

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

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

PAPA JO 2-25 29N2-8HZ

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 29N2-8HZ
Wellbore: Plan A
Design: Permit Rev-1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1020.00	1025.31	Fox Hills
4196.00	4403.31	Parkman
4624.00	4864.07	Sussex
7409.00	7758.80	Sharon Springs
7451.00	7818.87	Niobrara
7588.00	8106.09	Nio B

WELL DETAILS: PAPA JO 2-25 29N2-8HZ

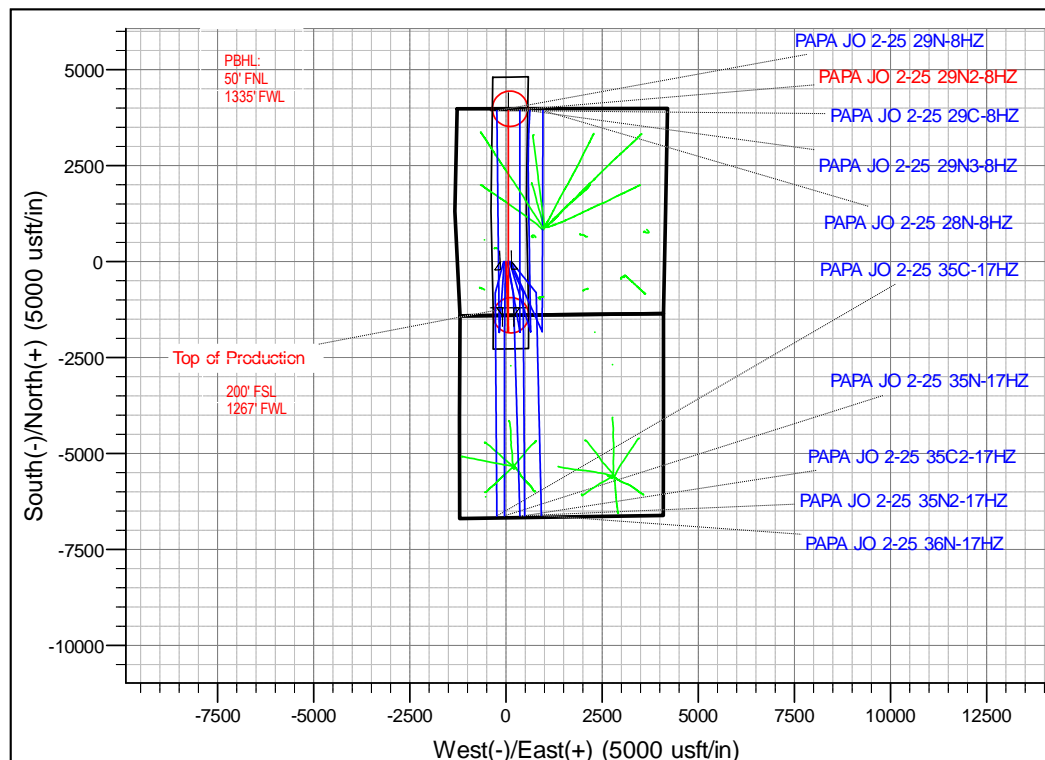
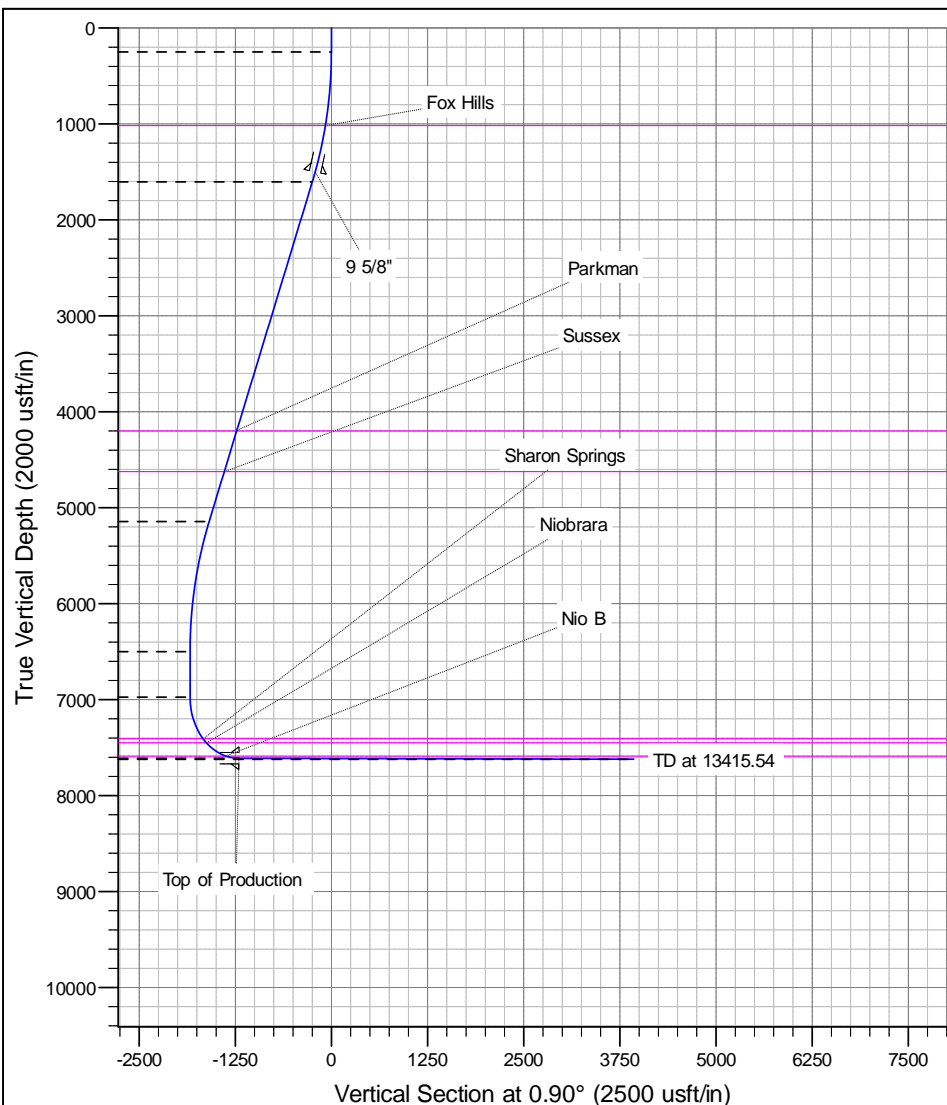
+N/-S	+E/-W	GL: 5065.00 Northing	RKB @ 5082.00usft (Original Well Elev) Easting	Latitude 40.062070	Longitude -105.032819	Slot
0.00	0.00	14549337.48	1631234.00			

