

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N  
2N-65W-13 Guest 11-13HZ Pad  
GUEST 29N-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 29N-25HZ  
 Wellbore: Plan A  
 Design: Permit Rev-3

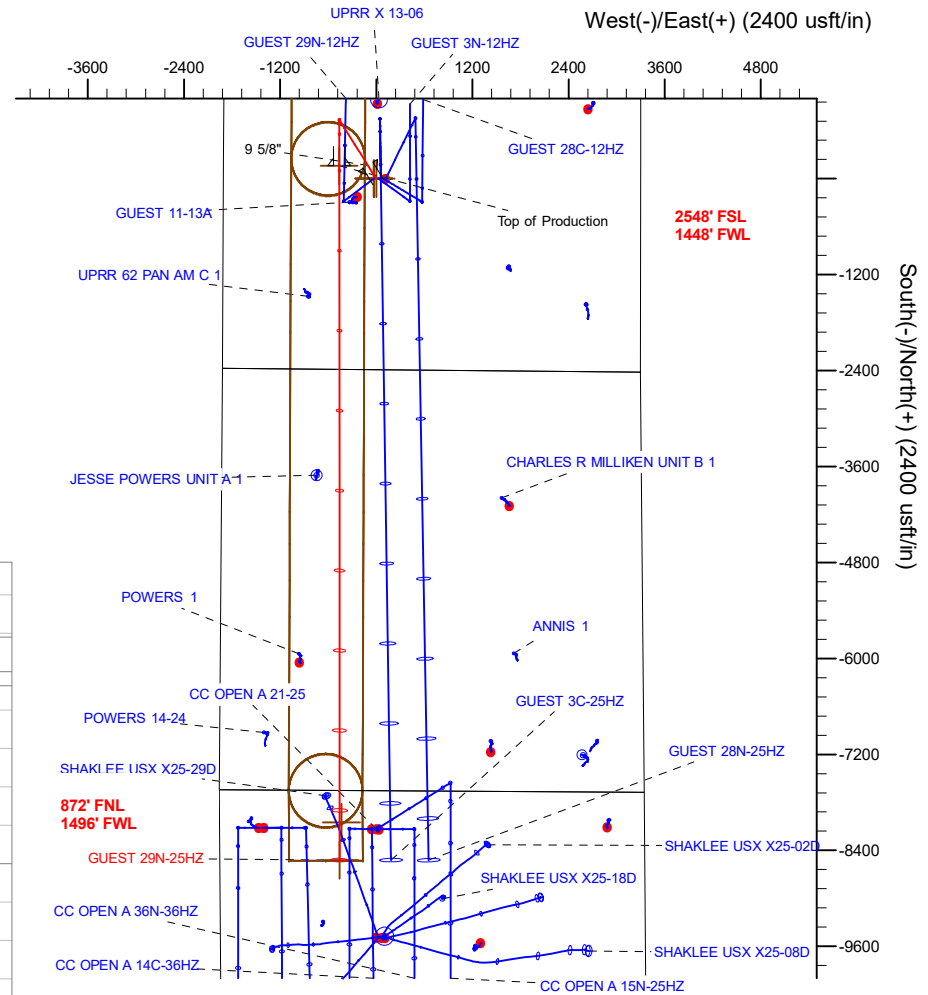
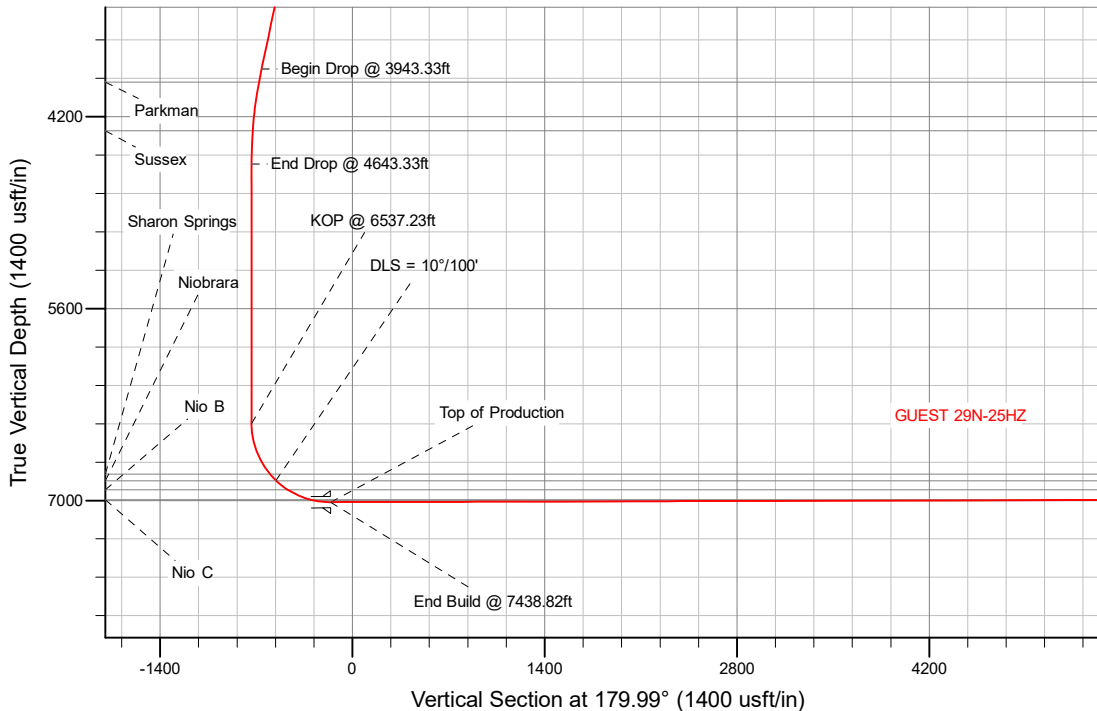
# US ROCKIES WATTENBERG PLANNING

