

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_RATTLER PAD 1

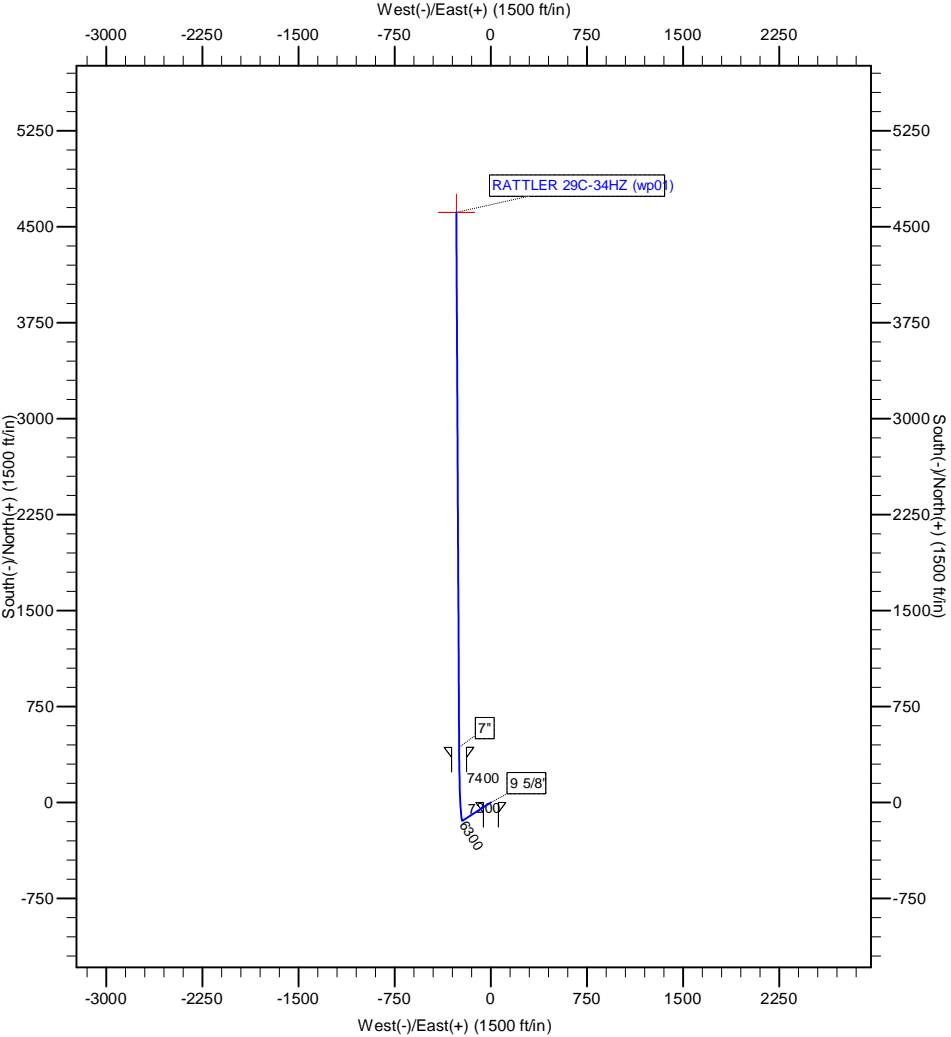
RATTLER 29C-34HZ

RATTLER 29C-34HZ

Plan: RATTLER 29C-34HZ (wp01)

Standard Planning Report

24 October, 2011



Azimuths to True North
Magnetic North: 8.80°

Magnetic Field
Strength: 52973.8snT
Dip Angle: 66.86°
Date: 10/24/2011
Model: IGRF2010



Project: COLORADO NORTHERN ZONE - 83
Site: WELD_RATTLER PAD 1
Well: RATTLER 29C-34HZ
Wellbore: RATTLER 29C-34HZ
Section:
SHL:
Design: RATTLER 29C-34HZ (wp01)
Latitude: 40.174920
Longitude: -104.765731
GL: 4990.00
KB: GL + RKB @ 5007.00ft

