

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N**

**1N-68W-08 PAPA JO 2-25 19-8HZ Pad**

**PAPA JO 2-25 35C-17HZ**

**Plan A**

**Plan: Permit Rev-1**

## **Standard Planning Report**

**11 August, 2016**



Azimuths to True North  
Magnetic North: 8.28°

Magnetic Field  
Strength: 52381.8snT  
Dip Angle: 66.56°  
Date: 8/9/2016  
Model: IGRF2010

SITE: 1N-68W-08 PAPA JO 2-25 19-8HZ Pad

Well: PAPA JO 2-25 35C-17HZ  
Wellbore: Plan A  
Design: Permit Rev-1

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1020.00	1025.31	Fox Hills
4196.00	4274.75	Parkman
4624.00	4708.20	Sussex
7414.00	7502.90	Sharon Springs
7455.00	7546.94	Niobrara
7587.00	7700.12	Nio B
7687.00	7837.89	Nio C
7811.00	8097.14	Fort Hayes
7831.00	8184.98	Codell

#### WELL DETAILS: PAPA JO 2-25 35C-17HZ

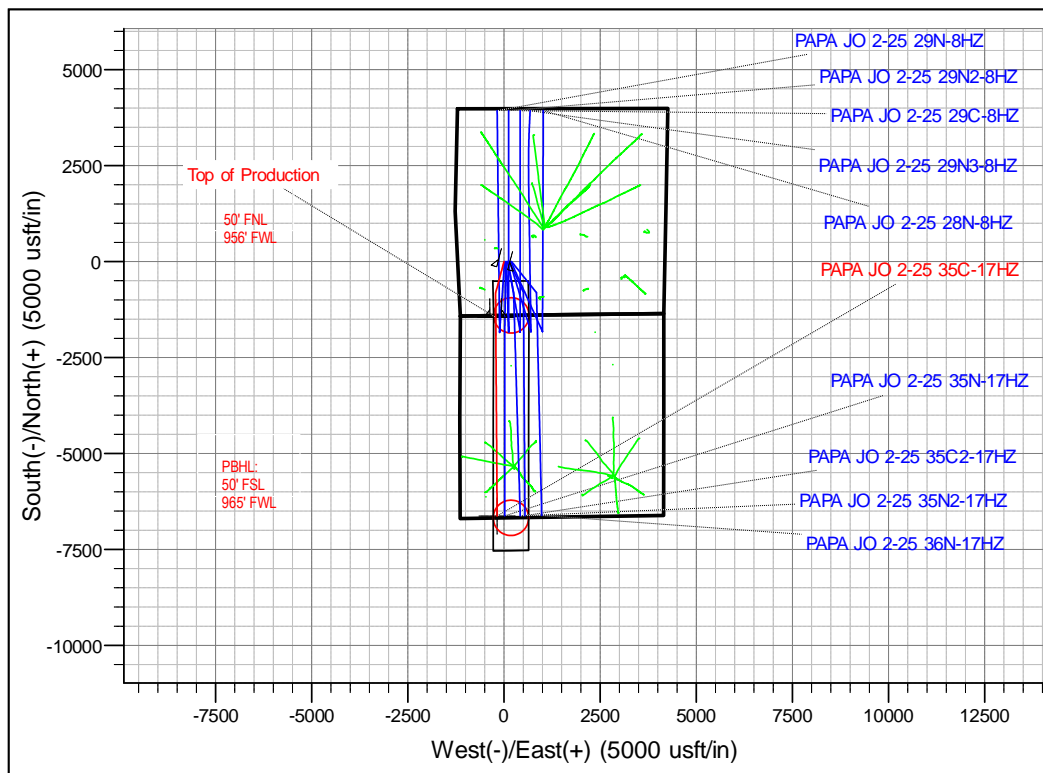
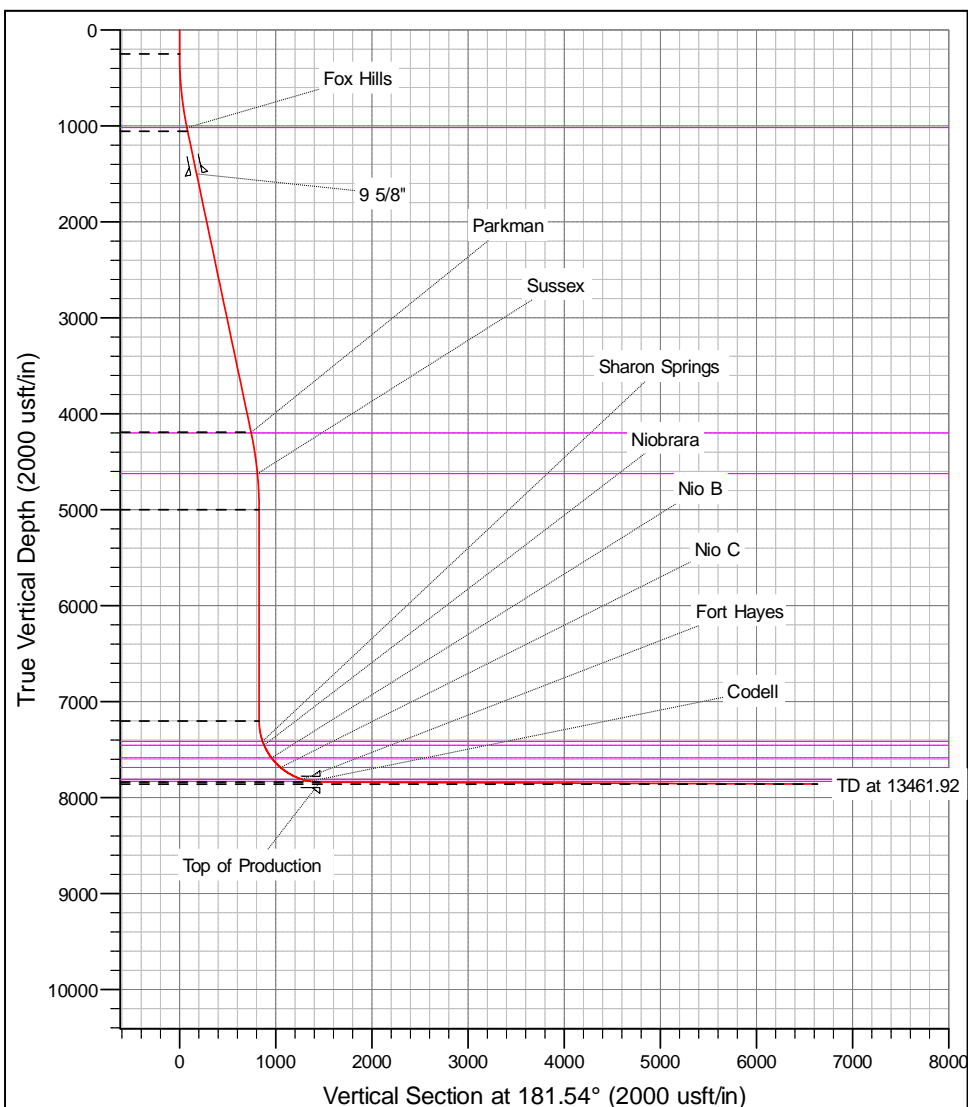
+N/-S	+E/-W	GL: 5065.00	RKB @ 5082.00usft (Original Well Elev)	Longitude	Slot
0.00	0.00	North 14549337.87	Easting 1631173.85	Latitude 40.062071	-105.033034

#### SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00
1063.87	12.21	194.98	1057.73	-83.44	-22.33	1.50	84.01
4270.94	12.21	194.98	4192.27	-738.56	-197.67	0.00	743.61
5084.81	0.00	0.00	5000.00	-822.00	-220.00	1.50	827.62
7287.42	0.00	0.00	7202.60	-822.00	-220.00	0.00	827.62
8284.86	89.77	179.59	7839.22	-1456.05	-215.46	9.001461	31
13461.92	89.77	179.59	7860.00	-6632.94	-178.38	0.006635	34

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude
PAPA JO 2-25 35C-17HZ_PBL	7860.00	-6632.94	-178.38	14542705.00	1630993.00	40.043856	-105.033671



# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35C-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Site:</b>	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	PAPA JO 2-25 35C-17HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

