

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

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

PAPA JO 2-25 36N-17HZ

Plan A

Plan: Permit Rev-1

Standard Planning Report

11 August, 2016



Azimuths to True North
Magnetic North: 8.28°

Magnetic Field
Strength: 52381.9snT
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 36N-17HZ
Wellbore: Plan A
Design: Permit Rev-1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1020.00	1025.20	Fox Hills
4198.00	4256.62	Parkman
4624.00	4692.08	Sussex
7418.00	7530.27	Sharon Springs
7459.00	7580.41	Niobrara
7582.00	7755.70	Nio B
7661.00	7974.97	Nio C

WELL DETAILS: PAPA JO 2-25 36N-17HZ

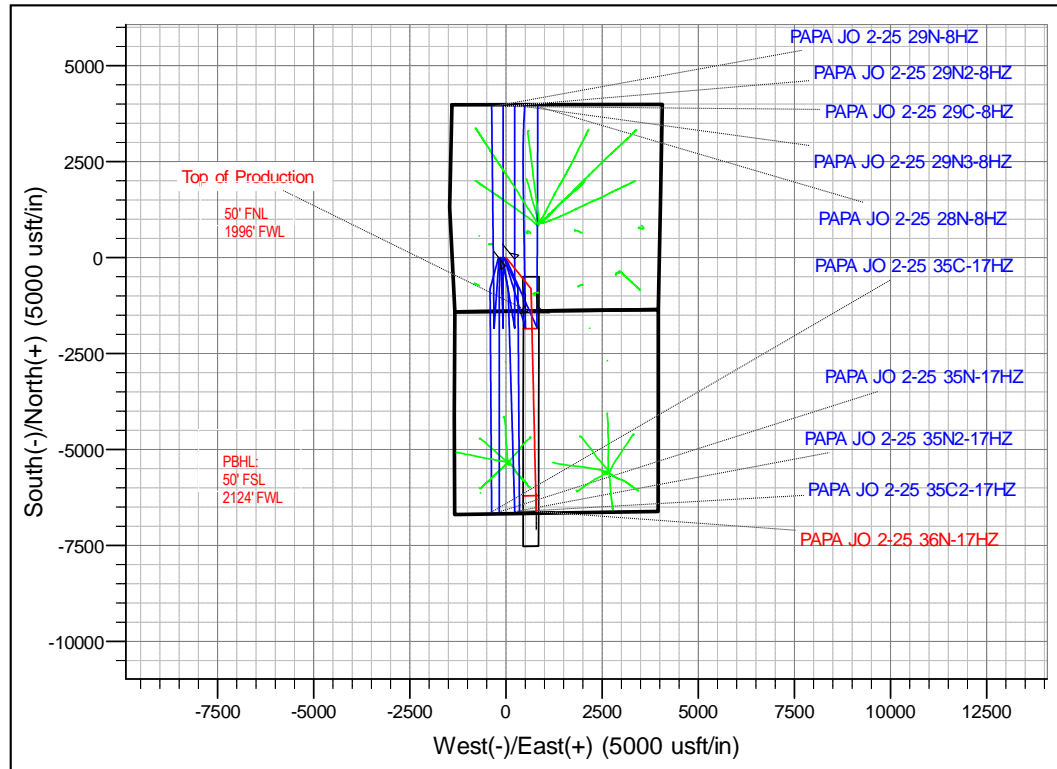
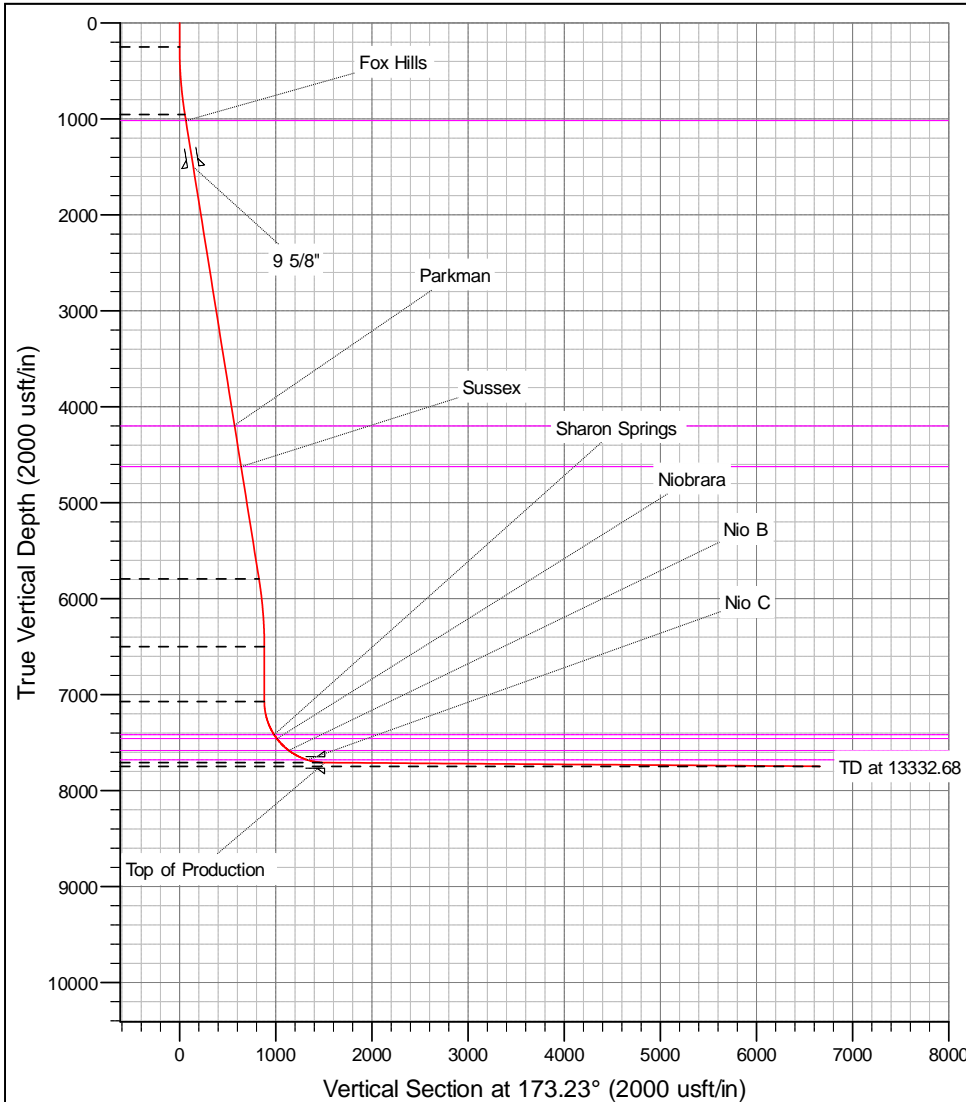
+N/-S	+E/-W	GL: 5065.00	RKB @ 5082.00usft (Original Well Elev)	Longitude	Slot
0.00	0.00	North 14549336.71	Easting 1631368.86	Latitude 40.062068	