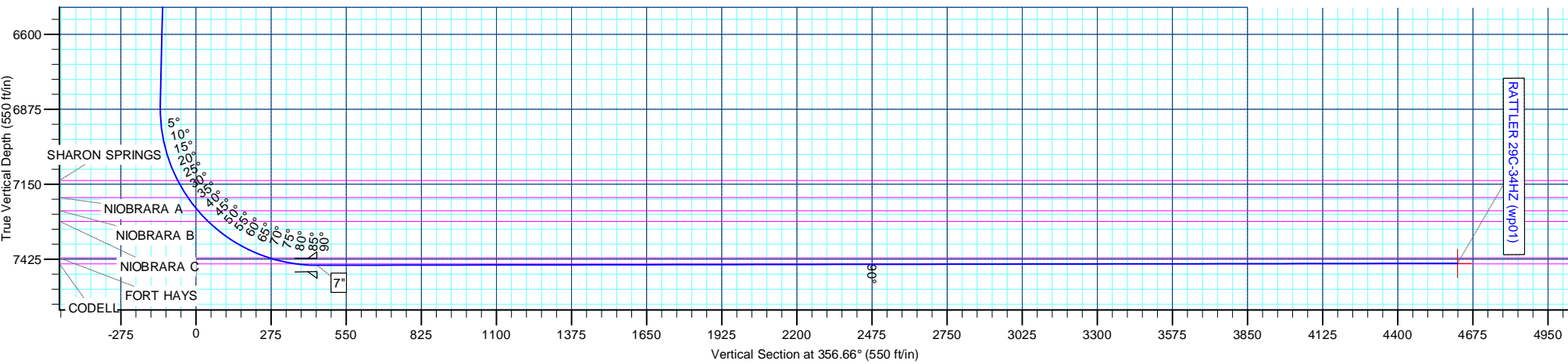
WELL DETAILS: RATTLER 29C-34HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4990.00 Latitude	Longitude	Slot
0.00	0.00	1307415.74	3205178.13	40.174920	-104.765731	

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
1050.00	0.00	0.00	1050.00	0.00	0.00	0.00	0.00	0.00
1181.54	2.63	237.04	1181.49	-1.64	-2.53	2.00	237.04	-1.49
6866.32	2.63	237.04	6860.28	-143.59	-221.47	0.00	0.00	-130.46
7781.44	90.09	359.72	7447.00	430.00	-247.00	10.00	122.65	443.64
7783.31	90.10	359.70	7447.00	431.86	-247.01	1.00	-78.40	445.50
11962.97	90.10	359.70	7440.00	4611.47	-268.77	0.00	0.00	4619.29

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
RATTLER 29C-34HZ BHL	7440.00	4611.47	-268.77	40.187579	-104.766693	Point	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2649.00	2650.59	PARKMAN
4707.00	4710.77	SUSSEX
7136.00	7152.33	SHARON SPRINGS
7199.00	7225.82	NIOBRARA A
7247.00	7286.44	NIOBRARA B
7286.00	7340.07	NIOBRARA C
7420.00	7603.86	FORT HAYS
7442.00	7704.74	CODELL

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
7447.00	7781.44	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well RATTLER 29C-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5007.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5007.00ft
Site:	WELD_RATTLER PAD 1	North Reference:	True
Well:	RATTLER 29C-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	RATTLER 29C-34HZ		
Design:	RATTLER 29C-34HZ (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_RATTLER PAD 1			
Site Position:		Northing:	1,307,415.13 usft	Latitude:	40.174919
From:	Lat/Long	Easting:	3,205,148.23 usft	Longitude:	-104.765838
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	RATTLER 29C-34HZ					
Well Position	+N/-S	0.36 ft	Northing:	1,307,415.74 usft	Latitude:	40.174920
	+E/-W	29.90 ft	Easting:	3,205,178.13 usft	Longitude:	-104.765731
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,990.00 ft

Wellbore	RATTLER 29C-34HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/24/2011	8.80	66.86	52,974

Design	RATTLER 29C-34HZ (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	356.66

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	
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,181.54	2.63	237.04	1,181.49	-1.64	-2.53	2.00	2.00	0.00	237.04	
6,866.32	2.63	237.04	6,860.28	-143.59	-221.47	0.00	0.00	0.00	0.00	
7,781.44	90.09	359.72	7,447.00	430.00	-247.00	10.00	9.56	13.41	122.65	
7,783.31	90.10	359.70	7,447.00	431.86	-247.01	1.00	0.20	-0.98	-78.40	
11,962.97	90.10	359.70	7,440.00	4,611.47	-268.77	0.00	0.00	0.00	0.00	RATTLER 29C-34HZ

