

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N**

**3N-68W-22 Hilgers 16-22HZ Pad**

**HILGERS 41N-26HZ**

**Plan A**

**Plan: Permit Rev-2**

## **Standard Planning Report**

**11 September, 2015**

Project: WELD-NAD83-UTMFT13N  
 Site: 3N-68W-22 Hilgers 16-22HZ Pad  
 Well: HILGERS 41N-26HZ  
 Wellbore: Plan A  
 Design: Permit Rev-2

# US ROCKIES WATTENBERG PLANNING

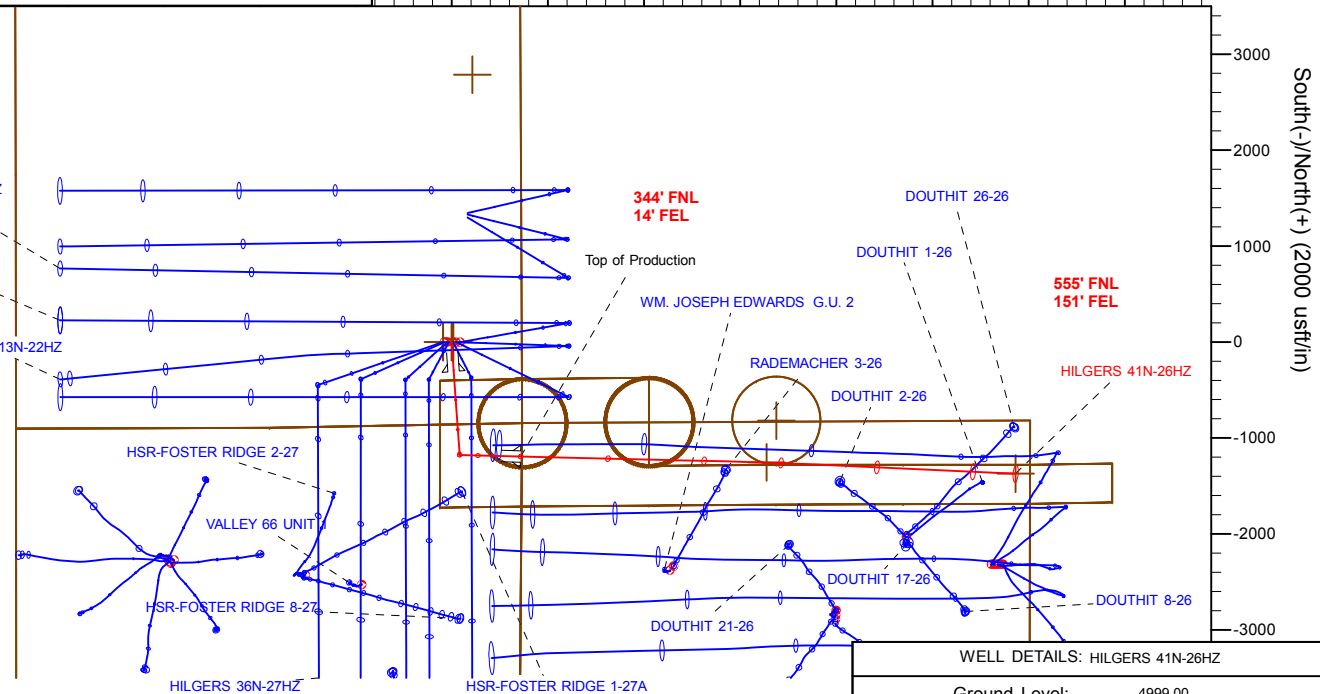
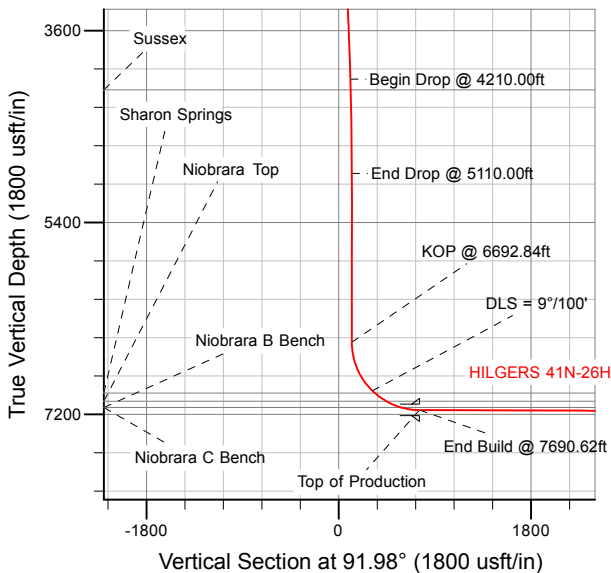
## SECTION DETAILS

