

# **US ROCKIES WATTENBERG PLANNING**

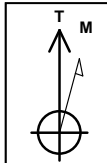
**WELD-NAD83-UTMFT13N  
3N-65W-29 RW 15-29HZ Pad  
RW 26N-29HZ**

**Plan A**

**Plan: Permit Rev-1**

## **Standard Planning Report**

**12 December, 2016**



Azimuths to True North  
 Magnetic North: 8.06°  
 Magnetic Field  
 Strength: 52452.8snT  
 Dip Angle: 66.70°  
 Date: 12/6/2016  
 Model: IGRF2010

SITE: 3N-65W-29 RW 15-29HZ Pad

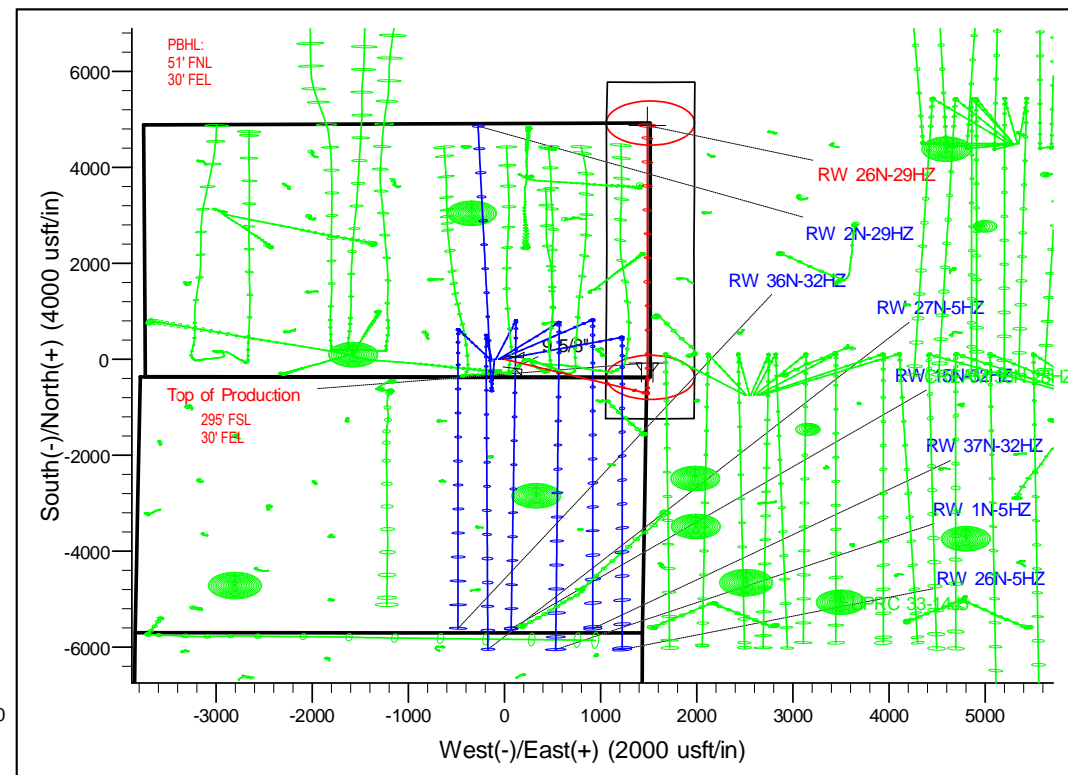
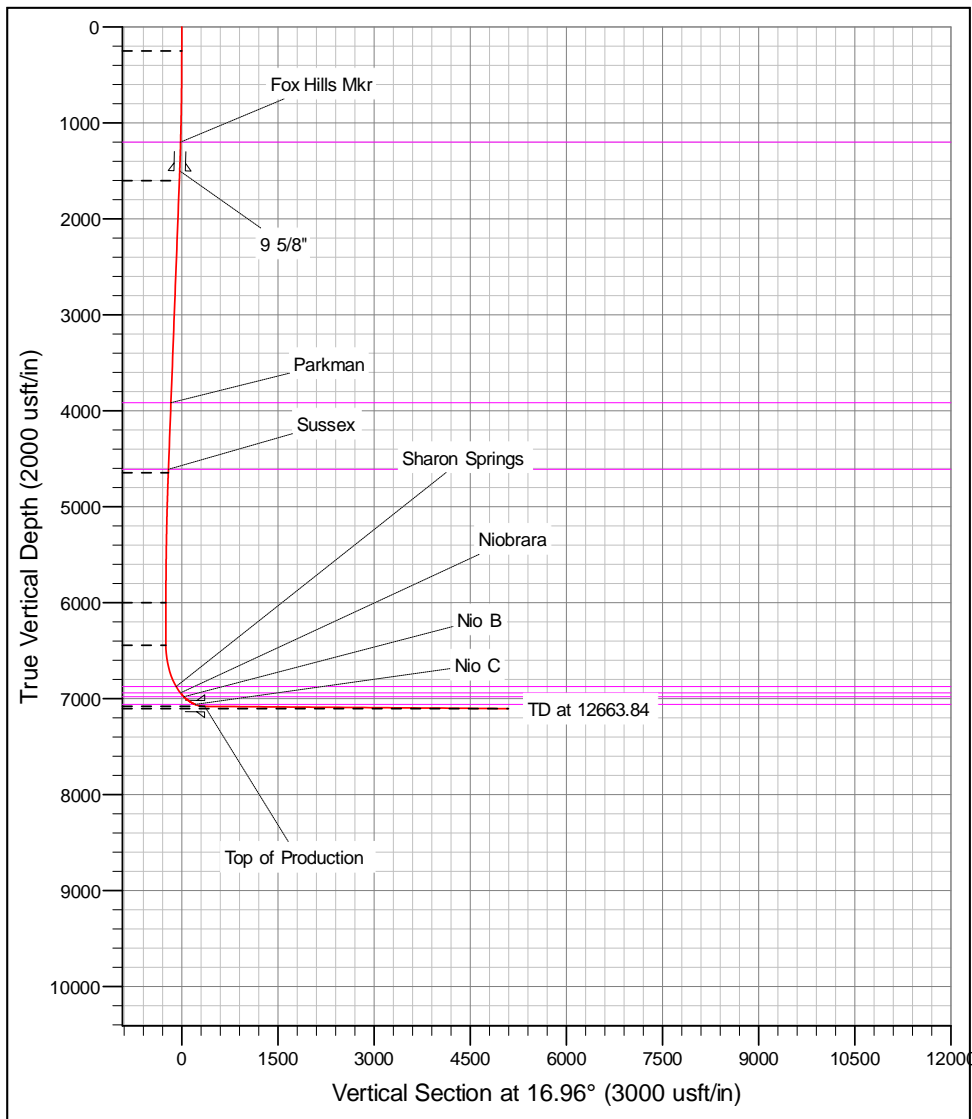
Well: RW 26N-29HZ  
 Wellbore: Plan A  
 Design: Permit Rev-1