<b>Project</b>	WELD-NAD83-UTMFT13N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

Site						1N-68W-08 PAPA JO 2-25 19-8HZ Pad											
Site Position:						Northing:			14,549,337.87 usft			Latitude:			40.062071		
From:			Lat/Long			Easting:			1,631,173.84 usft			Longitude:			-105.033034		
Position Uncertainty:			0.00 usft			Slot Radius:			13-3/16 "			Grid Convergence:			-0.02		

Well	PAPA JO 2-25 35C-17HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,549,337.87 usft	Latitude:	40.062071
	+E/-W	0.00 usft	Easting:	1,631,173.84 usft	Longitude:	-105.033034
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,065.00 usft

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/9/2016	8.29	66.56	52,382

<b>Design</b>	Permit Rev-1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	181.54

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,063.87	12.21	194.98	1,057.73	-83.44	-22.33	1.50	1.50	0.00	194.98	
4,270.94	12.21	194.98	4,192.27	-738.56	-197.67	0.00	0.00	0.00	0.00	
5,084.81	0.00	0.00	5,000.00	-822.00	-220.00	1.50	-1.50	0.00	180.00	
7,287.42	0.00	0.00	7,202.60	-822.00	-220.00	0.00	0.00	0.00	0.00	
8,284.86	89.77	179.59	7,839.22	-1,456.05	-215.46	9.00	9.00	0.00	179.59	
13,461.92	89.77	179.59	7,860.00	-6,632.94	-178.38	0.00	0.00	0.00	0.00	PAPA JO 2-25 35C

# Anadarko

## Planning Report

**Database:** PLANNING  
**Company:** US ROCKIES WATTENBERG PLANNING  
**Project:** WELD-NAD83-UTMFT13N  
**Site:** 1N-68W-08 PAPA JO 2-25 19-8HZ Pad  
**Well:** PAPA JO 2-25 35C-17HZ  
**Wellbore:** Plan A  
**Design:** Permit Rev-1

