

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N**

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

**PAPA JO 2-25 35N2-17HZ**

**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 35N2-17HZ  
Wellbore: Plan A  
Design: Permit Rev-1

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1020.00	1024.72	Fox Hills
4196.00	4242.42	Parkman
4624.00	4676.04	Sussex
7413.00	7522.96	Sharon Springs
7454.00	7582.23	Niobrara
7585.00	7856.40	Nio B

#### WELL DETAILS: PAPA JO 2-25 35N2-17HZ

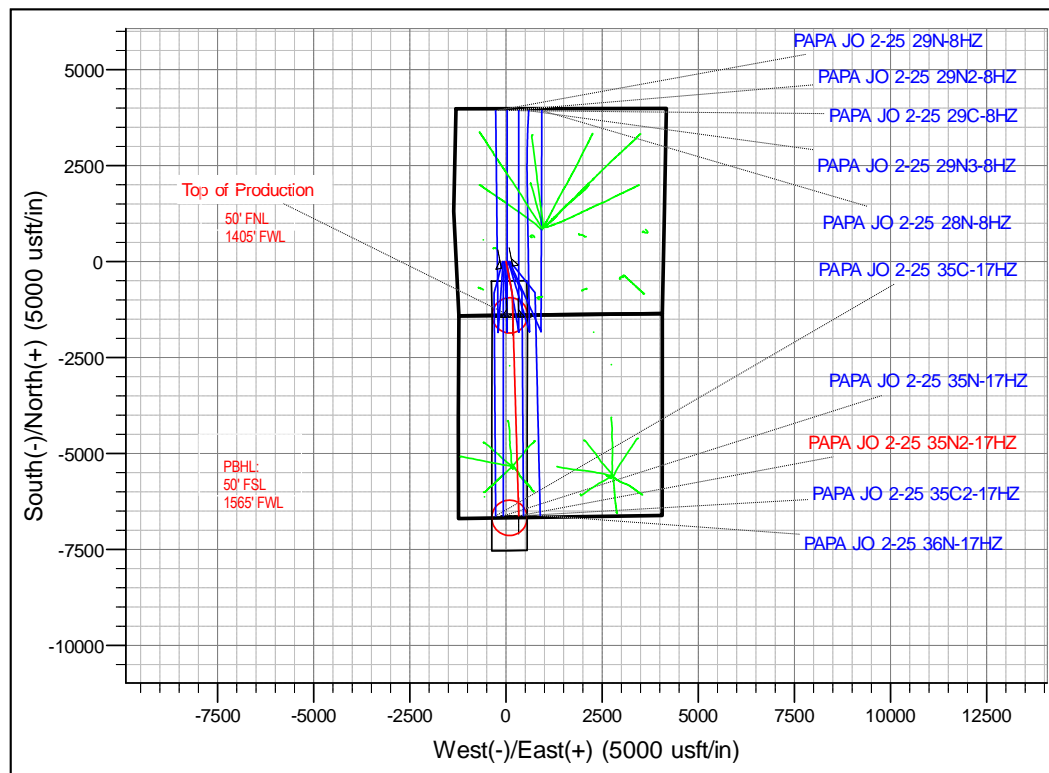
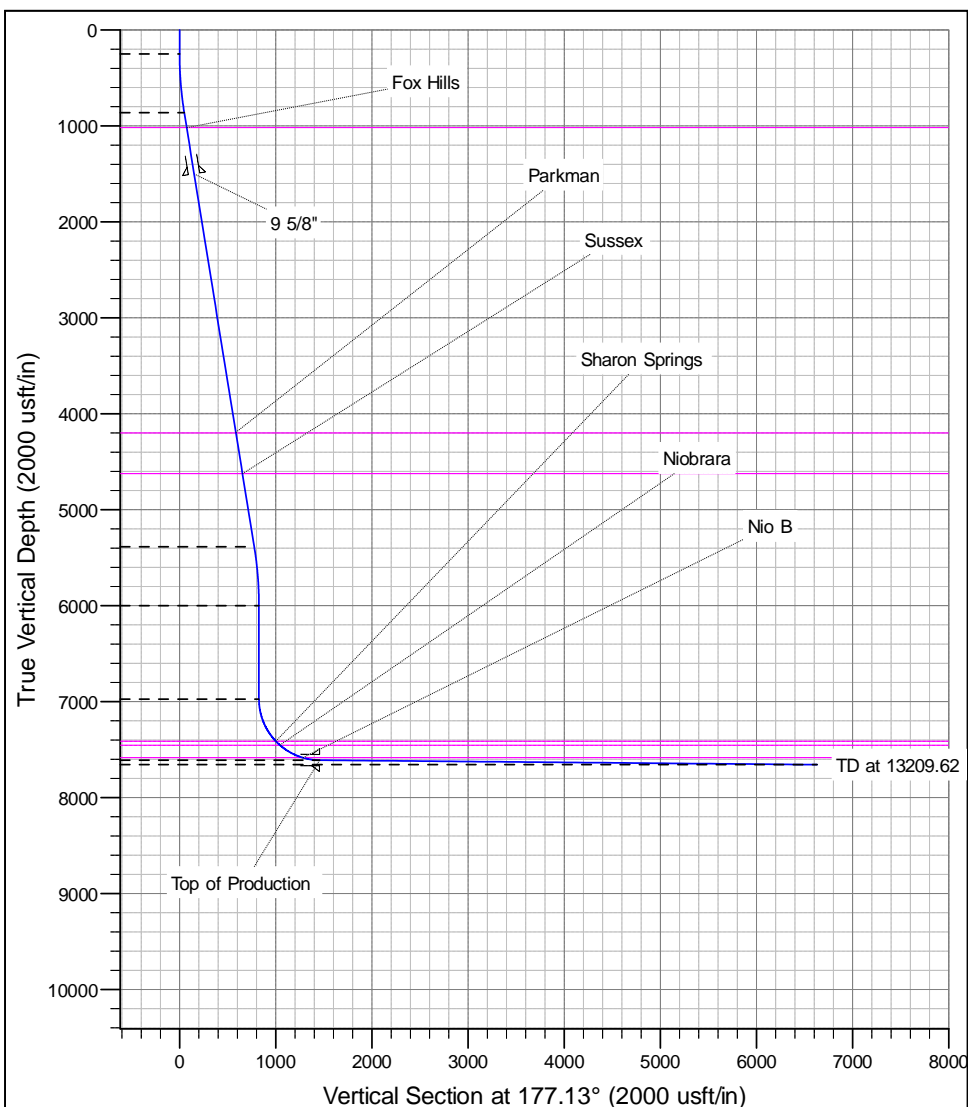
+N/-S	+E/-W	GL: 5065.00	RKB @ 5082.00usft (Original Well Elev)	Slot
0.00	0.00	North 14549337.47	Easting 1631263.94 Latitude 40.062070 Longitude -105.032712	