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1202.00	1212.14	Fox Hills Mkr
3918.00	4108.38	Parkman
4611.00	4849.38	Sussex
6874.00	7186.62	Sharon Springs
6941.00	7284.53	Niobrara
6981.00	7353.03	Nio B
7062.00	7557.26	Nio C

WELL DETAILS: RW 26N-29HZ						
+N/-S	+E/-W	GL: 4867.00	RKB @ 4884.00usft (Original Well Elev)			Slot
		Northing	Easting	Latitude	Longitude	
0.00	0.00	14596147.82	1728851.15	40.190189	-104.683340	

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
1632.44	20.74	115.58	1602.45	-106.85	223.19	1.50	-37.09
4888.46	20.74	115.58	4647.55	-604.69	1263.02	0.00	-209.92
6270.90	0.00	0.00	6000.00	-711.54	1486.21	1.50	-247.02
6715.95	0.00	0.00	6445.06	-711.54	1486.21	0.00	-247.02
7712.95	89.73	0.00	7081.67	-77.92	1486.21	9.00	359.04
12663.84	89.73	0.00	7105.00	4872.91	1486.24	0.00	5094.52

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RW 26N-29HZ_PBHL	7105.00	4872.91	1486.24	14601026.00	1730320.00	40.203570	-104.678017



# Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well RW 26N-29HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Site:</b>	3N-65W-29 RW 15-29HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	RW 26N-29HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

<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>	3N-65W-29 RW 15-29HZ Pad		
<b>Site Position:</b>		<b>Northing:</b>	14,596,148.74 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,728,701.18 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40.190193
		<b>Longitude:</b>	-104.683877
		<b>Grid Convergence:</b>	0.20 °

<b>Well</b>	RW 26N-29HZ		
<b>Well Position</b>	<b>+N-S</b>	-1.46 usft	<b>Northing:</b> 14,596,147.82 usft
	<b>+E-W</b>	149.97 usft	<b>Easting:</b> 1,728,851.15 usft
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>
			<b>Ground Level:</b> 4,867.00 usft
			<b>Latitude:</b> 40.190189
			<b>Longitude:</b> -104.683340

<b>Wellbore</b>	Plan A		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>
	IGRF2010	12/6/2016	8.06
			<b>Dip Angle (°)</b>
			66.70
			<b>Field Strength (nT)</b>
			52,452.76171719

<b>Design</b>	Permit Rev-1		
<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>
	0.00	0.00	0.00
			<b>Direction (°)</b>
			16.96

<b>Plan Survey Tool Program</b>	Date	12/12/2016		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	12,662.99	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWI
				Fixed:v2:Rockies, crustal dex

<b>Plan Sections</b>										
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	
1,632.44	20.74	115.58	1,602.45	-106.85	223.19	1.50	1.50	0.00	115.58	
4,888.46	20.74	115.58	4,647.55	-604.69	1,263.02	0.00	0.00	0.00	0.00	
6,270.90	0.00	0.00	6,000.00	-711.54	1,486.21	1.50	-1.50	0.00	180.00	
6,715.95	0.00	0.00	6,445.06	-711.54	1,486.21	0.00	0.00	0.00	0.00	
7,712.95	89.73	0.00	7,081.67	-77.92	1,486.21	9.00	9.00	0.00	0.00	
12,663.84	89.73	0.00	7,105.00	4,872.91	1,486.24	0.00	0.00	0.00	0.00	RW 26N-29HZ_PBI

# Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well RW 26N-29HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Site:</b>	3N-65W-29 RW 15-29HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	RW 26N-29HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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	115.58	300.00	-0.14	0.30	-0.05	1.50	1.50	0.00
400.00	2.25	115.58	399.96	-1.27	2.66	-0.44	1.50	1.50	0.00
500.00	3.75	115.58	499.82	-3.53	7.38	-1.23	1.50	1.50	0.00
600.00	5.25	115.58	599.51	-6.92	14.45	-2.40	1.50	1.50	0.00
700.00	6.75	115.58	698.96	-11.43	23.88	-3.97	1.50	1.50	0.00
800.00	8.25	115.58	798.10	-17.07	35.65	-5.93	1.50	1.50	0.00
900.00	9.75	115.58	896.87	-23.82	49.76	-8.27	1.50	1.50	0.00
1,000.00	11.25	115.58	995.19	-31.69	66.20	-11.00	1.50	1.50	0.00
1,100.00	12.75	115.58	1,093.00	-40.67	84.95	-14.12	1.50	1.50	0.00
1,200.00	14.25	115.58	1,190.24	-50.75	106.01	-17.62	1.50	1.50	0.00
1,212.14	14.43	115.58	1,202.00	-52.05	108.72	-18.07	1.50	1.50	0.00
<b>Fox Hills Mkr</b>									
1,300.00	15.75	115.58	1,286.83	-61.93	129.35	-21.50	1.50	1.50	0.00
1,400.00	17.25	115.58	1,382.71	-74.19	154.97	-25.76	1.50	1.50	0.00
1,500.00	18.75	115.58	1,477.81	-87.54	182.84	-30.39	1.50	1.50	0.00
1,523.46	19.10	115.58	1,500.00	-90.82	189.70	-31.53	1.50	1.50	0.00
<b>9 5/8"</b>									
1,600.00	20.25	115.58	1,572.07	-101.95	212.94	-35.39	1.50	1.50	0.00
1,632.44	20.74	115.58	1,602.45	-106.85	223.19	-37.09	1.50	1.50	0.00
1,700.00	20.74	115.58	1,665.64	-117.18	244.76	-40.68	0.00	0.00	0.00
1,800.00	20.74	115.58	1,759.16	-132.47	276.70	-45.99	0.00	0.00	0.00
1,900.00	20.74	115.58	1,852.68	-147.76	308.64	-51.30	0.00	0.00	0.00
2,000.00	20.74	115.58	1,946.21	-163.05	340.57	-56.60	0.00	0.00	0.00
2,100.00	20.74	115.58	2,039.73	-178.34	372.51	-61.91	0.00	0.00	0.00
2,200.00	20.74	115.58	2,133.25	-193.63	404.44	-67.22	0.00	0.00	0.00
2,300.00	20.74	115.58	2,226.77	-208.92	436.38	-72.53	0.00	0.00	0.00
2,400.00	20.74	115.58	2,320.29	-224.21	468.31	-77.84	0.00	0.00	0.00
2,500.00	20.74	115.58	2,413.81	-239.50	500.25	-83.14	0.00	0.00	0.00
2,600.00	20.74	115.58	2,507.34	-254.79	532.19	-88.45	0.00	0.00	0.00
2,700.00	20.74	115.58	2,600.86	-270.08	564.12	-93.76	0.00	0.00	0.00
2,800.00	20.74	115.58	2,694.38	-285.37	596.06	-99.07	0.00	0.00	0.00
2,900.00	20.74	115.58	2,787.90	-300.66	627.99	-104.38	0.00	0.00	0.00
3,000.00	20.74	115.58	2,881.42	-315.95	659.93	-109.68	0.00	0.00	0.00
3,100.00	20.74	115.58	2,974.95	-331.24	691.86	-114.99	0.00	0.00	0.00
3,200.00	20.74	115.58	3,068.47	-346.53	723.80	-120.30	0.00	0.00	0.00
3,300.00	20.74	115.58	3,161.99	-361.82	755.74	-125.61	0.00	0.00	0.00
3,400.00	20.74	115.58	3,255.51	-377.11	787.67	-130.92	0.00	0.00	0.00
3,500.00	20.74	115.58	3,349.03	-392.40	819.61	-136.22	0.00	0.00	0.00
3,600.00	20.74	115.58	3,442.56	-407.69	851.54	-141.53	0.00	0.00	0.00
3,700.00	20.74	115.58	3,536.08	-422.98	883.48	-146.84	0.00	0.00	0.00
3,800.00	20.74	115.58	3,629.60	-438.27	915.41	-152.15	0.00	0.00	0.00
3,900.00	20.74	115.58	3,723.12	-453.56	947.35	-157.45	0.00	0.00	0.00
4,000.00	20.74	115.58	3,816.64	-468.85	979.29	-162.76	0.00	0.00	0.00
4,100.00	20.74	115.58	3,910.16	-484.14	1,011.22	-168.07	0.00	0.00	0.00
4,108.38	20.74	115.58	3,918.00	-485.42	1,013.90	-168.52	0.00	0.00	0.00
<b>Parkman</b>									
4,200.00	20.74	115.58	4,003.69	-499.43	1,043.16	-173.38	0.00	0.00	0.00
4,300.00	20.74	115.58	4,097.21	-514.72	1,075.09	-178.69	0.00	0.00	0.00
4,400.00	20.74	115.58	4,190.73	-530.01	1,107.03	-183.99	0.00	0.00	0.00

# Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well RW 26N-29HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Site:</b>	3N-65W-29 RW 15-29HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	RW 26N-29HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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	20.74	115.58	4,284.25	-545.30	1,138.96	-189.30	0.00	0.00	0.00	
4,600.00	20.74	115.58	4,377.77	-560.59	1,170.90	-194.61	0.00	0.00	0.00	
4,700.00	20.74	115.58	4,471.30	-575.87	1,202.84	-199.92	0.00	0.00	0.00	
4,800.00	20.74	115.58	4,564.82	-591.16	1,234.77	-205.23	0.00	0.00	0.00	
4,849.38	20.74	115.58	4,611.00	-598.71	1,250.54	-207.85	0.00	0.00	0.00	
<b>Sussex</b>										
4,888.46	20.74	115.58	4,647.55	-604.69	1,263.02	-209.92	0.00	0.00	0.00	
4,900.00	20.56	115.58	4,658.35	-606.45	1,266.69	-210.53	1.50	-1.50	0.00	
5,000.00	19.06	115.58	4,752.42	-621.08	1,297.26	-215.61	1.50	-1.50	0.00	
5,100.00	17.56	115.58	4,847.36	-634.65	1,325.60	-220.32	1.50	-1.50	0.00	
5,200.00	16.06	115.58	4,943.08	-647.14	1,351.69	-224.66	1.50	-1.50	0.00	
5,300.00	14.56	115.58	5,039.52	-658.55	1,375.51	-228.62	1.50	-1.50	0.00	
5,400.00	13.06	115.58	5,136.63	-668.86	1,397.05	-232.20	1.50	-1.50	0.00	
5,500.00	11.56	115.58	5,234.33	-678.07	1,416.28	-235.39	1.50	-1.50	0.00	
5,600.00	10.06	115.58	5,332.55	-686.17	1,433.20	-238.21	1.50	-1.50	0.00	
5,700.00	8.56	115.58	5,431.23	-693.16	1,447.80	-240.63	1.50	-1.50	0.00	
5,800.00	7.06	115.58	5,530.30	-699.03	1,460.06	-242.67	1.50	-1.50	0.00	
5,900.00	5.56	115.58	5,629.69	-703.77	1,469.98	-244.32	1.50	-1.50	0.00	
6,000.00	4.06	115.58	5,729.33	-707.40	1,477.55	-245.58	1.50	-1.50	0.00	
6,100.00	2.56	115.58	5,829.16	-709.89	1,482.76	-246.44	1.50	-1.50	0.00	
6,200.00	1.06	115.58	5,929.11	-711.26	1,485.62	-246.92	1.50	-1.50	0.00	
6,270.90	0.00	0.00	6,000.00	-711.54	1,486.21	-247.02	1.50	-1.50	0.00	
6,300.00	0.00	0.00	6,029.10	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,129.10	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,229.10	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,329.10	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,429.10	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,715.95	0.00	0.00	6,445.06	-711.54	1,486.21	-247.02	0.00	0.00	0.00	
6,800.00	7.56	0.00	6,528.86	-706.00	1,486.21	-241.72	9.00	9.00	0.00	
6,900.00	16.56	0.00	6,626.55	-685.12	1,486.21	-221.75	9.00	9.00	0.00	
7,000.00	25.56	0.00	6,719.77	-649.22	1,486.21	-187.40	9.00	9.00	0.00	
7,100.00	34.56	0.00	6,806.23	-599.17	1,486.21	-139.54	9.00	9.00	0.00	
7,186.62	42.36	0.00	6,874.00	-545.34	1,486.21	-88.04	9.00	9.00	0.00	
<b>Sharon Springs</b>										
7,200.00	43.56	0.00	6,883.79	-536.22	1,486.21	-79.32	9.00	9.00	0.00	
7,284.53	51.17	0.00	6,941.00	-474.08	1,486.21	-19.88	9.00	9.00	0.00	
<b>Niobrara</b>										
7,300.00	52.56	0.00	6,950.56	-461.91	1,486.21	-8.24	9.00	9.00	0.00	
7,353.03	57.34	0.00	6,981.00	-418.51	1,486.21	33.27	9.00	9.00	0.00	
<b>Nio B</b>										
7,400.00	61.56	0.00	7,004.87	-378.07	1,486.21	71.96	9.00	9.00	0.00	
7,500.00	70.56	0.00	7,045.40	-286.76	1,486.21	159.29	9.00	9.00	0.00	
7,557.26	75.72	0.00	7,062.00	-231.98	1,486.21	211.69	9.00	9.00	0.00	
<b>Nio C</b>										
7,600.00	79.56	0.00	7,071.15	-190.24	1,486.21	251.61	9.00	9.00	0.00	
7,700.00	88.56	0.00	7,081.48	-90.88	1,486.21	346.65	9.00	9.00	0.00	
7,712.95	89.73	0.00	7,081.67	-77.93	1,486.21	359.04	9.00	9.00	0.00	
<b>Top of Production - RW 26N-29HZ_PHL</b>										
7,800.00	89.73	0.00	7,082.08	9.12	1,486.21	442.30	0.00	0.00	0.00	
7,900.00	89.73	0.00	7,082.55	109.12	1,486.21	537.95	0.00	0.00	0.00	
8,000.00	89.73	0.00	7,083.02	209.12	1,486.21	633.60	0.00	0.00	0.00	
8,100.00	89.73	0.00	7,083.49	309.12	1,486.21	729.25	0.00	0.00	0.00	
8,200.00	89.73	0.00	7,083.96	409.12	1,486.21	824.90	0.00	0.00	0.00	

# Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well RW 26N-29HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Site:</b>	3N-65W-29 RW 15-29HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	RW 26N-29HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	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)	
8,300.00	89.73	0.00	7,084.44	509.12	1,486.22	920.55	0.00	0.00	0.00	
8,400.00	89.73	0.00	7,084.91	609.11	1,486.22	1,016.20	0.00	0.00	0.00	
8,500.00	89.73	0.00	7,085.38	709.11	1,486.22	1,111.84	0.00	0.00	0.00	
8,600.00	89.73	0.00	7,085.85	809.11	1,486.22	1,207.49	0.00	0.00	0.00	
8,700.00	89.73	0.00	7,086.32	909.11	1,486.22	1,303.14	0.00	0.00	0.00	
8,800.00	89.73	0.00	7,086.79	1,009.11	1,486.22	1,398.79	0.00	0.00	0.00	
8,900.00	89.73	0.00	7,087.26	1,109.11	1,486.22	1,494.44	0.00	0.00	0.00	
9,000.00	89.73	0.00	7,087.73	1,209.11	1,486.22	1,590.09	0.00	0.00	0.00	
9,100.00	89.73	0.00	7,088.21	1,309.11	1,486.22	1,685.74	0.00	0.00	0.00	
9,200.00	89.73	0.00	7,088.68	1,409.11	1,486.22	1,781.39	0.00	0.00	0.00	
9,300.00	89.73	0.00	7,089.15	1,509.10	1,486.22	1,877.04	0.00	0.00	0.00	
9,400.00	89.73	0.00	7,089.62	1,609.10	1,486.22	1,972.69	0.00	0.00	0.00	
9,500.00	89.73	0.00	7,090.09	1,709.10	1,486.22	2,068.34	0.00	0.00	0.00	
9,600.00	89.73	0.00	7,090.56	1,809.10	1,486.22	2,163.98	0.00	0.00	0.00	
9,700.00	89.73	0.00	7,091.03	1,909.10	1,486.22	2,259.63	0.00	0.00	0.00	
9,800.00	89.73	0.00	7,091.50	2,009.10	1,486.22	2,355.28	0.00	0.00	0.00	
9,900.00	89.73	0.00	7,091.98	2,109.10	1,486.22	2,450.93	0.00	0.00	0.00	
10,000.00	89.73	0.00	7,092.45	2,209.10	1,486.22	2,546.58	0.00	0.00	0.00	
10,100.00	89.73	0.00	7,092.92	2,309.10	1,486.22	2,642.23	0.00	0.00	0.00	
10,200.00	89.73	0.00	7,093.39	2,409.09	1,486.22	2,737.88	0.00	0.00	0.00	
10,300.00	89.73	0.00	7,093.86	2,509.09	1,486.23	2,833.53	0.00	0.00	0.00	
10,400.00	89.73	0.00	7,094.33	2,609.09	1,486.23	2,929.18	0.00	0.00	0.00	
10,500.00	89.73	0.00	7,094.80	2,709.09	1,486.23	3,024.83	0.00	0.00	0.00	
10,600.00	89.73	0.00	7,095.27	2,809.09	1,486.23	3,120.48	0.00	0.00	0.00	
10,700.00	89.73	0.00	7,095.75	2,909.09	1,486.23	3,216.12	0.00	0.00	0.00	
10,800.00	89.73	0.00	7,096.22	3,009.09	1,486.23	3,311.77	0.00	0.00	0.00	
10,900.00	89.73	0.00	7,096.69	3,109.09	1,486.23	3,407.42	0.00	0.00	0.00	
11,000.00	89.73	0.00	7,097.16	3,209.09	1,486.23	3,503.07	0.00	0.00	0.00	