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well RATTLER 29C-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5007.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5007.00ft
Site:	WELD_RATTLER PAD 1	North Reference:	True
Well:	RATTLER 29C-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	RATTLER 29C-34HZ		
Design:	RATTLER 29C-34HZ (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
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
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,100.00	1.00	237.04	1,100.00	-0.24	-0.37	-0.22	2.00	2.00	0.00
1,181.54	2.63	237.04	1,181.49	-1.64	-2.53	-1.49	2.00	2.00	0.00
Start 5684.79 hold at 1181.54 MD									
1,200.00	2.63	237.04	1,199.93	-2.10	-3.24	-1.91	0.00	0.00	0.00
1,300.00	2.63	237.04	1,299.83	-4.60	-7.10	-4.18	0.00	0.00	0.00
1,400.00	2.63	237.04	1,399.72	-7.10	-10.95	-6.45	0.00	0.00	0.00
1,500.00	2.63	237.04	1,499.62	-9.59	-14.80	-8.72	0.00	0.00	0.00
1,600.00	2.63	237.04	1,599.51	-12.09	-18.65	-10.99	0.00	0.00	0.00
1,700.00	2.63	237.04	1,699.41	-14.59	-22.50	-13.25	0.00	0.00	0.00
1,800.00	2.63	237.04	1,799.30	-17.08	-26.35	-15.52	0.00	0.00	0.00
1,900.00	2.63	237.04	1,899.20	-19.58	-30.20	-17.79	0.00	0.00	0.00
2,000.00	2.63	237.04	1,999.09	-22.08	-34.05	-20.06	0.00	0.00	0.00
2,100.00	2.63	237.04	2,098.99	-24.58	-37.91	-22.33	0.00	0.00	0.00
2,200.00	2.63	237.04	2,198.88	-27.07	-41.76	-24.60	0.00	0.00	0.00
2,300.00	2.63	237.04	2,298.78	-29.57	-45.61	-26.87	0.00	0.00	0.00
2,400.00	2.63	237.04	2,398.67	-32.07	-49.46	-29.13	0.00	0.00	0.00
2,500.00	2.63	237.04	2,498.56	-34.56	-53.31	-31.40	0.00	0.00	0.00
2,600.00	2.63	237.04	2,598.46	-37.06	-57.16	-33.67	0.00	0.00	0.00
2,650.59	2.63	237.04	2,649.00	-38.32	-59.11	-34.82	0.00	0.00	0.00
PARKMAN									
2,700.00	2.63	237.04	2,698.35	-39.56	-61.01	-35.94	0.00	0.00	0.00
2,800.00	2.63	237.04	2,798.25	-42.05	-64.86	-38.21	0.00	0.00	0.00
2,900.00	2.63	237.04	2,898.14	-44.55	-68.72	-40.48	0.00	0.00	0.00
3,000.00	2.63	237.04	2,998.04	-47.05	-72.57	-42.75	0.00	0.00	0.00
3,100.00	2.63	237.04	3,097.93	-49.54	-76.42	-45.01	0.00	0.00	0.00
3,200.00	2.63	237.04	3,197.83	-52.04	-80.27	-47.28	0.00	0.00	0.00
3,300.00	2.63	237.04	3,297.72	-54.54	-84.12	-49.55	0.00	0.00	0.00
3,400.00	2.63	237.04	3,397.62	-57.04	-87.97	-51.82	0.00	0.00	0.00
3,500.00	2.63	237.04	3,497.51	-59.53	-91.82	-54.09	0.00	0.00	0.00
3,600.00	2.63	237.04	3,597.41	-62.03	-95.67	-56.36	0.00	0.00	0.00
3,700.00	2.63	237.04	3,697.30	-64.53	-99.53	-58.63	0.00	0.00	0.00
3,800.00	2.63	237.04	3,797.19	-67.02	-103.38	-60.89	0.00	0.00	0.00
3,900.00	2.63	237.04	3,897.09	-69.52	-107.23	-63.16	0.00	0.00	0.00
4,000.00	2.63	237.04	3,996.98	-72.02	-111.08	-65.43	0.00	0.00	0.00
4,100.00	2.63	237.04	4,096.88	-74.51	-114.93	-67.70	0.00	0.00	0.00
4,200.00	2.63	237.04	4,196.77	-77.01	-118.78	-69.97	0.00	0.00	0.00
4,300.00	2.63	237.04	4,296.67	-79.51	-122.63	-72.24	0.00	0.00	0.00
