

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_RICE PAD**

**RICE 27N-33HZ**

**RICE 27N-33HZ**

**Plan: RICE 27N-33HZ (wp03)**

## **Standard Planning Report**

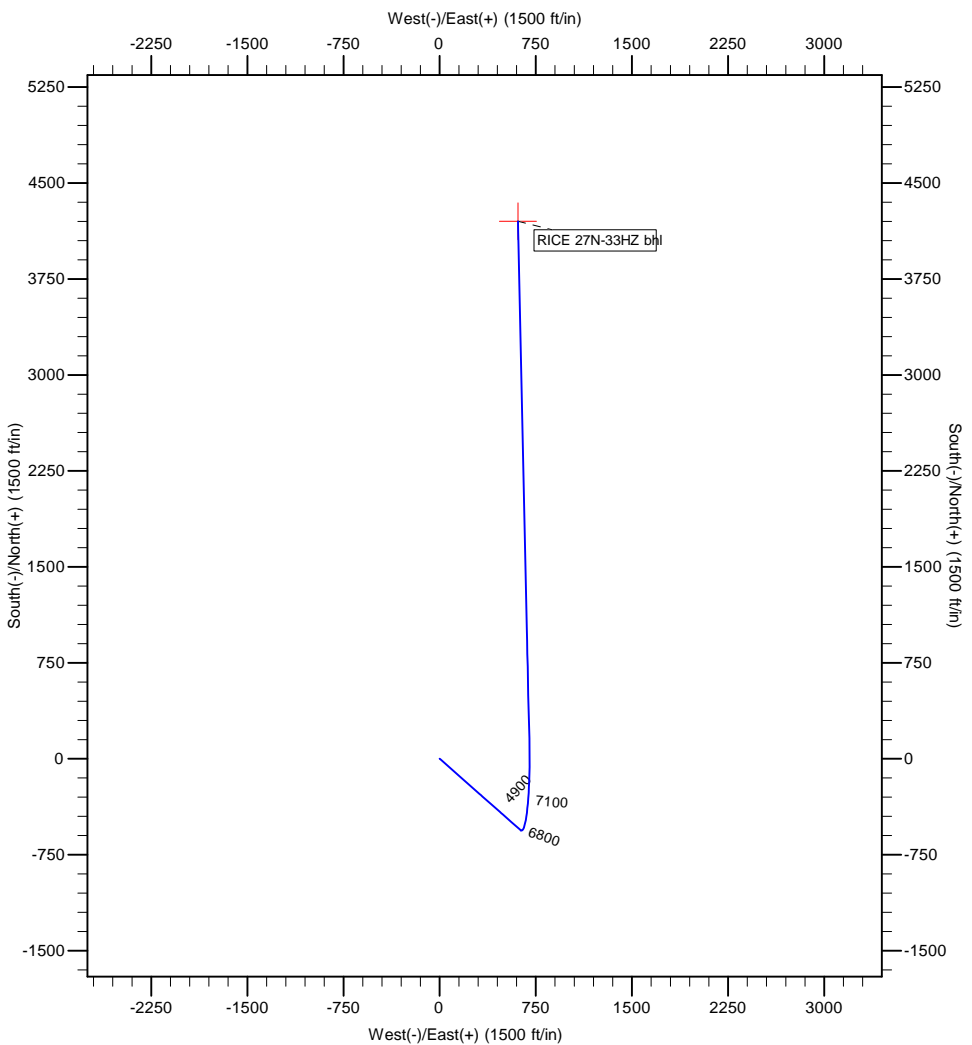
**04 October, 2011**

Azimuths to True North  
Magnetic North: 8.82°

Magnetic Field  
Strength: 52988.8snT  
Dip Angle: 66.86°  
Date: 8/31/2011  
Model: IGRF2010



**Project: COLORADO NORTHERN ZONE - 83**  
**Site: WELD\_RICE PAD**  
**Well: RICE 27N-33HZ**  
**Wellbore: RICE 27N-33HZ**  
**Section:**  
**SHL:**  
**Design: RICE 27N-33HZ (wp03)**  
**Latitude: 40.175955**  
**Longitude: -104.779722**  
**GL: 4941.01**  
**KB: 17' RKB + 4941' GL @ 4958.01ft**