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	1450.00	18.00	176.00	1430.36	-186.49	13.04	1.50	176.00	19.48	
4	4210.00	18.00	176.00	4055.27	-1037.30	72.54	0.00	0.00	108.33	
5	5110.00	0.00	0.00	4940.54	-1177.18	82.32	2.00	180.00	122.94	
6	6692.84	0.00	0.00	6523.38	-1177.18	82.32	0.00	0.00	122.94	
7	7690.62	89.80	91.37	7160.00	-1192.35	716.53	9.00	91.37	757.30	
8	10250.00	89.80	91.37	7168.94	-1253.59	3275.17	0.00	0.00	3316.53	HILGERS 41N-26HZ_Lateral Target
9	10311.47	89.80	92.60	7169.15	-1255.72	3336.60	2.00	90.00	3377.99	
10	12843.42	89.80	92.60	7178.00	-1370.59	5865.92	0.00	0.00	5909.77	HILGERS 41N-26HZ_Toe

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
HILGERS 41N-26HZ_SHL	0.00	0.00	0.00	40.206605	-104.982153	Point
HILGERS 41N-26HZ_Toe	7178.00	-1370.59	5865.92	40.202839	-104.961145	Point

West(-)/East(+) (2000 usft/in)



WELL DETAILS: HILGERS 41N-26HZ

Ground Level: 4999.00

RKB = 17' @ 5016.00usft (D Rig)

Plan: Permit Rev-2 (HILGERS 41N-26HZ/Plan A)

Created By: Clint Eshelman Date: 9/11/2015  
 Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

<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-68W-22 Hilgers 16-22HZ Pad			
<b>Site Position:</b>		<b>Northing:</b>	14,601,968.89 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,645,309.73 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40.206606
		<b>Longitude:</b>	-104.982475
		<b>Grid Convergence:</b>	0.01 °

<b>Well</b> HILGERS 41N-26HZ			
<b>Well Position</b>	<b>+N-S</b>	-0.36 usft	<b>Northing:</b> 14,601,968.55 usft
	<b>+E-W</b>	89.90 usft	<b>Easting:</b> 1,645,399.64 usft
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b> 0.00 usft
			<b>Latitude:</b> 40.206605
			<b>Longitude:</b> -104.982153
			<b>Ground Level:</b> 4,999.00 usft

<b>Wellbore</b> Plan A					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/6/2015	8.39	66.71	52,561

<b>Design</b> Permit Rev-2			
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b> 0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.00	0.00	0.00
			<b>Direction (°)</b> 91.98

<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	
1,450.00	18.00	176.00	1,430.36	-186.49	13.04	1.50	1.50	0.00	176.00	
4,210.00	18.00	176.00	4,055.27	-1,037.30	72.54	0.00	0.00	0.00	0.00	
5,110.00	0.00	0.00	4,940.54	-1,177.18	82.32	2.00	-2.00	0.00	180.00	
6,692.84	0.00	0.00	6,523.38	-1,177.18	82.32	0.00	0.00	0.00	0.00	
7,690.62	89.80	91.37	7,160.00	-1,192.35	716.53	9.00	9.00	9.16	91.37	
10,250.00	89.80	91.37	7,168.94	-1,253.59	3,275.17	0.00	0.00	0.00	0.00	HILGERS 41N-26HZ_
10,311.47	89.80	92.60	7,169.15	-1,255.72	3,336.60	2.00	0.00	2.00	90.00	
12,843.42	89.80	92.60	7,178.00	-1,370.59	5,865.92	0.00	0.00	0.00	0.00	HILGERS 41N-26HZ_

