

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-13 Guest 11-13HZ Pad
GUEST 28N-25HZ**

Plan A

Plan: Permit Rev-3

Standard Planning Report

15 November, 2016

Project: WELD-NAD83-UTMFT13N
 Site: 2N-65W-13 Guest 11-13HZ Pad
 Well: GUEST 28N-25HZ
 Wellbore: Plan A
 Design: Permit Rev-3

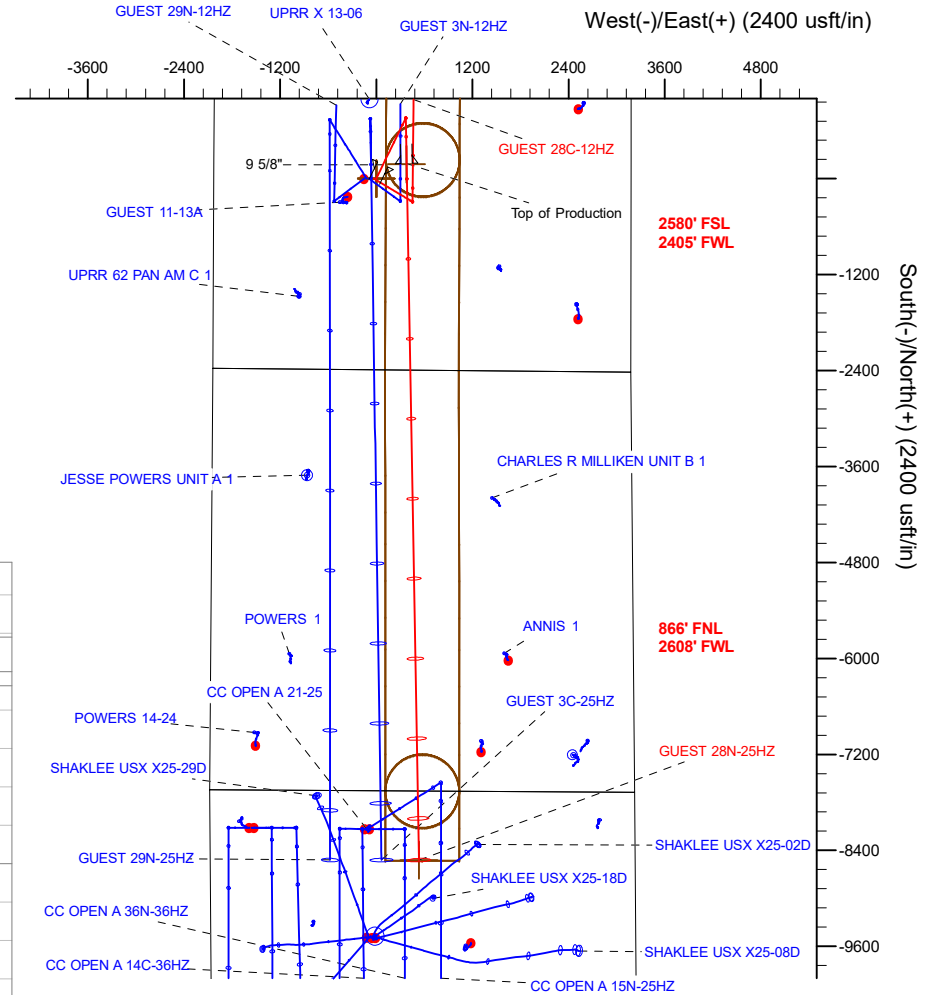
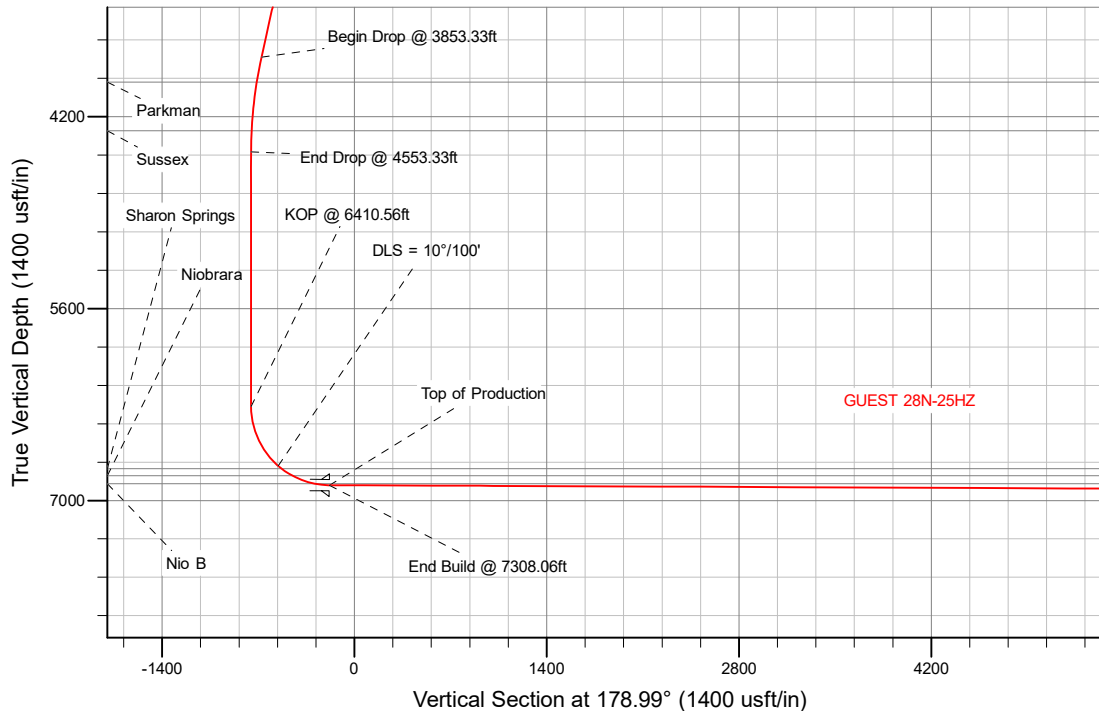
US ROCKIES WATTENBERG PLANNING