#### 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
865.58	9.23	168.95	862.92	-48.58	9.49	1.50	48.99
5449.13	9.23	168.95	5387.08	-770.42	150.51	0.00	776.98
6064.72	0.00	0.00	6000.00	-819.00	160.00	1.50	825.97
7039.15	0.00	0.00	6974.43	-819.00	160.00	0.00	825.97
8033.37	89.48	178.31	7611.02	-1449.57	178.63	9.00	1456.68
13209.62	89.48	178.31	7658.00	-6623.35	331.49	0.00	6631.64

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude
PAPA JO 2-25 35N2-17HZ_PBHL	7658.00	-6623.35	331.49	14542714.00	1631593.00	40.043881	-105.031528



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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35N2-17HZ
<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 35N2-17HZ	<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 35N2-17HZ					
Well Position	+N-S	-0.36 usft	Northing:	14,549,337.47 usft	Latitude:	40.062070
	+E-W	90.09 usft	Easting:	1,631,263.94 usft	Longitude:	-105.032712
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	177.13

<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	
865.58	9.23	168.95	862.92	-48.58	9.49	1.50	1.50	0.00	168.95	
5,449.13	9.23	168.95	5,387.08	-770.42	150.51	0.00	0.00	0.00	0.00	
6,064.72	0.00	0.00	6,000.00	-819.00	160.00	1.50	-1.50	0.00	180.00	
7,039.15	0.00	0.00	6,974.43	-819.00	160.00	0.00	0.00	0.00	0.00	
8,033.37	89.48	178.31	7,611.02	-1,449.57	178.63	9.00	9.00	0.00	178.31	
13,209.62	89.48	178.31	7,658.00	-6,623.35	331.49	0.00	0.00	0.00	0.00	PAPA JO 2-25 35N:

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## 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 35N2-17HZ  
**Wellbore:** Plan A  
**Design:** Permit Rev-1