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
1634.89	20.77	178.08	1604.75	-248.18	8.31	1.50	-248.02
5421.56	20.77	178.08	5145.25	+1590.46	53.24	0.00	1589.43
6806.45	0.00	0.00	6500.00	-1838.64	61.54	1.50	-1837.45
7281.98	0.00	0.00	6975.52	-1838.64	61.54	0.00	-1837.45
8280.76	89.89	0.00	7612.14	-1203.24	61.54	9.00	-1202.13
13415.54	89.89	0.00	7622.00	3931.54	61.55	0.00	3932.02

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PAPA JO 2-25 29N2-8HZ_PBHL	7622.00	3931.54	61.55	14553269.00	1631297.00	40.072867	-105.032599



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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 29N2-8HZ
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 29N2-8HZ	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 29N2-8HZ					
Well Position	+N-S	-0.36 usft	Northing:	14,549,337.48 usft	Latitude:	40.062070
	+E-W	60.16 usft	Easting:	1,631,234.00 usft	Longitude:	-105.032819
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	0.90

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	
1,634.89	20.77	178.08	1,604.75	-248.18	8.31	1.50	1.50	0.00	178.08	
5,421.56	20.77	178.08	5,145.25	-1,590.46	53.24	0.00	0.00	0.00	0.00	
6,806.46	0.00	0.00	6,500.00	-1,838.64	61.54	1.50	-1.50	0.00	180.00	
7,281.98	0.00	0.00	6,975.52	-1,838.64	61.54	0.00	0.00	0.00	0.00	
8,280.76	89.89	0.00	7,612.14	-1,203.24	61.54	9.00	9.00	0.00	0.00	
13,415.54	89.89	0.00	7,622.00	3,931.54	61.55	0.00	0.00	0.00	0.00	PAPA JO 2-25 29N:

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 29N2-8HZ
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 29N2-8HZ	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	178.08	300.00	-0.33	0.01	-0.33	1.50	1.50	0.00
400.00	2.25	178.08	399.96	-2.94	0.10	-2.94	1.50	1.50	0.00
500.00	3.75	178.08	499.82	-8.17	0.27	-8.17	1.50	1.50	0.00
600.00	5.25	178.08	599.51	-16.02	0.54	-16.00	1.50	1.50	0.00
700.00	6.75	178.08	698.96	-26.46	0.89	-26.44	1.50	1.50	0.00
800.00	8.25	178.08	798.10	-39.51	1.32	-39.48	1.50	1.50	0.00
900.00	9.75	178.08	896.87	-55.14	1.85	-55.11	1.50	1.50	0.00
1,000.00	11.25	178.08	995.19	-73.35	2.46	-73.31	1.50	1.50	0.00
1,025.31	11.63	178.08	1,020.00	-78.37	2.62	-78.32	1.50	1.50	0.00
Fox Hills									
1,100.00	12.75	178.08	1,093.00	-94.13	3.15	-94.07	1.50	1.50	0.00
1,200.00	14.25	178.08	1,190.24	-117.46	3.93	-117.39	1.50	1.50	0.00
1,300.00	15.75	178.08	1,286.83	-143.33	4.80	-143.24	1.50	1.50	0.00
