

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

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

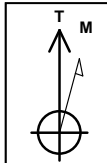
PAPA JO 2-25 35C2-17HZ

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 35C2-17HZ
Wellbore: Plan A
Design: Permit Rev-1

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1020.00	1021.04	Fox Hills
4198.00	4239.26	Parkman
4624.00	4672.99	Sussex
7413.00	7486.34	Sharon Springs
7454.00	7530.05	Niobrara
7584.00	7678.89	Nio B
7655.00	7814.42	Nio C
7820.00	8067.06	Fort Hayes
7841.00	8176.07	Codell

WELL DETAILS: PAPA JO 2-25 35C2-17HZ

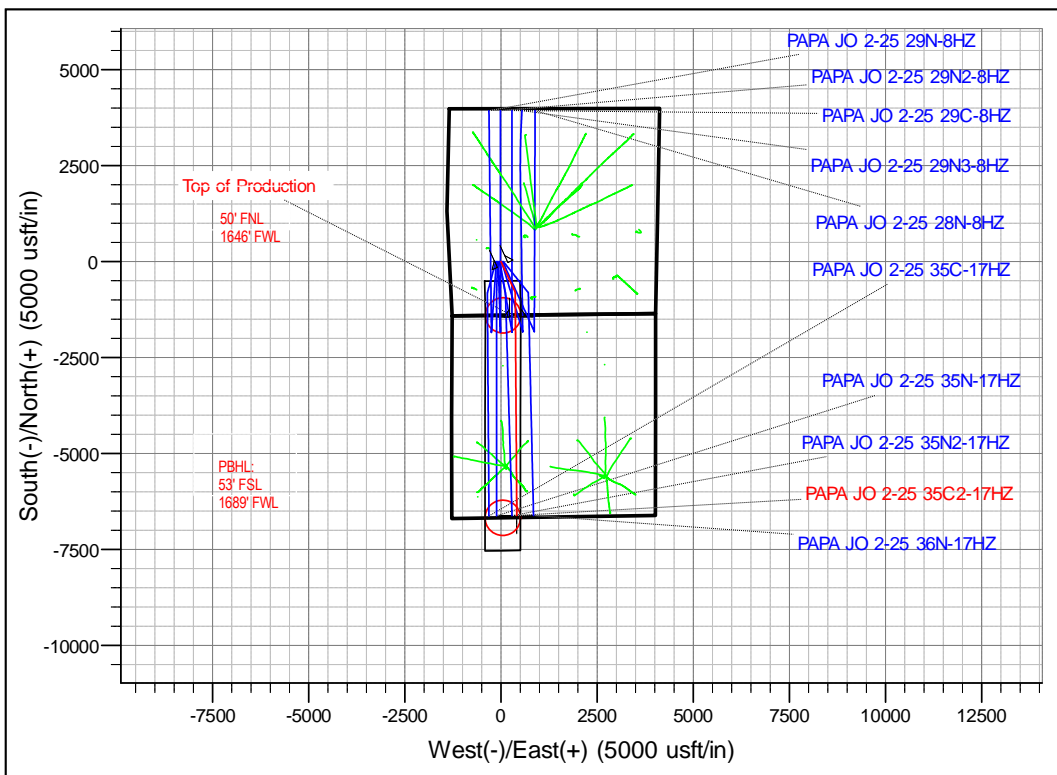
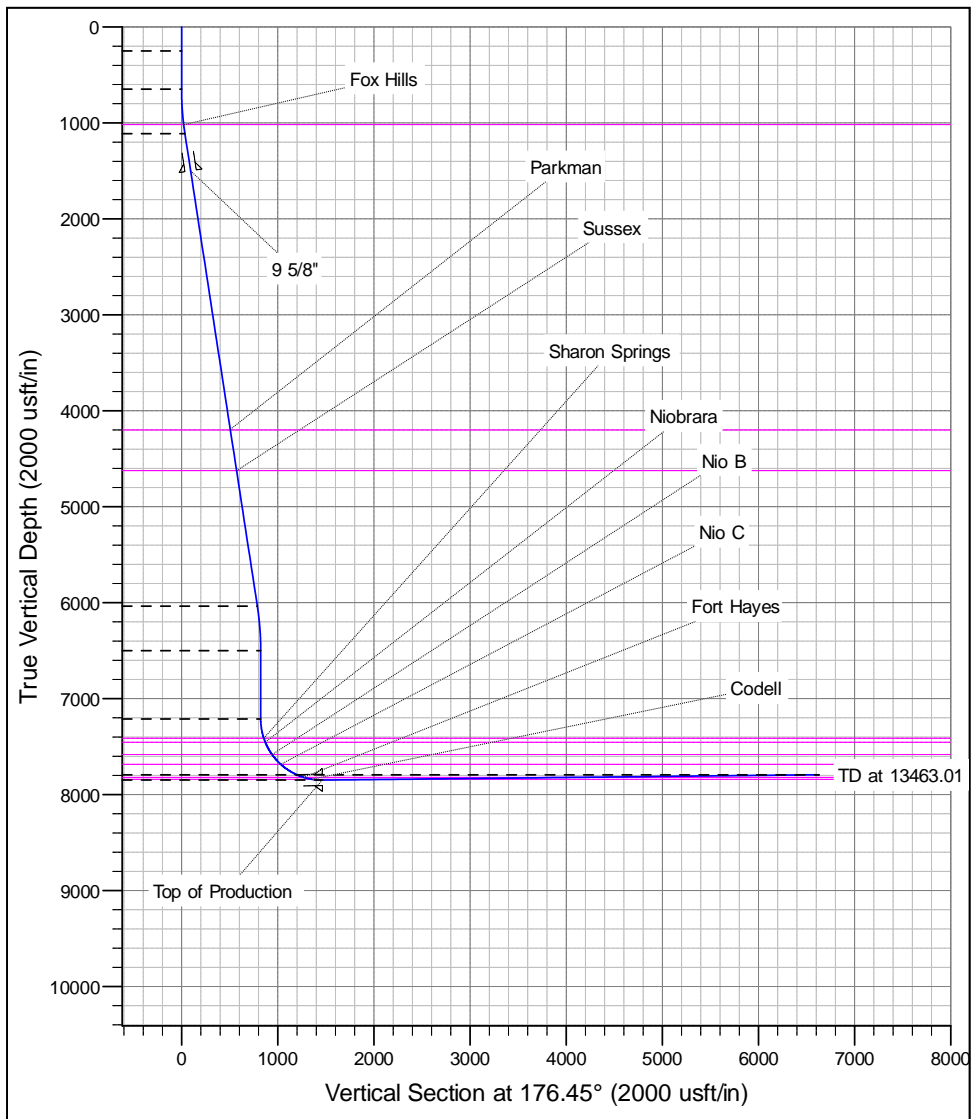
+N/-S	+E/-W	GL: 5065.00	RKB @ 5082.00usft (Original Well Elev)	Latitude		Longitude	Slot
0.00	0.00	Northing 14549337.09	Easting 1631308.99	40.062069	-105.032551		