**Local Co-ordinate Reference:** Well PAPA JO 2-25 35N2-17HZ  
**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	168.95	300.00	-0.32	0.06	0.32	1.50	1.50	0.00
400.00	2.25	168.95	399.96	-2.89	0.56	2.91	1.50	1.50	0.00
500.00	3.75	168.95	499.82	-8.03	1.57	8.09	1.50	1.50	0.00
600.00	5.25	168.95	599.51	-15.73	3.07	15.86	1.50	1.50	0.00
700.00	6.75	168.95	698.96	-25.99	5.08	26.21	1.50	1.50	0.00
800.00	8.25	168.95	798.10	-38.80	7.58	39.13	1.50	1.50	0.00
865.58	9.23	168.95	862.92	-48.58	9.49	48.99	1.50	1.50	0.00
900.00	9.23	168.95	896.89	-54.00	10.55	54.46	0.00	0.00	0.00
1,000.00	9.23	168.95	995.60	-69.75	13.63	70.34	0.00	0.00	0.00
1,024.72	9.23	168.95	1,020.00	-73.64	14.39	74.27	0.00	0.00	0.00
<b>Fox Hills</b>									
1,100.00	9.23	168.95	1,094.30	-85.50	16.70	86.22	0.00	0.00	0.00
1,200.00	9.23	168.95	1,193.01	-101.24	19.78	102.11	0.00	0.00	0.00
1,300.00	9.23	168.95	1,291.71	-116.99	22.86	117.99	0.00	0.00	0.00
1,400.00	9.23	168.95	1,390.41	-132.74	25.93	133.87	0.00	0.00	0.00
1,500.00	9.23	168.95	1,489.12	-148.49	29.01	149.75	0.00	0.00	0.00
1,511.02	9.23	168.95	1,500.00	-150.23	29.35	151.51	0.00	0.00	0.00
<b>9 5/8"</b>									
1,600.00	9.23	168.95	1,587.82	-164.24	32.09	165.64	0.00	0.00	0.00
1,700.00	9.23	168.95	1,686.53	-179.99	35.16	181.52	0.00	0.00	0.00
1,800.00	9.23	168.95	1,785.23	-195.74	38.24	197.40	0.00	0.00	0.00
1,900.00	9.23	168.95	1,883.93	-211.48	41.32	213.28	0.00	0.00	0.00
2,000.00	9.23	168.95	1,982.64	-227.23	44.39	229.17	0.00	0.00	0.00
2,100.00	9.23	168.95	2,081.34	-242.98	47.47	245.05	0.00	0.00	0.00
2,200.00	9.23	168.95	2,180.05	-258.73	50.55	260.93	0.00	0.00	0.00
2,300.00	9.23	168.95	2,278.75	-274.48	53.62	276.82	0.00	0.00	0.00
2,400.00	9.23	168.95	2,377.46	-290.23	56.70	292.70	0.00	0.00	0.00
2,500.00	9.23	168.95	2,476.16	-305.98	59.78	308.58	0.00	0.00	0.00
2,600.00	9.23	168.95	2,574.86	-321.72	62.85	324.46	0.00	0.00	0.00
2,700.00	9.23	168.95	2,673.57	-337.47	65.93	340.35	0.00	0.00	0.00
2,800.00	9.23	168.95	2,772.27	-353.22	69.01	356.23	0.00	0.00	0.00
2,900.00	9.23	168.95	2,870.98	-368.97	72.08	372.11	0.00	0.00	0.00
3,000.00	9.23	168.95	2,969.68	-384.72	75.16	387.99	0.00	0.00	0.00
3,100.00	9.23	168.95	3,068.38	-400.47	78.24	403.88	0.00	0.00	0.00
3,200.00	9.23	168.95	3,167.09	-416.22	81.31	419.76	0.00	0.00	0.00
3,300.00	9.23	168.95	3,265.79	-431.96	84.39	435.64	0.00	0.00	0.00
3,400.00	9.23	168.95	3,364.50	-447.71	87.47	451.53	0.00	0.00	0.00
3,500.00	9.23	168.95	3,463.20	-463.46	90.54	467.41	0.00	0.00	0.00
3,600.00	9.23	168.95	3,561.91	-479.21	93.62	483.29	0.00	0.00	0.00
3,700.00	9.23	168.95	3,660.61	-494.96	96.70	499.17	0.00	0.00	0.00
3,800.00	9.23	168.95	3,759.31	-510.71	99.77	515.06	0.00	0.00	0.00
3,900.00	9.23	168.95	3,858.02	-526.46	102.85	530.94	0.00	0.00	0.00
4,000.00	9.23	168.95	3,956.72	-542.20	105.93	546.82	0.00	0.00	0.00
4,100.00	9.23	168.95	4,055.43	-557.95	109.00	562.70	0.00	0.00	0.00
