38	288.69	4,477.18	115.89	-342.67	-54.65	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CANNON 37N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4857.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4857.00ft
Site:	WELD_CANNON 26-3HZ PAD	North Reference:	True
Well:	CANNON 37N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CANNON 37N-E3HZ		
Design:	CANNON 37N-E3HZ (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)
4,600.00	7.38	288.69	4,576.35	120.01	-354.84	-56.59	0.00	0.00	0.00
4,700.00	7.38	288.69	4,675.52	124.12	-367.01	-58.53	0.00	0.00	0.00
4,800.00	7.38	288.69	4,774.69	128.24	-379.18	-60.47	0.00	0.00	0.00
4,900.00	7.38	288.69	4,873.86	132.35	-391.35	-62.41	0.00	0.00	0.00
5,000.00	7.38	288.69	4,973.03	136.47	-403.52	-64.36	0.00	0.00	0.00
5,100.00	7.38	288.69	5,072.21	140.59	-415.69	-66.30	0.00	0.00	0.00
5,200.00	7.38	288.69	5,171.38	144.70	-427.86	-68.24	0.00	0.00	0.00
5,300.00	7.38	288.69	5,270.55	148.82	-440.03	-70.18	0.00	0.00	0.00
5,400.00	7.38	288.69	5,369.72	152.93	-452.20	-72.12	0.00	0.00	0.00
5,500.00	7.38	288.69	5,468.89	157.05	-464.37	-74.06	0.00	0.00	0.00
5,600.00	7.38	288.69	5,568.06	161.16	-476.54	-76.00	0.00	0.00	0.00
5,700.00	7.38	288.69	5,667.23	165.28	-488.71	-77.94	0.00	0.00	0.00
5,800.00	7.38	288.69	5,766.41	169.40	-500.88	-79.88	0.00	0.00	0.00
5,900.00	7.38	288.69	5,865.58	173.51	-513.05	-81.82	0.00	0.00	0.00
6,000.00	7.38	288.69	5,964.75	177.63	-525.22	-83.76	0.00	0.00	0.00
6,100.00	7.38	288.69	6,063.92	181.74	-537.39	-85.71	0.00	0.00	0.00
6,200.00	7.38	288.69	6,163.09	185.86	-549.56	-87.65	0.00	0.00	0.00
6,300.00	7.38	288.69	6,262.26	189.98	-561.73	-89.59	0.00	0.00	0.00
6,400.00	7.38	288.69	6,361.43	194.09	-573.90	-91.53	0.00	0.00	0.00
6,440.84	7.38	288.69	6,401.94	195.77	-578.87	-92.32	0.00	0.00	0.00
6,500.00	7.99	243.51	6,460.61	195.15	-586.16	-90.45	10.00	1.03	-76.37
6,600.00	15.43	208.26	6,558.58	180.30	-598.71	-73.64	10.00	7.44	-35.25
6,700.00	24.72	197.20	6,652.43	148.53	-611.22	-40.18	10.00	9.29	-11.06
6,800.00	34.40	192.02	6,739.33	100.81	-623.32	8.92	10.00	9.68	-5.18
6,859.98	40.27	190.00	6,787.00	65.11	-630.22	45.27	10.00	9.79	-3.36
Sharon Springs									
6,900.00	44.20	188.91	6,816.62	38.58	-634.63	72.16	10.00	9.83	-2.72
6,953.18	49.45	187.68	6,853.00	0.22	-640.20	110.91	10.00	9.86	-2.32
Niobrara A									
6,989.94	53.08	186.94	6,876.00	-28.22	-643.85	139.55	10.00	9.87	-2.02
Niobrara B									
7,000.00	54.07	186.75	6,881.97	-36.25	-644.81	147.63	10.00	9.88	-1.90
7,100.00	63.97	185.07	6,933.39	-121.43	-653.56	233.03	10.00	9.90	-1.68
7,200.00	73.88	183.65	6,969.31	-214.35	-660.60	325.76	10.00	9.91	-1.42
7,244.47	78.29	183.07	6,980.00	-257.43	-663.12	368.63	10.00	9.92	-1.31
Niobrara C									
7,300.00	83.80	182.37	6,988.64	-312.20	-665.72	423.02	10.00	9.92	-1.26
7,366.96	90.44	181.54	6,992.00	-379.00	-668.00	489.20	10.00	9.92	-1.23
7"									
7,370.10	90.45	181.57	6,991.98	-382.14	-668.09	492.30	1.00	0.28	0.96
7,400.00	90.45	181.57	6,991.74	-412.03	-668.91	521.88	0.00	0.00	0.00
7,500.00	90.45	181.57	6,990.95	-511.99	-671.65	620.80	0.00	0.00	0.00
7,600.00	90.45	181.57	6,990.16	-611.94	-674.40	719.71	0.00	0.00	0.00
7,700.00	90.45	181.57	6,989.36	-711.90	-677.14	818.63	0.00	0.00	0.00
7,800.00	90.45	181.57	6,988.57	-811.86	-679.88	917.55	0.00	0.00	0.00
7,900.00	90.45	181.57	6,987.78	-911.82	-682.63	1,016.47	0.00	0.00	0.00
8,000.00	90.45	181.57	6,986.99	-1,011.78	-685.37	1,115.39	0.00	0.00	0.00
8,100.00	90.45	181.57	6,986.20	-1,111.74	-688.12	1,214.31	0.00	0.00	0.00
8,200.00	90.45	181.57	6,985.41	-1,211.70	-690.86	1,313.22	0.00	0.00	0.00
8,300.00	90.45	181.57	6,984.61	-1,311.66	-693.61	1,412.14	0.00	0.00	0.00