## 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	328.00	1174.07	96.22	-60.13	1.50	328.00	-96.23	
4	3943.33	14.00	328.00	3852.09	662.47	-413.96	0.00	0.00	-662.54	
5	4643.33	0.00	0.00	4545.14	734.63	-459.05	2.00	180.00	-734.71	
6	6537.23	0.00	0.00	6439.04	734.63	-459.05	0.00	0.00	-734.71	
7	7438.82	90.16	179.99	7012.00	160.09	-458.91	10.00	179.99	-160.17	
8	16121.18	90.16	179.99	6988.00	-8522.24	-456.82	0.00	0.00	8522.16	GUEST 29N-25HZ_Toe

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
GUEST 29N-25HZ_SHL	0.00	0.00	0.00	40.137759	-104.614748	Point
GUEST 29N-25HZ_Toe	6988.00	-8522.24	-456.82	40.114356	-104.616382	Point



WELL DETAILS: GUEST 29N-25HZ	
Ground Level:	4872.00
GL 4872 & KB 17 @ 4889.00usft (ASSUMED)	
Plan: Permit Rev-3 (GUEST 29N-25HZ/Plan A)	
Created By:	Date: 11/15/2016
Reviewed:	Date:

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-3		

<b>Project</b>	WELD-NAD83-UTMFT13N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

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

<b>Well</b>	GUEST 29N-25HZ					
<b>Well Position</b>	<b>+N/-S</b>	0.36 usft	<b>Northing:</b>	14,577,131.04 usft	<b>Latitude:</b>	40.137759
	<b>+E/-W</b>	-89.72 usft	<b>Easting:</b>	1,748,089.87 usft	<b>Longitude:</b>	-104.614748
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	0.00 usft	<b>Ground Level:</b>	4,872.00 usft

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/12/2014	8.30	66.75	52,649.65713649

<b>Design</b>	Permit Rev-3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	179.99

<b>Plan Survey Tool Program</b>	<b>Date</b>	11/15/2016		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	1,500.00	Permit Rev-3 (Plan A)	APC_ISCWSA REV 2 MWD+I Fixed:v2:Rockies, crustal dec +
2	1,500.00	16,121.18	Permit Rev-3 (Plan A)	APC_ISCWSA REV 2 MWD+I Fixed:v2:Rockies, crustal dec +