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	1183.33	14.00	26.00	1174.07	101.98	49.74	1.50	26.00	-101.09	
4	3853.33	14.00	26.00	3764.76	682.54	332.90	0.00	0.00	-676.56	
5	4553.33	0.00	0.00	4457.82	759.02	370.20	2.00	180.00	-752.38	
6	6410.56	0.00	0.00	6315.05	759.02	370.20	0.00	0.00	-752.38	
7	7308.06	89.75	178.99	6888.00	188.65	380.30	10.00	178.99	-181.92	
8	16020.49	89.75	178.99	6926.00	-8522.32	534.53	0.00	0.00	8530.42	GUEST 28N-25HZ_TOE

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GUEST 28N-25HZ_SHL	0.00	0.00	0.00	40.137757	-104.614320	Point
GUEST 28N-25HZ_TOE	6926.00	-8522.32	534.53	40.114354	-104.612408	Point



WELL DETAILS: GUEST 28N-25HZ	
Ground Level:	4872.00
GL 4872 & KB 17 @ 4889.00usft (ASSUMED)	
Plan: Permit Rev-3 (GUEST 28N-25HZ/Plan A)	
Created By:	Date: 11/15/2016
Reviewed:	Date:

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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	2N-65W-13 Guest 11-13HZ Pad				
Site Position:		Northing:	14,577,131.06 usft	Latitude:	40.137758
From:	Lat/Long	Easting:	1,748,179.59 usft	Longitude:	-104.614427
Position Uncertainty:	2.68 usft	Slot Radius:	0 "	Grid Convergence:	0.25 °

Well	GUEST 28N-25HZ					
Well Position	+N/-S	-0.36 usft	Northing:	14,577,130.83 usft	Latitude:	40.137757
	+E/-W	29.91 usft	Easting:	1,748,209.49 usft	Longitude:	-104.614320
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,872.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/12/2014	8.30	66.75	52,649.70054176

Design	Permit Rev-3				
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	178.99	