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
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00
1115.89	9.32	155.23	1113.84	-34.32	15.63	2.00	35.24
6104.03	9.32	155.23	6036.16	-767.68	354.17	0.00	788.11
6569.92	0.00	0.00	6500.00	-802.00	370.00	2.00	823.34
7283.31	0.00	0.00	7213.39	-802.00	370.00	0.00	823.34
8290.20	90.62	179.61	7849.97	-1445.49	374.43	9.00	1465.88
13463.01	90.62	179.61	7794.00	-6617.88	410.00	0.00	6630.57

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PAPA JO 2-25 35C2-17HZ_PBHL	7794.00	-6617.88	410.00	14542719.06	1631716.57	40.043895	-105.031086



Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35C2-17HZ
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 35C2-17HZ	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 35C2-17HZ					
Well Position	+N/-S	-0.73 usft	Northing:	14,549,337.09 usft	Latitude:	40.062069
	+E/-W	135.14 usft	Easting:	1,631,308.98 usft	Longitude:	-105.032551
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	176.45

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	
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,115.89	9.32	155.23	1,113.84	-34.32	15.83	2.00	2.00	0.00	155.23	
6,104.03	9.32	155.23	6,036.16	-767.68	354.17	0.00	0.00	0.00	0.00	
6,569.92	0.00	0.00	6,500.00	-802.00	370.00	2.00	-2.00	0.00	180.00	
7,283.31	0.00	0.00	7,213.39	-802.00	370.00	0.00	0.00	0.00	0.00	
8,290.20	90.62	179.61	7,849.97	-1,445.49	374.43	9.00	9.00	0.00	179.61	
13,463.01	90.62	179.61	7,794.00	-6,617.88	410.00	0.00	0.00	0.00	0.00	PAPA JO 2-25 35C:

Anadarko Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35C2-17HZ
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 35C2-17HZ	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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.00	155.23	700.00	-0.40	0.18	0.41	2.00	2.00	2.00	0.00
800.00	3.00	155.23	799.93	-3.56	1.64	3.66	2.00	2.00	2.00	0.00
900.00	5.00	155.23	899.68	-9.90	4.57	10.16	2.00	2.00	2.00	0.00
1,000.00	7.00	155.23	999.13	-19.39	8.95	19.91	2.00	2.00	2.00	0.00
1,021.04	7.42	155.23	1,020.00	-21.79	10.05	22.37	2.00	2.00	2.00	0.00
Fox Hills										
1,100.00	9.00	155.23	1,098.15	-32.03	14.78	32.88	2.00	2.00	2.00	0.00
1,115.89	9.32	155.23	1,113.84	-34.32	15.83	35.24	2.00	2.00	2.00	0.00
1,200.00	9.32	155.23	1,196.84	-46.69	21.54	47.93	0.00	0.00	0.00	0.00
1,300.00	9.32	155.23	1,295.52	-61.39	28.32	63.02	0.00	0.00	0.00	0.00