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
958.43	10.63	141.29	954.37	-51.11	40.97	1.50	55.59
5884.16	10.63	141.29	5795.63	-759.89	609.03	0.00	826.37
6592.58	0.00	0.00	6500.00	-811.00	650.00	1.50	881.96
7165.16	0.00	0.00	7072.58	-811.00	650.00	0.00	881.96
8160.39	89.57	178.67	7709.18	-1442.67	664.70	9.00	1510.96
13332.68	89.57	178.67	7748.00	-6613.42	785.00	0.00	6659.84

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude
PAPA JO 2-25 36N-17HZ_PBHL	7748.00	-6613.42	785.00	14542723.00	1632151.46	40.043906	-105.029532



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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 36N-17HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5082.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5082.00usft (Original Well Elev)
Site:	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	North Reference:	True
Well:	PAPA JO 2-25 36N-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Project	WELD-NAD83-UTMFT13N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 36N-17HZ					
Well Position	+N-S	-1.09 usft	Northing:	14,549,336.70 usft	Latitude:	40.062068
	+E-W	195.02 usft	Easting:	1,631,368.86 usft	Longitude:	-105.032337
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,065.00 usft

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

Design	Permit Rev-1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	173.23	

Plan Sections										
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	
958.43	10.63	141.29	954.37	-51.11	40.97	1.50	1.50	0.00	141.29	
5,884.16	10.63	141.29	5,795.63	-759.89	609.03	0.00	0.00	0.00	0.00	
6,592.58	0.00	0.00	6,500.00	-811.00	650.00	1.50	-1.50	0.00	180.00	
7,165.16	0.00	0.00	7,072.58	-811.00	650.00	0.00	0.00	0.00	0.00	
8,160.39	89.57	178.67	7,709.18	-1,442.67	664.70	9.00	9.00	0.00	178.67	
13,332.68	89.57	178.67	7,748.00	-6,613.42	785.00	0.00	0.00	0.00	0.00	PAPA JO 2-25 36N-

