

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-13 Guest 11-13HZ Pad
GUEST 3C-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 3C-25HZ
Wellbore: Plan A
Design: Permit Rev-3

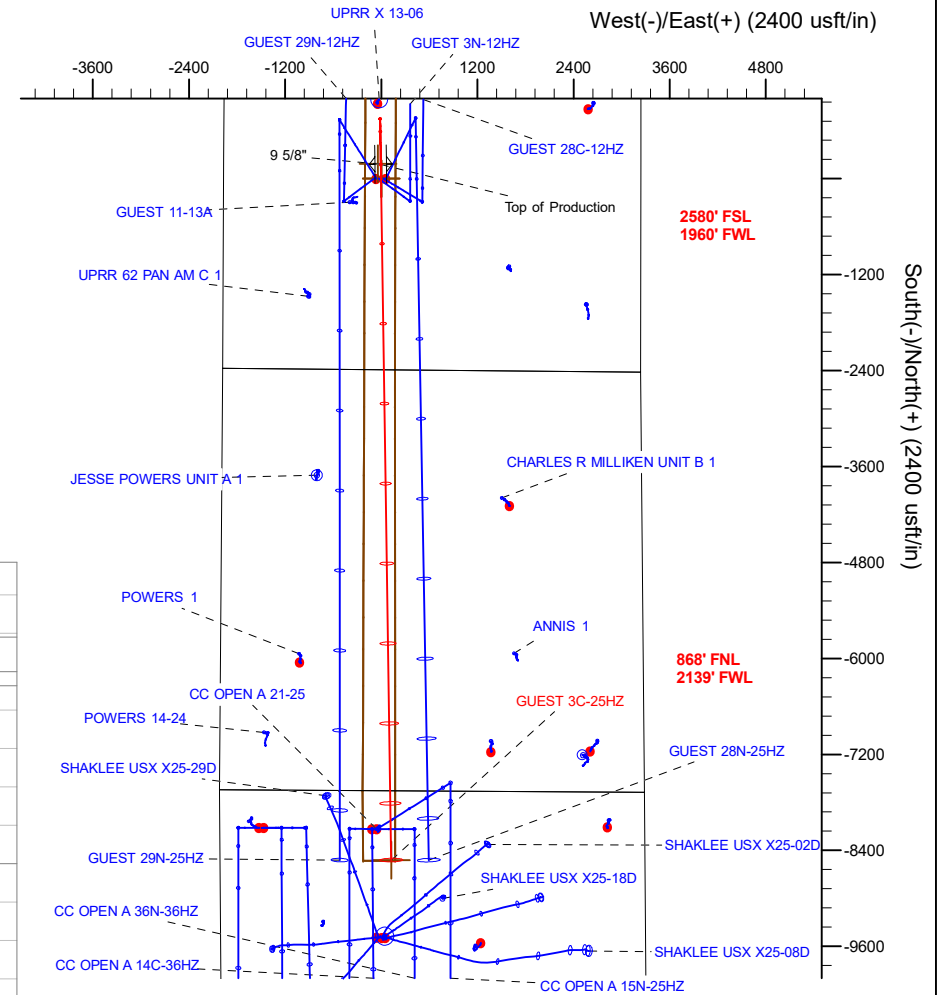
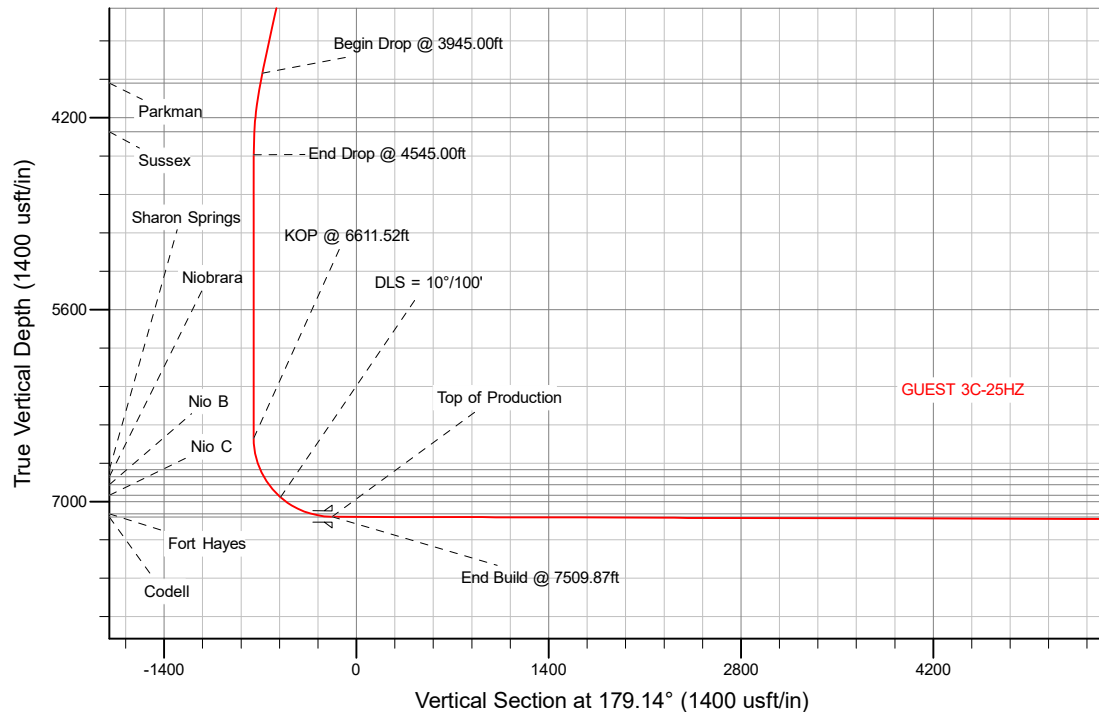
US ROCKIES WATTENBERG PLANNING