Plan Survey Tool Program	Date	11/15/2016			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,500.00	Permit Rev-3 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio	
2	1,500.00	16,020.49	Permit Rev-3 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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	
1,183.33	14.00	26.00	1,174.07	101.98	49.74	1.50	1.50	0.00	26.00	
3,853.33	14.00	26.00	3,764.76	682.54	332.90	0.00	0.00	0.00	0.00	
4,553.33	0.00	0.00	4,457.82	759.02	370.20	2.00	-2.00	0.00	180.00	
6,410.56	0.00	0.00	6,315.05	759.02	370.20	0.00	0.00	0.00	0.00	
7,308.06	89.75	178.99	6,888.00	188.65	380.30	10.00	10.00	19.94	178.99	
16,020.49	89.75	178.99	6,926.00	-8,522.32	534.53	0.00	0.00	0.00	0.00	GUEST 28N-25HZ_T1

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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
Begin Nudge @ 250.00ft										
300.00	0.75	26.00	300.00	0.29	0.14	-0.29	1.50	1.50	0.00	0.00
400.00	2.25	26.00	399.96	2.65	1.29	-2.62	1.50	1.50	0.00	0.00
500.00	3.75	26.00	499.82	7.35	3.59	-7.29	1.50	1.50	0.00	0.00
600.00	5.25	26.00	599.51	14.40	7.02	-14.28	1.50	1.50	0.00	0.00
700.00	6.75	26.00	698.96	23.80	11.61	-23.59	1.50	1.50	0.00	0.00
800.00	8.25	26.00	798.10	35.53	17.33	-35.22	1.50	1.50	0.00	0.00
900.00	9.75	26.00	896.87	49.59	24.19	-49.15	1.50	1.50	0.00	0.00
1,000.00	11.25	26.00	995.19	65.97	32.17	-65.39	1.50	1.50	0.00	0.00
1,100.00	12.75	26.00	1,093.00	84.65	41.29	-83.91	1.50	1.50	0.00	0.00
1,183.33	14.00	26.00	1,174.07	101.98	49.74	-101.09	1.50	1.50	0.00	0.00
End Nudge @ 1183.33ft										
1,200.00	14.00	26.00	1,190.25	105.60	51.51	-104.68	0.00	0.00	0.00	0.00
1,300.00	14.00	26.00	1,287.27	127.35	62.11	-126.23	0.00	0.00	0.00	0.00
1,347.13	14.00	26.00	1,333.00	137.59	67.11	-136.39	0.00	0.00	0.00	0.00
Fox Hills Mkr										
1,400.00	14.00	26.00	1,384.30	149.09	72.72	-147.79	0.00	0.00	0.00	0.00
1,500.00	14.00	26.00	1,481.33	170.83	83.32	-169.34	0.00	0.00	0.00	0.00
