

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_RICE PAD**

**RICE 1N-33HZ**

**RICE 1N-33HZ**

**Plan: RICE 1N-33HZ (wp05)**

## **Standard Planning Report**

**05 October, 2011**

Azimuths to True North  
 Magnetic North: 8.82°  
 Magnetic Field  
 Strength: 52985.3snT  
 Dip Angle: 66.86°  
 Date: 9/12/2011  
 Model: IGRF2010

**Project: COLORADO NORTHERN ZONE - 83**  
**Site: WELD\_RICE PAD**  
**Well: RICE 1N-33HZ**  
**Wellbore: RICE 1N-33HZ**  
**Section:**  
**SHL:**  
**Design: RICE 1N-33HZ (wp05)**  
**Latitude: 40.175955**  
**Longitude: -104.779665**  
**GL: 4941.01**  
**KB: 17' RKB + 4941' GL @ 4958.01ft**



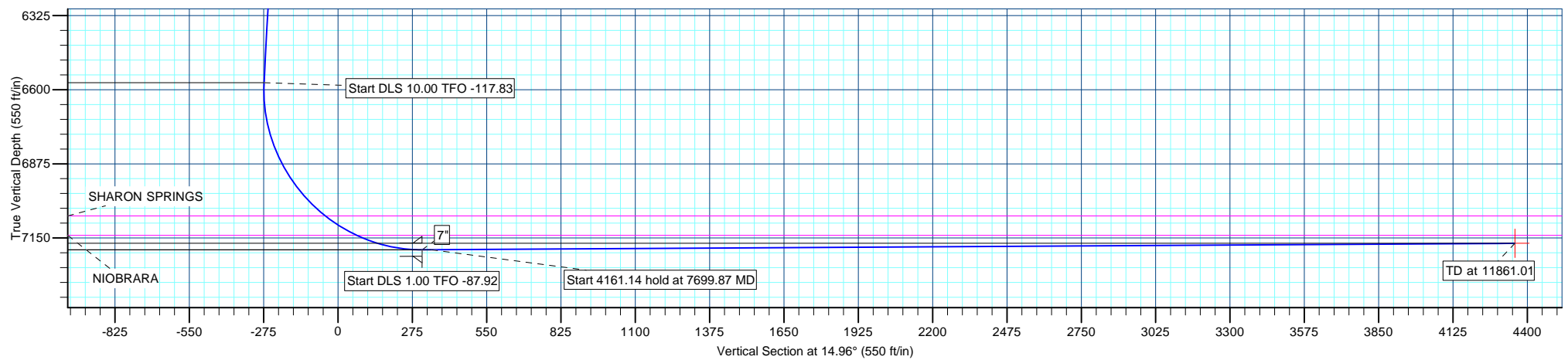
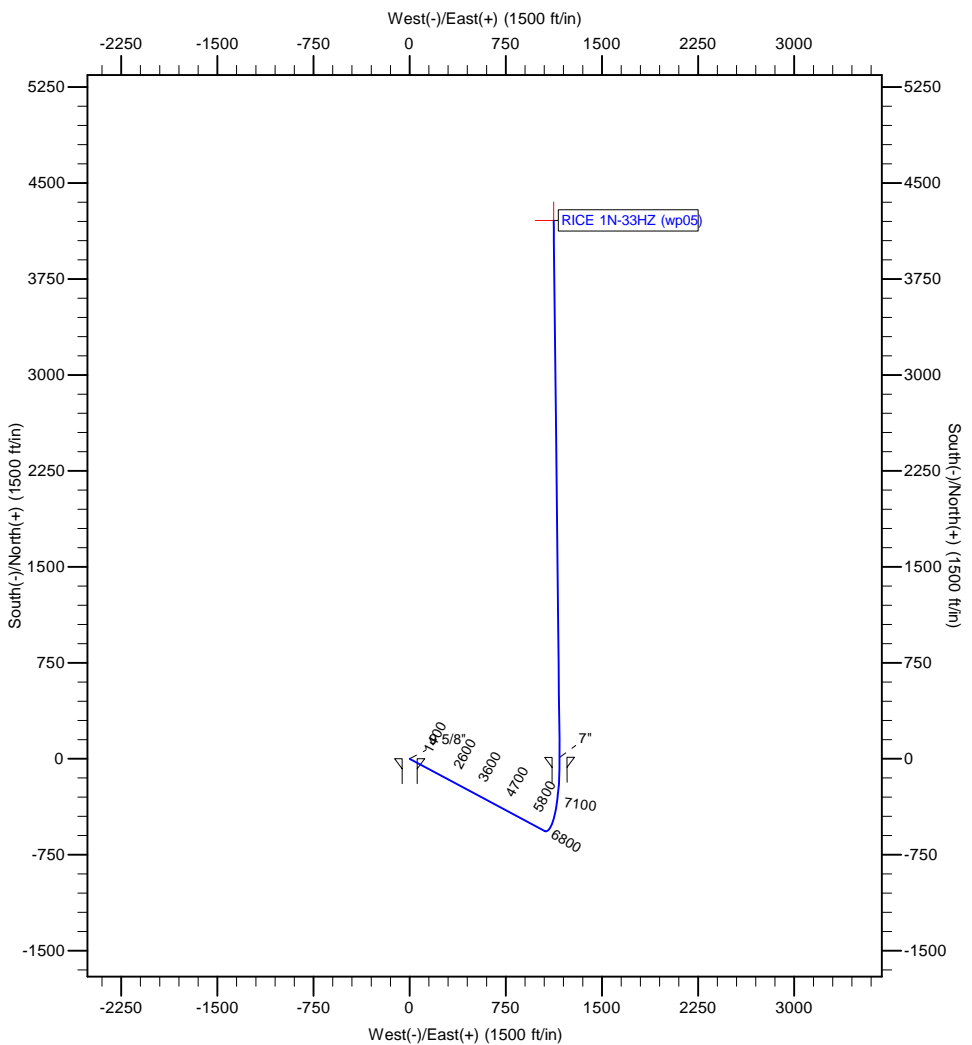
WELL DETAILS: RICE 1N-33HZ						
+N-S	+E-W	Northing	Ground Level: Easting	4941.01 Latitude	Longitude	Slot
0.00	0.00	1307760.79	3201281.55	40.175955	-104.779665	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	V Sect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	
1471.84	12.44	118.20	1466.97	-31.76	59.25	2.00	118.20	-15.39	
6701.52	12.44	118.20	6573.93	-563.93	1051.87	0.00	0.00	-273.24	
7663.52	90.31	359.74	7194.01	9.64	1170.12	10.00	-117.83	311.42	
7699.87	90.33	359.37	7193.81	45.99	1169.84	1.00	-87.92	346.46	
11861.01	90.33	359.37	7170.01	4206.81	1124.24	0.00	0.00	4354.44	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Point	Shape
RICE 1N-33HZ BHL	7170.01	4206.81	1124.24	40.187503	-104.775641		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3152.01	3197.37	PARKMAN
4404.01	4479.46	SUSSEX
7068.01	7269.25	SHARON SPRINGS
7140.01	7407.18	NIOBRARA

