

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

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

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

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1020.00	1024.66	Fox Hills
4196.00	4241.12	Parkman
4624.00	4674.57	Sussex
7412.00	7492.42	Sharon Springs
7454.00	7543.00	Niobrara
7587.00	7730.30	Nio B
7689.00	7957.85	Nio C

WELL DETAILS: PAPA JO 2-25 35N-17HZ

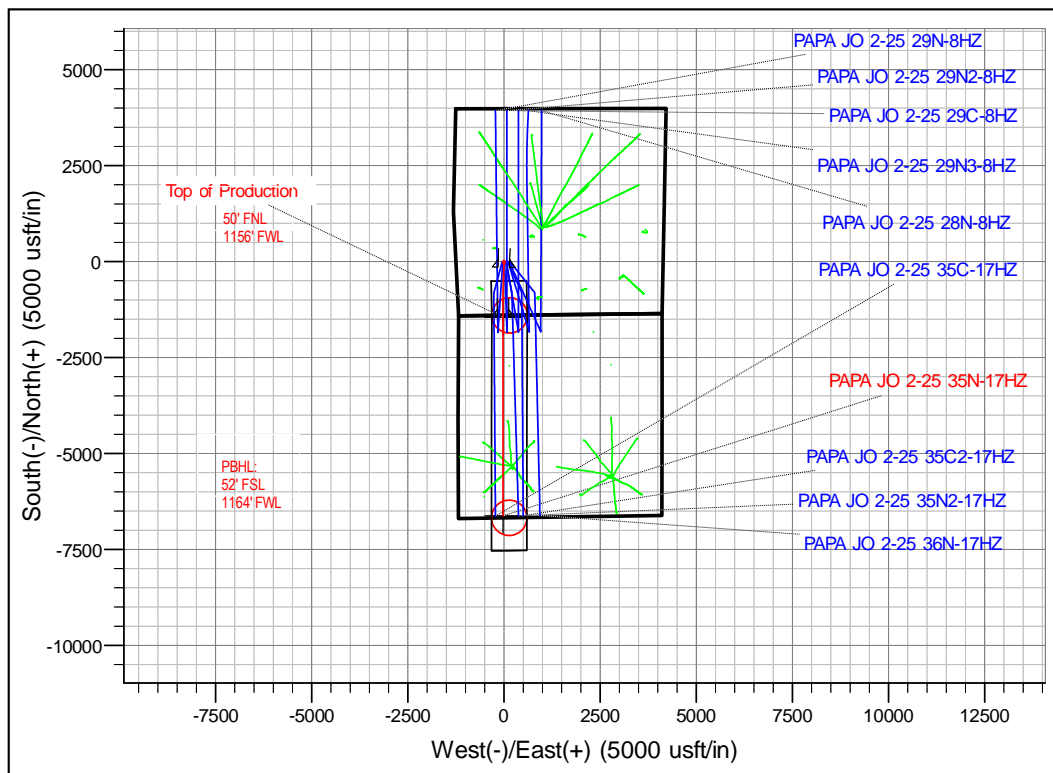
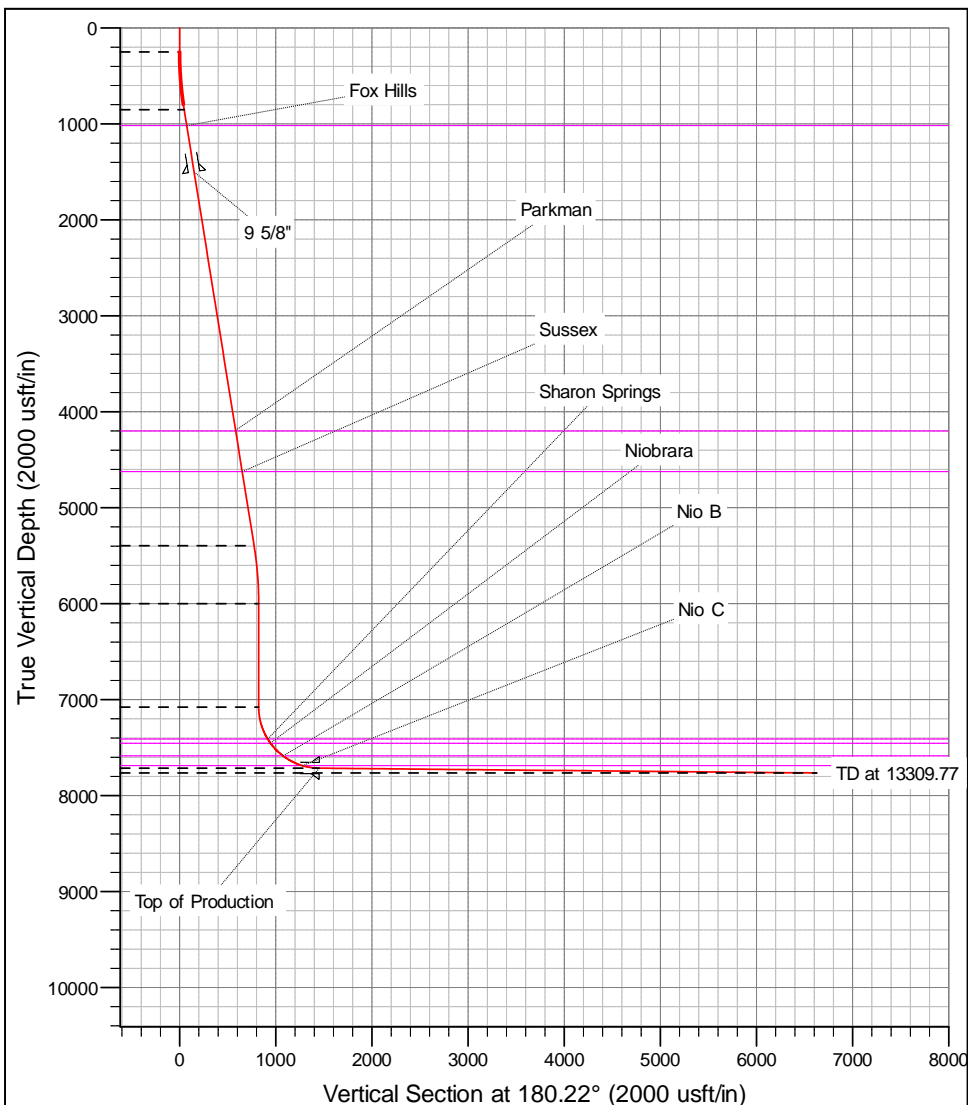
+N/-S	+E/-W	GL: 5065.00 Northing	RKB @ 5082.00usft (Original Well Elev) Easting	Latitude 40.062070	Longitude -105.032873	Slot
0.00	0.00	14549337.49	1631218.89			