1,519.24	14.00	26.00	1,500.00	175.02	85.36	-173.49	0.00	0.00	0.00	0.00
9 5/8"										
1,600.00	14.00	26.00	1,578.36	192.58	93.93	-190.89	0.00	0.00	0.00	0.00
1,700.00	14.00	26.00	1,675.39	214.32	104.53	-212.45	0.00	0.00	0.00	0.00
1,800.00	14.00	26.00	1,772.42	236.07	115.14	-234.00	0.00	0.00	0.00	0.00
1,900.00	14.00	26.00	1,869.45	257.81	125.74	-255.55	0.00	0.00	0.00	0.00
2,000.00	14.00	26.00	1,966.48	279.55	136.35	-277.11	0.00	0.00	0.00	0.00
2,100.00	14.00	26.00	2,063.51	301.30	146.95	-298.66	0.00	0.00	0.00	0.00
2,200.00	14.00	26.00	2,160.54	323.04	157.56	-320.21	0.00	0.00	0.00	0.00
2,300.00	14.00	26.00	2,257.57	344.78	168.16	-341.77	0.00	0.00	0.00	0.00
2,400.00	14.00	26.00	2,354.60	366.53	178.77	-363.32	0.00	0.00	0.00	0.00
2,500.00	14.00	26.00	2,451.63	388.27	189.37	-384.87	0.00	0.00	0.00	0.00
2,600.00	14.00	26.00	2,548.66	410.02	199.98	-406.43	0.00	0.00	0.00	0.00
2,700.00	14.00	26.00	2,645.69	431.76	210.58	-427.98	0.00	0.00	0.00	0.00
2,800.00	14.00	26.00	2,742.72	453.50	221.19	-449.53	0.00	0.00	0.00	0.00
2,900.00	14.00	26.00	2,839.75	475.25	231.79	-471.09	0.00	0.00	0.00	0.00
3,000.00	14.00	26.00	2,936.78	496.99	242.40	-492.64	0.00	0.00	0.00	0.00
3,100.00	14.00	26.00	3,033.81	518.74	253.00	-514.19	0.00	0.00	0.00	0.00
3,200.00	14.00	26.00	3,130.84	540.48	263.61	-535.75	0.00	0.00	0.00	0.00
3,300.00	14.00	26.00	3,227.87	562.22	274.21	-557.30	0.00	0.00	0.00	0.00
3,400.00	14.00	26.00	3,324.90	583.97	284.82	-578.86	0.00	0.00	0.00	0.00
3,500.00	14.00	26.00	3,421.93	605.71	295.42	-600.41	0.00	0.00	0.00	0.00
3,600.00	14.00	26.00	3,518.95	627.45	306.03	-621.96	0.00	0.00	0.00	0.00
3,700.00	14.00	26.00	3,615.98	649.20	316.63	-643.52	0.00	0.00	0.00	0.00
3,800.00	14.00	26.00	3,713.01	670.94	327.24	-665.07	0.00	0.00	0.00	0.00
3,853.33	14.00	26.00	3,764.76	682.54	332.90	-676.56	0.00	0.00	0.00	0.00
Begin Drop @ 3853.33ft										
3,900.00	13.07	26.00	3,810.13	692.35	337.68	-686.29	2.00	-2.00	0.00	0.00
4,000.00	11.07	26.00	3,907.92	711.14	346.85	-704.92	2.00	-2.00	0.00	0.00