4,400.00	2.63	237.04	4,396.56	-82.00	-126.48	-74.51	0.00	0.00	0.00
4,500.00	2.63	237.04	4,496.46	-84.50	-130.34	-76.77	0.00	0.00	0.00
4,600.00	2.63	237.04	4,596.35	-87.00	-134.19	-79.04	0.00	0.00	0.00
4,700.00	2.63	237.04	4,696.25	-89.50	-138.04	-81.31	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well RATTLER 29C-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5007.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5007.00ft
Site:	WELD_RATTLER PAD 1	North Reference:	True
Well:	RATTLER 29C-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	RATTLER 29C-34HZ		
Design:	RATTLER 29C-34HZ (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)
4,710.77	2.63	237.04	4,707.00	-89.76	-138.45	-81.56	0.00	0.00	0.00
SUSSEX									
4,800.00	2.63	237.04	4,796.14	-91.99	-141.89	-83.58	0.00	0.00	0.00
4,900.00	2.63	237.04	4,896.04	-94.49	-145.74	-85.85	0.00	0.00	0.00
5,000.00	2.63	237.04	4,995.93	-96.99	-149.59	-88.12	0.00	0.00	0.00
5,100.00	2.63	237.04	5,095.82	-99.48	-153.44	-90.39	0.00	0.00	0.00
5,200.00	2.63	237.04	5,195.72	-101.98	-157.29	-92.65	0.00	0.00	0.00
5,300.00	2.63	237.04	5,295.61	-104.48	-161.15	-94.92	0.00	0.00	0.00
5,400.00	2.63	237.04	5,395.51	-106.97	-165.00	-97.19	0.00	0.00	0.00
5,500.00	2.63	237.04	5,495.40	-109.47	-168.85	-99.46	0.00	0.00	0.00
5,600.00	2.63	237.04	5,595.30	-111.97	-172.70	-101.73	0.00	0.00	0.00
5,700.00	2.63	237.04	5,695.19	-114.46	-176.55	-104.00	0.00	0.00	0.00
5,800.00	2.63	237.04	5,795.09	-116.96	-180.40	-106.27	0.00	0.00	0.00
5,900.00	2.63	237.04	5,894.98	-119.46	-184.25	-108.54	0.00	0.00	0.00
6,000.00	2.63	237.04	5,994.88	-121.95	-188.10	-110.80	0.00	0.00	0.00
6,100.00	2.63	237.04	6,094.77	-124.45	-191.96	-113.07	0.00	0.00	0.00
6,200.00	2.63	237.04	6,194.67	-126.95	-195.81	-115.34	0.00	0.00	0.00
6,300.00	2.63	237.04	6,294.56	-129.45	-199.66	-117.61	0.00	0.00	0.00
6,400.00	2.63	237.04	6,394.45	-131.94	-203.51	-119.88	0.00	0.00	0.00
6,500.00	2.63	237.04	6,494.35	-134.44	-207.36	-122.15	0.00	0.00	0.00
6,600.00	2.63	237.04	6,594.24	-136.94	-211.21	-124.42	0.00	0.00	0.00
6,700.00	2.63	237.04	6,694.14	-139.43	-215.06	-126.68	0.00	0.00	0.00
6,800.00	2.63	237.04	6,794.03	-141.93	-218.91	-128.95	0.00	0.00	0.00
6,866.32	2.63	237.04	6,860.28	-143.59	-221.47	-130.46	0.00	0.00	0.00
Start DLS 10.00 TFO 122.65									
6,900.00	2.95	311.07	6,893.93	-143.44	-222.77	-130.23	10.00	0.95	219.79
7,000.00	12.15	349.37	6,993.00	-131.37	-226.66	-117.96	10.00	9.20	38.30
7,100.00	22.05	354.24	7,088.46	-102.28	-230.50	-88.70	10.00	9.91	4.87
7,152.33	27.26	355.41	7,136.00	-80.54	-232.44	-66.88	10.00	9.96	2.24
SHARON SPRINGS									
7,200.00	32.02	356.17	7,177.42	-57.04	-234.16	-43.32	10.00	9.97	1.59
7,225.82	34.59	356.50	7,199.00	-42.89	-235.07	-29.14	10.00	9.98	1.28
NIOBRARA A									
7,286.44	40.64	357.13	7,247.00	-5.96	-237.11	7.85	10.00	9.98	1.04
NIOBRARA B									
7,300.00	42.00	357.25	7,257.18	2.98	-237.55	16.80	10.00	9.98	0.89