CASING DETAILS			
TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7194.01	7663.52	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 1N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Site:</b>	WELD_RICE PAD	<b>North Reference:</b>	True
<b>Well:</b>	RICE 1N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 1N-33HZ		
<b>Design:</b>	RICE 1N-33HZ (wp05)		

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

<b>Site</b>	WELD_RICE PAD				
<b>Site Position:</b>	<b>Northing:</b>	1,307,760.70 usft	<b>Latitude:</b>	40.175955	
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,201,265.62 usft	<b>Longitude:</b>	-104.779722
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0 "	<b>Grid Convergence:</b>	0.47 °

<b>Well</b>	RICE 1N-33HZ					
<b>Well Position</b>	<b>+N/-S</b>	-0.05 ft	<b>Northing:</b>	1,307,760.78 usft	<b>Latitude:</b>	40.175955
	<b>+E/-W</b>	15.93 ft	<b>Easting:</b>	3,201,281.55 usft	<b>Longitude:</b>	-104.779665
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,941.01 ft

<b>Wellbore</b>	RICE 1N-33HZ				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/12/2011	8.82	66.86	52,985

<b>Design</b>	RICE 1N-33HZ (wp05)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	14.96

<b>Plan Sections</b>										
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	
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,471.84	12.44	118.20	1,466.97	-31.76	59.25	2.00	2.00	0.00	118.20	
6,701.52	12.44	118.20	6,573.94	-563.93	1,051.87	0.00	0.00	0.00	0.00	
7,663.52	90.31	359.74	7,194.01	9.64	1,170.12	10.00	8.10	-12.31	-117.83	
7,699.87	90.33	359.37	7,193.81	45.99	1,169.84	1.00	0.04	-1.00	-87.92	
11,861.01	90.33	359.37	7,170.01	4,206.81	1,124.24	0.00	0.00	0.00	0.00	RICE 1N-33HZ BHL

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 1N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Site:</b>	WELD_RICE PAD	<b>North Reference:</b>	True
<b>Well:</b>	RICE 1N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 1N-33HZ		
<b>Design:</b>	RICE 1N-33HZ (wp05)		

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
<b>9 5/8"</b>									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
900.00	1.00	118.20	900.00	-0.21	0.38	-0.10	2.00	2.00	0.00
1,000.00	3.00	118.20	999.93	-1.86	3.46	-0.90	2.00	2.00	0.00
1,100.00	5.00	118.20	1,099.68	-5.15	9.61	-2.50	2.00	2.00	0.00
1,200.00	7.00	118.20	1,199.13	-10.09	18.82	-4.89	2.00	2.00	0.00
1,300.00	9.00	118.20	1,298.15	-16.67	31.08	-8.07	2.00	2.00	0.00