**Corporate
Planning Report**

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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)	
4,038.75	10.29	26.00	3,946.00	717.60	350.00	-711.32	2.00	-2.00	0.00	
Parkman										
4,100.00	9.07	26.00	4,006.37	726.85	354.51	-720.49	2.00	-2.00	0.00	
4,200.00	7.07	26.00	4,105.38	739.46	360.66	-732.99	2.00	-2.00	0.00	
4,300.00	5.07	26.00	4,204.82	748.96	365.29	-742.41	2.00	-2.00	0.00	
4,397.44	3.12	26.00	4,302.00	755.21	368.34	-748.60	2.00	-2.00	0.00	
Sussex										
4,400.00	3.07	26.00	4,304.56	755.34	368.40	-748.72	2.00	-2.00	0.00	
4,500.00	1.07	26.00	4,404.49	758.58	369.98	-751.94	2.00	-2.00	0.00	
4,553.33	0.00	26.00	4,457.82	759.02	370.20	-752.38	2.00	-2.00	0.00	
End Drop @ 4553.33ft										
4,600.00	0.00	0.00	4,504.49	759.02	370.20	-752.38	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,604.49	759.02	370.20	-752.38	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,704.49	759.02	370.20	-752.38	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,804.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,904.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,004.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,104.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,204.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,304.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,404.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,504.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,604.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,704.49	759.02	370.20	-752.38	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,804.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,904.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,004.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,104.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,204.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,304.49	759.02	370.20	-752.38	0.00	0.00	0.00	
6,410.56	0.00	0.00	6,315.05	759.02	370.20	-752.38	0.00	0.00	0.00	
KOP @ 6410.56ft										
6,500.00	8.94	178.99	6,404.12	752.06	370.32	-745.41	10.00	10.00	0.00	
6,600.00	18.94	178.99	6,501.05	727.99	370.75	-721.35	10.00	10.00	0.00	
6,700.00	28.94	178.99	6,592.33	687.47	371.47	-680.81	10.00	10.00	0.00	
6,800.00	38.94	178.99	6,675.18	631.71	372.45	-625.05	10.00	10.00	0.00	
6,900.00	48.94	178.99	6,747.10	562.41	373.68	-555.74	10.00	10.00	0.00	
DLS = 10°/100'										
6,932.93	52.24	178.99	6,768.00	536.98	374.13	-530.30	10.00	10.00	0.00	
Sharon Springs										
7,000.00	58.94	178.99	6,805.88	481.69	375.11	-475.00	10.00	10.00	0.00	
7,024.36	61.38	178.99	6,818.00	460.56	375.48	-453.87	10.00	10.00	0.00	
Niobrara										
7,100.00	68.94	178.99	6,849.75	391.98	376.70	-385.28	10.00	10.00	0.00	
7,198.08	78.75	178.99	6,877.00	297.90	378.36	-291.18	10.00	10.00	0.00	
Nio B										
7,200.00	78.94	178.99	6,877.37	296.02	378.40	-289.30	10.00	10.00	0.00	
7,300.00	88.94	178.99	6,887.91	196.72	380.16	-189.98	10.00	10.00	0.00	
7,308.06	89.75	178.99	6,888.00	188.66	380.30	-181.92	10.00	10.00	0.00	
End Build @ 7308.06ft - Top of Production										
7,400.00	89.75	178.99	6,888.40	96.73	381.93	-89.99	0.00	0.00	0.00	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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)
7,500.00	89.75	178.99	6,888.84	-3.25	383.70	10.01	0.00	0.00	0.00
7,600.00	89.75	178.99	6,889.27	-103.23	385.47	110.01	0.00	0.00	0.00
7,700.00	89.75	178.99	6,889.71	-203.22	387.24	210.01	0.00	0.00	0.00
7,800.00	89.75	178.99	6,890.15	-303.20	389.01	310.01	0.00	0.00	0.00