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	1050.00	12.00	359.00	1044.16	83.46	-1.46	1.50	359.00	-83.47	
4	3945.00	12.00	359.00	3875.90	685.27	-11.96	0.00	0.00	-685.37	
5	4545.00	0.00	0.00	4471.52	747.86	-13.05	2.00	180.00	-747.97	
6	6611.52	0.00	0.00	6538.04	747.86	-13.05	0.00	0.00	-747.97	
7	7509.87	89.84	179.14	7111.00	176.62	-4.49	10.00	179.14	-176.66	
8	16209.28	89.84	179.14	7136.00	-8521.78	125.92	0.00	0.00	8522.71	GUEST 3C-25HZ_TOE

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GUEST 3C-25HZ_SHL	0.00	0.00	0.00	40.137758	-104.614533	Point
GUEST 3C-25HZ_TOE	7136.00	-8521.78	125.92	40.114356	-104.614083	Point



WELL DETAILS: GUEST 3C-25HZ

Ground Level: 4872.00

GL 4872 & KB 17 @ 4889.00usft (ASSUMED)

Plan: Permit Rev-3 (GUEST 3C-25HZ/Plan A)

Created By: _____ Date: 11/15/2016
Reviewed: _____ Date: _____

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 3C-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 3C-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 3C-25HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,577,130.94 usft	Latitude:	40.137758
	+E/-W	-29.63 usft	Easting:	1,748,149.96 usft	Longitude:	-104.614533
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	52,649.67894315

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	179.14	

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 declination	
2	1,500.00	16,209.28	Permit Rev-3 (Plan A)	APC_ISCWSA REV 2 MWD+II	
				Fixed:v2:crustal field declination	

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 3C-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	
1,050.00	12.00	359.00	1,044.16	83.46	-1.46	1.50	1.50	0.00	359.00	
3,945.00	12.00	359.00	3,875.90	685.27	-11.96	0.00	0.00	0.00	0.00	
4,545.00	0.00	0.00	4,471.52	747.86	-13.05	2.00	-2.00	0.00	180.00	
6,611.52	0.00	0.00	6,538.04	747.86	-13.05	0.00	0.00	0.00	0.00	
7,509.87	89.84	179.14	7,111.00	176.62	-4.49	10.00	10.00	19.94	179.14	
16,209.28	89.84	179.14	7,136.00	-8,521.78	125.92	0.00	0.00	0.00	0.00	GUEST 3C-25HZ_TO