11,100.00	89.73	0.00	7,097.63	3,309.08	1,486.23	3,598.72	0.00	0.00	0.00	
11,200.00	89.73	0.00	7,098.10	3,409.08	1,486.23	3,694.37	0.00	0.00	0.00	
11,300.00	89.73	0.00	7,098.57	3,509.08	1,486.23	3,790.02	0.00	0.00	0.00	
11,400.00	89.73	0.00	7,099.04	3,609.08	1,486.23	3,885.67	0.00	0.00	0.00	
11,500.00	89.73	0.00	7,099.52	3,709.08	1,486.23	3,981.32	0.00	0.00	0.00	
11,600.00	89.73	0.00	7,099.99	3,809.08	1,486.23	4,076.97	0.00	0.00	0.00	
11,700.00	89.73	0.00	7,100.46	3,909.08	1,486.23	4,172.62	0.00	0.00	0.00	
11,800.00	89.73	0.00	7,100.93	4,009.08	1,486.23	4,268.26	0.00	0.00	0.00	
11,900.00	89.73	0.00	7,101.40	4,109.08	1,486.23	4,363.91	0.00	0.00	0.00	
12,000.00	89.73	0.00	7,101.87	4,209.07	1,486.23	4,459.56	0.00	0.00	0.00	
12,100.00	89.73	0.00	7,102.34	4,309.07	1,486.23	4,555.21	0.00	0.00	0.00	
12,200.00	89.73	0.00	7,102.81	4,409.07	1,486.23	4,650.86	0.00	0.00	0.00	
12,300.00	89.73	0.00	7,103.29	4,509.07	1,486.24	4,746.51	0.00	0.00	0.00	
12,400.00	89.73	0.00	7,103.76	4,609.07	1,486.24	4,842.16	0.00	0.00	0.00	
12,500.00	89.73	0.00	7,104.23	4,709.07	1,486.24	4,937.81	0.00	0.00	0.00	
12,600.00	89.73	0.00	7,104.70	4,809.07	1,486.24	5,033.46	0.00	0.00	0.00	
12,663.84	89.73	0.00	7,105.00	4,872.91	1,486.24	5,094.52	0.00	0.00	0.00	
<b>RW 26N-29HZ_PBHL</b>										

# Corporate Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well RW 26N-29HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB @ 4884.00usft (Original Well Elev)
<b>Site:</b>	3N-65W-29 RW 15-29HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	RW 26N-29HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
RW 26N-29HZ_PHL - plan hits target center - Point	0.00	0.00	7,081.67	-77.93	1,486.21	14,596,075.19	1,730,337.63	40.189975	-104.678019
RW 26N-29HZ_PBHL - plan hits target center - Point	0.00	0.00	7,105.00	4,872.91	1,486.24	14,601,026.00	1,730,320.00	40.203570	-104.678017

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
1,523.46	1,500.00	9 5/8"	9-5/8	13-1/2	
7,712.95	7,081.67	Top of Production	5-1/2	8-1/2	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,212.14	1,202.00	Fox Hills Mkr				
4,108.38	3,918.00	Parkman				
4,849.38	4,611.00	Sussex				
7,186.62	6,874.00	Sharon Springs				
7,284.53	6,941.00	Niobrara				
7,353.03	6,981.00	Nio B				
7,557.26	7,062.00	Nio C				