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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	328.00	1,174.07	96.22	-60.13	1.50	1.50	0.00	328.00	
3,943.33	14.00	328.00	3,852.09	662.47	-413.96	0.00	0.00	0.00	0.00	
4,643.33	0.00	0.00	4,545.15	734.63	-459.05	2.00	-2.00	0.00	180.00	
6,537.23	0.00	0.00	6,439.05	734.63	-459.05	0.00	0.00	0.00	0.00	
7,438.82	90.16	179.99	7,012.00	160.09	-458.91	10.00	10.00	19.96	179.99	
16,121.18	90.16	179.99	6,988.00	-8,522.24	-456.82	0.00	0.00	0.00	0.00	GUEST 29N-25HZ_Tr

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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
<b>Begin Nudge @ 250.00ft</b>										
300.00	0.75	328.00	300.00	0.28	-0.17	-0.28	1.50	1.50	0.00	0.00
400.00	2.25	328.00	399.96	2.50	-1.56	-2.50	1.50	1.50	0.00	0.00
500.00	3.75	328.00	499.82	6.94	-4.33	-6.94	1.50	1.50	0.00	0.00
600.00	5.25	328.00	599.51	13.59	-8.49	-13.59	1.50	1.50	0.00	0.00
700.00	6.75	328.00	698.96	22.45	-14.03	-22.46	1.50	1.50	0.00	0.00
800.00	8.25	328.00	798.10	33.52	-20.95	-33.53	1.50	1.50	0.00	0.00
900.00	9.75	328.00	896.87	46.79	-29.24	-46.79	1.50	1.50	0.00	0.00
1,000.00	11.25	328.00	995.19	62.24	-38.89	-62.25	1.50	1.50	0.00	0.00
1,100.00	12.75	328.00	1,093.00	79.87	-49.91	-79.88	1.50	1.50	0.00	0.00
1,183.33	14.00	328.00	1,174.07	96.22	-60.13	-96.23	1.50	1.50	0.00	0.00
<b>End Nudge @ 1183.33ft</b>										
1,200.00	14.00	328.00	1,190.25	99.64	-62.26	-99.65	0.00	0.00	0.00	0.00
1,300.00	14.00	328.00	1,287.27	120.16	-75.08	-120.17	0.00	0.00	0.00	0.00
1,347.13	14.00	328.00	1,333.00	129.82	-81.12	-129.84	0.00	0.00	0.00	0.00
<b>Fox Hills Mkr</b>										
1,400.00	14.00	328.00	1,384.30	140.67	-87.90	-140.69	0.00	0.00	0.00	0.00
1,500.00	14.00	328.00	1,481.33	161.19	-100.72	-161.21	0.00	0.00	0.00	0.00
1,519.24	14.00	328.00	1,500.00	165.14	-103.19	-165.15	0.00	0.00	0.00	0.00
<b>9 5/8"</b>										
1,600.00	14.00	328.00	1,578.36	181.71	-113.54	-181.72	0.00	0.00	0.00	0.00
1,700.00	14.00	328.00	1,675.39	202.22	-126.36	-202.24	0.00	0.00	0.00	0.00
1,800.00	14.00	328.00	1,772.42	222.74	-139.18	-222.76	0.00	0.00	0.00	0.00
1,900.00	14.00	328.00	1,869.45	243.25	-152.00	-243.28	0.00	0.00	0.00	0.00
2,000.00	14.00	328.00	1,966.48	263.77	-164.82	-263.80	0.00	0.00	0.00	0.00
2,100.00	14.00	328.00	2,063.51	284.29	-177.64	-284.32	0.00	0.00	0.00	0.00
2,200.00	14.00	328.00	2,160.54	304.80	-190.46	-304.84	0.00	0.00	0.00	0.00
2,300.00	14.00	328.00	2,257.57	325.32	-203.28	-325.35	0.00	0.00	0.00	0.00
2,400.00	14.00	328.00	2,354.60	345.83	-216.10	-345.87	0.00	0.00	0.00	0.00
2,500.00	14.00	328.00	2,451.63	366.35	-228.92	-366.39	0.00	0.00	0.00	0.00
2,600.00	14.00	328.00	2,548.66	386.87	-241.74	-386.91	0.00	0.00	0.00	0.00
2,700.00	14.00	328.00	2,645.69	407.38	-254.56	-407.43	0.00	0.00	0.00	0.00
2,800.00	14.00	328.00	2,742.72	427.90	-267.38	-427.95	0.00	0.00	0.00	0.00
2,900.00	14.00	328.00	2,839.75	448.41	-280.20	-448.46	0.00	0.00	0.00	0.00
3,000.00	14.00	328.00	2,936.78	468.93	-293.02	-468.98	0.00	0.00	0.00	0.00
3,100.00	14.00	328.00	3,033.81	489.45	-305.84	-489.50	0.00	0.00	0.00	0.00
3,200.00	14.00	328.00	3,130.84	509.96	-318.66	-510.02	0.00	0.00	0.00	0.00
3,300.00	14.00	328.00	3,227.87	530.48	-331.48	-530.54	0.00	0.00	0.00	0.00
3,400.00	14.00	328.00	3,324.90	551.00	-344.30	-551.06	0.00	0.00	0.00	0.00
3,500.00	14.00	328.00	3,421.93	571.51	-357.12	-571.57	0.00	0.00	0.00	0.00
3,600.00	14.00	328.00	3,518.95	592.03	-369.94	-592.09	0.00	0.00	0.00	0.00
3,700.00	14.00	328.00	3,615.98	612.54	-382.76	-612.61	0.00	0.00	0.00	0.00
3,800.00	14.00	328.00	3,713.01	633.06	-395.58	-633.13	0.00	0.00	0.00	0.00
3,900.00	14.00	328.00	3,810.04	653.58	-408.40	-653.65	0.00	0.00	0.00	0.00
3,943.33	14.00	328.00	3,852.09	662.47	-413.95	-662.54	0.00	0.00	0.00	0.00
<b>Begin Drop @ 3943.33ft</b>										
4,000.00	12.87	328.00	3,907.21	673.63	-420.93	-673.70	2.00	-2.00	0.00	0.00