**Local Co-ordinate Reference:** Well PAPA JO 2-25 35C-17HZ  
**TVD Reference:** RKB @ 5082.00usft (Original Well Elev)  
**MD Reference:** RKB @ 5082.00usft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.75	194.98	300.00	-0.32	-0.08	0.32	1.50	1.50	0.00
400.00	2.25	194.98	399.96	-2.84	-0.76	2.86	1.50	1.50	0.00
500.00	3.75	194.98	499.82	-7.90	-2.11	7.95	1.50	1.50	0.00
600.00	5.25	194.98	599.51	-15.48	-4.14	15.58	1.50	1.50	0.00
700.00	6.75	194.98	698.96	-25.58	-6.85	25.75	1.50	1.50	0.00
800.00	8.25	194.98	798.10	-38.18	-10.22	38.45	1.50	1.50	0.00
900.00	9.75	194.98	896.87	-53.30	-14.26	53.66	1.50	1.50	0.00
1,000.00	11.25	194.98	995.19	-70.90	-18.98	71.38	1.50	1.50	0.00
1,025.31	11.63	194.98	1,020.00	-75.75	-20.27	76.27	1.50	1.50	0.00
Fox Hills									
1,063.87	12.21	194.98	1,057.73	-83.44	-22.33	84.01	1.50	1.50	0.00
1,100.00	12.21	194.98	1,093.04	-90.82	-24.31	91.44	0.00	0.00	0.00
1,200.00	12.21	194.98	1,190.78	-111.25	-29.77	112.01	0.00	0.00	0.00
1,300.00	12.21	194.98	1,288.52	-131.68	-35.24	132.58	0.00	0.00	0.00
1,400.00	12.21	194.98	1,386.25	-152.10	-40.71	153.14	0.00	0.00	0.00
1,500.00	12.21	194.98	1,483.99	-172.53	-46.18	173.71	0.00	0.00	0.00
1,516.38	12.21	194.98	1,500.00	-175.88	-47.07	177.08	0.00	0.00	0.00
9 5/8"									
1,600.00	12.21	194.98	1,581.73	-192.96	-51.64	194.28	0.00	0.00	0.00
1,700.00	12.21	194.98	1,679.47	-213.39	-57.11	214.84	0.00	0.00	0.00
1,800.00	12.21	194.98	1,777.21	-233.81	-62.58	235.41	0.00	0.00	0.00
1,900.00	12.21	194.98	1,874.95	-254.24	-68.04	255.98	0.00	0.00	0.00
2,000.00	12.21	194.98	1,972.69	-274.67	-73.51	276.54	0.00	0.00	0.00
2,100.00	12.21	194.98	2,070.42	-295.09	-78.98	297.11	0.00	0.00	0.00
2,200.00	12.21	194.98	2,168.16	-315.52	-84.45	317.68	0.00	0.00	0.00
2,300.00	12.21	194.98	2,265.90	-335.95	-89.91	338.24	0.00	0.00	0.00
2,400.00	12.21	194.98	2,363.64	-356.38	-95.38	358.81	0.00	0.00	0.00
2,500.00	12.21	194.98	2,461.38	-376.80	-100.85	379.38	0.00	0.00	0.00
2,600.00	12.21	194.98	2,559.12	-397.23	-106.31	399.95	0.00	0.00	0.00
2,700.00	12.21	194.98	2,656.86	-417.66	-111.78	420.51	0.00	0.00	0.00
2,800.00	12.21	194.98	2,754.60	-438.09	-117.25	441.08	0.00	0.00	0.00
2,900.00	12.21	194.98	2,852.33	-458.51	-122.72	461.65	0.00	0.00	0.00
3,000.00	12.21	194.98	2,950.07	-478.94	-128.18	482.21	0.00	0.00	0.00
3,100.00	12.21	194.98	3,047.81	-499.37	-133.65	502.78	0.00	0.00	0.00
3,200.00	12.21	194.98	3,145.55	-519.79	-139.12	523.35	0.00	0.00	0.00
3,300.00	12.21	194.98	3,243.29	-540.22	-144.58	543.91	0.00	0.00	0.00
3,400.00	12.21	194.98	3,341.03	-560.65	-150.05	564.48	0.00	0.00	0.00
3,500.00	12.21	194.98	3,438.77	-581.08	-155.52	585.05	0.00	0.00	0.00
3,600.00	12.21	194.98	3,536.50	-601.50	-160.99	605.61	0.00	0.00	0.00
3,700.00	12.21	194.98	3,634.24	-621.93	-166.45	626.18	0.00	0.00	0.00
3,800.00	12.21	194.98	3,731.98	-642.36	-171.92	646.75	0.00	0.00	0.00
3,900.00	12.21	194.98	3,829.72	-662.79	-177.39	667.31	0.00	0.00	0.00
4,000.00	12.21	194.98	3,927.46	-683.21	-182.85	687.88	0.00	0.00	0.00
4,100.00	12.21	194.98	4,025.20	-703.64	-188.32	708.45	0.00	0.00	0.00
4,200.00	12.21	194.98	4,122.94	-724.07	-193.79	729.01	0.00	0.00	0.00
4,270.94	12.21	194.98	4,192.27	-738.56	-197.67	743.61	0.00	0.00	0.00
4,274.75	12.15	194.98	4,196.00	-739.34	-197.88	744.39	1.50	-1.50	0.00
Parkman									
4,300.00	11.77	194.98	4,220.70	-744.39	-199.23	749.48	1.50	-1.50	0.00

# Anadarko

## Planning Report

**Database:** PLANNING  
**Company:** US ROCKIES WATTENBERG PLANNING  
**Project:** WELD-NAD83-UTMFT13N  
**Site:** 1N-68W-08 PAPA JO 2-25 19-8HZ Pad  
**Well:** PAPA JO 2-25 35C-17HZ  
**Wellbore:** Plan A  
**Design:** Permit Rev-1