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

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	176.00	300.00	-0.33	0.02	0.03	1.50	1.50	0.00	
316.00	0.99	176.00	316.00	-0.57	0.04	0.06	1.50	1.50	0.00	
<b>Fox Hills</b>										
400.00	2.25	176.00	399.96	-2.94	0.21	0.31	1.50	1.50	0.00	
500.00	3.75	176.00	499.82	-8.16	0.57	0.85	1.50	1.50	0.00	
600.00	5.25	176.00	599.51	-15.98	1.12	1.67	1.50	1.50	0.00	
700.00	6.75	176.00	698.96	-26.41	1.85	2.76	1.50	1.50	0.00	
800.00	8.25	176.00	798.10	-39.43	2.76	4.12	1.50	1.50	0.00	
900.00	9.75	176.00	896.87	-55.04	3.85	5.75	1.50	1.50	0.00	
1,000.00	11.25	176.00	995.19	-73.22	5.12	7.65	1.50	1.50	0.00	
1,100.00	12.75	176.00	1,093.00	-93.96	6.57	9.81	1.50	1.50	0.00	
1,200.00	14.25	176.00	1,190.24	-117.24	8.20	12.24	1.50	1.50	0.00	
1,300.00	15.75	176.00	1,286.83	-143.06	10.00	14.94	1.50	1.50	0.00	
1,400.00	17.25	176.00	1,382.71	-171.39	11.98	17.90	1.50	1.50	0.00	
1,450.00	18.00	176.00	1,430.36	-186.49	13.04	19.48	1.50	1.50	0.00	
<b>End Nudge @ 1450.00ft</b>										
1,500.00	18.00	176.00	1,477.91	-201.91	14.12	21.09	0.00	0.00	0.00	
1,600.00	18.00	176.00	1,573.02	-232.73	16.27	24.31	0.00	0.00	0.00	
1,700.00	18.00	176.00	1,668.12	-263.56	18.43	27.53	0.00	0.00	0.00	
1,800.00	18.00	176.00	1,763.23	-294.39	20.59	30.74	0.00	0.00	0.00	
1,838.66	18.00	176.00	1,800.00	-306.31	21.42	31.99	0.00	0.00	0.00	
<b>9 5/8"</b>										
1,900.00	18.00	176.00	1,858.33	-325.21	22.74	33.96	0.00	0.00	0.00	
2,000.00	18.00	176.00	1,953.44	-356.04	24.90	37.18	0.00	0.00	0.00	
2,100.00	18.00	176.00	2,048.54	-386.87	27.05	40.40	0.00	0.00	0.00	
2,200.00	18.00	176.00	2,143.65	-417.69	29.21	43.62	0.00	0.00	0.00	
2,300.00	18.00	176.00	2,238.76	-448.52	31.36	46.84	0.00	0.00	0.00	
2,400.00	18.00	176.00	2,333.86	-479.35	33.52	50.06	0.00	0.00	0.00	
2,500.00	18.00	176.00	2,428.97	-510.17	35.67	53.28	0.00	0.00	0.00	
2,600.00	18.00	176.00	2,524.07	-541.00	37.83	56.50	0.00	0.00	0.00	
2,700.00	18.00	176.00	2,619.18	-571.83	39.99	59.72	0.00	0.00	0.00	
2,800.00	18.00	176.00	2,714.28	-602.65	42.14	62.94	0.00	0.00	0.00	
2,900.00	18.00	176.00	2,809.39	-633.48	44.30	66.16	0.00	0.00	0.00	
3,000.00	18.00	176.00	2,904.50	-664.30	46.45	69.38	0.00	0.00	0.00	
3,100.00	18.00	176.00	2,999.60	-695.13	48.61	72.60	0.00	0.00	0.00	
3,200.00	18.00	176.00	3,094.71	-725.96	50.76	75.82	0.00	0.00	0.00	
3,300.00	18.00	176.00	3,189.81	-756.78	52.92	79.04	0.00	0.00	0.00	
3,400.00	18.00	176.00	3,284.92	-787.61	55.08	82.25	0.00	0.00	0.00	
3,500.00	18.00	176.00	3,380.02	-818.44	57.23	85.47	0.00	0.00	0.00	
3,600.00	18.00	176.00	3,475.13	-849.26	59.39	88.69	0.00	0.00	0.00	
3,700.00	18.00	176.00	3,570.24	-880.09	61.54	91.91	0.00	0.00	0.00	
3,800.00	18.00	176.00	3,665.34	-910.92	63.70	95.13	0.00	0.00	0.00	
3,900.00	18.00	176.00	3,760.45	-941.74	65.85	98.35	0.00	0.00	0.00	
4,000.00	18.00	176.00	3,855.55	-972.57	68.01	101.57	0.00	0.00	0.00	
4,100.00	18.00	176.00	3,950.66	-1,003.40	70.16	104.79	0.00	0.00	0.00	
4,200.00	18.00	176.00	4,045.76	-1,034.22	72.32	108.01	0.00	0.00	0.00	
4,210.00	18.00	176.00	4,055.27	-1,037.30	72.54	108.33	0.00	0.00	0.00	
<b>Begin Drop @ 4210.00ft</b>										
4,300.00	16.20	176.00	4,141.29	-1,063.70	74.38	111.09	2.00	-2.00	0.00	