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
856.47	9.10	181.74	853.92	-48.02	-1.46	1.50	48.03
5456.48	9.10	181.74	5396.08	-774.98	-23.54	0.00	775.06
6062.95	0.00	0.00	6000.00	-823.00	-25.00	1.50	823.09
7141.69	0.00	0.00	7078.74	-823.00	-25.00	0.00	823.09
8135.58	89.45	180.00	7715.33	-1453.51	-25.00	9.00	1453.59
13309.77	89.45	180.00	7765.00	-6627.46	-25.00	0.00	6627.51

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PAPA JO 2-25 35N-17HZ_PBHL	7765.00	-6627.46	-25.00	14542710.04	1631191.45	40.043870	-105.032962



Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35N-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 35N-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 35N-17HZ					
Well Position	+N/-S	-0.36 usft	Northing:	14,549,337.48 usft	Latitude:	40.062070
	+E/-W	45.05 usft	Easting:	1,631,218.89 usft	Longitude:	-105.032873
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	180.22

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	
856.47	9.10	181.74	853.92	-48.02	-1.46	1.50	1.50	0.00	181.74	
5,456.48	9.10	181.74	5,396.08	-774.98	-23.54	0.00	0.00	0.00	0.00	
6,062.95	0.00	0.00	6,000.00	-823.00	-25.00	1.50	-1.50	0.00	180.00	
7,141.69	0.00	0.00	7,078.74	-823.00	-25.00	0.00	0.00	0.00	0.00	
8,135.58	89.45	180.00	7,715.33	-1,453.51	-25.00	9.00	9.00	0.00	180.00	
13,309.77	89.45	180.00	7,765.00	-6,627.46	-25.00	0.00	0.00	0.00	0.00	PAPA JO 2-25 35N