7,900.00	89.75	178.99	6,890.58	-403.18	390.78	410.01	0.00	0.00	0.00
8,000.00	89.75	178.99	6,891.02	-503.17	392.55	510.01	0.00	0.00	0.00
8,100.00	89.75	178.99	6,891.45	-603.15	394.32	610.01	0.00	0.00	0.00
8,200.00	89.75	178.99	6,891.89	-703.13	396.09	710.01	0.00	0.00	0.00
8,300.00	89.75	178.99	6,892.33	-803.12	397.86	810.01	0.00	0.00	0.00
8,400.00	89.75	178.99	6,892.76	-903.10	399.63	910.01	0.00	0.00	0.00
8,500.00	89.75	178.99	6,893.20	-1,003.08	401.40	1,010.00	0.00	0.00	0.00
8,600.00	89.75	178.99	6,893.64	-1,103.07	403.17	1,110.00	0.00	0.00	0.00
8,700.00	89.75	178.99	6,894.07	-1,203.05	404.94	1,210.00	0.00	0.00	0.00
8,800.00	89.75	178.99	6,894.51	-1,303.03	406.71	1,310.00	0.00	0.00	0.00
8,900.00	89.75	178.99	6,894.94	-1,403.02	408.48	1,410.00	0.00	0.00	0.00
9,000.00	89.75	178.99	6,895.38	-1,503.00	410.25	1,510.00	0.00	0.00	0.00
9,100.00	89.75	178.99	6,895.82	-1,602.98	412.02	1,610.00	0.00	0.00	0.00
9,200.00	89.75	178.99	6,896.25	-1,702.97	413.79	1,710.00	0.00	0.00	0.00
9,300.00	89.75	178.99	6,896.69	-1,802.95	415.56	1,810.00	0.00	0.00	0.00
9,400.00	89.75	178.99	6,897.12	-1,902.93	417.33	1,910.00	0.00	0.00	0.00
9,500.00	89.75	178.99	6,897.56	-2,002.92	419.10	2,009.99	0.00	0.00	0.00
9,600.00	89.75	178.99	6,898.00	-2,102.90	420.87	2,109.99	0.00	0.00	0.00
9,700.00	89.75	178.99	6,898.43	-2,202.89	422.64	2,209.99	0.00	0.00	0.00
9,800.00	89.75	178.99	6,898.87	-2,302.87	424.41	2,309.99	0.00	0.00	0.00
9,900.00	89.75	178.99	6,899.31	-2,402.85	426.18	2,409.99	0.00	0.00	0.00
10,000.00	89.75	178.99	6,899.74	-2,502.84	427.95	2,509.99	0.00	0.00	0.00
10,100.00	89.75	178.99	6,900.18	-2,602.82	429.72	2,609.99	0.00	0.00	0.00
10,200.00	89.75	178.99	6,900.61	-2,702.80	431.49	2,709.99	0.00	0.00	0.00
10,300.00	89.75	178.99	6,901.05	-2,802.79	433.26	2,809.99	0.00	0.00	0.00
10,400.00	89.75	178.99	6,901.49	-2,902.77	435.03	2,909.99	0.00	0.00	0.00
10,500.00	89.75	178.99	6,901.92	-3,002.75	436.80	3,009.99	0.00	0.00	0.00
10,600.00	89.75	178.99	6,902.36	-3,102.74	438.57	3,109.98	0.00	0.00	0.00
10,700.00	89.75	178.99	6,902.79	-3,202.72	440.34	3,209.98	0.00	0.00	0.00
10,800.00	89.75	178.99	6,903.23	-3,302.70	442.11	3,309.98	0.00	0.00	0.00
10,900.00	89.75	178.99	6,903.67	-3,402.69	443.88	3,409.98	0.00	0.00	0.00
11,000.00	89.75	178.99	6,904.10	-3,502.67	445.66	3,509.98	0.00	0.00	0.00
11,100.00	89.75	178.99	6,904.54	-3,602.65	447.43	3,609.98	0.00	0.00	0.00
11,200.00	89.75	178.99	6,904.98	-3,702.64	449.20	3,709.98	0.00	0.00	0.00
11,300.00	89.75	178.99	6,905.41	-3,802.62	450.97	3,809.98	0.00	0.00	0.00
11,400.00	89.75	178.99	6,905.85	-3,902.60	452.74	3,909.98	0.00	0.00	0.00
11,500.00	89.75	178.99	6,906.28	-4,002.59	454.51	4,009.98	0.00	0.00	0.00
11,600.00	89.75	178.99	6,906.72	-4,102.57	456.28	4,109.97	0.00	0.00	0.00
11,700.00	89.75	178.99	6,907.16	-4,202.55	458.05	4,209.97	0.00	0.00	0.00
11,800.00	89.75	178.99	6,907.59	-4,302.54	459.82	4,309.97	0.00	0.00	0.00
11,900.00	89.75	178.99	6,908.03	-4,402.52	461.59	4,409.97	0.00	0.00	0.00
12,000.00	89.75	178.99	6,908.46	-4,502.50	463.36	4,509.97	0.00	0.00	0.00
12,100.00	89.75	178.99	6,908.90	-4,602.49	465.13	4,609.97	0.00	0.00	0.00
12,200.00	89.75	178.99	6,909.34	-4,702.47	466.90	4,709.97	0.00	0.00	0.00
12,300.00	89.75	178.99	6,909.77	-4,802.45	468.67	4,809.97	0.00	0.00	0.00
12,400.00	89.75	178.99	6,910.21	-4,902.44	470.44	4,909.97	0.00	0.00	0.00
12,500.00	89.75	178.99	6,910.65	-5,002.42	472.21	5,009.97	0.00	0.00	0.00
12,600.00	89.75	178.99	6,911.08	-5,102.40	473.98	5,109.97	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