4,200.00	9.23	168.95	4,154.13	-573.70	112.08	578.59	0.00	0.00	0.00
4,242.42	9.23	168.95	4,196.00	-580.38	113.38	585.32	0.00	0.00	0.00
<b>Parkman</b>									
4,300.00	9.23	168.95	4,252.84	-589.45	115.16	594.47	0.00	0.00	0.00
4,400.00	9.23	168.95	4,351.54	-605.20	118.23	610.35	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35N2-17HZ
<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 35N2-17HZ	<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)
4,500.00	9.23	168.95	4,450.24	-620.95	121.31	626.23	0.00	0.00	0.00
4,600.00	9.23	168.95	4,548.95	-636.70	124.38	642.12	0.00	0.00	0.00
4,676.04	9.23	168.95	4,624.00	-648.67	126.72	654.19	0.00	0.00	0.00
<b>Sussex</b>									
4,700.00	9.23	168.95	4,647.65	-652.44	127.46	658.00	0.00	0.00	0.00
4,800.00	9.23	168.95	4,746.36	-668.19	130.54	673.88	0.00	0.00	0.00
4,900.00	9.23	168.95	4,845.06	-683.94	133.61	689.77	0.00	0.00	0.00
5,000.00	9.23	168.95	4,943.76	-699.69	136.69	705.65	0.00	0.00	0.00
5,100.00	9.23	168.95	5,042.47	-715.44	139.77	721.53	0.00	0.00	0.00
5,200.00	9.23	168.95	5,141.17	-731.19	142.84	737.41	0.00	0.00	0.00
5,300.00	9.23	168.95	5,239.88	-746.94	145.92	753.30	0.00	0.00	0.00
5,400.00	9.23	168.95	5,338.58	-762.68	149.00	769.18	0.00	0.00	0.00
5,449.13	9.23	168.95	5,387.08	-770.42	150.51	776.98	0.00	0.00	0.00
5,500.00	8.47	168.95	5,437.34	-778.10	152.01	784.73	1.50	-1.50	0.00
5,600.00	6.97	168.95	5,536.43	-791.29	154.59	798.03	1.50	-1.50	0.00
5,700.00	5.47	168.95	5,635.84	-801.92	156.66	808.75	1.50	-1.50	0.00
5,800.00	3.97	168.95	5,735.50	-810.00	158.24	816.90	1.50	-1.50	0.00
5,900.00	2.47	168.95	5,835.33	-815.51	159.32	822.46	1.50	-1.50	0.00
6,000.00	0.97	168.95	5,935.29	-818.46	159.89	825.43	1.50	-1.50	0.00
6,064.72	0.00	0.00	6,000.00	-819.00	160.00	825.97	1.50	-1.50	0.00
6,100.00	0.00	0.00	6,035.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,200.00	0.00	0.00	6,135.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,300.00	0.00	0.00	6,235.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,400.00	0.00	0.00	6,335.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,500.00	0.00	0.00	6,435.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,600.00	0.00	0.00	6,535.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,700.00	0.00	0.00	6,635.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,800.00	0.00	0.00	6,735.28	-819.00	160.00	825.97	0.00	0.00	0.00
6,900.00	0.00	0.00	6,835.28	-819.00	160.00	825.97	0.00	0.00	0.00
7,000.00	0.00	0.00	6,935.28	-819.00	160.00	825.97	0.00	0.00	0.00
7,039.15	0.00	0.00	6,974.43	-819.00	160.00	825.97	0.00	0.00	0.00
7,100.00	5.48	178.31	7,035.19	-821.91	160.09	828.88	9.00	9.00	0.00
7,200.00	14.48	178.31	7,133.58	-839.20	160.60	846.18	9.00	9.00	0.00
7,300.00	23.48	178.31	7,228.05	-871.68	161.56	878.66	9.00	9.00	0.00
7,400.00	32.48	178.31	7,316.27	-918.52	162.94	925.52	9.00	9.00	0.00