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
4,039.73	12.07	328.00	3,946.00	680.91	-425.48	-680.98	2.00	-2.00	0.00	
4,100.00	10.87	328.00	4,005.06	691.07	-431.83	-691.14	2.00	-2.00	0.00	
4,200.00	8.87	328.00	4,103.58	705.60	-440.91	-705.68	2.00	-2.00	0.00	
4,300.00	6.87	328.00	4,202.63	717.21	-448.16	-717.28	2.00	-2.00	0.00	
4,399.90	4.87	328.00	4,302.00	725.87	-453.57	-725.95	2.00	-2.00	0.00	
4,400.00	4.87	328.00	4,302.10	725.87	-453.58	-725.95	2.00	-2.00	0.00	
4,500.00	2.87	328.00	4,401.87	731.59	-457.15	-731.67	2.00	-2.00	0.00	
4,600.00	0.87	328.00	4,501.81	734.35	-458.88	-734.43	2.00	-2.00	0.00	
4,643.33	0.00	0.00	4,545.14	734.63	-459.05	-734.71	2.00	-2.00	73.85	
4,700.00	0.00	0.00	4,601.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,701.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,801.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,901.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,001.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,101.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,201.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,301.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,401.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,501.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,601.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,701.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,801.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,901.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,001.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,101.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,201.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,301.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,401.81	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,537.23	0.00	0.00	6,439.04	734.63	-459.05	-734.71	0.00	0.00	0.00	
6,600.00	6.28	179.99	6,501.69	731.20	-459.05	-731.28	10.00	10.00	0.00	
6,700.00	16.28	179.99	6,599.63	711.67	-459.04	-711.75	10.00	10.00	0.00	
6,800.00	26.28	179.99	6,692.70	675.43	-459.04	-675.51	10.00	10.00	0.00	
6,900.00	36.28	179.99	6,778.06	623.58	-459.02	-623.66	10.00	10.00	0.00	
6,936.80	39.96	179.99	6,807.00	600.87	-459.02	-600.95	10.00	10.00	0.00	
7,000.00	46.28	179.99	6,853.11	557.69	-459.01	-557.77	10.00	10.00	0.00	
7,005.65	46.84	179.99	6,857.00	553.59	-459.01	-553.67	10.00	10.00	0.00	
7,100.00	56.28	179.99	6,915.59	479.77	-458.99	-479.85	10.00	10.00	0.00	
7,109.87	57.26	179.99	6,921.00	471.51	-458.99	-471.59	10.00	10.00	0.00	
7,200.00	66.28	179.99	6,963.59	392.19	-458.97	-392.27	10.00	10.00	0.00	
7,297.30	76.01	179.99	6,995.00	300.22	-458.94	-300.30	10.00	10.00	0.00	
7,300.00	76.28	179.99	6,995.65	297.60	-458.94	-297.68	10.00	10.00	0.00	
7,400.00	86.28	179.99	7,010.79	198.88	-458.92	-198.96	10.00	10.00	0.00	