7,340.07	46.00	357.58	7,286.00	30.78	-238.80	44.62	10.00	9.98	0.80
NIOBRARA C									
7,400.00	51.98	357.98	7,325.31	75.95	-240.54	89.81	10.00	9.99	0.68
7,500.00	61.97	358.54	7,379.74	159.65	-243.06	173.52	10.00	9.99	0.55
7,600.00	71.96	358.99	7,418.82	251.54	-245.03	265.37	10.00	9.99	0.46
7,603.86	72.35	359.01	7,420.00	255.21	-245.09	269.03	10.00	9.99	0.43
FORT HAYS									
7,614.57	73.42	359.06	7,423.15	265.45	-245.26	279.27	10.00	9.99	0.42
RATTLER 29C-34HZ HEEL									
7,700.00	81.95	359.40	7,441.36	348.82	-246.38	362.57	10.00	9.99	0.41
7,704.74	82.43	359.42	7,442.00	353.52	-246.43	367.26	10.00	9.99	0.39
CODELL									
7,781.44	90.09	359.72	7,447.00	430.00	-247.00	443.64	10.00	9.99	0.39
Start DLS 1.00 TFO -78.40 - 7"									
7,783.31	90.10	359.70	7,447.00	431.86	-247.01	445.50	1.00	0.22	-0.98
Start 4179.66 hold at 7783.31 MD									
7,800.00	90.10	359.70	7,446.97	448.56	-247.10	462.17	0.00	0.00	0.00
7,900.00	90.10	359.70	7,446.80	548.55	-247.62	562.03	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well RATTLER 29C-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5007.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5007.00ft
Site:	WELD_RATTLER PAD 1	North Reference:	True
Well:	RATTLER 29C-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	RATTLER 29C-34HZ		
Design:	RATTLER 29C-34HZ (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)	
8,000.00	90.10	359.70	7,446.63	648.55	-248.14	661.89	0.00	0.00	0.00	
8,100.00	90.10	359.70	7,446.47	748.55	-248.66	761.75	0.00	0.00	0.00	
8,200.00	90.10	359.70	7,446.30	848.55	-249.18	861.61	0.00	0.00	0.00	
8,300.00	90.10	359.70	7,446.13	948.55	-249.70	961.47	0.00	0.00	0.00	
8,400.00	90.10	359.70	7,445.96	1,048.55	-250.22	1,061.33	0.00	0.00	0.00	
8,500.00	90.10	359.70	7,445.80	1,148.55	-250.74	1,161.19	0.00	0.00	0.00	
8,600.00	90.10	359.70	7,445.63	1,248.54	-251.26	1,261.05	0.00	0.00	0.00	
8,700.00	90.10	359.70	7,445.46	1,348.54	-251.78	1,360.91	0.00	0.00	0.00	
8,800.00	90.10	359.70	7,445.30	1,448.54	-252.30	1,460.77	0.00	0.00	0.00	
8,900.00	90.10	359.70	7,445.13	1,548.54	-252.82	1,560.63	0.00	0.00	0.00	
9,000.00	90.10	359.70	7,444.96	1,648.54	-253.34	1,660.49	0.00	0.00	0.00	
9,100.00	90.10	359.70	7,444.79	1,748.54	-253.86	1,760.35	0.00	0.00	0.00	
9,200.00	90.10	359.70	7,444.63	1,848.54	-254.38	1,860.20	0.00	0.00	0.00	
9,300.00	90.10	359.70	7,444.46	1,948.53	-254.90	1,960.06	0.00	0.00	0.00	
9,400.00	90.10	359.70	7,444.29	2,048.53	-255.43	2,059.92	0.00	0.00	0.00	
9,500.00	90.10	359.70	7,444.12	2,148.53	-255.95	2,159.78	0.00	0.00	0.00	
9,600.00	90.10	359.70	7,443.96	2,248.53	-256.47	2,259.64	0.00	0.00	0.00	
9,700.00	90.10	359.70	7,443.79	2,348.53	-256.99	2,359.50	0.00	0.00	0.00	
9,800.00	90.10	359.70	7,443.62	2,448.53	-257.51	2,459.36	0.00	0.00	0.00	
9,900.00	90.10	359.70	7,443.45	2,548.52	-258.03	2,559.22	0.00	0.00	0.00	