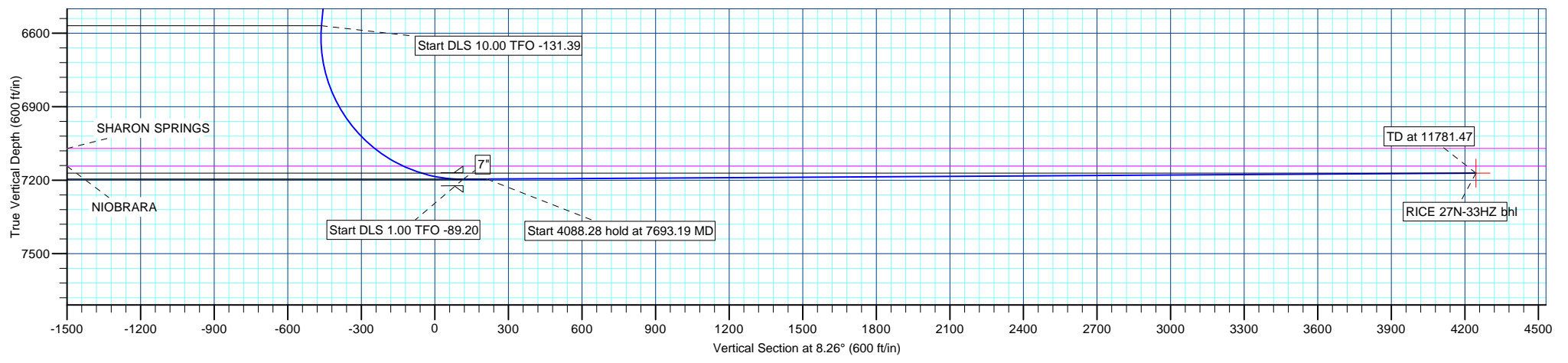
WELL DETAILS: RICE 27N-33HZ						
+N-S	+E-W	Northing	Ground Level: Easting	4941.01 Latitude	Longitude	Slot
0.00	0.00	1307760.69	3201265.62	40.175955	-104.779722	

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	
850.00	0.00	0.47	850.00	0.00	0.00	0.00	0.47	0.00	
1285.81	8.72	131.49	1284.13	-21.92	24.78	2.00	131.49	-18.13	
6632.80	8.72	131.49	6569.37	-558.75	631.71	0.00	0.00	-462.16	
7593.99	90.33	359.74	7196.01	14.87	701.14	10.00	-131.39	115.49	
7693.19	90.34	358.74	7195.43	114.06	699.82	1.00	-89.20	213.46	
11781.47	90.34	358.74	7171.01	4201.29	610.17	0.00	0.00	4245.37	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Point	Shape
RICE 27N-33HZ bhl	7171.01	4201.29	610.17	40.187488	-104.777538		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3154.01	3177.53	PARKMAN
4406.01	4444.16	SUSSEX
7070.01	7202.04	SHARON SPRINGS
7142.01	7339.08	NIOBRARA

CASING DETAILS			
TVD	MD	Name	Size
700.00	700.00	9 5/8"	9-5/8
7196.01	7593.90	7"	7



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 27N-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 27N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 27N-33HZ		
<b>Design:</b>	RICE 27N-33HZ (wp03)		

<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 27N-33HZ					
<b>Well Position</b>	<b>+N/-S</b>	-0.01 ft	<b>Northing:</b>	1,307,760.69 usft	<b>Latitude:</b>	40.175955
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	3,201,265.62 usft	<b>Longitude:</b>	-104.779722
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	4,941.01 ft

<b>Wellbore</b>	RICE 27N-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	8/31/2011	8.82	66.86	52,989

<b>Design</b>	RICE 27N-33HZ (wp03)			
<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	8.26