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
7,438.82	90.16	179.99	7,012.00	160.09	-458.91	-160.17	10.00	10.00	0.00	
<b>End Build @ 7438.82ft - Top of Production</b>										
7,500.00	90.16	179.99	7,011.83	98.91	-458.90	-98.99	0.00	0.00	0.00	
7,600.00	90.16	179.99	7,011.56	-1.09	-458.87	1.01	0.00	0.00	0.00	
7,700.00	90.16	179.99	7,011.28	-101.09	-458.85	101.01	0.00	0.00	0.00	
7,800.00	90.16	179.99	7,011.00	-201.09	-458.82	201.01	0.00	0.00	0.00	
7,900.00	90.16	179.99	7,010.73	-301.09	-458.80	301.01	0.00	0.00	0.00	
8,000.00	90.16	179.99	7,010.45	-401.09	-458.78	401.01	0.00	0.00	0.00	
8,100.00	90.16	179.99	7,010.17	-501.09	-458.75	501.01	0.00	0.00	0.00	
8,200.00	90.16	179.99	7,009.90	-601.09	-458.73	601.01	0.00	0.00	0.00	
8,300.00	90.16	179.99	7,009.62	-701.09	-458.70	701.01	0.00	0.00	0.00	
8,400.00	90.16	179.99	7,009.34	-801.09	-458.68	801.01	0.00	0.00	0.00	
8,500.00	90.16	179.99	7,009.07	-901.09	-458.66	901.01	0.00	0.00	0.00	
8,600.00	90.16	179.99	7,008.79	-1,001.09	-458.63	1,001.01	0.00	0.00	0.00	
8,700.00	90.16	179.99	7,008.51	-1,101.09	-458.61	1,101.01	0.00	0.00	0.00	
8,800.00	90.16	179.99	7,008.24	-1,201.09	-458.58	1,201.01	0.00	0.00	0.00	
8,900.00	90.16	179.99	7,007.96	-1,301.09	-458.56	1,301.01	0.00	0.00	0.00	
9,000.00	90.16	179.99	7,007.69	-1,401.09	-458.54	1,401.01	0.00	0.00	0.00	
9,100.00	90.16	179.99	7,007.41	-1,501.09	-458.51	1,501.01	0.00	0.00	0.00	
9,200.00	90.16	179.99	7,007.13	-1,601.09	-458.49	1,601.01	0.00	0.00	0.00	
9,300.00	90.16	179.99	7,006.86	-1,701.08	-458.46	1,701.00	0.00	0.00	0.00	
9,400.00	90.16	179.99	7,006.58	-1,801.08	-458.44	1,801.00	0.00	0.00	0.00	
9,500.00	90.16	179.99	7,006.30	-1,901.08	-458.41	1,901.00	0.00	0.00	0.00	
9,600.00	90.16	179.99	7,006.03	-2,001.08	-458.39	2,001.00	0.00	0.00	0.00	
9,700.00	90.16	179.99	7,005.75	-2,101.08	-458.37	2,101.00	0.00	0.00	0.00	
9,800.00	90.16	179.99	7,005.47	-2,201.08	-458.34	2,201.00	0.00	0.00	0.00	