1,400.00	17.25	178.08	1,382.71	-171.71	5.75	-171.60	1.50	1.50	0.00
1,500.00	18.75	178.08	1,477.81	-202.60	6.78	-202.47	1.50	1.50	0.00
1,523.46	19.10	178.08	1,500.00	-210.20	7.04	-210.07	1.50	1.50	0.00
9 5/8"									
1,600.00	20.25	178.08	1,572.07	-235.96	7.90	-235.81	1.50	1.50	0.00
1,634.89	20.77	178.08	1,604.75	-248.18	8.31	-248.02	1.50	1.50	0.00
1,700.00	20.77	178.08	1,665.62	-271.26	9.08	-271.08	0.00	0.00	0.00
1,800.00	20.77	178.08	1,759.12	-306.71	10.27	-306.51	0.00	0.00	0.00
1,900.00	20.77	178.08	1,852.62	-342.15	11.45	-341.93	0.00	0.00	0.00
2,000.00	20.77	178.08	1,946.12	-377.60	12.64	-377.36	0.00	0.00	0.00
2,100.00	20.77	178.08	2,039.62	-413.05	13.83	-412.78	0.00	0.00	0.00
2,200.00	20.77	178.08	2,133.12	-448.50	15.01	-448.21	0.00	0.00	0.00
2,300.00	20.77	178.08	2,226.62	-483.94	16.20	-483.63	0.00	0.00	0.00
2,400.00	20.77	178.08	2,320.12	-519.39	17.39	-519.05	0.00	0.00	0.00
2,500.00	20.77	178.08	2,413.62	-554.84	18.57	-554.48	0.00	0.00	0.00
2,600.00	20.77	178.08	2,507.12	-590.28	19.76	-589.90	0.00	0.00	0.00
2,700.00	20.77	178.08	2,600.62	-625.73	20.94	-625.33	0.00	0.00	0.00
2,800.00	20.77	178.08	2,694.11	-661.18	22.13	-660.75	0.00	0.00	0.00
2,900.00	20.77	178.08	2,787.61	-696.63	23.32	-696.18	0.00	0.00	0.00
3,000.00	20.77	178.08	2,881.11	-732.07	24.50	-731.60	0.00	0.00	0.00
3,100.00	20.77	178.08	2,974.61	-767.52	25.69	-767.03	0.00	0.00	0.00
3,200.00	20.77	178.08	3,068.11	-802.97	26.88	-802.45	0.00	0.00	0.00
3,300.00	20.77	178.08	3,161.61	-838.42	28.06	-837.88	0.00	0.00	0.00
3,400.00	20.77	178.08	3,255.11	-873.86	29.25	-873.30	0.00	0.00	0.00
3,500.00	20.77	178.08	3,348.61	-909.31	30.44	-908.72	0.00	0.00	0.00
3,600.00	20.77	178.08	3,442.11	-944.76	31.62	-944.15	0.00	0.00	0.00
3,700.00	20.77	178.08	3,535.61	-980.21	32.81	-979.57	0.00	0.00	0.00
3,800.00	20.77	178.08	3,629.10	-1,015.65	34.00	-1,015.00	0.00	0.00	0.00
3,900.00	20.77	178.08	3,722.60	-1,051.10	35.18	-1,050.42	0.00	0.00	0.00
4,000.00	20.77	178.08	3,816.10	-1,086.55	36.37	-1,085.85	0.00	0.00	0.00
4,100.00	20.77	178.08	3,909.60	-1,122.00	37.56	-1,121.27	0.00	0.00	0.00
4,200.00	20.77	178.08	4,003.10	-1,157.44	38.74	-1,156.70	0.00	0.00	0.00
4,300.00	20.77	178.08	4,096.60	-1,192.89	39.93	-1,192.12	0.00	0.00	0.00
4,400.00	20.77	178.08	4,190.10	-1,228.34	41.12	-1,227.55	0.00	0.00	0.00
4,406.31	20.77	178.08	4,196.00	-1,230.58	41.19	-1,229.78	0.00	0.00	0.00
Parkman									