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 36N-17HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5082.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5082.00usft (Original Well Elev)
Site:	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	North Reference:	True
Well:	PAPA JO 2-25 36N-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)
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	141.29	300.00	-0.26	0.20	0.28	1.50	1.50	0.00
400.00	2.25	141.29	399.96	-2.30	1.84	2.50	1.50	1.50	0.00
500.00	3.75	141.29	499.82	-6.38	5.11	6.94	1.50	1.50	0.00
600.00	5.25	141.29	599.51	-12.50	10.02	13.60	1.50	1.50	0.00
700.00	6.75	141.29	698.96	-20.66	16.56	22.47	1.50	1.50	0.00
800.00	8.25	141.29	798.10	-30.84	24.72	33.54	1.50	1.50	0.00
900.00	9.75	141.29	896.87	-43.05	34.50	46.82	1.50	1.50	0.00
958.43	10.63	141.29	954.37	-51.11	40.97	55.59	1.50	1.50	0.00
1,000.00	10.63	141.29	995.23	-57.10	45.76	62.09	0.00	0.00	0.00
1,025.20	10.63	141.29	1,020.00	-60.72	48.67	66.04	0.00	0.00	0.00
Fox Hills									
1,100.00	10.63	141.29	1,093.52	-71.49	57.29	77.74	0.00	0.00	0.00
1,200.00	10.63	141.29	1,191.80	-85.88	68.83	93.39	0.00	0.00	0.00
1,300.00	10.63	141.29	1,290.09	-100.26	80.36	109.04	0.00	0.00	0.00
1,400.00	10.63	141.29	1,388.37	-114.65	91.89	124.68	0.00	0.00	0.00
1,500.00	10.63	141.29	1,486.66	-129.04	103.43	140.33	0.00	0.00	0.00
1,513.57	10.63	141.29	1,500.00	-131.00	104.99	142.46	0.00	0.00	0.00
9 5/8"									
1,600.00	10.63	141.29	1,584.94	-143.43	114.96	155.98	0.00	0.00	0.00
1,700.00	10.63	141.29	1,683.23	-157.82	126.49	171.63	0.00	0.00	0.00
1,800.00	10.63	141.29	1,781.51	-172.21	138.02	187.28	0.00	0.00	0.00
1,900.00	10.63	141.29	1,879.80	-186.60	149.56	202.93	0.00	0.00	0.00
2,000.00	10.63	141.29	1,978.08	-200.99	161.09	218.57	0.00	0.00	0.00
2,100.00	10.63	141.29	2,076.37	-215.38	172.62	234.22	0.00	0.00	0.00
2,200.00	10.63	141.29	2,174.65	-229.77	184.15	249.87	0.00	0.00	0.00
2,300.00	10.63	141.29	2,272.94	-244.16	195.69	265.52	0.00	0.00	0.00
2,400.00	10.63	141.29	2,371.22	-258.54	207.22	281.17	0.00	0.00	0.00
2,500.00	10.63	141.29	2,469.51	-272.93	218.75	296.81	0.00	0.00	0.00
2,600.00	10.63	141.29	2,567.79	-287.32	230.28	312.46	0.00	0.00	0.00
2,700.00	10.63	141.29	2,666.08	-301.71	241.82	328.11	0.00	0.00	0.00
2,800.00	10.63	141.29	2,764.36	-316.10	253.35	343.76	0.00	0.00	0.00
2,900.00	10.63	141.29	2,862.65	-330.49	264.88	359.41	0.00	0.00	0.00
3,000.00	10.63	141.29	2,960.93	-344.88	276.41	375.05	0.00	0.00	0.00
3,100.00	10.63	141.29	3,059.22	-359.27	287.95	390.70	0.00	0.00	0.00
3,200.00	10.63	141.29	3,157.50	-373.66	299.48	406.35	0.00	0.00	0.00
3,300.00	10.63	141.29	3,255.79	-388.05	311.01	422.00	0.00	0.00	0.00
3,400.00	10.63	141.29	3,354.07	-402.44	322.54	437.65	0.00	0.00	0.00
3,500.00	10.63	141.29	3,452.36	-416.83	334.08	453.29	0.00	0.00	0.00
3,600.00	10.63	141.29	3,550.64	-431.21	345.61	468.94	0.00	0.00	0.00
3,700.00	10.63	141.29	3,648.93	-445.60	357.14	484.59	0.00	0.00	0.00
3,800.00	10.63	141.29	3,747.21	-459.99	368.67	500.24	0.00	0.00	0.00
3,900.00	10.63	141.29	3,845.50	-474.38	380.21	515.89	0.00	0.00	0.00
4,000.00	10.63	141.29	3,943.78	-488.77	391.74	531.53	0.00	0.00	0.00