7,500.00	41.48	178.31	7,396.07	-978.58	164.71	985.59	9.00	9.00	0.00
7,522.96	43.54	178.31	7,413.00	-994.09	165.17	1,001.10	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,582.23	48.88	178.31	7,454.00	-1,036.84	166.44	1,043.86	9.00	9.00	0.00
<b>Niobrara</b>									
7,600.00	50.48	178.31	7,465.50	-1,050.38	166.84	1,057.41	9.00	9.00	0.00
7,700.00	59.48	178.31	7,522.83	-1,132.15	169.25	1,139.20	9.00	9.00	0.00
7,800.00	68.48	178.31	7,566.66	-1,221.88	171.90	1,228.95	9.00	9.00	0.00
7,856.40	73.55	178.31	7,585.00	-1,275.18	173.48	1,282.25	9.00	9.00	0.00
<b>Nio B</b>									
7,900.00	77.48	178.31	7,595.90	-1,317.36	174.72	1,324.45	9.00	9.00	0.00
8,000.00	86.48	178.31	7,609.85	-1,416.24	177.65	1,423.35	9.00	9.00	0.00
8,033.37	89.48	178.31	7,611.02	-1,449.57	178.63	1,456.69	9.00	9.00	0.00
<b>Top of Production - PAPA JO 2-25 35N2-17HZ_PHL</b>									
8,100.00	89.48	178.31	7,611.63	-1,516.17	180.60	1,523.30	0.00	0.00	0.00
8,200.00	89.48	178.31	7,612.53	-1,616.12	183.55	1,623.27	0.00	0.00	0.00
8,300.00	89.48	178.31	7,613.44	-1,716.07	186.50	1,723.25	0.00	0.00	0.00
8,400.00	89.48	178.31	7,614.35	-1,816.02	189.46	1,823.22	0.00	0.00	0.00
8,500.00	89.48	178.31	7,615.26	-1,915.98	192.41	1,923.20	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35N2-17HZ
<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 35N2-17HZ	<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)
8,600.00	89.48	178.31	7,616.17	-2,015.93	195.36	2,023.17	0.00	0.00	0.00
8,700.00	89.48	178.31	7,617.07	-2,115.88	198.32	2,123.15	0.00	0.00	0.00
8,800.00	89.48	178.31	7,617.98	-2,215.83	201.27	2,223.12	0.00	0.00	0.00
8,900.00	89.48	178.31	7,618.89	-2,315.79	204.22	2,323.10	0.00	0.00	0.00
9,000.00	89.48	178.31	7,619.80	-2,415.74	207.18	2,423.07	0.00	0.00	0.00
9,100.00	89.48	178.31	7,620.70	-2,515.69	210.13	2,523.05	0.00	0.00	0.00
9,200.00	89.48	178.31	7,621.61	-2,615.64	213.08	2,623.02	0.00	0.00	0.00
9,300.00	89.48	178.31	7,622.52	-2,715.59	216.04	2,723.00	0.00	0.00	0.00
9,400.00	89.48	178.31	7,623.43	-2,815.55	218.99	2,822.97	0.00	0.00	0.00
9,500.00	89.48	178.31	7,624.33	-2,915.50	221.94	2,922.95	0.00	0.00	0.00
9,600.00	89.48	178.31	7,625.24	-3,015.45	224.90	3,022.92	0.00	0.00	0.00
9,700.00	89.48	178.31	7,626.15	-3,115.40	227.85	3,122.90	0.00	0.00	0.00
9,800.00	89.48	178.31	7,627.06	-3,215.36	230.80	3,222.87	0.00	0.00	0.00
9,900.00	89.48	178.31	7,627.96	-3,315.31	233.76	3,322.85	0.00	0.00	0.00
10,000.00	89.48	178.31	7,628.87	-3,415.26	236.71	3,422.82	0.00	0.00	0.00
10,100.00	89.48	178.31	7,629.78	-3,515.21	239.66	3,522.80	0.00	0.00	0.00
10,200.00	89.48	178.31	7,630.69	-3,615.16	242.61	3,622.77	0.00	0.00	0.00
10,300.00	89.48	178.31	7,631.59	-3,715.12	245.57	3,722.75	0.00	0.00	0.00
10,400.00	89.48	178.31	7,632.50	-3,815.07	248.52	3,822.72	0.00	0.00	0.00
10,500.00	89.48	178.31	7,633.41	-3,915.02	251.47	3,922.70	0.00	0.00	0.00
10,600.00	89.48	178.31	7,634.32	-4,014.97	254.43	4,022.67	0.00	0.00	0.00