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 29N2-8HZ
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 29N2-8HZ	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	20.77	178.08	4,283.60	-1,263.79	42.30	-1,262.97	0.00	0.00	0.00
4,600.00	20.77	178.08	4,377.10	-1,299.23	43.49	-1,298.39	0.00	0.00	0.00
4,700.00	20.77	178.08	4,470.60	-1,334.68	44.68	-1,333.82	0.00	0.00	0.00
4,800.00	20.77	178.08	4,564.10	-1,370.13	45.86	-1,369.24	0.00	0.00	0.00
4,864.07	20.77	178.08	4,624.00	-1,392.84	46.62	-1,391.94	0.00	0.00	0.00
Sussex									
4,900.00	20.77	178.08	4,657.59	-1,405.58	47.05	-1,404.67	0.00	0.00	0.00
5,000.00	20.77	178.08	4,751.09	-1,441.02	48.23	-1,440.09	0.00	0.00	0.00
5,100.00	20.77	178.08	4,844.59	-1,476.47	49.42	-1,475.52	0.00	0.00	0.00
5,200.00	20.77	178.08	4,938.09	-1,511.92	50.61	-1,510.94	0.00	0.00	0.00
5,300.00	20.77	178.08	5,031.59	-1,547.37	51.79	-1,546.37	0.00	0.00	0.00
5,400.00	20.77	178.08	5,125.09	-1,582.81	52.98	-1,581.79	0.00	0.00	0.00
5,421.56	20.77	178.08	5,145.25	-1,590.46	53.24	-1,589.43	0.00	0.00	0.00
5,500.00	19.60	178.08	5,218.87	-1,617.51	54.14	-1,616.46	1.50	-1.50	0.00
5,600.00	18.10	178.08	5,313.50	-1,649.79	55.22	-1,648.72	1.50	-1.50	0.00
5,700.00	16.60	178.08	5,408.95	-1,679.59	56.22	-1,678.50	1.50	-1.50	0.00
5,800.00	15.10	178.08	5,505.15	-1,706.88	57.13	-1,705.78	1.50	-1.50	0.00
5,900.00	13.60	178.08	5,602.03	-1,731.64	57.96	-1,730.53	1.50	-1.50	0.00
6,000.00	12.10	178.08	5,699.52	-1,753.87	58.71	-1,752.73	1.50	-1.50	0.00
6,100.00	10.60	178.08	5,797.57	-1,773.53	59.36	-1,772.38	1.50	-1.50	0.00
6,200.00	9.10	178.08	5,896.09	-1,790.62	59.94	-1,789.46	1.50	-1.50	0.00
6,300.00	7.60	178.08	5,995.03	-1,805.13	60.42	-1,803.96	1.50	-1.50	0.00
6,400.00	6.10	178.08	6,094.31	-1,817.04	60.82	-1,815.87	1.50	-1.50	0.00
6,500.00	4.60	178.08	6,193.87	-1,826.36	61.13	-1,825.18	1.50	-1.50	0.00
6,600.00	3.10	178.08	6,293.65	-1,833.06	61.36	-1,831.88	1.50	-1.50	0.00
6,700.00	1.60	178.08	6,393.56	-1,837.15	61.49	-1,835.97	1.50	-1.50	0.00
6,800.00	0.10	178.08	6,493.55	-1,838.63	61.54	-1,837.44	1.50	-1.50	0.00
6,806.46	0.00	0.00	6,500.00	-1,838.64	61.54	-1,837.45	1.50	-1.50	0.00
6,900.00	0.00	0.00	6,593.55	-1,838.64	61.54	-1,837.45	0.00	0.00	0.00
7,000.00	0.00	0.00	6,693.55	-1,838.64	61.54	-1,837.45	0.00	0.00	0.00
7,100.00	0.00	0.00	6,793.55	-1,838.64	61.54	-1,837.45	0.00	0.00	0.00
7,200.00	0.00	0.00	6,893.55	-1,838.64	61.54	-1,837.45	0.00	0.00	0.00
7,281.98	0.00	0.00	6,975.52	-1,838.64	61.54	-1,837.45	0.00	0.00	0.00
7,300.00	1.62	0.00	6,993.54	-1,838.38	61.54	-1,837.19	9.00	9.00	0.00
7,400.00	10.62	0.00	7,092.87	-1,827.73	61.54	-1,826.54	9.00	9.00	0.00
7,500.00	19.62	0.00	7,189.31	-1,801.67	61.54	-1,800.48	9.00	9.00	0.00
7,600.00	28.62	0.00	7,280.48	-1,760.84	61.54	-1,759.66	9.00	9.00	0.00
7,700.00	37.62	0.00	7,364.15	-1,706.25	61.54	-1,705.08	9.00	9.00	0.00
7,758.80	42.91	0.00	7,409.00	-1,668.26	61.54	-1,667.09	9.00	9.00	0.00
Sharon Springs									
7,800.00	46.62	0.00	7,438.24	-1,639.25	61.54	-1,638.09	9.00	9.00	0.00
7,818.87	48.32	0.00	7,451.00	-1,625.34	61.54	-1,624.18	9.00	9.00	0.00
Niobrara									
7,900.00	55.62	0.00	7,500.94	-1,561.48	61.54	-1,560.33	9.00	9.00	0.00
8,000.00	64.62	0.00	7,550.71	-1,474.86	61.54	-1,473.72	9.00	9.00	0.00
8,100.00	73.62	0.00	7,586.31	-1,381.53	61.54	-1,380.39	9.00	9.00	0.00
8,106.09	74.17	0.00	7,588.00	-1,375.67	61.54	-1,374.54	9.00	9.00	0.00
Nio B									
8,200.00	82.62	0.00	7,606.87	-1,283.77	61.54	-1,282.65	9.00	9.00	0.00
8,280.76	89.89	0.00	7,612.14	-1,203.23	61.54	-1,202.12	9.00	9.00	0.00
Top of Production - PAPA JO 2-2529N2-8HZ_PHL									
8,300.00	89.89	0.00	7,612.18	-1,183.99	61.54	-1,182.89	0.00	0.00	0.00
8,400.00	89.89	0.00	7,612.37	-1,083.99	61.54	-1,082.90	0.00	0.00	0.00
8,500.00	89.89	0.00	7,612.56	-983.99	61.54	-982.91	0.00	0.00	0.00