1,400.00	9.32	155.23	1,394.20	-76.09	35.11	78.12	0.00	0.00	0.00	0.00
1,500.00	9.32	155.23	1,492.88	-90.79	41.89	93.21	0.00	0.00	0.00	0.00
1,507.21	9.32	155.23	1,500.00	-91.86	42.38	94.30	0.00	0.00	0.00	0.00
9 5/8"										
1,600.00	9.32	155.23	1,591.56	-105.50	48.67	108.30	0.00	0.00	0.00	0.00
1,700.00	9.32	155.23	1,690.24	-120.20	55.45	123.40	0.00	0.00	0.00	0.00
1,800.00	9.32	155.23	1,788.92	-134.90	62.24	138.49	0.00	0.00	0.00	0.00
1,900.00	9.32	155.23	1,887.60	-149.60	69.02	153.58	0.00	0.00	0.00	0.00
2,000.00	9.32	155.23	1,986.28	-164.30	75.80	168.68	0.00	0.00	0.00	0.00
2,100.00	9.32	155.23	2,084.96	-179.01	82.58	183.77	0.00	0.00	0.00	0.00
2,200.00	9.32	155.23	2,183.64	-193.71	89.37	198.86	0.00	0.00	0.00	0.00
2,300.00	9.32	155.23	2,282.33	-208.41	96.15	213.96	0.00	0.00	0.00	0.00
2,400.00	9.32	155.23	2,381.01	-223.11	102.93	229.05	0.00	0.00	0.00	0.00
2,500.00	9.32	155.23	2,479.69	-237.81	109.71	244.14	0.00	0.00	0.00	0.00
2,600.00	9.32	155.23	2,578.37	-252.52	116.50	259.24	0.00	0.00	0.00	0.00
2,700.00	9.32	155.23	2,677.05	-267.22	123.28	274.33	0.00	0.00	0.00	0.00
2,800.00	9.32	155.23	2,775.73	-281.92	130.06	289.42	0.00	0.00	0.00	0.00
2,900.00	9.32	155.23	2,874.41	-296.62	136.85	304.52	0.00	0.00	0.00	0.00
3,000.00	9.32	155.23	2,973.09	-311.32	143.63	319.61	0.00	0.00	0.00	0.00
3,100.00	9.32	155.23	3,071.77	-326.03	150.41	334.70	0.00	0.00	0.00	0.00
3,200.00	9.32	155.23	3,170.45	-340.73	157.19	349.80	0.00	0.00	0.00	0.00
3,300.00	9.32	155.23	3,269.13	-355.43	163.98	364.89	0.00	0.00	0.00	0.00
3,400.00	9.32	155.23	3,367.81	-370.13	170.76	379.98	0.00	0.00	0.00	0.00
3,500.00	9.32	155.23	3,466.49	-384.83	177.54	395.08	0.00	0.00	0.00	0.00
3,600.00	9.32	155.23	3,565.17	-399.54	184.32	410.17	0.00	0.00	0.00	0.00
3,700.00	9.32	155.23	3,663.85	-414.24	191.11	425.26	0.00	0.00	0.00	0.00
3,800.00	9.32	155.23	3,762.53	-428.94	197.89	440.36	0.00	0.00	0.00	0.00
3,900.00	9.32	155.23	3,861.21	-443.64	204.67	455.45	0.00	0.00	0.00	0.00
4,000.00	9.32	155.23	3,959.89	-458.34	211.46	470.54	0.00	0.00	0.00	0.00
4,100.00	9.32	155.23	4,058.57	-473.05	218.24	485.64	0.00	0.00	0.00	0.00
4,200.00	9.32	155.23	4,157.26	-487.75	225.02	500.73	0.00	0.00	0.00	0.00
4,239.26	9.32	155.23	4,196.00	-493.52	227.68	506.65	0.00	0.00	0.00	0.00
Parkman										
4,300.00	9.32	155.23	4,255.94	-502.45	231.80	515.82	0.00	0.00	0.00	0.00