4,100.00	10.63	141.29	4,042.07	-503.16	403.27	547.18	0.00	0.00	0.00
4,200.00	10.63	141.29	4,140.35	-517.55	414.81	562.83	0.00	0.00	0.00
4,256.62	10.63	141.29	4,196.00	-525.70	421.33	571.69	0.00	0.00	0.00
Parkman									
4,300.00	10.63	141.29	4,238.64	-531.94	426.34	578.48	0.00	0.00	0.00
4,400.00	10.63	141.29	4,336.92	-546.33	437.87	594.13	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 36N-17HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5082.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5082.00usft (Original Well Elev)
Site:	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	North Reference:	True
Well:	PAPA JO 2-25 36N-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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	10.63	141.29	4,435.21	-560.72	449.40	609.78	0.00	0.00	0.00
4,600.00	10.63	141.29	4,533.49	-575.11	460.94	625.42	0.00	0.00	0.00
4,692.08	10.63	141.29	4,624.00	-588.36	471.56	639.83	0.00	0.00	0.00
Sussex									
4,700.00	10.63	141.29	4,631.78	-589.50	472.47	641.07	0.00	0.00	0.00
4,800.00	10.63	141.29	4,730.06	-603.88	484.00	656.72	0.00	0.00	0.00
4,900.00	10.63	141.29	4,828.35	-618.27	495.53	672.37	0.00	0.00	0.00
5,000.00	10.63	141.29	4,926.63	-632.66	507.07	688.02	0.00	0.00	0.00
5,100.00	10.63	141.29	5,024.92	-647.05	518.60	703.66	0.00	0.00	0.00
5,200.00	10.63	141.29	5,123.21	-661.44	530.13	719.31	0.00	0.00	0.00
5,300.00	10.63	141.29	5,221.49	-675.83	541.66	734.96	0.00	0.00	0.00
5,400.00	10.63	141.29	5,319.78	-690.22	553.20	750.61	0.00	0.00	0.00
5,500.00	10.63	141.29	5,418.06	-704.61	564.73	766.26	0.00	0.00	0.00
5,600.00	10.63	141.29	5,516.35	-719.00	576.26	781.90	0.00	0.00	0.00
5,700.00	10.63	141.29	5,614.63	-733.39	587.79	797.55	0.00	0.00	0.00
5,800.00	10.63	141.29	5,712.92	-747.78	599.33	813.20	0.00	0.00	0.00
5,884.16	10.63	141.29	5,795.63	-759.89	609.03	826.37	0.00	0.00	0.00
5,900.00	10.39	141.29	5,811.21	-762.14	610.84	828.82	1.50	-1.50	0.00
6,000.00	8.89	141.29	5,909.79	-775.20	621.31	843.03	1.50	-1.50	0.00
6,100.00	7.39	141.29	6,008.78	-786.25	630.16	855.04	1.50	-1.50	0.00
6,200.00	5.89	141.29	6,108.11	-795.27	637.39	864.85	1.50	-1.50	0.00
6,300.00	4.39	141.29	6,207.70	-802.26	643.00	872.45	1.50	-1.50	0.00
6,400.00	2.89	141.29	6,307.50	-807.21	646.96	877.84	1.50	-1.50	0.00
6,500.00	1.39	141.29	6,407.43	-810.12	649.30	881.00	1.50	-1.50	0.00
6,592.58	0.00	0.00	6,500.00	-811.00	650.00	881.96	1.50	-1.50	0.00
6,600.00	0.00	0.00	6,507.42	-811.00	650.00	881.96	0.00	0.00	0.00
6,700.00	0.00	0.00	6,607.42	-811.00	650.00	881.96	0.00	0.00	0.00
6,800.00	0.00	0.00	6,707.42	-811.00	650.00	881.96	0.00	0.00	0.00
6,900.00	0.00	0.00	6,807.42	-811.00	650.00	881.96	0.00	0.00	0.00
7,000.00	0.00	0.00	6,907.42	-811.00	650.00	881.96	0.00	0.00	0.00
7,100.00	0.00	0.00	7,007.42	-811.00	650.00	881.96	0.00	0.00	0.00
7,165.16	0.00	0.00	7,072.58	-811.00	650.00	881.96	0.00	0.00	0.00
7,200.00	3.14	178.67	7,107.40	-811.95	650.02	882.90	9.00	9.00	0.00
7,300.00	12.14	178.67	7,206.41	-825.22	650.33	896.12	9.00	9.00	0.00
7,400.00	21.14	178.67	7,302.13	-853.81	651.00	924.59	9.00	9.00	0.00
7,500.00	30.14	178.67	7,392.19	-897.02	652.00	967.61	9.00	9.00	0.00