<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	0.47	850.00	0.00	0.00	0.00	0.00	0.00	0.47	
1,285.81	8.72	131.49	1,284.13	-21.92	24.78	2.00	2.00	0.00	131.49	
6,632.80	8.72	131.49	6,569.37	-558.75	631.71	0.00	0.00	0.00	0.00	
7,593.99	90.33	359.74	7,196.01	14.87	701.14	10.00	8.49	-13.71	-131.39	
7,693.19	90.34	358.74	7,195.43	114.06	699.82	1.00	0.01	-1.00	-89.20	
11,781.47	90.34	358.74	7,171.01	4,201.29	610.17	0.00	0.00	0.00	0.00	RICE 27N-33HZ bhl

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 27N-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 27N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 27N-33HZ		
<b>Design:</b>	RICE 27N-33HZ (wp03)		

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	0.47	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.47	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.47	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.47	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.47	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.47	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.47	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>9 5/8"</b>										
800.00	0.00	0.47	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
850.00	0.00	0.47	850.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Start Build 2.00</b>										
900.00	1.00	131.49	900.00	-0.29	0.33	-0.24	2.00	2.00	0.00	
1,000.00	3.00	131.49	999.93	-2.60	2.94	-2.15	2.00	2.00	0.00	
1,100.00	5.00	131.49	1,099.68	-7.22	8.17	-5.97	2.00	2.00	0.00	
1,200.00	7.00	131.49	1,199.13	-14.15	15.99	-11.70	2.00	2.00	0.00	
1,285.81	8.72	131.49	1,284.13	-21.92	24.78	-18.13	2.00	2.00	0.00	
<b>Start 5347.00 hold at 1285.81 MD</b>										
1,300.00	8.72	131.49	1,298.16	-23.34	26.39	-19.31	0.00	0.00	0.00	
1,400.00	8.72	131.49	1,397.00	-33.38	37.74	-27.61	0.00	0.00	0.00	
1,500.00	8.72	131.49	1,495.85	-43.42	49.09	-35.92	0.00	0.00	0.00	
1,600.00	8.72	131.49	1,594.69	-53.46	60.44	-44.22	0.00	0.00	0.00	
1,700.00	8.72	131.49	1,693.54	-63.50	71.80	-52.53	0.00	0.00	0.00	
1,800.00	8.72	131.49	1,792.38	-73.54	83.15	-60.83	0.00	0.00	0.00	
1,900.00	8.72	131.49	1,891.23	-83.58	94.50	-69.13	0.00	0.00	0.00	
2,000.00	8.72	131.49	1,990.07	-93.62	105.85	-77.44	0.00	0.00	0.00	
2,100.00	8.72	131.49	2,088.92	-103.66	117.20	-85.74	0.00	0.00	0.00	
2,200.00	8.72	131.49	2,187.76	-113.70	128.55	-94.05	0.00	0.00	0.00	
2,300.00	8.72	131.49	2,286.61	-123.74	139.90	-102.35	0.00	0.00	0.00	
2,400.00	8.72	131.49	2,385.45	-133.78	151.25	-110.65	0.00	0.00	0.00	
2,500.00	8.72	131.49	2,484.30	-143.82	162.60	-118.96	0.00	0.00	0.00	
2,600.00	8.72	131.49	2,583.14	-153.86	173.95	-127.26	0.00	0.00	0.00	
2,700.00	8.72	131.49	2,681.99	-163.90	185.30	-135.57	0.00	0.00	0.00	
2,800.00	8.72	131.49	2,780.83	-173.94	196.65	-143.87	0.00	0.00	0.00	
2,900.00	8.72	131.49	2,879.68	-183.98	208.00	-152.18	0.00	0.00	0.00	
3,000.00	8.72	131.49	2,978.52	-194.02	219.36	-160.48	0.00	0.00	0.00	
3,100.00	8.72	131.49	3,077.37	-204.06	230.71	-168.78	0.00	0.00	0.00	
3,177.53	8.72	131.49	3,154.01	-211.85	239.51	-175.22	0.00	0.00	0.00	
<b>PARKMAN</b>										
3,200.00	8.72	131.49	3,176.21	-214.10	242.06	-177.09	0.00	0.00	0.00	
3,300.00	8.72	131.49	3,275.06	-224.14	253.41	-185.39	0.00	0.00	0.00	
3,400.00	8.72	131.49	3,373.91	-234.18	264.76	-193.70	0.00	0.00	0.00	
3,500.00	8.72	131.49	3,472.75	-244.22	276.11	-202.00	0.00	0.00	0.00	
3,600.00	8.72	131.49	3,571.60	-254.26	287.46	-210.31	0.00	0.00	0.00	
3,700.00	8.72	131.49	3,670.44	-264.30	298.81	-218.61	0.00	0.00	0.00	
3,800.00	8.72	131.49	3,769.29	-274.34	310.16	-226.91	0.00	0.00	0.00	
3,900.00	8.72	131.49	3,868.13	-284.38	321.51	-235.22	0.00	0.00	0.00	
4,000.00	8.72	131.49	3,966.98	-294.42	332.86	-243.52	0.00	0.00	0.00	
4,100.00	8.72	131.49	4,065.82	-304.46	344.21	-251.83	0.00	0.00	0.00	
4,200.00	8.72	131.49	4,164.67	-314.50	355.56	-260.13	0.00	0.00	0.00	
4,300.00	8.72	131.49	4,263.51	-324.54	366.91	-268.43	0.00	0.00	0.00	
4,400.00	8.72	131.49	4,362.36	-334.58	378.27	-276.74	0.00	0.00	0.00	
4,444.16	8.72	131.49	4,406.01	-339.01	383.28	-280.41	0.00	0.00	0.00	
<b>SUSSEX</b>										