**Local Co-ordinate Reference:** Well PAPA JO 2-25 35C-17HZ  
**TVD Reference:** RKB @ 5082.00usft (Original Well Elev)  
**MD Reference:** RKB @ 5082.00usft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	10.27	194.98	4,318.85	-762.86	-204.17	768.07	1.50	-1.50	0.00
4,500.00	8.77	194.98	4,417.47	-778.84	-208.45	784.16	1.50	-1.50	0.00
4,600.00	7.27	194.98	4,516.49	-792.32	-212.06	797.73	1.50	-1.50	0.00
4,700.00	5.77	194.98	4,615.84	-803.29	-214.99	808.78	1.50	-1.50	0.00
4,708.20	5.65	194.98	4,624.00	-804.08	-215.20	809.57	1.50	-1.50	0.00
Sussex									
4,800.00	4.27	194.98	4,715.45	-811.75	-217.26	817.29	1.50	-1.50	0.00
4,900.00	2.77	194.98	4,815.26	-817.68	-218.84	823.27	1.50	-1.50	0.00
5,000.00	1.27	194.98	4,915.19	-821.09	-219.76	826.70	1.50	-1.50	0.00
5,084.81	0.00	0.00	5,000.00	-822.00	-220.00	827.62	1.50	-1.50	0.00
5,100.00	0.00	0.00	5,015.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,200.00	0.00	0.00	5,115.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,300.00	0.00	0.00	5,215.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,400.00	0.00	0.00	5,315.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,500.00	0.00	0.00	5,415.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,600.00	0.00	0.00	5,515.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,700.00	0.00	0.00	5,615.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,800.00	0.00	0.00	5,715.19	-822.00	-220.00	827.62	0.00	0.00	0.00
5,900.00	0.00	0.00	5,815.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,000.00	0.00	0.00	5,915.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,100.00	0.00	0.00	6,015.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,200.00	0.00	0.00	6,115.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,300.00	0.00	0.00	6,215.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,400.00	0.00	0.00	6,315.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,500.00	0.00	0.00	6,415.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,600.00	0.00	0.00	6,515.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,700.00	0.00	0.00	6,615.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,800.00	0.00	0.00	6,715.19	-822.00	-220.00	827.62	0.00	0.00	0.00
6,900.00	0.00	0.00	6,815.19	-822.00	-220.00	827.62	0.00	0.00	0.00
7,000.00	0.00	0.00	6,915.19	-822.00	-220.00	827.62	0.00	0.00	0.00
7,100.00	0.00	0.00	7,015.19	-822.00	-220.00	827.62	0.00	0.00	0.00
7,200.00	0.00	0.00	7,115.19	-822.00	-220.00	827.62	0.00	0.00	0.00
7,287.42	0.00	0.00	7,202.60	-822.00	-220.00	827.62	0.00	0.00	0.00
7,300.00	1.13	179.59	7,215.19	-822.12	-220.00	827.74	9.00	9.00	0.00
7,400.00	10.13	179.59	7,314.60	-831.93	-219.93	837.54	9.00	9.00	0.00
7,500.00	19.13	179.59	7,411.26	-857.16	-219.75	862.76	9.00	9.00	0.00
7,502.90	19.39	179.59	7,414.00	-858.12	-219.74	863.72	9.00	9.00	0.00
Sharon Springs									
7,546.94	23.36	179.59	7,455.00	-874.17	-219.63	879.76	9.00	9.00	0.00
Niobrara									
7,600.00	28.13	179.59	7,502.78	-897.21	-219.46	902.78	9.00	9.00	0.00
7,700.00	37.13	179.59	7,586.91	-951.08	-219.08	956.62	9.00	9.00	0.00