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 3C-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 3C-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	
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	
Begin Nudge @ 250.00ft										
300.00	0.75	359.00	300.00	0.33	-0.01	-0.33	1.50	1.50	0.00	
400.00	2.25	359.00	399.96	2.94	-0.05	-2.94	1.50	1.50	0.00	
500.00	3.75	359.00	499.82	8.18	-0.14	-8.18	1.50	1.50	0.00	
600.00	5.25	359.00	599.51	16.02	-0.28	-16.02	1.50	1.50	0.00	
700.00	6.75	359.00	698.96	26.47	-0.46	-26.48	1.50	1.50	0.00	
800.00	8.25	359.00	798.10	39.52	-0.69	-39.53	1.50	1.50	0.00	
900.00	9.75	359.00	896.87	55.16	-0.96	-55.17	1.50	1.50	0.00	
1,000.00	11.25	359.00	995.19	73.38	-1.28	-73.39	1.50	1.50	0.00	
1,050.00	12.00	359.00	1,044.16	83.46	-1.46	-83.47	1.50	1.50	0.00	
End Nudge @ 1050.00ft										
1,100.00	12.00	359.00	1,093.07	93.85	-1.64	-93.87	0.00	0.00	0.00	
1,200.00	12.00	359.00	1,190.89	114.64	-2.00	-114.66	0.00	0.00	0.00	
1,300.00	12.00	359.00	1,288.70	135.43	-2.36	-135.45	0.00	0.00	0.00	
1,345.29	12.00	359.00	1,333.00	144.84	-2.53	-144.86	0.00	0.00	0.00	
Fox Hills Mkr										
1,400.00	12.00	359.00	1,386.52	156.22	-2.73	-156.24	0.00	0.00	0.00	
1,500.00	12.00	359.00	1,484.33	177.00	-3.09	-177.03	0.00	0.00	0.00	
1,516.02	12.00	359.00	1,500.00	180.33	-3.15	-180.36	0.00	0.00	0.00	
9 5/8"										
1,600.00	12.00	359.00	1,582.15	197.79	-3.45	-197.82	0.00	0.00	0.00	
1,700.00	12.00	359.00	1,679.96	218.58	-3.82	-218.61	0.00	0.00	0.00	
1,800.00	12.00	359.00	1,777.77	239.37	-4.18	-239.40	0.00	0.00	0.00	
1,900.00	12.00	359.00	1,875.59	260.16	-4.54	-260.19	0.00	0.00	0.00	
2,000.00	12.00	359.00	1,973.40	280.94	-4.90	-280.99	0.00	0.00	0.00	
2,100.00	12.00	359.00	2,071.22	301.73	-5.27	-301.78	0.00	0.00	0.00	
2,200.00	12.00	359.00	2,169.03	322.52	-5.63	-322.57	0.00	0.00	0.00	
2,300.00	12.00	359.00	2,266.85	343.31	-5.99	-343.36	0.00	0.00	0.00	
2,400.00	12.00	359.00	2,364.66	364.10	-6.36	-364.15	0.00	0.00	0.00	
2,500.00	12.00	359.00	2,462.48	384.88	-6.72	-384.94	0.00	0.00	0.00	
2,600.00	12.00	359.00	2,560.29	405.67	-7.08	-405.73	0.00	0.00	0.00	
2,700.00	12.00	359.00	2,658.11	426.46	-7.44	-426.52	0.00	0.00	0.00	
2,800.00	12.00	359.00	2,755.92	447.25	-7.81	-447.31	0.00	0.00	0.00	
2,900.00	12.00	359.00	2,853.74	468.04	-8.17	-468.11	0.00	0.00	0.00	
3,000.00	12.00	359.00	2,951.55	488.82	-8.53	-488.90	0.00	0.00	0.00	
3,100.00	12.00	359.00	3,049.37	509.61	-8.90	-509.69	0.00	0.00	0.00	
3,200.00	12.00	359.00	3,147.18	530.40	-9.26	-530.48	0.00	0.00	0.00	
3,300.00	12.00	359.00	3,245.00	551.19	-9.62	-551.27	0.00	0.00	0.00	
3,400.00	12.00	359.00	3,342.81	571.98	-9.98	-572.06	0.00	0.00	0.00	
3,500.00	12.00	359.00	3,440.63	592.76	-10.35	-592.85	0.00	0.00	0.00	
3,600.00	12.00	359.00	3,538.44	613.55	-10.71	-613.64	0.00	0.00	0.00	
3,700.00	12.00	359.00	3,636.26	634.34	-11.07	-634.43	0.00	0.00	0.00	
3,800.00	12.00	359.00	3,734.07	655.13	-11.44	-655.23	0.00	0.00	0.00	
3,900.00	12.00	359.00	3,831.88	675.92	-11.80	-676.02	0.00	0.00	0.00	
3,945.00	12.00	359.00	3,875.90	685.27	-11.96	-685.37	0.00	0.00	0.00	
Begin Drop @ 3945.00ft										
4,000.00	10.90	359.00	3,929.81	696.19	-12.15	-696.29	2.00	-2.00	0.00	