9,900.00	90.16	179.99	7,005.20	-2,301.08	-458.32	2,301.00	0.00	0.00	0.00	
10,000.00	90.16	179.99	7,004.92	-2,401.08	-458.29	2,401.00	0.00	0.00	0.00	
10,100.00	90.16	179.99	7,004.64	-2,501.08	-458.27	2,501.00	0.00	0.00	0.00	
10,200.00	90.16	179.99	7,004.37	-2,601.08	-458.25	2,601.00	0.00	0.00	0.00	
10,300.00	90.16	179.99	7,004.09	-2,701.08	-458.22	2,701.00	0.00	0.00	0.00	
10,400.00	90.16	179.99	7,003.82	-2,801.08	-458.20	2,801.00	0.00	0.00	0.00	
10,500.00	90.16	179.99	7,003.54	-2,901.08	-458.17	2,901.00	0.00	0.00	0.00	
10,600.00	90.16	179.99	7,003.26	-3,001.08	-458.15	3,001.00	0.00	0.00	0.00	
10,700.00	90.16	179.99	7,002.99	-3,101.08	-458.13	3,101.00	0.00	0.00	0.00	
10,800.00	90.16	179.99	7,002.71	-3,201.08	-458.10	3,201.00	0.00	0.00	0.00	
10,900.00	90.16	179.99	7,002.43	-3,301.08	-458.08	3,301.00	0.00	0.00	0.00	
11,000.00	90.16	179.99	7,002.16	-3,401.08	-458.05	3,401.00	0.00	0.00	0.00	
11,100.00	90.16	179.99	7,001.88	-3,501.08	-458.03	3,501.00	0.00	0.00	0.00	
11,200.00	90.16	179.99	7,001.60	-3,601.08	-458.01	3,601.00	0.00	0.00	0.00	
11,300.00	90.16	179.99	7,001.33	-3,701.08	-457.98	3,701.00	0.00	0.00	0.00	
11,400.00	90.16	179.99	7,001.05	-3,801.08	-457.96	3,801.00	0.00	0.00	0.00	
11,500.00	90.16	179.99	7,000.77	-3,901.08	-457.93	3,901.00	0.00	0.00	0.00	
11,600.00	90.16	179.99	7,000.50	-4,001.08	-457.91	4,001.00	0.00	0.00	0.00	
11,700.00	90.16	179.99	7,000.22	-4,101.08	-457.88	4,101.00	0.00	0.00	0.00	
11,800.00	90.16	179.99	6,999.95	-4,201.08	-457.86	4,201.00	0.00	0.00	0.00	
11,900.00	90.16	179.99	6,999.67	-4,301.07	-457.84	4,300.99	0.00	0.00	0.00	
12,000.00	90.16	179.99	6,999.39	-4,401.07	-457.81	4,400.99	0.00	0.00	0.00	
12,100.00	90.16	179.99	6,999.12	-4,501.07	-457.79	4,500.99	0.00	0.00	0.00	
12,200.00	90.16	179.99	6,998.84	-4,601.07	-457.76	4,600.99	0.00	0.00	0.00	
12,300.00	90.16	179.99	6,998.56	-4,701.07	-457.74	4,700.99	0.00	0.00	0.00	
12,400.00	90.16	179.99	6,998.29	-4,801.07	-457.72	4,800.99	0.00	0.00	0.00	