8,400.00	90.45	181.57	6,983.82	-1,411.62	-696.35	1,511.06	0.00	0.00	0.00
8,500.00	90.45	181.57	6,983.03	-1,511.58	-699.10	1,609.98	0.00	0.00	0.00
8,600.00	90.45	181.57	6,982.24	-1,611.54	-701.84	1,708.90	0.00	0.00	0.00
8,700.00	90.45	181.57	6,981.45	-1,711.50	-704.59	1,807.82	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CANNON 37N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4857.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4857.00ft
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Well:	CANNON 37N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CANNON 37N-E3HZ		
Design:	CANNON 37N-E3HZ (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)	
8,800.00	90.45	181.57	6,980.66	-1,811.45	-707.33	1,906.73	0.00	0.00	0.00	
8,900.00	90.45	181.57	6,979.86	-1,911.41	-710.07	2,005.65	0.00	0.00	0.00	
9,000.00	90.45	181.57	6,979.07	-2,011.37	-712.82	2,104.57	0.00	0.00	0.00	
9,100.00	90.45	181.57	6,978.28	-2,111.33	-715.56	2,203.49	0.00	0.00	0.00	
9,200.00	90.45	181.57	6,977.49	-2,211.29	-718.31	2,302.41	0.00	0.00	0.00	
9,300.00	90.45	181.57	6,976.70	-2,311.25	-721.05	2,401.32	0.00	0.00	0.00	
9,400.00	90.45	181.57	6,975.91	-2,411.21	-723.80	2,500.24	0.00	0.00	0.00	
9,500.00	90.45	181.57	6,975.11	-2,511.17	-726.54	2,599.16	0.00	0.00	0.00	
9,600.00	90.45	181.57	6,974.32	-2,611.13	-729.29	2,698.08	0.00	0.00	0.00	
9,700.00	90.45	181.57	6,973.53	-2,711.09	-732.03	2,797.00	0.00	0.00	0.00	
9,800.00	90.45	181.57	6,972.74	-2,811.05	-734.78	2,895.92	0.00	0.00	0.00	
9,900.00	90.45	181.57	6,971.95	-2,911.01	-737.52	2,994.83	0.00	0.00	0.00	
10,000.00	90.45	181.57	6,971.16	-3,010.97	-740.26	3,093.75	0.00	0.00	0.00	
10,100.00	90.45	181.57	6,970.36	-3,110.92	-743.01	3,192.67	0.00	0.00	0.00	
10,200.00	90.45	181.57	6,969.57	-3,210.88	-745.75	3,291.59	0.00	0.00	0.00	
10,300.00	90.45	181.57	6,968.78	-3,310.84	-748.50	3,390.51	0.00	0.00	0.00	
10,400.00	90.45	181.57	6,967.99	-3,410.80	-751.24	3,489.43	0.00	0.00	0.00	
10,500.00	90.45	181.57	6,967.20	-3,510.76	-753.99	3,588.34	0.00	0.00	0.00	
10,600.00	90.45	181.57	6,966.41	-3,610.72	-756.73	3,687.26	0.00	0.00	0.00	
10,700.00	90.45	181.57	6,965.61	-3,710.68	-759.48	3,786.18	0.00	0.00	0.00	
10,800.00	90.45	181.57	6,964.82	-3,810.64	-762.22	3,885.10	0.00	0.00	0.00	
10,900.00	90.45	181.57	6,964.03	-3,910.60	-764.97	3,984.02	0.00	0.00	0.00	
11,000.00	90.45	181.57	6,963.24	-4,010.56	-767.71	4,082.94	0.00	0.00	0.00	
11,100.00	90.45	181.57	6,962.45	-4,110.52	-770.46	4,181.85	0.00	0.00	0.00	
11,200.00	90.45	181.57	6,961.66	-4,210.48	-773.20	4,280.77	0.00	0.00	0.00	
11,300.00	90.45	181.57	6,960.86	-4,310.43	-775.94	4,379.69	0.00	0.00	0.00	
11,400.00	90.45	181.57	6,960.07	-4,410.39	-778.69	4,478.61	0.00	0.00	0.00	
11,409.06	90.45	181.57	6,960.00	-4,419.45	-778.94	4,487.57	0.00	0.00	0.00	
CANNON 37N-E3HZ 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									
CANNON 37N-E3HZ B-	0.00	0.00	6,960.00	-4,419.45	-778.94	1,302,924.93	3,239,096.41	40.161758	-104.644510
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
775.00	775.00	9 5/8"	9-5/8	12-1/4	
7,366.96	6,992.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well CANNON 37N-E3HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	gl + rkb @ 4857.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	gl + rkb @ 4857.00ft
Site:	WELD_CANNON 26-3HZ PAD	North Reference:	True
Well:	CANNON 37N-E3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CANNON 37N-E3HZ		
Design:	CANNON 37N-E3HZ (wp01)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,838.34	3,821.00	Parkman				
4,236.64	4,216.00	Sussex				
6,859.98	6,787.00	Sharon Springs				
6,953.18	6,853.00	Niobrara A				
6,989.94	6,876.00	Niobrara B				
7,244.47	6,980.00	Niobrara C				