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

Local Co-ordinate Reference: Well PAPA JO 2-25 35N-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	181.74	300.00	-0.33	-0.01	0.33	1.50	1.50	0.00
400.00	2.25	181.74	399.96	-2.94	-0.09	2.94	1.50	1.50	0.00
500.00	3.75	181.74	499.82	-8.17	-0.25	8.18	1.50	1.50	0.00
600.00	5.25	181.74	599.51	-16.02	-0.49	16.02	1.50	1.50	0.00
700.00	6.75	181.74	698.96	-26.46	-0.80	26.47	1.50	1.50	0.00
800.00	8.25	181.74	798.10	-39.51	-1.20	39.51	1.50	1.50	0.00
856.47	9.10	181.74	853.92	-48.02	-1.46	48.03	1.50	1.50	0.00
900.00	9.10	181.74	896.91	-54.90	-1.67	54.91	0.00	0.00	0.00
1,000.00	9.10	181.74	995.65	-70.71	-2.15	70.71	0.00	0.00	0.00
1,024.66	9.10	181.74	1,020.00	-74.60	-2.27	74.61	0.00	0.00	0.00
Fox Hills									
1,100.00	9.10	181.74	1,094.39	-86.51	-2.63	86.52	0.00	0.00	0.00
1,200.00	9.10	181.74	1,193.13	-102.31	-3.11	102.32	0.00	0.00	0.00
1,300.00	9.10	181.74	1,291.88	-118.12	-3.59	118.13	0.00	0.00	0.00
1,400.00	9.10	181.74	1,390.62	-133.92	-4.07	133.93	0.00	0.00	0.00
1,500.00	9.10	181.74	1,489.36	-149.72	-4.55	149.74	0.00	0.00	0.00
1,510.77	9.10	181.74	1,500.00	-151.42	-4.60	151.44	0.00	0.00	0.00
9 5/8"									
1,600.00	9.10	181.74	1,588.10	-165.53	-5.03	165.54	0.00	0.00	0.00
1,700.00	9.10	181.74	1,686.85	-181.33	-5.51	181.35	0.00	0.00	0.00
1,800.00	9.10	181.74	1,785.59	-197.13	-5.99	197.15	0.00	0.00	0.00
1,900.00	9.10	181.74	1,884.33	-212.94	-6.47	212.96	0.00	0.00	0.00
2,000.00	9.10	181.74	1,983.07	-228.74	-6.95	228.76	0.00	0.00	0.00
2,100.00	9.10	181.74	2,081.81	-244.54	-7.43	244.57	0.00	0.00	0.00
2,200.00	9.10	181.74	2,180.56	-260.35	-7.91	260.37	0.00	0.00	0.00
2,300.00	9.10	181.74	2,279.30	-276.15	-8.39	276.18	0.00	0.00	0.00
2,400.00	9.10	181.74	2,378.04	-291.95	-8.87	291.98	0.00	0.00	0.00
2,500.00	9.10	181.74	2,476.78	-307.76	-9.35	307.79	0.00	0.00	0.00
2,600.00	9.10	181.74	2,575.53	-323.56	-9.83	323.59	0.00	0.00	0.00
2,700.00	9.10	181.74	2,674.27	-339.36	-10.31	339.40	0.00	0.00	0.00
2,800.00	9.10	181.74	2,773.01	-355.17	-10.79	355.20	0.00	0.00	0.00
2,900.00	9.10	181.74	2,871.75	-370.97	-11.27	371.01	0.00	0.00	0.00
3,000.00	9.10	181.74	2,970.49	-386.77	-11.75	386.81	0.00	0.00	0.00
3,100.00	9.10	181.74	3,069.24	-402.58	-12.23	402.62	0.00	0.00	0.00
3,200.00	9.10	181.74	3,167.98	-418.38	-12.71	418.42	0.00	0.00	0.00
3,300.00	9.10	181.74	3,266.72	-434.18	-13.19	434.23	0.00	0.00	0.00
3,400.00	9.10	181.74	3,365.46	-449.99	-13.67	450.03	0.00	0.00	0.00
3,500.00	9.10	181.74	3,464.21	-465.79	-14.15	465.84	0.00	0.00	0.00
3,600.00	9.10	181.74	3,562.95	-481.59	-14.63	481.64	0.00	0.00	0.00
3,700.00	9.10	181.74	3,661.69	-497.40	-15.11	497.45	0.00	0.00	0.00
3,800.00	9.10	181.74	3,760.43	-513.20	-15.59	513.25	0.00	0.00	0.00
3,900.00	9.10	181.74	3,859.17	-529.00	-16.07	529.06	0.00	0.00	0.00
4,000.00	9.10	181.74	3,957.92	-544.81	-16.55	544.86	0.00	0.00	0.00
4,100.00	9.10	181.74	4,056.66	-560.61	-17.03	560.67	0.00	0.00	0.00
4,200.00	9.10	181.74	4,155.40	-576.41	-17.51	576.47	0.00	0.00	0.00
4,241.12	9.10	181.74	4,196.00	-582.91	-17.71	582.97	0.00	0.00	0.00
Parkman									
4,300.00	9.10	181.74	4,254.14	-592.22	-17.99	592.28	0.00	0.00	0.00
4,400.00	9.10	181.74	4,352.89	-608.02	-18.47	608.08	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35N-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 35N-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	9.10	181.74	4,451.63	-623.82	-18.95	623.89	0.00	0.00	0.00