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Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35C2-17HZ
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 35C2-17HZ	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)	
4,400.00	9.32	155.23	4,354.62	-517.15	238.59	530.91	0.00	0.00	0.00	
4,500.00	9.32	155.23	4,453.30	-531.85	245.37	546.01	0.00	0.00	0.00	
4,600.00	9.32	155.23	4,551.98	-546.56	252.15	561.10	0.00	0.00	0.00	
4,672.99	9.32	155.23	4,624.00	-557.29	257.10	572.12	0.00	0.00	0.00	
Sussex										
4,700.00	9.32	155.23	4,650.66	-561.26	258.93	576.19	0.00	0.00	0.00	
4,800.00	9.32	155.23	4,749.34	-575.96	265.72	591.29	0.00	0.00	0.00	
4,900.00	9.32	155.23	4,848.02	-590.66	272.50	606.38	0.00	0.00	0.00	
5,000.00	9.32	155.23	4,946.70	-605.36	279.28	621.47	0.00	0.00	0.00	
5,100.00	9.32	155.23	5,045.38	-620.07	286.06	636.57	0.00	0.00	0.00	
5,200.00	9.32	155.23	5,144.06	-634.77	292.85	651.66	0.00	0.00	0.00	
5,300.00	9.32	155.23	5,242.74	-649.47	299.63	666.75	0.00	0.00	0.00	
5,400.00	9.32	155.23	5,341.42	-664.17	306.41	681.85	0.00	0.00	0.00	
5,500.00	9.32	155.23	5,440.10	-678.87	313.20	696.94	0.00	0.00	0.00	
5,600.00	9.32	155.23	5,538.78	-693.57	319.98	712.03	0.00	0.00	0.00	
5,700.00	9.32	155.23	5,637.46	-708.28	326.76	727.13	0.00	0.00	0.00	
5,800.00	9.32	155.23	5,736.14	-722.98	333.54	742.22	0.00	0.00	0.00	
5,900.00	9.32	155.23	5,834.82	-737.68	340.33	757.31	0.00	0.00	0.00	
6,000.00	9.32	155.23	5,933.50	-752.38	347.11	772.41	0.00	0.00	0.00	
6,100.00	9.32	155.23	6,032.19	-767.08	353.89	787.50	0.00	0.00	0.00	
6,104.03	9.32	155.23	6,036.16	-767.68	354.17	788.11	0.00	0.00	0.00	
6,200.00	7.40	155.23	6,131.11	-780.34	360.01	801.11	2.00	-2.00	0.00	
6,300.00	5.40	155.23	6,230.48	-790.46	364.68	811.50	2.00	-2.00	0.00	
6,400.00	3.40	155.23	6,330.18	-797.43	367.89	818.65	2.00	-2.00	0.00	
6,500.00	1.40	155.23	6,430.09	-801.23	369.64	822.55	2.00	-2.00	0.00	
6,569.92	0.00	0.00	6,500.00	-802.00	370.00	823.34	2.00	-2.00	0.00	
6,600.00	0.00	0.00	6,530.08	-802.00	370.00	823.34	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,630.08	-802.00	370.00	823.34	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,730.08	-802.00	370.00	823.34	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,830.08	-802.00	370.00	823.34	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,930.08	-802.00	370.00	823.34	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,030.08	-802.00	370.00	823.34	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,130.08	-802.00	370.00	823.34	0.00	0.00	0.00	
7,283.31	0.00	0.00	7,213.39	-802.00	370.00	823.34	0.00	0.00	0.00	
7,300.00	1.50	179.61	7,230.08	-802.22	370.00	823.56	9.00	9.00	0.00	
7,400.00	10.50	179.61	7,329.43	-812.66	370.07	833.99	9.00	9.00	0.00	
7,486.34	18.27	179.61	7,413.00	-834.10	370.22	855.40	9.00	9.00	0.00	
Sharon Springs										
7,500.00	19.50	179.61	7,425.92	-838.52	370.25	859.81	9.00	9.00	0.00	
7,530.05	22.21	179.61	7,454.00	-849.22	370.32	870.49	9.00	9.00	0.00	
Niobrara										
7,600.00	28.50	179.61	7,517.18	-879.16	370.53	900.39	9.00	9.00	0.00	
7,678.89	35.60	179.61	7,584.00	-920.99	370.82	942.16	9.00	9.00	0.00	
Nio B										
7,700.00	37.50	179.61	7,600.96	-933.57	370.90	954.71	9.00	9.00	0.00	
7,800.00	46.50	179.61	7,675.20	-1,000.41	371.36	1,021.46	9.00	9.00	0.00	
7,814.42	47.80	179.61	7,685.00	-1,010.98	371.44	1,032.01	9.00	9.00	0.00	
Nio C										
7,900.00	55.50	179.61	7,738.06	-1,078.05	371.90	1,098.98	9.00	9.00	0.00	
8,000.00	64.50	179.61	7,788.01	-1,164.56	372.49	1,185.36	9.00	9.00	0.00	
8,087.06	72.34	179.61	7,820.00	-1,245.45	373.05	1,266.13	9.00	9.00	0.00	
Fort Hayes										
8,100.00	73.50	179.61	7,823.80	-1,257.82	373.14	1,278.49	9.00	9.00	0.00	