1,400.00	11.00	118.20	1,396.63	-24.87	46.39	-12.05	2.00	2.00	0.00
1,471.84	12.44	118.20	1,466.97	-31.76	59.25	-15.39	2.00	2.00	0.00
<b>Start 5229.68 hold at 1471.84 MD</b>									
1,500.00	12.44	118.20	1,494.47	-34.63	64.59	-16.78	0.00	0.00	0.00
1,600.00	12.44	118.20	1,592.12	-44.80	83.57	-21.71	0.00	0.00	0.00
1,700.00	12.44	118.20	1,689.77	-54.98	102.55	-26.64	0.00	0.00	0.00
1,800.00	12.44	118.20	1,787.43	-65.16	121.53	-31.57	0.00	0.00	0.00
1,900.00	12.44	118.20	1,885.08	-75.33	140.51	-36.50	0.00	0.00	0.00
2,000.00	12.44	118.20	1,982.73	-85.51	159.49	-41.43	0.00	0.00	0.00
2,100.00	12.44	118.20	2,080.39	-95.68	178.47	-46.36	0.00	0.00	0.00
2,200.00	12.44	118.20	2,178.04	-105.86	197.45	-51.29	0.00	0.00	0.00
2,300.00	12.44	118.20	2,275.70	-116.04	216.44	-56.22	0.00	0.00	0.00
2,400.00	12.44	118.20	2,373.35	-126.21	235.42	-61.15	0.00	0.00	0.00
2,500.00	12.44	118.20	2,471.00	-136.39	254.40	-66.08	0.00	0.00	0.00
2,600.00	12.44	118.20	2,568.66	-146.56	273.38	-71.01	0.00	0.00	0.00
2,700.00	12.44	118.20	2,666.31	-156.74	292.36	-75.94	0.00	0.00	0.00
2,800.00	12.44	118.20	2,763.96	-166.92	311.34	-80.87	0.00	0.00	0.00
2,900.00	12.44	118.20	2,861.62	-177.09	330.32	-85.80	0.00	0.00	0.00
3,000.00	12.44	118.20	2,959.27	-187.27	349.30	-90.74	0.00	0.00	0.00
3,100.00	12.44	118.20	3,056.92	-197.44	368.28	-95.67	0.00	0.00	0.00
3,197.37	12.44	118.20	3,152.01	-207.35	386.76	-100.47	0.00	0.00	0.00
<b>PARKMAN</b>									
3,200.00	12.44	118.20	3,154.58	-207.62	387.26	-100.60	0.00	0.00	0.00
3,300.00	12.44	118.20	3,252.23	-217.79	406.24	-105.53	0.00	0.00	0.00
3,400.00	12.44	118.20	3,349.88	-227.97	425.22	-110.46	0.00	0.00	0.00
3,500.00	12.44	118.20	3,447.54	-238.15	444.20	-115.39	0.00	0.00	0.00
3,600.00	12.44	118.20	3,545.19	-248.32	463.18	-120.32	0.00	0.00	0.00
3,700.00	12.44	118.20	3,642.84	-258.50	482.16	-125.25	0.00	0.00	0.00
3,800.00	12.44	118.20	3,740.50	-268.67	501.14	-130.18	0.00	0.00	0.00
3,900.00	12.44	118.20	3,838.15	-278.85	520.12	-135.11	0.00	0.00	0.00
4,000.00	12.44	118.20	3,935.80	-289.03	539.10	-140.04	0.00	0.00	0.00
4,100.00	12.44	118.20	4,033.46	-299.20	558.08	-144.97	0.00	0.00	0.00
4,200.00	12.44	118.20	4,131.11	-309.38	577.06	-149.90	0.00	0.00	0.00
4,300.00	12.44	118.20	4,228.76	-319.55	596.04	-154.83	0.00	0.00	0.00
4,400.00	12.44	118.20	4,326.42	-329.73	615.03	-159.76	0.00	0.00	0.00
4,479.46	12.44	118.20	4,404.01	-337.81	630.11	-163.68	0.00	0.00	0.00
<b>SUSSEX</b>									