4,600.00	9.10	181.74	4,550.37	-639.63	-19.43	639.69	0.00	0.00	0.00
4,674.57	9.10	181.74	4,624.00	-651.41	-19.79	651.48	0.00	0.00	0.00
Sussex									
4,700.00	9.10	181.74	4,649.11	-655.43	-19.91	655.50	0.00	0.00	0.00
4,800.00	9.10	181.74	4,747.85	-671.23	-20.39	671.30	0.00	0.00	0.00
4,900.00	9.10	181.74	4,846.60	-687.04	-20.87	687.11	0.00	0.00	0.00
5,000.00	9.10	181.74	4,945.34	-702.84	-21.35	702.91	0.00	0.00	0.00
5,100.00	9.10	181.74	5,044.08	-718.64	-21.83	718.72	0.00	0.00	0.00
5,200.00	9.10	181.74	5,142.82	-734.45	-22.31	734.52	0.00	0.00	0.00
5,300.00	9.10	181.74	5,241.56	-750.25	-22.79	750.33	0.00	0.00	0.00
5,400.00	9.10	181.74	5,340.31	-766.05	-23.27	766.13	0.00	0.00	0.00
5,456.48	9.10	181.74	5,396.08	-774.98	-23.54	775.06	0.00	0.00	0.00
5,500.00	8.44	181.74	5,439.09	-781.61	-23.74	781.69	1.50	-1.50	0.00
5,600.00	6.94	181.74	5,538.18	-794.99	-24.15	795.08	1.50	-1.50	0.00
5,700.00	5.44	181.74	5,637.60	-805.78	-24.48	805.86	1.50	-1.50	0.00
5,800.00	3.94	181.74	5,737.26	-813.96	-24.73	814.04	1.50	-1.50	0.00
5,900.00	2.44	181.74	5,837.10	-819.53	-24.89	819.61	1.50	-1.50	0.00
6,000.00	0.94	181.74	5,937.05	-822.48	-24.98	822.57	1.50	-1.50	0.00
6,062.95	0.00	0.00	6,000.00	-823.00	-25.00	823.09	1.50	-1.50	0.00
6,100.00	0.00	0.00	6,037.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,200.00	0.00	0.00	6,137.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,300.00	0.00	0.00	6,237.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,400.00	0.00	0.00	6,337.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,500.00	0.00	0.00	6,437.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,600.00	0.00	0.00	6,537.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,637.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,800.00	0.00	0.00	6,737.05	-823.00	-25.00	823.09	0.00	0.00	0.00
6,900.00	0.00	0.00	6,837.05	-823.00	-25.00	823.09	0.00	0.00	0.00
7,000.00	0.00	0.00	6,937.05	-823.00	-25.00	823.09	0.00	0.00	0.00
7,100.00	0.00	0.00	7,037.05	-823.00	-25.00	823.09	0.00	0.00	0.00
7,141.69	0.00	0.00	7,078.74	-823.00	-25.00	823.09	0.00	0.00	0.00
7,200.00	5.25	180.00	7,136.97	-825.67	-25.00	825.76	9.00	9.00	0.00
7,300.00	14.25	180.00	7,235.43	-842.58	-25.00	842.67	9.00	9.00	0.00
7,400.00	23.25	180.00	7,330.02	-874.69	-25.00	874.78	9.00	9.00	0.00
7,492.42	31.57	180.00	7,412.00	-917.20	-25.00	917.28	9.00	9.00	0.00
Sharon Springs									
7,500.00	32.25	180.00	7,418.43	-921.20	-25.00	921.29	9.00	9.00	0.00
7,543.00	36.12	180.00	7,454.00	-945.36	-25.00	945.44	9.00	9.00	0.00
Niobrara									
7,600.00	41.25	180.00	7,498.48	-980.97	-25.00	981.06	9.00	9.00	0.00
7,700.00	50.25	180.00	7,568.19	-1,052.52	-25.00	1,052.61	9.00	9.00	0.00
7,730.30	52.97	180.00	7,587.00	-1,076.27	-25.00	1,076.36	9.00	9.00	0.00
Nio B									
7,800.00	59.25	180.00	7,625.85	-1,134.10	-25.00	1,134.19	9.00	9.00	0.00
7,900.00	68.25	180.00	7,670.03	-1,223.69	-25.00	1,223.78	9.00	9.00	0.00
7,957.85	73.45	180.00	7,689.00	-1,278.32	-25.00	1,278.41	9.00	9.00	0.00
Nio C									
8,000.00	77.25	180.00	7,699.66	-1,319.10	-25.00	1,319.18	9.00	9.00	0.00
8,100.00	86.25	180.00	7,714.00	-1,417.96	-25.00	1,418.04	9.00	9.00	0.00
8,135.58	89.45	180.00	7,715.33	-1,453.51	-25.00	1,453.59	9.00	9.00	0.00
Top of Production - PAPA JO 2-25 35N-17HZ_PHL									
8,200.00	89.45	180.00	7,715.95	-1,517.93	-25.00	1,518.01	0.00	0.00	0.00