Corporate
Planning Report

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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 3C-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)
4,016.48	10.57	359.00	3,946.00	699.26	-12.21	-699.36	2.00	-2.00	0.00
Parkman									
4,100.00	8.90	359.00	4,028.31	713.38	-12.45	-713.48	2.00	-2.00	0.00
4,200.00	6.90	359.00	4,127.36	727.12	-12.69	-727.23	2.00	-2.00	0.00
4,300.00	4.90	359.00	4,226.82	737.39	-12.87	-737.50	2.00	-2.00	0.00
4,375.38	3.39	359.00	4,302.00	742.84	-12.97	-742.95	2.00	-2.00	0.00
Sussex									
4,400.00	2.90	359.00	4,326.59	744.19	-12.99	-744.31	2.00	-2.00	0.00
4,500.00	0.90	359.00	4,426.53	747.51	-13.05	-747.62	2.00	-2.00	0.00
4,545.00	0.00	0.00	4,471.52	747.86	-13.05	-747.97	2.00	-2.00	0.00
End Drop @ 4545.00ft									
4,600.00	0.00	0.00	4,526.52	747.86	-13.05	-747.97	0.00	0.00	0.00
4,700.00	0.00	0.00	4,626.52	747.86	-13.05	-747.97	0.00	0.00	0.00
4,800.00	0.00	0.00	4,726.52	747.86	-13.05	-747.97	0.00	0.00	0.00
4,900.00	0.00	0.00	4,826.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,000.00	0.00	0.00	4,926.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,100.00	0.00	0.00	5,026.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,200.00	0.00	0.00	5,126.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,300.00	0.00	0.00	5,226.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,400.00	0.00	0.00	5,326.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,500.00	0.00	0.00	5,426.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,600.00	0.00	0.00	5,526.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,700.00	0.00	0.00	5,626.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,800.00	0.00	0.00	5,726.52	747.86	-13.05	-747.97	0.00	0.00	0.00
5,900.00	0.00	0.00	5,826.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,000.00	0.00	0.00	5,926.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,100.00	0.00	0.00	6,026.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,200.00	0.00	0.00	6,126.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,300.00	0.00	0.00	6,226.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,400.00	0.00	0.00	6,326.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,500.00	0.00	0.00	6,426.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,600.00	0.00	0.00	6,526.52	747.86	-13.05	-747.97	0.00	0.00	0.00
6,611.52	0.00	0.00	6,538.04	747.86	-13.05	-747.97	0.00	0.00	0.00
KOP @ 6611.52ft									
6,700.00	8.85	179.14	6,626.17	741.05	-12.95	-741.16	10.00	10.00	0.00
6,800.00	18.85	179.14	6,723.14	717.14	-12.59	-717.25	10.00	10.00	0.00
6,848.14	23.66	179.14	6,768.00	699.70	-12.33	-699.80	10.00	10.00	0.00
Sharon Springs									
6,900.00	28.85	179.14	6,814.49	676.77	-11.99	-676.87	10.00	10.00	0.00