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
12,500.00	90.16	179.99	6,998.01	-4,901.07	-457.69	4,900.99	0.00	0.00	0.00	
12,600.00	90.16	179.99	6,997.73	-5,001.07	-457.67	5,000.99	0.00	0.00	0.00	
12,700.00	90.16	179.99	6,997.46	-5,101.07	-457.64	5,100.99	0.00	0.00	0.00	
12,800.00	90.16	179.99	6,997.18	-5,201.07	-457.62	5,200.99	0.00	0.00	0.00	
12,900.00	90.16	179.99	6,996.90	-5,301.07	-457.60	5,300.99	0.00	0.00	0.00	
13,000.00	90.16	179.99	6,996.63	-5,401.07	-457.57	5,400.99	0.00	0.00	0.00	
13,100.00	90.16	179.99	6,996.35	-5,501.07	-457.55	5,500.99	0.00	0.00	0.00	
13,200.00	90.16	179.99	6,996.08	-5,601.07	-457.52	5,600.99	0.00	0.00	0.00	
13,300.00	90.16	179.99	6,995.80	-5,701.07	-457.50	5,700.99	0.00	0.00	0.00	
13,400.00	90.16	179.99	6,995.52	-5,801.07	-457.48	5,800.99	0.00	0.00	0.00	
13,500.00	90.16	179.99	6,995.25	-5,901.07	-457.45	5,900.99	0.00	0.00	0.00	
13,600.00	90.16	179.99	6,994.97	-6,001.07	-457.43	6,000.99	0.00	0.00	0.00	
13,700.00	90.16	179.99	6,994.69	-6,101.07	-457.40	6,100.99	0.00	0.00	0.00	
13,800.00	90.16	179.99	6,994.42	-6,201.07	-457.38	6,200.99	0.00	0.00	0.00	
13,900.00	90.16	179.99	6,994.14	-6,301.07	-457.35	6,300.99	0.00	0.00	0.00	
14,000.00	90.16	179.99	6,993.86	-6,401.07	-457.33	6,400.99	0.00	0.00	0.00	
14,100.00	90.16	179.99	6,993.59	-6,501.07	-457.31	6,500.99	0.00	0.00	0.00	
14,200.00	90.16	179.99	6,993.31	-6,601.07	-457.28	6,600.99	0.00	0.00	0.00	
14,300.00	90.16	179.99	6,993.03	-6,701.07	-457.26	6,700.99	0.00	0.00	0.00	
14,400.00	90.16	179.99	6,992.76	-6,801.07	-457.23	6,800.99	0.00	0.00	0.00	
14,500.00	90.16	179.99	6,992.48	-6,901.06	-457.21	6,900.98	0.00	0.00	0.00	
14,600.00	90.16	179.99	6,992.21	-7,001.06	-457.19	7,000.98	0.00	0.00	0.00	
14,700.00	90.16	179.99	6,991.93	-7,101.06	-457.16	7,100.98	0.00	0.00	0.00	
14,800.00	90.16	179.99	6,991.65	-7,201.06	-457.14	7,200.98	0.00	0.00	0.00	
14,900.00	90.16	179.99	6,991.38	-7,301.06	-457.11	7,300.98	0.00	0.00	0.00	
15,000.00	90.16	179.99	6,991.10	-7,401.06	-457.09	7,400.98	0.00	0.00	0.00	
15,100.00	90.16	179.99	6,990.82	-7,501.06	-457.07	7,500.98	0.00	0.00	0.00	
15,200.00	90.16	179.99	6,990.55	-7,601.06	-457.04	7,600.98	0.00	0.00	0.00	
15,300.00	90.16	179.99	6,990.27	-7,701.06	-457.02	7,700.98	0.00	0.00	0.00	
15,400.00	90.16	179.99	6,989.99	-7,801.06	-456.99	7,800.98	0.00	0.00	0.00	
15,500.00	90.16	179.99	6,989.72	-7,901.06	-456.97	7,900.98	0.00	0.00	0.00	
15,600.00	90.16	179.99	6,989.44	-8,001.06	-456.95	8,000.98	0.00	0.00	0.00	
15,700.00	90.16	179.99	6,989.16	-8,101.06	-456.92	8,100.98	0.00	0.00	0.00	
15,800.00	90.16	179.99	6,988.89	-8,201.06	-456.90	8,200.98	0.00	0.00	0.00	
15,900.00	90.16	179.99	6,988.61	-8,301.06	-456.87	8,300.98	0.00	0.00	0.00	
16,000.00	90.16	179.99	6,988.34	-8,401.06	-456.85	8,400.98	0.00	0.00	0.00	
16,100.00	90.16	179.99	6,988.06	-8,501.06	-456.83	8,500.98	0.00	0.00	0.00	
16,121.18	90.16	179.99	6,988.00	-8,522.24	-456.82	8,522.16	0.00	0.00	0.00	
TD Well @ 16121.18ft										

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	
7,438.82	7,012.00	Top of Production	5-1/2	7-7/8	

## Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well GUEST 29N-25HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	GL 4872 & KB 17 @ 4889.00usft (ASSUMED)
<b>Site:</b>	2N-65W-13 Guest 11-13HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	GUEST 29N-25HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-3		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,347.13	1,333.00	Fox Hills Mkr			
	4,039.73	3,946.00	Parkman			
	4,399.90	4,302.00	Sussex			
	6,936.80	6,807.00	Sharon Springs			
	7,005.65	6,857.00	Niobrara			
	7,109.87	6,921.00	Nio B			
	7,297.30	6,995.00	Nio C			