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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 29N2-8HZ
Wellbore: Plan A
Design: Permit Rev-1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAPA JO 2-25 29N2-8HZ
 RKB @ 5082.00usft (Original Well Elev)
 RKB @ 5082.00usft (Original Well Elev)
 True
 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)
8,600.00	89.89	0.00	7,612.75	-884.00	61.54	-882.92	0.00	0.00	0.00
8,700.00	89.89	0.00	7,612.95	-784.00	61.54	-782.94	0.00	0.00	0.00
8,800.00	89.89	0.00	7,613.14	-684.00	61.54	-682.95	0.00	0.00	0.00
8,900.00	89.89	0.00	7,613.33	-584.00	61.54	-582.96	0.00	0.00	0.00
9,000.00	89.89	0.00	7,613.52	-484.00	61.54	-482.97	0.00	0.00	0.00
9,100.00	89.89	0.00	7,613.71	-384.00	61.54	-382.99	0.00	0.00	0.00
9,200.00	89.89	0.00	7,613.91	-284.00	61.54	-283.00	0.00	0.00	0.00
9,300.00	89.89	0.00	7,614.10	-184.00	61.55	-183.01	0.00	0.00	0.00
9,400.00	89.89	0.00	7,614.29	-84.00	61.55	-83.02	0.00	0.00	0.00
9,500.00	89.89	0.00	7,614.48	16.00	61.55	16.96	0.00	0.00	0.00
9,600.00	89.89	0.00	7,614.67	116.00	61.55	116.95	0.00	0.00	0.00
9,700.00	89.89	0.00	7,614.87	216.00	61.55	216.94	0.00	0.00	0.00
9,800.00	89.89	0.00	7,615.06	316.00	61.55	316.93	0.00	0.00	0.00
9,900.00	89.89	0.00	7,615.25	416.00	61.55	416.92	0.00	0.00	0.00
10,000.00	89.89	0.00	7,615.44	516.00	61.55	516.90	0.00	0.00	0.00
10,100.00	89.89	0.00	7,615.63	616.00	61.55	616.89	0.00	0.00	0.00
10,200.00	89.89	0.00	7,615.83	716.00	61.55	716.88	0.00	0.00	0.00
10,300.00	89.89	0.00	7,616.02	816.00	61.55	816.87	0.00	0.00	0.00
10,400.00	89.89	0.00	7,616.21	916.00	61.55	916.85	0.00	0.00	0.00
10,500.00	89.89	0.00	7,616.40	1,016.00	61.55	1,016.84	0.00	0.00	0.00
10,600.00	89.89	0.00	7,616.59	1,116.00	61.55	1,116.83	0.00	0.00	0.00
10,700.00	89.89	0.00	7,616.79	1,216.00	61.55	1,216.82	0.00	0.00	0.00
10,800.00	89.89	0.00	7,616.98	1,316.00	61.55	1,316.80	0.00	0.00	0.00
10,900.00	89.89	0.00	7,617.17	1,416.00	61.55	1,416.79	0.00	0.00	0.00
11,000.00	89.89	0.00	7,617.36	1,516.00	61.55	1,516.78	0.00	0.00	0.00
11,100.00	89.89	0.00	7,617.55	1,616.00	61.55	1,616.77	0.00	0.00	0.00
11,200.00	89.89	0.00	7,617.75	1,716.00	61.55	1,716.75	0.00	0.00	0.00
11,300.00	89.89	0.00	7,617.94	1,816.00	61.55	1,816.74	0.00	0.00	0.00
11,400.00	89.89	0.00	7,618.13	1,916.00	61.55	1,916.73	0.00	0.00	0.00