6,904.02	29.25	179.14	6,818.00	674.82	-11.96	-674.92	10.00	10.00	0.00
Niobrara									
6,974.22	36.27	179.14	6,877.00	636.86	-11.39	-636.96	10.00	10.00	0.00
Nio B									
7,000.00	38.85	179.14	6,897.44	621.15	-11.15	-621.24	10.00	10.00	0.00
7,078.48	46.70	179.14	6,955.00	567.90	-10.36	-567.99	10.00	10.00	0.00
Nio C									
7,100.00	48.85	179.14	6,969.46	551.97	-10.12	-552.06	10.00	10.00	0.00
DLS = 10°/100'									
7,200.00	58.85	179.14	7,028.38	471.33	-8.91	-471.41	10.00	10.00	0.00
7,300.00	68.85	179.14	7,072.40	381.69	-7.56	-381.76	10.00	10.00	0.00
7,352.22	74.07	179.14	7,089.00	332.21	-6.82	-332.27	10.00	10.00	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 3C-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)
Fort Hayes									
7,400.00	78.85	179.14	7,100.18	285.77	-6.13	-285.83	10.00	10.00	0.00
7,500.00	88.85	179.14	7,110.89	186.49	-4.64	-186.54	10.00	10.00	0.00
7,509.87	89.84	179.14	7,111.00	176.62	-4.49	-176.67	10.00	10.00	0.00
End Build @ 7509.87ft - Top of Production									
7,600.00	89.84	179.14	7,111.26	86.50	-3.14	-86.54	0.00	0.00	0.00
7,700.00	89.84	179.14	7,111.55	-13.49	-1.64	13.46	0.00	0.00	0.00
7,800.00	89.84	179.14	7,111.83	-113.48	-0.14	113.46	0.00	0.00	0.00
7,900.00	89.84	179.14	7,112.12	-213.47	1.36	213.46	0.00	0.00	0.00
8,000.00	89.84	179.14	7,112.41	-313.45	2.86	313.46	0.00	0.00	0.00
8,100.00	89.84	179.14	7,112.70	-413.44	4.36	413.46	0.00	0.00	0.00
8,200.00	89.84	179.14	7,112.98	-513.43	5.86	513.46	0.00	0.00	0.00
8,205.82	89.84	179.14	7,113.00	-519.25	5.94	519.28	0.00	0.00	0.00
Codell									
8,300.00	89.84	179.14	7,113.27	-613.42	7.35	613.46	0.00	0.00	0.00
8,400.00	89.84	179.14	7,113.56	-713.41	8.85	713.46	0.00	0.00	0.00
8,500.00	89.84	179.14	7,113.85	-813.40	10.35	813.46	0.00	0.00	0.00
8,600.00	89.84	179.14	7,114.13	-913.38	11.85	913.46	0.00	0.00	0.00
8,700.00	89.84	179.14	7,114.42	-1,013.37	13.35	1,013.46	0.00	0.00	0.00
8,800.00	89.84	179.14	7,114.71	-1,113.36	14.85	1,113.46	0.00	0.00	0.00
8,900.00	89.84	179.14	7,115.00	-1,213.35	16.35	1,213.46	0.00	0.00	0.00
9,000.00	89.84	179.14	7,115.28	-1,313.34	17.85	1,313.46	0.00	0.00	0.00
9,100.00	89.84	179.14	7,115.57	-1,413.33	19.35	1,413.46	0.00	0.00	0.00
9,200.00	89.84	179.14	7,115.86	-1,513.31	20.85	1,513.46	0.00	0.00	0.00
9,300.00	89.84	179.14	7,116.14	-1,613.30	22.35	1,613.46	0.00	0.00	0.00
9,400.00	89.84	179.14	7,116.43	-1,713.29	23.84	1,713.46	0.00	0.00	0.00
9,500.00	89.84	179.14	7,116.72	-1,813.28	25.34	1,813.45	0.00	0.00	0.00
9,600.00	89.84	179.14	7,117.01	-1,913.27	26.84	1,913.45	0.00	0.00	0.00
9,700.00	89.84	179.14	7,117.29	-2,013.26	28.34	2,013.45	0.00	0.00	0.00
9,800.00	89.84	179.14	7,117.58	-2,113.24	29.84	2,113.45	0.00	0.00	0.00
9,900.00	89.84	179.14	7,117.87	-2,213.23	31.34	2,213.45	0.00	0.00	0.00