# Anadarko Petroleum Corp

## Planning Report

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<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Site:</b>	WELD_RICE PAD	<b>North Reference:</b>	True
<b>Well:</b>	RICE 1N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 1N-33HZ		
<b>Design:</b>	RICE 1N-33HZ (wp05)		

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	12.44	118.20	4,424.07	-339.91	634.01	-164.69	0.00	0.00	0.00
4,600.00	12.44	118.20	4,521.72	-350.08	652.99	-169.62	0.00	0.00	0.00
4,700.00	12.44	118.20	4,619.38	-360.26	671.97	-174.55	0.00	0.00	0.00
4,800.00	12.44	118.20	4,717.03	-370.43	690.95	-179.48	0.00	0.00	0.00
4,900.00	12.44	118.20	4,814.68	-380.61	709.93	-184.41	0.00	0.00	0.00
5,000.00	12.44	118.20	4,912.34	-390.78	728.91	-189.34	0.00	0.00	0.00
5,100.00	12.44	118.20	5,009.99	-400.96	747.89	-194.27	0.00	0.00	0.00
5,200.00	12.44	118.20	5,107.64	-411.14	766.87	-199.21	0.00	0.00	0.00
5,300.00	12.44	118.20	5,205.30	-421.31	785.85	-204.14	0.00	0.00	0.00
5,400.00	12.44	118.20	5,302.95	-431.49	804.83	-209.07	0.00	0.00	0.00
5,500.00	12.44	118.20	5,400.61	-441.66	823.81	-214.00	0.00	0.00	0.00
5,600.00	12.44	118.20	5,498.26	-451.84	842.79	-218.93	0.00	0.00	0.00
5,700.00	12.44	118.20	5,595.91	-462.02	861.77	-223.86	0.00	0.00	0.00
5,800.00	12.44	118.20	5,693.57	-472.19	880.75	-228.79	0.00	0.00	0.00
5,900.00	12.44	118.20	5,791.22	-482.37	899.73	-233.72	0.00	0.00	0.00
6,000.00	12.44	118.20	5,888.87	-492.54	918.71	-238.65	0.00	0.00	0.00
6,100.00	12.44	118.20	5,986.53	-502.72	937.69	-243.58	0.00	0.00	0.00
6,200.00	12.44	118.20	6,084.18	-512.90	956.67	-248.51	0.00	0.00	0.00
6,300.00	12.44	118.20	6,181.83	-523.07	975.65	-253.44	0.00	0.00	0.00
6,400.00	12.44	118.20	6,279.49	-533.25	994.63	-258.37	0.00	0.00	0.00
6,500.00	12.44	118.20	6,377.14	-543.42	1,013.61	-263.30	0.00	0.00	0.00
6,600.00	12.44	118.20	6,474.79	-553.60	1,032.60	-268.23	0.00	0.00	0.00
6,700.00	12.44	118.20	6,572.45	-563.77	1,051.58	-273.16	0.00	0.00	0.00
6,701.52	12.44	118.20	6,573.94	-563.93	1,051.87	-273.24	0.00	0.00	0.00
<b>Start DLS 10.00 TFO -117.83</b>									
6,800.00	11.67	69.78	6,670.48	-565.50	1,070.60	-269.92	10.00	-0.78	-49.16
6,900.00	17.70	37.24	6,767.32	-549.87	1,089.33	-249.98	10.00	6.03	-32.55
7,000.00	26.23	22.99	6,860.04	-517.34	1,107.20	-213.94	10.00	8.53	-14.25
7,100.00	35.49	15.58	6,945.82	-468.91	1,123.67	-162.90	10.00	9.27	-7.40
7,200.00	45.04	10.96	7,022.05	-406.05	1,138.24	-98.41	10.00	9.55	-4.62
7,269.25	51.74	8.60	7,068.01	-355.05	1,146.97	-46.88	10.00	9.67	-3.42
<b>SHARON SPRINGS</b>									
7,300.00	54.73	7.68	7,086.42	-330.67	1,150.46	-22.43	10.00	9.71	-2.97
7,400.00	64.48	5.11	7,136.96	-245.05	1,159.96	62.73	10.00	9.75	-2.57
7,407.18	65.18	4.94	7,140.01	-238.58	1,160.53	69.14	10.00	9.78	-2.33
<b>NIOBRARA</b>									
7,500.00	74.27	2.93	7,172.15	-151.81	1,166.45	154.49	10.00	9.79	-2.17
7,600.00	84.08	0.95	7,190.91	-53.77	1,169.74	250.06	10.00	9.81	-1.98
7,663.52	90.31	359.74	7,194.01	9.64	1,170.12	311.42	10.00	9.82	-1.91
<b>Start DLS 1.00 TFO -87.92 - 7"</b>									
7,699.87	90.33	359.37	7,193.81	45.99	1,169.84	346.46	1.00	0.04	-1.00
<b>Start 4161.14 hold at 7699.87 MD</b>									
7,700.00	90.33	359.37	7,193.81	46.12	1,169.84	346.59	0.00	0.00	0.00
7,800.00	90.33	359.37	7,193.24	146.11	1,168.74	442.90	0.00	0.00	0.00
7,900.00	90.33	359.37	7,192.67	246.10	1,167.64	539.22	0.00	0.00	0.00
8,000.00	90.33	359.37	7,192.09	346.10	1,166.55	635.54	0.00	0.00	0.00
8,100.00	90.33	359.37	7,191.52	446.09	1,165.45	731.86	0.00	0.00	0.00
8,200.00	90.33	359.37	7,190.95	546.08	1,164.36	828.18	0.00	0.00	0.00
8,300.00	90.33	359.37	7,190.38	646.07	1,163.26	924.50	0.00	0.00	0.00
8,400.00	90.33	359.37	7,189.81	746.06	1,162.17	1,020.82	0.00	0.00	0.00
8,500.00	90.33	359.37	7,189.24	846.06	1,161.07	1,117.14	0.00	0.00	0.00
8,600.00	90.33	359.37	7,188.66	946.05	1,159.97	1,213.46	0.00	0.00	0.00
8,700.00	90.33	359.37	7,188.09	1,046.04	1,158.88	1,309.78	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 1N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Site:</b>	WELD_RICE PAD	<b>North Reference:</b>	True
<b>Well:</b>	RICE 1N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 1N-33HZ		
<b>Design:</b>	RICE 1N-33HZ (wp05)		