10,700.00	89.48	178.31	7,635.22	-4,114.93	257.38	4,122.65	0.00	0.00	0.00
10,800.00	89.48	178.31	7,636.13	-4,214.88	260.33	4,222.62	0.00	0.00	0.00
10,900.00	89.48	178.31	7,637.04	-4,314.83	263.29	4,322.60	0.00	0.00	0.00
11,000.00	89.48	178.31	7,637.95	-4,414.78	266.24	4,422.57	0.00	0.00	0.00
11,100.00	89.48	178.31	7,638.85	-4,514.74	269.19	4,522.55	0.00	0.00	0.00
11,200.00	89.48	178.31	7,639.76	-4,614.69	272.15	4,622.52	0.00	0.00	0.00
11,300.00	89.48	178.31	7,640.67	-4,714.64	275.10	4,722.50	0.00	0.00	0.00
11,400.00	89.48	178.31	7,641.58	-4,814.59	278.05	4,822.47	0.00	0.00	0.00
11,500.00	89.48	178.31	7,642.48	-4,914.54	281.01	4,922.45	0.00	0.00	0.00
11,600.00	89.48	178.31	7,643.39	-5,014.50	283.96	5,022.42	0.00	0.00	0.00
11,700.00	89.48	178.31	7,644.30	-5,114.45	286.91	5,122.40	0.00	0.00	0.00
11,800.00	89.48	178.31	7,645.21	-5,214.40	289.87	5,222.37	0.00	0.00	0.00
11,900.00	89.48	178.31	7,646.11	-5,314.35	292.82	5,322.35	0.00	0.00	0.00
12,000.00	89.48	178.31	7,647.02	-5,414.31	295.77	5,422.32	0.00	0.00	0.00
12,100.00	89.48	178.31	7,647.93	-5,514.26	298.72	5,522.30	0.00	0.00	0.00
12,200.00	89.48	178.31	7,648.84	-5,614.21	301.68	5,622.27	0.00	0.00	0.00
12,300.00	89.48	178.31	7,649.74	-5,714.16	304.63	5,722.25	0.00	0.00	0.00
12,400.00	89.48	178.31	7,650.65	-5,814.11	307.58	5,822.22	0.00	0.00	0.00
12,500.00	89.48	178.31	7,651.56	-5,914.07	310.54	5,922.20	0.00	0.00	0.00
12,600.00	89.48	178.31	7,652.47	-6,014.02	313.49	6,022.17	0.00	0.00	0.00
12,700.00	89.48	178.31	7,653.38	-6,113.97	316.44	6,122.15	0.00	0.00	0.00
12,800.00	89.48	178.31	7,654.28	-6,213.92	319.40	6,222.12	0.00	0.00	0.00
12,900.00	89.48	178.31	7,655.19	-6,313.88	322.35	6,322.10	0.00	0.00	0.00
13,000.00	89.48	178.31	7,656.10	-6,413.83	325.30	6,422.07	0.00	0.00	0.00
13,100.00	89.48	178.31	7,657.01	-6,513.78	328.26	6,522.05	0.00	0.00	0.00
13,200.00	89.48	178.31	7,657.91	-6,613.73	331.21	6,622.02	0.00	0.00	0.00
13,209.62	89.48	178.31	7,658.00	-6,623.35	331.49	6,631.64	0.00	0.00	0.00
PAPA JO 2-25 35N2-17HZ_PBHL									

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well PAPA JO 2-25 35N2-17HZ
<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 35N2-17HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PAPA JO 2-25 35N2-1	0.00	0.00	7,611.02	-1,449.57	178.63	14,547,887.83	1,631,442.03	40.058089	-105.032074
- plan hits target center									
- Point									
PAPA JO 2-25 35N2-1	0.00	0.00	7,658.00	-6,623.35	331.49	14,542,714.00	1,631,593.00	40.043881	-105.031528
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,511.02	1,500.00	9 5/8"	9-5/8	13-1/2	
8,033.37	7,611.02	Top of Production	5-1/2	8-1/2	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,024.72	1,020.00	Fox Hills				
4,242.42	4,196.00	Parkman				
4,676.04	4,624.00	Sussex				
7,522.96	7,413.00	Sharon Springs				
7,582.23	7,454.00	Niobrara				
7,856.40	7,585.00	Nio B				