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 27N-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 27N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 27N-33HZ		
<b>Design:</b>	RICE 27N-33HZ (wp03)		

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	8.72	131.49	4,461.20	-344.62	389.62	-285.04	0.00	0.00	0.00
4,600.00	8.72	131.49	4,560.05	-354.66	400.97	-293.35	0.00	0.00	0.00
4,700.00	8.72	131.49	4,658.89	-364.70	412.32	-301.65	0.00	0.00	0.00
4,800.00	8.72	131.49	4,757.74	-374.74	423.67	-309.96	0.00	0.00	0.00
4,900.00	8.72	131.49	4,856.58	-384.78	435.02	-318.26	0.00	0.00	0.00
5,000.00	8.72	131.49	4,955.43	-394.82	446.37	-326.56	0.00	0.00	0.00
5,100.00	8.72	131.49	5,054.27	-404.86	457.72	-334.87	0.00	0.00	0.00
5,200.00	8.72	131.49	5,153.12	-414.90	469.07	-343.17	0.00	0.00	0.00
5,300.00	8.72	131.49	5,251.96	-424.94	480.42	-351.48	0.00	0.00	0.00
5,400.00	8.72	131.49	5,350.81	-434.98	491.77	-359.78	0.00	0.00	0.00
5,500.00	8.72	131.49	5,449.65	-445.02	503.12	-368.09	0.00	0.00	0.00
5,600.00	8.72	131.49	5,548.50	-455.06	514.47	-376.39	0.00	0.00	0.00
5,700.00	8.72	131.49	5,647.34	-465.10	525.83	-384.69	0.00	0.00	0.00
5,800.00	8.72	131.49	5,746.19	-475.14	537.18	-393.00	0.00	0.00	0.00
5,900.00	8.72	131.49	5,845.03	-485.18	548.53	-401.30	0.00	0.00	0.00
6,000.00	8.72	131.49	5,943.88	-495.22	559.88	-409.61	0.00	0.00	0.00
6,100.00	8.72	131.49	6,042.72	-505.26	571.23	-417.91	0.00	0.00	0.00
6,200.00	8.72	131.49	6,141.57	-515.30	582.58	-426.21	0.00	0.00	0.00
6,300.00	8.72	131.49	6,240.41	-525.34	593.93	-434.52	0.00	0.00	0.00
6,400.00	8.72	131.49	6,339.26	-535.38	605.28	-442.82	0.00	0.00	0.00
6,500.00	8.72	131.49	6,438.10	-545.42	616.63	-451.13	0.00	0.00	0.00
6,600.00	8.72	131.49	6,536.95	-555.46	627.98	-459.43	0.00	0.00	0.00
6,632.80	8.72	131.49	6,569.37	-558.75	631.71	-462.16	0.00	0.00	0.00
<b>Start DLS 10.00 TFO -131.39</b>									
6,700.00	6.59	81.63	6,636.04	-561.56	639.35	-463.84	10.00	-3.16	-74.20