10,000.00	89.84	179.14	7,118.16	-2,313.22	32.84	2,313.45	0.00	0.00	0.00
10,100.00	89.84	179.14	7,118.44	-2,413.21	34.34	2,413.45	0.00	0.00	0.00
10,200.00	89.84	179.14	7,118.73	-2,513.20	35.84	2,513.45	0.00	0.00	0.00
10,300.00	89.84	179.14	7,119.02	-2,613.19	37.34	2,613.45	0.00	0.00	0.00
10,400.00	89.84	179.14	7,119.31	-2,713.17	38.84	2,713.45	0.00	0.00	0.00
10,500.00	89.84	179.14	7,119.59	-2,813.16	40.33	2,813.45	0.00	0.00	0.00
10,600.00	89.84	179.14	7,119.88	-2,913.15	41.83	2,913.45	0.00	0.00	0.00
10,700.00	89.84	179.14	7,120.17	-3,013.14	43.33	3,013.45	0.00	0.00	0.00
10,800.00	89.84	179.14	7,120.46	-3,113.13	44.83	3,113.45	0.00	0.00	0.00
10,900.00	89.84	179.14	7,120.74	-3,213.12	46.33	3,213.45	0.00	0.00	0.00
11,000.00	89.84	179.14	7,121.03	-3,313.10	47.83	3,313.45	0.00	0.00	0.00
11,100.00	89.84	179.14	7,121.32	-3,413.09	49.33	3,413.45	0.00	0.00	0.00
11,200.00	89.84	179.14	7,121.60	-3,513.08	50.83	3,513.45	0.00	0.00	0.00
11,300.00	89.84	179.14	7,121.89	-3,613.07	52.33	3,613.45	0.00	0.00	0.00
11,400.00	89.84	179.14	7,122.18	-3,713.06	53.83	3,713.45	0.00	0.00	0.00
11,500.00	89.84	179.14	7,122.47	-3,813.05	55.32	3,813.45	0.00	0.00	0.00
11,600.00	89.84	179.14	7,122.75	-3,913.03	56.82	3,913.45	0.00	0.00	0.00
11,700.00	89.84	179.14	7,123.04	-4,013.02	58.32	4,013.45	0.00	0.00	0.00
11,800.00	89.84	179.14	7,123.33	-4,113.01	59.82	4,113.45	0.00	0.00	0.00
11,900.00	89.84	179.14	7,123.62	-4,213.00	61.32	4,213.45	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 3C-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 3C-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)
12,000.00	89.84	179.14	7,123.90	-4,312.99	62.82	4,313.44	0.00	0.00	0.00
12,100.00	89.84	179.14	7,124.19	-4,412.98	64.32	4,413.44	0.00	0.00	0.00
12,200.00	89.84	179.14	7,124.48	-4,512.96	65.82	4,513.44	0.00	0.00	0.00
12,300.00	89.84	179.14	7,124.77	-4,612.95	67.32	4,613.44	0.00	0.00	0.00
12,400.00	89.84	179.14	7,125.05	-4,712.94	68.82	4,713.44	0.00	0.00	0.00
12,500.00	89.84	179.14	7,125.34	-4,812.93	70.32	4,813.44	0.00	0.00	0.00
12,600.00	89.84	179.14	7,125.63	-4,912.92	71.81	4,913.44	0.00	0.00	0.00
12,700.00	89.84	179.14	7,125.92	-5,012.91	73.31	5,013.44	0.00	0.00	0.00
12,800.00	89.84	179.14	7,126.20	-5,112.89	74.81	5,113.44	0.00	0.00	0.00
12,900.00	89.84	179.14	7,126.49	-5,212.88	76.31	5,213.44	0.00	0.00	0.00
13,000.00	89.84	179.14	7,126.78	-5,312.87	77.81	5,313.44	0.00	0.00	0.00
13,100.00	89.84	179.14	7,127.06	-5,412.86	79.31	5,413.44	0.00	0.00	0.00
13,200.00	89.84	179.14	7,127.35	-5,512.85	80.81	5,513.44	0.00	0.00	0.00
13,300.00	89.84	179.14	7,127.64	-5,612.84	82.31	5,613.44	0.00	0.00	0.00
13,400.00	89.84	179.14	7,127.93	-5,712.82	83.81	5,713.44	0.00	0.00	0.00
13,500.00	89.84	179.14	7,128.21	-5,812.81	85.31	5,813.44	0.00	0.00	0.00