11,500.00	89.89	0.00	7,618.32	2,016.00	61.55	2,016.72	0.00	0.00	0.00
11,600.00	89.89	0.00	7,618.51	2,116.00	61.55	2,116.70	0.00	0.00	0.00
11,700.00	89.89	0.00	7,618.71	2,216.00	61.55	2,216.69	0.00	0.00	0.00
11,800.00	89.89	0.00	7,618.90	2,316.00	61.55	2,316.68	0.00	0.00	0.00
11,900.00	89.89	0.00	7,619.09	2,416.00	61.55	2,416.67	0.00	0.00	0.00
12,000.00	89.89	0.00	7,619.28	2,516.00	61.55	2,516.65	0.00	0.00	0.00
12,100.00	89.89	0.00	7,619.47	2,616.00	61.55	2,616.64	0.00	0.00	0.00
12,200.00	89.89	0.00	7,619.67	2,716.00	61.55	2,716.63	0.00	0.00	0.00
12,300.00	89.89	0.00	7,619.86	2,816.00	61.55	2,816.62	0.00	0.00	0.00
12,400.00	89.89	0.00	7,620.05	2,916.00	61.55	2,916.60	0.00	0.00	0.00
12,500.00	89.89	0.00	7,620.24	3,016.00	61.55	3,016.59	0.00	0.00	0.00
12,600.00	89.89	0.00	7,620.43	3,116.00	61.55	3,116.58	0.00	0.00	0.00
12,700.00	89.89	0.00	7,620.63	3,216.00	61.55	3,216.57	0.00	0.00	0.00
12,800.00	89.89	0.00	7,620.82	3,316.00	61.55	3,316.55	0.00	0.00	0.00
12,900.00	89.89	0.00	7,621.01	3,416.00	61.55	3,416.54	0.00	0.00	0.00
13,000.00	89.89	0.00	7,621.20	3,516.00	61.55	3,516.53	0.00	0.00	0.00
13,100.00	89.89	0.00	7,621.39	3,616.00	61.55	3,616.52	0.00	0.00	0.00
13,200.00	89.89	0.00	7,621.59	3,716.00	61.55	3,716.50	0.00	0.00	0.00
13,300.00	89.89	0.00	7,621.78	3,816.00	61.55	3,816.49	0.00	0.00	0.00
13,400.00	89.89	0.00	7,621.97	3,916.00	61.55	3,916.48	0.00	0.00	0.00
13,415.54	89.89	0.00	7,622.00	3,931.54	61.55	3,932.02	0.00	0.00	0.00

PAPA JO 2-25 29N2-8HZ_PBHL

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 29N2-8HZ
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 29N2-8HZ	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 2-2529N2-8	0.00	0.00	7,612.14	-1,203.23	61.54	14,548,134.22	1,631,295.10	40.058766	-105.032599
- plan hits target center									
- Point									
PAPA JO 2-25 29N2-8	0.00	0.00	7,622.00	3,931.54	61.55	14,553,269.00	1,631,297.00	40.072867	-105.032599
- plan hits target center									
- Point									

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,523.46	1,500.00	9 5/8"	9-5/8	13-1/2
	8,280.76	7,612.14	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			
	4,406.31	4,196.00	Parkman			
	4,864.07	4,624.00	Sussex			
	7,758.80	7,409.00	Sharon Springs			
	7,818.87	7,451.00	Niobrara			
	8,106.09	7,588.00	Nio B			