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35N-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 35N-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	89.45	180.00	7,716.91	-1,617.92	-25.00	1,618.01	0.00	0.00	0.00
8,400.00	89.45	180.00	7,717.87	-1,717.92	-25.00	1,718.00	0.00	0.00	0.00
8,500.00	89.45	180.00	7,718.83	-1,817.91	-25.00	1,817.99	0.00	0.00	0.00
8,600.00	89.45	180.00	7,719.79	-1,917.91	-25.00	1,917.99	0.00	0.00	0.00
8,700.00	89.45	180.00	7,720.75	-2,017.90	-25.00	2,017.98	0.00	0.00	0.00
8,800.00	89.45	180.00	7,721.71	-2,117.90	-25.00	2,117.98	0.00	0.00	0.00
8,900.00	89.45	180.00	7,722.67	-2,217.89	-25.00	2,217.97	0.00	0.00	0.00
9,000.00	89.45	180.00	7,723.63	-2,317.89	-25.00	2,317.97	0.00	0.00	0.00
9,100.00	89.45	180.00	7,724.59	-2,417.89	-25.00	2,417.96	0.00	0.00	0.00
9,200.00	89.45	180.00	7,725.55	-2,517.88	-25.00	2,517.96	0.00	0.00	0.00
9,300.00	89.45	180.00	7,726.51	-2,617.88	-25.00	2,617.95	0.00	0.00	0.00
9,400.00	89.45	180.00	7,727.47	-2,717.87	-25.00	2,717.95	0.00	0.00	0.00
9,500.00	89.45	180.00	7,728.43	-2,817.87	-25.00	2,817.94	0.00	0.00	0.00
9,600.00	89.45	180.00	7,729.39	-2,917.86	-25.00	2,917.94	0.00	0.00	0.00
9,700.00	89.45	180.00	7,730.35	-3,017.86	-25.00	3,017.93	0.00	0.00	0.00
9,800.00	89.45	180.00	7,731.31	-3,117.85	-25.00	3,117.93	0.00	0.00	0.00
9,900.00	89.45	180.00	7,732.27	-3,217.85	-25.00	3,217.92	0.00	0.00	0.00
10,000.00	89.45	180.00	7,733.23	-3,317.84	-25.00	3,317.91	0.00	0.00	0.00
10,100.00	89.45	180.00	7,734.19	-3,417.84	-25.00	3,417.91	0.00	0.00	0.00
10,200.00	89.45	180.00	7,735.15	-3,517.83	-25.00	3,517.90	0.00	0.00	0.00
10,300.00	89.45	180.00	7,736.11	-3,617.83	-25.00	3,617.90	0.00	0.00	0.00
10,400.00	89.45	180.00	7,737.07	-3,717.83	-25.00	3,717.89	0.00	0.00	0.00
10,500.00	89.45	180.00	7,738.03	-3,817.82	-25.00	3,817.89	0.00	0.00	0.00
10,600.00	89.45	180.00	7,738.99	-3,917.82	-25.00	3,917.88	0.00	0.00	0.00
10,700.00	89.45	180.00	7,739.95	-4,017.81	-25.00	4,017.88	0.00	0.00	0.00
10,800.00	89.45	180.00	7,740.91	-4,117.81	-25.00	4,117.87	0.00	0.00	0.00
10,900.00	89.45	180.00	7,741.87	-4,217.80	-25.00	4,217.87	0.00	0.00	0.00
11,000.00	89.45	180.00	7,742.83	-4,317.80	-25.00	4,317.86	0.00	0.00	0.00
11,100.00	89.45	180.00	7,743.79	-4,417.79	-25.00	4,417.86	0.00	0.00	0.00
11,200.00	89.45	180.00	7,744.75	-4,517.79	-25.00	4,517.85	0.00	0.00	0.00
11,300.00	89.45	180.00	7,745.71	-4,617.78	-25.00	4,617.85	0.00	0.00	0.00
11,400.00	89.45	180.00	7,746.67	-4,717.78	-25.00	4,717.84	0.00	0.00	0.00