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	90.33	359.37	7,187.52	1,146.03	1,157.78	1,406.10	0.00	0.00	0.00	
8,900.00	90.33	359.37	7,186.95	1,246.03	1,156.69	1,502.42	0.00	0.00	0.00	
9,000.00	90.33	359.37	7,186.38	1,346.02	1,155.59	1,598.74	0.00	0.00	0.00	
9,100.00	90.33	359.37	7,185.80	1,446.01	1,154.49	1,695.06	0.00	0.00	0.00	
9,200.00	90.33	359.37	7,185.23	1,546.00	1,153.40	1,791.38	0.00	0.00	0.00	
9,300.00	90.33	359.37	7,184.66	1,646.00	1,152.30	1,887.69	0.00	0.00	0.00	
9,400.00	90.33	359.37	7,184.09	1,745.99	1,151.21	1,984.01	0.00	0.00	0.00	
9,500.00	90.33	359.37	7,183.52	1,845.98	1,150.11	2,080.33	0.00	0.00	0.00	
9,600.00	90.33	359.37	7,182.94	1,945.97	1,149.02	2,176.65	0.00	0.00	0.00	
9,700.00	90.33	359.37	7,182.37	2,045.97	1,147.92	2,272.97	0.00	0.00	0.00	
9,800.00	90.33	359.37	7,181.80	2,145.96	1,146.82	2,369.29	0.00	0.00	0.00	
9,900.00	90.33	359.37	7,181.23	2,245.95	1,145.73	2,465.61	0.00	0.00	0.00	
10,000.00	90.33	359.37	7,180.66	2,345.94	1,144.63	2,561.93	0.00	0.00	0.00	
10,100.00	90.33	359.37	7,180.09	2,445.93	1,143.54	2,658.25	0.00	0.00	0.00	
10,200.00	90.33	359.37	7,179.51	2,545.93	1,142.44	2,754.57	0.00	0.00	0.00	
10,300.00	90.33	359.37	7,178.94	2,645.92	1,141.35	2,850.89	0.00	0.00	0.00	
10,400.00	90.33	359.37	7,178.37	2,745.91	1,140.25	2,947.21	0.00	0.00	0.00	
10,500.00	90.33	359.37	7,177.80	2,845.90	1,139.15	3,043.53	0.00	0.00	0.00	
10,600.00	90.33	359.37	7,177.23	2,945.90	1,138.06	3,139.85	0.00	0.00	0.00	
10,700.00	90.33	359.37	7,176.65	3,045.89	1,136.96	3,236.17	0.00	0.00	0.00	
10,800.00	90.33	359.37	7,176.08	3,145.88	1,135.87	3,332.48	0.00	0.00	0.00	
10,900.00	90.33	359.37	7,175.51	3,245.87	1,134.77	3,428.80	0.00	0.00	0.00	
11,000.00	90.33	359.37	7,174.94	3,345.87	1,133.68	3,525.12	0.00	0.00	0.00	
11,100.00	90.33	359.37	7,174.37	3,445.86	1,132.58	3,621.44	0.00	0.00	0.00	
11,200.00	90.33	359.37	7,173.79	3,545.85	1,131.48	3,717.76	0.00	0.00	0.00	
11,300.00	90.33	359.37	7,173.22	3,645.84	1,130.39	3,814.08	0.00	0.00	0.00	
11,400.00	90.33	359.37	7,172.65	3,745.84	1,129.29	3,910.40	0.00	0.00	0.00	
11,500.00	90.33	359.37	7,172.08	3,845.83	1,128.20	4,006.72	0.00	0.00	0.00	
11,600.00	90.33	359.37	7,171.51	3,945.82	1,127.10	4,103.04	0.00	0.00	0.00	
11,700.00	90.33	359.37	7,170.94	4,045.81	1,126.01	4,199.36	0.00	0.00	0.00	
11,800.00	90.33	359.37	7,170.36	4,145.80	1,124.91	4,295.68	0.00	0.00	0.00	
11,861.01	90.33	359.37	7,170.01	4,206.81	1,124.24	4,354.44	0.00	0.00	0.00	
<b>TD at 11861.01 - RICE 1N-33HZ BHL</b>										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RICE 1N-33HZ BHL	0.00	0.47	7,170.01	4,206.81	1,124.24	1,311,976.58	3,202,371.58	40.187503	-104.775641
- hit/miss target - Shape - Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
700.00	700.00	9 5/8"	9-5/8	12-1/4	
7,663.52	7,194.01	7"	7	8-3/4	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 1N-33HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	17' RKB + 4941' GL @ 4958.01ft
<b>Site:</b>	WELD_RICE PAD	<b>North Reference:</b>	True
<b>Well:</b>	RICE 1N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 1N-33HZ		
<b>Design:</b>	RICE 1N-33HZ (wp05)		

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,197.37	3,152.01	PARKMAN		0.00	
4,479.46	4,404.01	SUSSEX		0.00	
7,269.25	7,068.01	SHARON SPRINGS		0.00	
7,407.18	7,140.01	NIOBRARA		0.00	

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
850.00	850.00	0.00	0.00	Start Build 2.00
1,471.84	1,466.97	-31.76	59.25	Start 5229.68 hold at 1471.84 MD
6,701.52	6,573.94	-563.93	1,051.87	Start DLS 10.00 TFO -117.83
7,663.52	7,194.01	9.64	1,170.12	Start DLS 1.00 TFO -87.92
7,699.87	7,193.81	45.99	1,169.84	Start 4161.14 hold at 7699.87 MD
11,861.01	7,170.01	4,206.81	1,124.24	TD at 11861.01