7,530.27	32.86	178.67	7,418.00	-912.83	652.37	983.36	9.00	9.00	0.00
Sharon Springs									
7,580.41	37.37	178.67	7,459.00	-941.65	653.04	1,012.06	9.00	9.00	0.00
Niobrara									
7,600.00	39.14	178.67	7,474.39	-953.78	653.32	1,024.13	9.00	9.00	0.00
7,700.00	48.14	178.67	7,546.69	-1,022.70	654.93	1,092.76	9.00	9.00	0.00
7,755.70	53.15	178.67	7,582.00	-1,065.74	655.93	1,135.62	9.00	9.00	0.00
Nio B									
7,800.00	57.14	178.67	7,607.31	-1,102.07	656.77	1,171.80	9.00	9.00	0.00
7,900.00	66.14	178.67	7,654.77	-1,189.95	658.82	1,259.31	9.00	9.00	0.00
7,974.97	72.88	178.67	7,681.00	-1,260.12	660.45	1,329.18	9.00	9.00	0.00
Nio C									
8,000.00	75.14	178.67	7,687.90	-1,284.18	661.01	1,353.13	9.00	9.00	0.00
8,100.00	84.14	178.67	7,705.87	-1,382.42	663.29	1,450.96	9.00	9.00	0.00
8,160.39	89.57	178.67	7,709.18	-1,442.68	664.70	1,510.96	9.00	9.00	0.00
Top of Production - PAPA JO 2-25 36N-17HZ_PHL									
8,200.00	89.57	178.67	7,709.48	-1,482.27	665.62	1,550.39	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 36N-17HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5082.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5082.00usft (Original Well Elev)
Site:	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	North Reference:	True
Well:	PAPA JO 2-25 36N-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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)
8,300.00	89.57	178.67	7,710.23	-1,582.24	667.94	1,649.94	0.00	0.00	0.00
8,400.00	89.57	178.67	7,710.98	-1,682.21	670.27	1,749.49	0.00	0.00	0.00
8,500.00	89.57	178.67	7,711.73	-1,782.18	672.60	1,849.03	0.00	0.00	0.00
8,600.00	89.57	178.67	7,712.48	-1,882.15	674.92	1,948.58	0.00	0.00	0.00
8,700.00	89.57	178.67	7,713.23	-1,982.12	677.25	2,048.13	0.00	0.00	0.00
8,800.00	89.57	178.67	7,713.98	-2,082.09	679.57	2,147.68	0.00	0.00	0.00
8,900.00	89.57	178.67	7,714.73	-2,182.06	681.90	2,247.22	0.00	0.00	0.00
9,000.00	89.57	178.67	7,715.48	-2,282.03	684.23	2,346.77	0.00	0.00	0.00
9,100.00	89.57	178.67	7,716.23	-2,382.00	686.55	2,446.32	0.00	0.00	0.00
9,200.00	89.57	178.67	7,716.99	-2,481.98	688.88	2,545.87	0.00	0.00	0.00
9,300.00	89.57	178.67	7,717.74	-2,581.95	691.20	2,645.41	0.00	0.00	0.00
9,400.00	89.57	178.67	7,718.49	-2,681.92	693.53	2,744.96	0.00	0.00	0.00
9,500.00	89.57	178.67	7,719.24	-2,781.89	695.85	2,844.51	0.00	0.00	0.00
9,600.00	89.57	178.67	7,719.99	-2,881.86	698.18	2,944.06	0.00	0.00	0.00
9,700.00	89.57	178.67	7,720.74	-2,981.83	700.51	3,043.60	0.00	0.00	0.00
9,800.00	89.57	178.67	7,721.49	-3,081.80	702.83	3,143.15	0.00	0.00	0.00
9,900.00	89.57	178.67	7,722.24	-3,181.77	705.16	3,242.70	0.00	0.00	0.00
10,000.00	89.57	178.67	7,722.99	-3,281.74	707.48	3,342.25	0.00	0.00	0.00
10,100.00	89.57	178.67	7,723.74	-3,381.71	709.81	3,441.79	0.00	0.00	0.00
10,200.00	89.57	178.67	7,724.49	-3,481.68	712.14	3,541.34	0.00	0.00	0.00
10,300.00	89.57	178.67	7,725.24	-3,581.65	714.46	3,640.89	0.00	0.00	0.00
10,400.00	89.57	178.67	7,725.99	-3,681.62	716.79	3,740.44	0.00	0.00	0.00
10,500.00	89.57	178.67	7,726.74	-3,781.59	719.11	3,839.98	0.00	0.00	0.00
10,600.00	89.57	178.67	7,727.49	-3,881.56	721.44	3,939.53	0.00	0.00	0.00
10,700.00	89.57	178.67	7,728.24	-3,981.53	723.77	4,039.08	0.00	0.00	0.00