10,000.00	90.10	359.70	7,443.29	2,648.52	-258.55	2,659.08	0.00	0.00	0.00	
10,100.00	90.10	359.70	7,443.12	2,748.52	-259.07	2,758.94	0.00	0.00	0.00	
10,200.00	90.10	359.70	7,442.95	2,848.52	-259.59	2,858.80	0.00	0.00	0.00	
10,300.00	90.10	359.70	7,442.78	2,948.52	-260.11	2,958.66	0.00	0.00	0.00	
10,400.00	90.10	359.70	7,442.62	3,048.52	-260.63	3,058.52	0.00	0.00	0.00	
10,500.00	90.10	359.70	7,442.45	3,148.52	-261.15	3,158.38	0.00	0.00	0.00	
10,600.00	90.10	359.70	7,442.28	3,248.51	-261.67	3,258.24	0.00	0.00	0.00	
10,700.00	90.10	359.70	7,442.11	3,348.51	-262.19	3,358.10	0.00	0.00	0.00	
10,800.00	90.10	359.70	7,441.95	3,448.51	-262.71	3,457.95	0.00	0.00	0.00	
10,900.00	90.10	359.70	7,441.78	3,548.51	-263.23	3,557.81	0.00	0.00	0.00	
11,000.00	90.10	359.70	7,441.61	3,648.51	-263.75	3,657.67	0.00	0.00	0.00	
11,100.00	90.10	359.70	7,441.44	3,748.51	-264.27	3,757.53	0.00	0.00	0.00	
11,200.00	90.10	359.70	7,441.28	3,848.51	-264.80	3,857.39	0.00	0.00	0.00	
11,300.00	90.10	359.70	7,441.11	3,948.50	-265.32	3,957.25	0.00	0.00	0.00	
11,400.00	90.10	359.70	7,440.94	4,048.50	-265.84	4,057.11	0.00	0.00	0.00	
11,500.00	90.10	359.70	7,440.78	4,148.50	-266.36	4,156.97	0.00	0.00	0.00	
11,600.00	90.10	359.70	7,440.61	4,248.50	-266.88	4,256.83	0.00	0.00	0.00	
11,700.00	90.10	359.70	7,440.44	4,348.50	-267.40	4,356.69	0.00	0.00	0.00	
11,800.00	90.10	359.70	7,440.27	4,448.50	-267.92	4,456.55	0.00	0.00	0.00	
11,900.00	90.10	359.70	7,440.11	4,548.50	-268.44	4,556.41	0.00	0.00	0.00	
11,962.97	90.10	359.70	7,440.00	4,611.47	-268.77	4,619.29	0.00	0.00	0.00	
TD at 11962.97 - RATTLER 29C-34HZ BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
RATTLER 29C-34HZ BHL	0.00	0.00	7,440.00	4,611.47	-268.77	1,312,024.81	3,204,871.19	40.187579	-104.766693	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well RATTLER 29C-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 5007.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 5007.00ft
Site:	WELD_RATTLER PAD 1	North Reference:	True
Well:	RATTLER 29C-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	RATTLER 29C-34HZ		
Design:	RATTLER 29C-34HZ (wp01)		

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	
7,781.44	7,447.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,650.59	2,649.00	PARKMAN		0.00	
4,710.77	4,707.00	SUSSEX		0.00	
7,152.33	7,136.00	SHARON SPRINGS		0.00	
7,225.82	7,199.00	NIOBRARA A		0.00	
7,286.44	7,247.00	NIOBRARA B		0.00	
7,340.07	7,286.00	NIOBRARA C		0.00	
7,603.86	7,420.00	FORT HAYS		0.00	
7,704.74	7,442.00	CODELL		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,050.00	1,050.00	0.00	0.00	Start Build 2.00
1,181.54	1,181.49	-1.64	-2.53	Start 5684.79 hold at 1181.54 MD
6,866.32	6,860.28	-143.59	-221.47	Start DLS 10.00 TFO 122.65
7,781.44	7,447.00	430.00	-247.00	Start DLS 1.00 TFO -78.40
7,783.31	7,447.00	431.86	-247.01	Start 4179.66 hold at 7783.31 MD
11,962.97	7,440.00	4,611.47	-268.77	TD at 11962.97