Anadarko

Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35C2-17HZ
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 35C2-17HZ	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)	
8,176.07	80.35	179.61	7,841.00	-1,331.87	373.64	1,352.43	9.00	9.00	0.00	
Codell										
8,200.00	82.50	179.61	7,844.57	-1,355.53	373.81	1,376.05	9.00	9.00	0.00	
8,290.20	90.62	179.61	7,849.97	-1,445.49	374.43	1,465.88	9.00	9.00	0.00	
Top of Production - PAPA JO 2-25 35C2-17HZ_PHL										
8,300.00	90.62	179.61	7,849.87	-1,455.29	374.49	1,475.67	0.00	0.00	0.00	
8,400.00	90.62	179.61	7,848.79	-1,555.29	375.18	1,575.51	0.00	0.00	0.00	
8,500.00	90.62	179.61	7,847.70	-1,655.28	375.87	1,675.35	0.00	0.00	0.00	
8,600.00	90.62	179.61	7,846.62	-1,755.27	376.56	1,775.19	0.00	0.00	0.00	
8,700.00	90.62	179.61	7,845.54	-1,855.26	377.24	1,875.04	0.00	0.00	0.00	
8,800.00	90.62	179.61	7,844.46	-1,955.25	377.93	1,974.88	0.00	0.00	0.00	
8,900.00	90.62	179.61	7,843.38	-2,055.24	378.62	2,074.72	0.00	0.00	0.00	
9,000.00	90.62	179.61	7,842.29	-2,155.24	379.31	2,174.57	0.00	0.00	0.00	
9,100.00	90.62	179.61	7,841.21	-2,255.23	379.99	2,274.41	0.00	0.00	0.00	
9,200.00	90.62	179.61	7,840.13	-2,355.22	380.68	2,374.25	0.00	0.00	0.00	
9,300.00	90.62	179.61	7,839.05	-2,455.21	381.37	2,474.09	0.00	0.00	0.00	
9,400.00	90.62	179.61	7,837.97	-2,555.20	382.06	2,573.94	0.00	0.00	0.00	
9,500.00	90.62	179.61	7,836.88	-2,655.19	382.75	2,673.78	0.00	0.00	0.00	
9,600.00	90.62	179.61	7,835.80	-2,755.19	383.43	2,773.62	0.00	0.00	0.00	
9,700.00	90.62	179.61	7,834.72	-2,855.18	384.12	2,873.47	0.00	0.00	0.00	
9,800.00	90.62	179.61	7,833.64	-2,955.17	384.81	2,973.31	0.00	0.00	0.00	
9,900.00	90.62	179.61	7,832.55	-3,055.16	385.50	3,073.15	0.00	0.00	0.00	
10,000.00	90.62	179.61	7,831.47	-3,155.15	386.18	3,173.00	0.00	0.00	0.00	
10,100.00	90.62	179.61	7,830.39	-3,255.15	386.87	3,272.84	0.00	0.00	0.00	
10,200.00	90.62	179.61	7,829.31	-3,355.14	387.56	3,372.68	0.00	0.00	0.00	
10,300.00	90.62	179.61	7,828.23	-3,455.13	388.25	3,472.52	0.00	0.00	0.00	
10,400.00	90.62	179.61	7,827.14	-3,555.12	388.94	3,572.37	0.00	0.00	0.00	
10,500.00	90.62	179.61	7,826.06	-3,655.11	389.62	3,672.21	0.00	0.00	0.00	
10,600.00	90.62	179.61	7,824.98	-3,755.10	390.31	3,772.05	0.00	0.00	0.00	
10,700.00	90.62	179.61	7,823.90	-3,855.10	391.00	3,871.90	0.00	0.00	0.00	
10,800.00	90.62	179.61	7,822.82	-3,955.09	391.69	3,971.74	0.00	0.00	0.00	
10,900.00	90.62	179.61	7,821.73	-4,055.08	392.37	4,071.58	0.00	0.00	0.00	
11,000.00	90.62	179.61	7,820.65	-4,155.07	393.06	4,171.43	0.00	0.00	0.00	
11,100.00	90.62	179.61	7,819.57	-4,255.06	393.75	4,271.27	0.00	0.00	0.00	
11,200.00	90.62	179.61	7,818.49	-4,355.06	394.44	4,371.11	0.00	0.00	0.00	
11,300.00	90.62	179.61	7,817.41	-4,455.05	395.12	4,470.95	0.00	0.00	0.00	
11,400.00	90.62	179.61	7,816.32	-4,555.04	395.81	4,570.80	0.00	0.00	0.00	
11,500.00	90.62	179.61	7,815.24	-4,655.03	396.50	4,670.64	0.00	0.00	0.00	
11,600.00	90.62	179.61	7,814.16	-4,755.02	397.19	4,770.48	0.00	0.00	0.00	
11,700.00	90.62	179.61	7,813.08	-4,855.01	397.88	4,870.33	0.00	0.00	0.00	
11,800.00	90.62	179.61	7,812.00	-4,955.01	398.56	4,970.17	0.00	0.00	0.00	
11,900.00	90.62	179.61	7,810.91	-5,055.00	399.25	5,070.01	0.00	0.00	0.00	
12,000.00	90.62	179.61	7,809.83	-5,154.99	399.94	5,169.85	0.00	0.00	0.00	
12,100.00	90.62	179.61	7,808.75	-5,254.98	400.63	5,269.70	0.00	0.00	0.00	
12,200.00	90.62	179.61	7,807.67	-5,354.97	401.31	5,369.54	0.00	0.00	0.00	
12,300.00	90.62	179.61	7,806.58	-5,454.96	402.00	5,469.38	0.00	0.00	0.00	
12,400.00	90.62	179.61	7,805.50	-5,554.96	402.69	5,569.23	0.00	0.00	0.00	
12,500.00	90.62	179.61	7,804.42	-5,654.95	403.38	5,669.07	0.00	0.00	0.00	
12,600.00	90.62	179.61	7,803.34	-5,754.94	404.06	5,768.91	0.00	0.00	0.00	
12,700.00	90.62	179.61	7,802.26	-5,854.93	404.75	5,868.76	0.00	0.00	0.00	
12,800.00	90.62	179.61	7,801.17	-5,954.92	405.44	5,968.60	0.00	0.00	0.00	
12,900.00	90.62	179.61	7,800.09	-6,054.92	406.13	6,068.44	0.00	0.00	0.00	
13,000.00	90.62	179.61	7,799.01	-6,154.91	406.82	6,168.28	0.00	0.00	0.00	
13,100.00	90.62	179.61	7,797.93	-6,254.90	407.50	6,268.13	0.00	0.00	0.00	