7,700.12	37.13	179.59	7,587.00	-951.15	-219.08	956.69	0.00	0.00	0.00
Nio B									
7,800.00	46.13	179.59	7,661.57	-1,017.44	-218.60	1,022.95	9.01	9.01	0.00
7,837.89	49.54	179.59	7,687.00	-1,045.52	-218.40	1,051.02	9.00	9.00	0.00
Nio C									
7,900.00	55.13	179.59	7,724.94	-1,094.67	-218.05	1,100.14	9.00	9.00	0.00
8,000.00	64.13	179.59	7,775.44	-1,180.86	-217.43	1,186.28	9.00	9.00	0.00
8,097.14	72.88	179.59	7,811.00	-1,271.16	-216.78	1,276.52	9.00	9.00	0.00
Fort Hayes									
8,100.00	73.13	179.59	7,811.84	-1,273.89	-216.76	1,279.25	9.00	9.00	0.00
8,184.98	80.78	179.59	7,831.00	-1,356.61	-216.17	1,361.94	9.00	9.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35C-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Site:</b>	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	PAPA JO 2-25 35C-17HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Codell</b>									
8,200.00	82.13	179.59	7,833.23	-1,371.46	-216.06	1,376.78	9.00	9.00	0.00
8,284.86	89.77	179.59	7,839.22	-1,456.05	-215.46	1,461.31	9.00	9.00	0.00
<b>Top of Production - PAPA JO 2-25 35C-17HZ_PHL</b>									
8,300.00	89.77	179.59	7,839.28	-1,471.19	-215.35	1,476.44	0.00	0.00	0.00
8,400.00	89.77	179.59	7,839.68	-1,571.18	-214.63	1,576.39	0.00	0.00	0.00
8,500.00	89.77	179.59	7,840.08	-1,671.18	-213.92	1,676.33	0.00	0.00	0.00
8,600.00	89.77	179.59	7,840.48	-1,771.18	-213.20	1,776.27	0.00	0.00	0.00
8,700.00	89.77	179.59	7,840.88	-1,871.17	-212.49	1,876.21	0.00	0.00	0.00
8,800.00	89.77	179.59	7,841.29	-1,971.17	-211.77	1,976.15	0.00	0.00	0.00
8,900.00	89.77	179.59	7,841.69	-2,071.17	-211.05	2,076.09	0.00	0.00	0.00
9,000.00	89.77	179.59	7,842.09	-2,171.16	-210.34	2,176.03	0.00	0.00	0.00
9,100.00	89.77	179.59	7,842.49	-2,271.16	-209.62	2,275.97	0.00	0.00	0.00
9,200.00	89.77	179.59	7,842.89	-2,371.16	-208.91	2,375.92	0.00	0.00	0.00
9,300.00	89.77	179.59	7,843.29	-2,471.15	-208.19	2,475.86	0.00	0.00	0.00
9,400.00	89.77	179.59	7,843.69	-2,571.15	-207.47	2,575.80	0.00	0.00	0.00
9,500.00	89.77	179.59	7,844.10	-2,671.15	-206.76	2,675.74	0.00	0.00	0.00
9,600.00	89.77	179.59	7,844.50	-2,771.14	-206.04	2,775.68	0.00	0.00	0.00
9,700.00	89.77	179.59	7,844.90	-2,871.14	-205.32	2,875.62	0.00	0.00	0.00
9,800.00	89.77	179.59	7,845.30	-2,971.14	-204.61	2,975.56	0.00	0.00	0.00
9,900.00	89.77	179.59	7,845.70	-3,071.13	-203.89	3,075.50	0.00	0.00	0.00
10,000.00	89.77	179.59	7,846.10	-3,171.13	-203.18	3,175.45	0.00	0.00	0.00
10,100.00	89.77	179.59	7,846.50	-3,271.13	-202.46	3,275.39	0.00	0.00	0.00
10,200.00	89.77	179.59	7,846.91	-3,371.12	-201.74	3,375.33	0.00	0.00	0.00
10,300.00	89.77	179.59	7,847.31	-3,471.12	-201.03	3,475.27	0.00	0.00	0.00
10,400.00	89.77	179.59	7,847.71	-3,571.12	-200.31	3,575.21	0.00	0.00	0.00
10,500.00	89.77	179.59	7,848.11	-3,671.11	-199.60	3,675.15	0.00	0.00	0.00
10,600.00	89.77	179.59	7,848.51	-3,771.11	-198.88	3,775.09	0.00	0.00	0.00
10,700.00	89.77	179.59	7,848.91	-3,871.11	-198.16	3,875.03	0.00	0.00	0.00
10,800.00	89.77	179.59	7,849.31	-3,971.10	-197.45	3,974.98	0.00	0.00	0.00