6,800.00	12.71	30.25	6,734.73	-551.20	650.60	-451.97	10.00	6.12	-51.38
6,900.00	21.88	16.33	6,830.15	-523.74	661.41	-423.24	10.00	9.17	-13.93
7,000.00	31.55	10.52	6,919.38	-480.03	671.45	-378.54	10.00	9.66	-5.81
7,100.00	41.36	7.24	6,999.73	-421.38	680.41	-319.22	10.00	9.81	-3.27
7,200.00	51.23	5.05	7,068.74	-349.59	688.02	-247.08	10.00	9.87	-2.20
7,202.04	51.43	5.01	7,070.01	-348.00	688.16	-245.48	10.00	9.89	-1.86
<b>SHARON SPRINGS</b>									
7,300.00	61.14	3.39	7,124.32	-266.84	694.05	-164.31	10.00	9.91	-1.65
7,339.08	65.01	2.83	7,142.01	-232.05	695.94	-129.62	10.00	9.92	-1.43
<b>NIOBRARA</b>									
7,400.00	71.06	2.02	7,164.79	-175.63	698.32	-73.44	10.00	9.92	-1.32
7,500.00	80.99	0.81	7,188.91	-78.74	700.70	22.79	10.00	9.93	-1.21
7,593.90	90.32	359.74	7,196.02	14.78	701.14	115.40	10.00	9.93	-1.15
<b>7"</b>									
7,593.99	90.33	359.74	7,196.01	14.87	701.14	115.49	10.00	9.94	-1.14
<b>Start DLS 1.00 TFO -89.20</b>									
7,600.00	90.33	359.68	7,195.98	20.88	701.11	121.44	1.00	0.01	-1.00
7,693.19	90.34	358.74	7,195.43	114.06	699.82	213.46	1.00	0.01	-1.00
<b>Start 4088.28 hold at 7693.19 MD</b>									
7,700.00	90.34	358.74	7,195.39	120.87	699.67	220.18	0.00	0.00	0.00
7,800.00	90.34	358.74	7,194.80	220.84	697.48	318.80	0.00	0.00	0.00
7,900.00	90.34	358.74	7,194.20	320.82	695.29	417.42	0.00	0.00	0.00
8,000.00	90.34	358.74	7,193.60	420.79	693.10	516.04	0.00	0.00	0.00
8,100.00	90.34	358.74	7,193.00	520.77	690.90	614.66	0.00	0.00	0.00
8,200.00	90.34	358.74	7,192.41	620.74	688.71	713.28	0.00	0.00	0.00
8,300.00	90.34	358.74	7,191.81	720.72	686.52	811.90	0.00	0.00	0.00
8,400.00	90.34	358.74	7,191.21	820.69	684.32	910.52	0.00	0.00	0.00
8,500.00	90.34	358.74	7,190.61	920.66	682.13	1,009.15	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 27N-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 27N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 27N-33HZ		
<b>Design:</b>	RICE 27N-33HZ (wp03)		