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)
12,700.00	89.75	178.99	6,911.52	-5,202.39	475.75	5,209.96	0.00	0.00	0.00
12,800.00	89.75	178.99	6,911.95	-5,302.37	477.52	5,309.96	0.00	0.00	0.00
12,900.00	89.75	178.99	6,912.39	-5,402.35	479.29	5,409.96	0.00	0.00	0.00
13,000.00	89.75	178.99	6,912.83	-5,502.34	481.06	5,509.96	0.00	0.00	0.00
13,100.00	89.75	178.99	6,913.26	-5,602.32	482.83	5,609.96	0.00	0.00	0.00
13,200.00	89.75	178.99	6,913.70	-5,702.30	484.60	5,709.96	0.00	0.00	0.00
13,300.00	89.75	178.99	6,914.13	-5,802.29	486.37	5,809.96	0.00	0.00	0.00
13,400.00	89.75	178.99	6,914.57	-5,902.27	488.14	5,909.96	0.00	0.00	0.00
13,500.00	89.75	178.99	6,915.01	-6,002.25	489.91	6,009.96	0.00	0.00	0.00
13,600.00	89.75	178.99	6,915.44	-6,102.24	491.68	6,109.96	0.00	0.00	0.00
13,700.00	89.75	178.99	6,915.88	-6,202.22	493.45	6,209.95	0.00	0.00	0.00
13,800.00	89.75	178.99	6,916.32	-6,302.20	495.22	6,309.95	0.00	0.00	0.00
13,900.00	89.75	178.99	6,916.75	-6,402.19	496.99	6,409.95	0.00	0.00	0.00
14,000.00	89.75	178.99	6,917.19	-6,502.17	498.76	6,509.95	0.00	0.00	0.00
14,100.00	89.75	178.99	6,917.62	-6,602.15	500.53	6,609.95	0.00	0.00	0.00
14,200.00	89.75	178.99	6,918.06	-6,702.14	502.30	6,709.95	0.00	0.00	0.00
14,300.00	89.75	178.99	6,918.50	-6,802.12	504.07	6,809.95	0.00	0.00	0.00
14,400.00	89.75	178.99	6,918.93	-6,902.10	505.84	6,909.95	0.00	0.00	0.00
14,500.00	89.75	178.99	6,919.37	-7,002.09	507.61	7,009.95	0.00	0.00	0.00
14,600.00	89.75	178.99	6,919.80	-7,102.07	509.38	7,109.95	0.00	0.00	0.00
14,700.00	89.75	178.99	6,920.24	-7,202.05	511.15	7,209.95	0.00	0.00	0.00
14,800.00	89.75	178.99	6,920.68	-7,302.04	512.92	7,309.94	0.00	0.00	0.00
14,900.00	89.75	178.99	6,921.11	-7,402.02	514.69	7,409.94	0.00	0.00	0.00
15,000.00	89.75	178.99	6,921.55	-7,502.00	516.46	7,509.94	0.00	0.00	0.00
15,100.00	89.75	178.99	6,921.99	-7,601.99	518.24	7,609.94	0.00	0.00	0.00
15,200.00	89.75	178.99	6,922.42	-7,701.97	520.01	7,709.94	0.00	0.00	0.00
15,300.00	89.75	178.99	6,922.86	-7,801.95	521.78	7,809.94	0.00	0.00	0.00
15,400.00	89.75	178.99	6,923.29	-7,901.94	523.55	7,909.94	0.00	0.00	0.00
15,500.00	89.75	178.99	6,923.73	-8,001.92	525.32	8,009.94	0.00	0.00	0.00
15,600.00	89.75	178.99	6,924.17	-8,101.90	527.09	8,109.94	0.00	0.00	0.00
15,700.00	89.75	178.99	6,924.60	-8,201.89	528.86	8,209.94	0.00	0.00	0.00
15,800.00	89.75	178.99	6,925.04	-8,301.87	530.63	8,309.93	0.00	0.00	0.00
15,900.00	89.75	178.99	6,925.47	-8,401.85	532.40	8,409.93	0.00	0.00	0.00
16,000.00	89.75	178.99	6,925.91	-8,501.84	534.17	8,509.93	0.00	0.00	0.00
16,020.49	89.75	178.99	6,926.00	-8,522.32	534.53	8,530.42	0.00	0.00	0.00
TD Well @ 16020.49ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,519.24	1,500.00	9 5/8"	9-5/8	13-1/2	
7,308.06	6,888.00	Top of Production	5-1/2	7-7/8	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 28N-25HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
Site:	2N-65W-13 Guest 11-13HZ Pad	North Reference:	True
Well:	GUEST 28N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,347.13	1,333.00	Fox Hills Mkr			
	4,038.75	3,946.00	Parkman			
	4,397.44	4,302.00	Sussex			
	6,932.93	6,768.00	Sharon Springs			
	7,024.36	6,818.00	Niobrara			
	7,198.08	6,877.00	Nio B			