10,900.00	89.77	179.59	7,849.72	-4,071.10	-196.73	4,074.92	0.00	0.00	0.00
11,000.00	89.77	179.59	7,850.12	-4,171.10	-196.01	4,174.86	0.00	0.00	0.00
11,100.00	89.77	179.59	7,850.52	-4,271.09	-195.30	4,274.80	0.00	0.00	0.00
11,200.00	89.77	179.59	7,850.92	-4,371.09	-194.58	4,374.74	0.00	0.00	0.00
11,300.00	89.77	179.59	7,851.32	-4,471.09	-193.87	4,474.68	0.00	0.00	0.00
11,400.00	89.77	179.59	7,851.72	-4,571.08	-193.15	4,574.62	0.00	0.00	0.00
11,500.00	89.77	179.59	7,852.12	-4,671.08	-192.43	4,674.56	0.00	0.00	0.00
11,600.00	89.77	179.59	7,852.53	-4,771.08	-191.72	4,774.51	0.00	0.00	0.00
11,700.00	89.77	179.59	7,852.93	-4,871.07	-191.00	4,874.45	0.00	0.00	0.00
11,800.00	89.77	179.59	7,853.33	-4,971.07	-190.29	4,974.39	0.00	0.00	0.00
11,900.00	89.77	179.59	7,853.73	-5,071.07	-189.57	5,074.33	0.00	0.00	0.00
12,000.00	89.77	179.59	7,854.13	-5,171.06	-188.85	5,174.27	0.00	0.00	0.00
12,100.00	89.77	179.59	7,854.53	-5,271.06	-188.14	5,274.21	0.00	0.00	0.00
12,200.00	89.77	179.59	7,854.93	-5,371.06	-187.42	5,374.15	0.00	0.00	0.00
12,300.00	89.77	179.59	7,855.34	-5,471.05	-186.71	5,474.09	0.00	0.00	0.00
12,400.00	89.77	179.59	7,855.74	-5,571.05	-185.99	5,574.04	0.00	0.00	0.00
12,500.00	89.77	179.59	7,856.14	-5,671.05	-185.27	5,673.98	0.00	0.00	0.00
12,600.00	89.77	179.59	7,856.54	-5,771.04	-184.56	5,773.92	0.00	0.00	0.00
12,700.00	89.77	179.59	7,856.94	-5,871.04	-183.84	5,873.86	0.00	0.00	0.00
12,800.00	89.77	179.59	7,857.34	-5,971.04	-183.12	5,973.80	0.00	0.00	0.00
12,900.00	89.77	179.59	7,857.74	-6,071.03	-182.41	6,073.74	0.00	0.00	0.00
13,000.00	89.77	179.59	7,858.15	-6,171.03	-181.69	6,173.68	0.00	0.00	0.00
13,100.00	89.77	179.59	7,858.55	-6,271.03	-180.98	6,273.62	0.00	0.00	0.00
13,200.00	89.77	179.59	7,858.95	-6,371.02	-180.26	6,373.57	0.00	0.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35C-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 5082.00usft (Original Well Elev)
<b>Site:</b>	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	PAPA JO 2-25 35C-17HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,300.00	89.77	179.59	7,859.35	-6,471.02	-179.54	6,473.51	0.00	0.00	0.00	
13,400.00	89.77	179.59	7,859.75	-6,571.02	-178.83	6,573.45	0.00	0.00	0.00	
13,461.92	89.77	179.59	7,860.00	-6,632.94	-178.38	6,635.34	0.00	0.00	0.00	
PAPA JO 2-25 35C-17HZ_PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PAPA JO 2-25 35C-17	0.00	0.00	7,839.22	-1,456.05	-215.46	14,547,881.90	1,630,957.84	40.058073	-105.033804	
- plan hits target center										
- Point										
PAPA JO 2-25 35C-17	0.00	0.00	7,860.00	-6,632.94	-178.38	14,542,705.00	1,630,993.00	40.043856	-105.033672	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,516.38	1,500.00	9 5/8"	9-5/8	13-1/2		
8,284.86	7,839.22	Top of Production	5-1/2	8-1/2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,025.31	1,020.00	Fox Hills				
4,274.75	4,196.00	Parkman				
4,708.20	4,624.00	Sussex				
7,502.90	7,414.00	Sharon Springs				
7,546.94	7,455.00	Niobrara				
7,700.12	7,587.00	Nio B				
7,837.89	7,687.00	Nio C				
8,097.14	7,811.00	Fort Hayes				
8,184.98	7,831.00	Codell				