11,500.00	89.45	180.00	7,747.63	-4,817.78	-25.00	4,817.84	0.00	0.00	0.00
11,600.00	89.45	180.00	7,748.59	-4,917.77	-25.00	4,917.83	0.00	0.00	0.00
11,700.00	89.45	180.00	7,749.55	-5,017.77	-25.00	5,017.82	0.00	0.00	0.00
11,800.00	89.45	180.00	7,750.51	-5,117.76	-25.00	5,117.82	0.00	0.00	0.00
11,900.00	89.45	180.00	7,751.47	-5,217.76	-25.00	5,217.81	0.00	0.00	0.00
12,000.00	89.45	180.00	7,752.43	-5,317.75	-25.00	5,317.81	0.00	0.00	0.00
12,100.00	89.45	180.00	7,753.39	-5,417.75	-25.00	5,417.80	0.00	0.00	0.00
12,200.00	89.45	180.00	7,754.35	-5,517.74	-25.00	5,517.80	0.00	0.00	0.00
12,300.00	89.45	180.00	7,755.31	-5,617.74	-25.00	5,617.79	0.00	0.00	0.00
12,400.00	89.45	180.00	7,756.27	-5,717.73	-25.00	5,717.79	0.00	0.00	0.00
12,500.00	89.45	180.00	7,757.23	-5,817.73	-25.00	5,817.78	0.00	0.00	0.00
12,600.00	89.45	180.00	7,758.19	-5,917.72	-25.00	5,917.78	0.00	0.00	0.00
12,700.00	89.45	180.00	7,759.15	-6,017.72	-25.00	6,017.77	0.00	0.00	0.00
12,800.00	89.45	180.00	7,760.11	-6,117.72	-25.00	6,117.77	0.00	0.00	0.00
12,900.00	89.45	180.00	7,761.07	-6,217.71	-25.00	6,217.76	0.00	0.00	0.00
13,000.00	89.45	180.00	7,762.03	-6,317.71	-25.00	6,317.76	0.00	0.00	0.00
13,100.00	89.45	180.00	7,762.99	-6,417.70	-25.00	6,417.75	0.00	0.00	0.00
13,200.00	89.45	180.00	7,763.95	-6,517.70	-25.00	6,517.74	0.00	0.00	0.00
13,300.00	89.45	180.00	7,764.91	-6,617.69	-25.00	6,617.74	0.00	0.00	0.00
13,309.77	89.45	180.00	7,765.00	-6,627.46	-25.00	6,627.51	0.00	0.00	0.00
PAPA JO 2-25 35N-17HZ_PBHL									

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35N-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 35N-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 35N-17	0.00	0.00	7,715.33	-1,453.51	-25.00	14,547,883.98	1,631,193.35	40.058079	-105.032963
- plan hits target center									
- Point									
PAPA JO 2-25 35N-17	0.00	0.00	7,765.00	-6,627.46	-25.00	14,542,710.03	1,631,191.44	40.043870	-105.032963
- plan hits target center									
- Point									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	1,510.77	1,500.00	9 5/8"	9-5/8	13-1/2
	8,135.58	7,715.33	Top of Production	5-1/2	8-1/2

Formations						
	Measured Depth	Vertical Depth			Dip	Dip Direction
	(usft)	(usft)	Name	Lithology	(°)	(°)
	1,024.66	1,020.00	Fox Hills			
	4,241.12	4,196.00	Parkman			
	4,674.57	4,624.00	Sussex			
	7,492.42	7,412.00	Sharon Springs			
	7,543.00	7,454.00	Niobrara			
	7,730.30	7,587.00	Nio B			
	7,957.85	7,689.00	Nio C			