13,600.00	89.84	179.14	7,128.50	-5,912.80	86.81	5,913.44	0.00	0.00	0.00
13,700.00	89.84	179.14	7,128.79	-6,012.79	88.30	6,013.44	0.00	0.00	0.00
13,800.00	89.84	179.14	7,129.08	-6,112.78	89.80	6,113.44	0.00	0.00	0.00
13,900.00	89.84	179.14	7,129.36	-6,212.77	91.30	6,213.44	0.00	0.00	0.00
14,000.00	89.84	179.14	7,129.65	-6,312.75	92.80	6,313.44	0.00	0.00	0.00
14,100.00	89.84	179.14	7,129.94	-6,412.74	94.30	6,413.44	0.00	0.00	0.00
14,200.00	89.84	179.14	7,130.23	-6,512.73	95.80	6,513.44	0.00	0.00	0.00
14,300.00	89.84	179.14	7,130.51	-6,612.72	97.30	6,613.44	0.00	0.00	0.00
14,400.00	89.84	179.14	7,130.80	-6,712.71	98.80	6,713.43	0.00	0.00	0.00
14,500.00	89.84	179.14	7,131.09	-6,812.70	100.30	6,813.43	0.00	0.00	0.00
14,600.00	89.84	179.14	7,131.38	-6,912.68	101.80	6,913.43	0.00	0.00	0.00
14,700.00	89.84	179.14	7,131.66	-7,012.67	103.29	7,013.43	0.00	0.00	0.00
14,800.00	89.84	179.14	7,131.95	-7,112.66	104.79	7,113.43	0.00	0.00	0.00
14,900.00	89.84	179.14	7,132.24	-7,212.65	106.29	7,213.43	0.00	0.00	0.00
15,000.00	89.84	179.14	7,132.52	-7,312.64	107.79	7,313.43	0.00	0.00	0.00
15,100.00	89.84	179.14	7,132.81	-7,412.63	109.29	7,413.43	0.00	0.00	0.00
15,200.00	89.84	179.14	7,133.10	-7,512.61	110.79	7,513.43	0.00	0.00	0.00
15,300.00	89.84	179.14	7,133.39	-7,612.60	112.29	7,613.43	0.00	0.00	0.00
15,400.00	89.84	179.14	7,133.67	-7,712.59	113.79	7,713.43	0.00	0.00	0.00
15,500.00	89.84	179.14	7,133.96	-7,812.58	115.29	7,813.43	0.00	0.00	0.00
15,600.00	89.84	179.14	7,134.25	-7,912.57	116.79	7,913.43	0.00	0.00	0.00
15,700.00	89.84	179.14	7,134.54	-8,012.56	118.29	8,013.43	0.00	0.00	0.00
15,800.00	89.84	179.14	7,134.82	-8,112.55	119.78	8,113.43	0.00	0.00	0.00
15,900.00	89.84	179.14	7,135.11	-8,212.53	121.28	8,213.43	0.00	0.00	0.00
16,000.00	89.84	179.14	7,135.40	-8,312.52	122.78	8,313.43	0.00	0.00	0.00
16,100.00	89.84	179.14	7,135.69	-8,412.51	124.28	8,413.43	0.00	0.00	0.00
16,200.00	89.84	179.14	7,135.97	-8,512.50	125.78	8,513.43	0.00	0.00	0.00
16,209.28	89.84	179.14	7,136.00	-8,521.78	125.92	8,522.71	0.00	0.00	0.00
TD Well @ 16209.28ft									

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GUEST 3C-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 3C-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-3		

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,516.02	1,500.00	9 5/8"	9-5/8	13-1/2
	7,509.87	7,111.00	Top of Production	5-1/2	7-7/8

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,345.29	1,333.00	Fox Hills Mkr			
	4,016.48	3,946.00	Parkman			
	4,375.38	4,302.00	Sussex			
	6,848.14	6,768.00	Sharon Springs			
	6,904.02	6,818.00	Niobrara			
	6,974.22	6,877.00	Nio B			
	7,078.48	6,955.00	Nio C			
	7,352.22	7,089.00	Fort Hayes			
	8,205.82	7,113.00	Codell			