Anadarko Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well PAPA JO 2-25 35C2-17HZ
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 35C2-17HZ	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)
13,200.00	90.62	179.61	7,796.85	-6,354.89	408.19	6,367.97	0.00	0.00	0.00
13,300.00	90.62	179.61	7,795.76	-6,454.88	408.88	6,467.81	0.00	0.00	0.00
13,400.00	90.62	179.61	7,794.68	-6,554.87	409.57	6,567.66	0.00	0.00	0.00
13,463.01	90.62	179.61	7,794.00	-6,617.88	410.00	6,630.57	0.00	0.00	0.00
PAPA JO 2-25 35C2-17HZ_PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PAPA JO 2-25 35C2-1 - hit/miss target - Shape - Point	0.00	0.00	7,794.00	-6,617.88	410.00	14,542,719.06	1,631,716.56	40.043895	-105.031086
PAPA JO 2-25 35C2-1 - plan hits target center - Point	0.00	0.00	7,849.97	-1,445.49	374.43	14,547,891.46	1,631,682.88	40.058100	-105.031213

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
1,507.21	1,500.00	9 5/8"	9-5/8	13-1/2		
8,290.20	7,849.97	Top of Production	5-1/2	8-1/2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,021.04	1,020.00	Fox Hills				
4,239.26	4,196.00	Parkman				
4,672.99	4,624.00	Sussex				
7,486.34	7,413.00	Sharon Springs				
7,530.05	7,454.00	Niobrara				
7,678.89	7,584.00	Nio B				
7,814.42	7,685.00	Nio C				
8,087.06	7,820.00	Fort Hayes				
8,176.07	7,841.00	Codell				