10,800.00	89.57	178.67	7,728.99	-4,081.50	726.09	4,138.63	0.00	0.00	0.00
10,900.00	89.57	178.67	7,729.74	-4,181.47	728.42	4,238.17	0.00	0.00	0.00
11,000.00	89.57	178.67	7,730.49	-4,281.44	730.74	4,337.72	0.00	0.00	0.00
11,100.00	89.57	178.67	7,731.24	-4,381.41	733.07	4,437.27	0.00	0.00	0.00
11,200.00	89.57	178.67	7,731.99	-4,481.38	735.40	4,536.82	0.00	0.00	0.00
11,300.00	89.57	178.67	7,732.75	-4,581.35	737.72	4,636.36	0.00	0.00	0.00
11,400.00	89.57	178.67	7,733.50	-4,681.32	740.05	4,735.91	0.00	0.00	0.00
11,500.00	89.57	178.67	7,734.25	-4,781.29	742.37	4,835.46	0.00	0.00	0.00
11,600.00	89.57	178.67	7,735.00	-4,881.26	744.70	4,935.01	0.00	0.00	0.00
11,700.00	89.57	178.67	7,735.75	-4,981.23	747.03	5,034.55	0.00	0.00	0.00
11,800.00	89.57	178.67	7,736.50	-5,081.20	749.35	5,134.10	0.00	0.00	0.00
11,900.00	89.57	178.67	7,737.25	-5,181.17	751.68	5,233.65	0.00	0.00	0.00
12,000.00	89.57	178.67	7,738.00	-5,281.14	754.00	5,333.20	0.00	0.00	0.00
12,100.00	89.57	178.67	7,738.75	-5,381.11	756.33	5,432.74	0.00	0.00	0.00
12,200.00	89.57	178.67	7,739.50	-5,481.08	758.65	5,532.29	0.00	0.00	0.00
12,300.00	89.57	178.67	7,740.25	-5,581.05	760.98	5,631.84	0.00	0.00	0.00
12,400.00	89.57	178.67	7,741.00	-5,681.02	763.31	5,731.39	0.00	0.00	0.00
12,500.00	89.57	178.67	7,741.75	-5,780.99	765.63	5,830.93	0.00	0.00	0.00
12,600.00	89.57	178.67	7,742.50	-5,880.96	767.96	5,930.48	0.00	0.00	0.00
12,700.00	89.57	178.67	7,743.25	-5,980.93	770.28	6,030.03	0.00	0.00	0.00
12,800.00	89.57	178.67	7,744.00	-6,080.90	772.61	6,129.58	0.00	0.00	0.00
12,900.00	89.57	178.67	7,744.75	-6,180.87	774.94	6,229.12	0.00	0.00	0.00
13,000.00	89.57	178.67	7,745.50	-6,280.84	777.26	6,328.67	0.00	0.00	0.00
13,100.00	89.57	178.67	7,746.25	-6,380.81	779.59	6,428.22	0.00	0.00	0.00
13,200.00	89.57	178.67	7,747.00	-6,480.78	781.91	6,527.77	0.00	0.00	0.00
13,300.00	89.57	178.67	7,747.75	-6,580.75	784.24	6,627.31	0.00	0.00	0.00
13,332.68	89.57	178.67	7,748.00	-6,613.42	785.00	6,659.84	0.00	0.00	0.00
PAPA JO 2-25 36N-17HZ_PBHL									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 36N-17HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB @ 5082.00usft (Original Well Elev)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB @ 5082.00usft (Original Well Elev)
Site:	1N-68W-08 PAPA JO 2-25 19-8HZ Pad	North Reference:	True
Well:	PAPA JO 2-25 36N-17HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	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 36N-17	0.00	0.00	7,709.18	-1,442.68	664.70	14,547,893.78	1,632,033.03	40.058106	-105.029962
- plan hits target center									
- Point									
PAPA JO 2-25 36N-17	0.00	0.00	7,748.00	-6,613.42	785.00	14,542,723.00	1,632,151.46	40.043907	-105.029532
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	1,513.57	1,500.00	9 5/8"	9-5/8	13-1/2
	8,160.39	7,709.18	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(usft)	(usft)	Name	Lithology	(°)	(°)
	1,025.20	1,020.00	Fox Hills			
	4,256.62	4,196.00	Parkman			
	4,692.08	4,624.00	Sussex			
	7,530.27	7,418.00	Sharon Springs			
	7,580.41	7,459.00	Niobrara			
	7,755.70	7,582.00	Nio B			
	7,974.97	7,681.00	Nio C			