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)	
8,600.00	90.34	358.74	7,190.02	1,020.64	679.94	1,107.77	0.00	0.00	0.00	
8,700.00	90.34	358.74	7,189.42	1,120.61	677.75	1,206.39	0.00	0.00	0.00	
8,800.00	90.34	358.74	7,188.82	1,220.59	675.55	1,305.01	0.00	0.00	0.00	
8,900.00	90.34	358.74	7,188.23	1,320.56	673.36	1,403.63	0.00	0.00	0.00	
9,000.00	90.34	358.74	7,187.63	1,420.53	671.17	1,502.25	0.00	0.00	0.00	
9,100.00	90.34	358.74	7,187.03	1,520.51	668.97	1,600.87	0.00	0.00	0.00	
9,200.00	90.34	358.74	7,186.43	1,620.48	666.78	1,699.49	0.00	0.00	0.00	
9,300.00	90.34	358.74	7,185.84	1,720.46	664.59	1,798.11	0.00	0.00	0.00	
9,400.00	90.34	358.74	7,185.24	1,820.43	662.40	1,896.73	0.00	0.00	0.00	
9,500.00	90.34	358.74	7,184.64	1,920.41	660.20	1,995.36	0.00	0.00	0.00	
9,600.00	90.34	358.74	7,184.04	2,020.38	658.01	2,093.98	0.00	0.00	0.00	
9,700.00	90.34	358.74	7,183.45	2,120.35	655.82	2,192.60	0.00	0.00	0.00	
9,800.00	90.34	358.74	7,182.85	2,220.33	653.62	2,291.22	0.00	0.00	0.00	
9,900.00	90.34	358.74	7,182.25	2,320.30	651.43	2,389.84	0.00	0.00	0.00	
10,000.00	90.34	358.74	7,181.66	2,420.28	649.24	2,488.46	0.00	0.00	0.00	
10,100.00	90.34	358.74	7,181.06	2,520.25	647.05	2,587.08	0.00	0.00	0.00	
10,200.00	90.34	358.74	7,180.46	2,620.22	644.85	2,685.70	0.00	0.00	0.00	
10,300.00	90.34	358.74	7,179.86	2,720.20	642.66	2,784.32	0.00	0.00	0.00	
10,400.00	90.34	358.74	7,179.27	2,820.17	640.47	2,882.94	0.00	0.00	0.00	
10,500.00	90.34	358.74	7,178.67	2,920.15	638.27	2,981.57	0.00	0.00	0.00	
10,600.00	90.34	358.74	7,178.07	3,020.12	636.08	3,080.19	0.00	0.00	0.00	
10,700.00	90.34	358.74	7,177.47	3,120.10	633.89	3,178.81	0.00	0.00	0.00	
10,800.00	90.34	358.74	7,176.88	3,220.07	631.70	3,277.43	0.00	0.00	0.00	
10,900.00	90.34	358.74	7,176.28	3,320.04	629.50	3,376.05	0.00	0.00	0.00	
11,000.00	90.34	358.74	7,175.68	3,420.02	627.31	3,474.67	0.00	0.00	0.00	
11,100.00	90.34	358.74	7,175.08	3,519.99	625.12	3,573.29	0.00	0.00	0.00	
11,200.00	90.34	358.74	7,174.49	3,619.97	622.93	3,671.91	0.00	0.00	0.00	
11,300.00	90.34	358.74	7,173.89	3,719.94	620.73	3,770.53	0.00	0.00	0.00	
11,400.00	90.34	358.74	7,173.29	3,819.91	618.54	3,869.15	0.00	0.00	0.00	
11,500.00	90.34	358.74	7,172.70	3,919.89	616.35	3,967.78	0.00	0.00	0.00	
11,600.00	90.34	358.74	7,172.10	4,019.86	614.15	4,066.40	0.00	0.00	0.00	
11,700.00	90.34	358.74	7,171.50	4,119.84	611.96	4,165.02	0.00	0.00	0.00	
11,781.47	90.34	358.74	7,171.01	4,201.29	610.17	4,245.37	0.00	0.00	0.00	
<b>TD at 11781.47 - RICE 27N-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 27N-33HZ bhl	0.00	0.47	7,171.01	4,201.29	610.17	1,311,966.79	3,201,841.65	40.187488	-104.777538
- hit/miss target									
- Shape									
- plan hits target center									
- 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	
7,593.90	7,196.02	7"	7	8-3/4	

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well RICE 27N-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 27N-33HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	RICE 27N-33HZ		
<b>Design:</b>	RICE 27N-33HZ (wp03)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,177.53	3,154.01	PARKMAN		0.00	
4,444.16	4,406.01	SUSSEX		0.00	
7,202.04	7,070.01	SHARON SPRINGS		0.00	
7,339.08	7,142.01	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	
1,285.81	1,284.13	-21.92	24.78	Start 5347.00 hold at 1285.81 MD	
6,632.80	6,569.37	-558.75	631.71	Start DLS 10.00 TFO -131.39	
7,593.99	7,196.01	14.87	701.14	Start DLS 1.00 TFO -89.20	
7,693.19	7,195.43	114.06	699.82	Start 4088.28 hold at 7693.19 MD	
11,781.47	7,171.01	4,201.29	610.17	TD at 11781.47	