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

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)
4,315.30	15.89	176.00	4,156.00	-1,067.92	74.68	111.53	2.00	-2.00	0.00
<b>Sussex</b>									
4,400.00	14.20	176.00	4,237.79	-1,089.86	76.21	113.82	2.00	-2.00	0.00
4,500.00	12.20	176.00	4,335.14	-1,112.63	77.80	116.20	2.00	-2.00	0.00
4,600.00	10.20	176.00	4,433.23	-1,132.01	79.16	118.22	2.00	-2.00	0.00
4,700.00	8.20	176.00	4,531.94	-1,147.96	80.27	119.89	2.00	-2.00	0.00
4,800.00	6.20	176.00	4,631.15	-1,160.46	81.15	121.19	2.00	-2.00	0.00
4,900.00	4.20	176.00	4,730.73	-1,169.50	81.78	122.14	2.00	-2.00	0.00
5,000.00	2.20	176.00	4,830.57	-1,175.07	82.17	122.72	2.00	-2.00	0.00
5,100.00	0.20	176.00	4,930.54	-1,177.16	82.31	122.94	2.00	-2.00	0.00
5,110.00	0.00	0.00	4,940.54	-1,177.18	82.32	122.94	2.00	-2.00	0.00
<b>End Drop @ 5110.00ft</b>									
5,200.00	0.00	0.00	5,030.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,300.00	0.00	0.00	5,130.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,400.00	0.00	0.00	5,230.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,500.00	0.00	0.00	5,330.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,600.00	0.00	0.00	5,430.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,700.00	0.00	0.00	5,530.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,800.00	0.00	0.00	5,630.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
5,900.00	0.00	0.00	5,730.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,000.00	0.00	0.00	5,830.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,100.00	0.00	0.00	5,930.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,200.00	0.00	0.00	6,030.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,300.00	0.00	0.00	6,130.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,400.00	0.00	0.00	6,230.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,500.00	0.00	0.00	6,330.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,600.00	0.00	0.00	6,430.54	-1,177.18	82.32	122.94	0.00	0.00	0.00
6,692.84	0.00	0.00	6,523.38	-1,177.18	82.32	122.94	0.00	0.00	0.00
<b>KOP @ 6692.84ft</b>									
6,700.00	0.64	91.37	6,530.54	-1,177.18	82.36	122.98	9.00	9.00	0.00
6,800.00	9.64	91.37	6,630.04	-1,177.39	91.31	131.94	9.00	9.00	0.00
6,900.00	18.64	91.37	6,726.91	-1,177.97	115.72	156.35	9.00	9.00	0.00
7,000.00	27.64	91.37	6,818.76	-1,178.91	154.97	195.61	9.00	9.00	0.00
7,100.00	36.64	91.37	6,903.35	-1,180.19	208.10	248.76	9.00	9.00	0.00
7,200.00	45.64	91.37	6,978.58	-1,181.76	273.81	314.48	9.00	9.00	0.00
<b>DLS = 9°/100'</b>									
7,233.12	48.62	91.37	7,001.10	-1,182.34	298.08	338.75	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,300.00	54.64	91.37	7,042.59	-1,183.59	350.48	391.16	9.00	9.00	0.00
7,362.29	60.25	91.37	7,076.10	-1,184.85	402.95	443.65	9.00	9.00	0.00
<b>Niobrara Top</b>									
7,400.00	63.64	91.37	7,093.83	-1,185.65	436.21	476.92	9.00	9.00	0.00
7,500.00	72.64	91.37	7,131.02	-1,187.86	528.90	569.63	9.00	9.00	0.00
7,515.64	74.05	91.37	7,135.50	-1,188.22	543.88	584.61	9.00	9.00	0.00
<b>Niobrara B Bench - Niobrara C Bench</b>									
7,600.00	81.64	91.37	7,153.24	-1,190.19	626.27	667.02	9.00	9.00	0.00
7,690.62	89.80	91.37	7,160.00	-1,192.35	716.53	757.30	9.00	9.00	0.00
<b>End Build @ 7690.62ft - Top of Production</b>									
7,700.00	89.80	91.37	7,160.03	-1,192.58	725.91	766.68	0.00	0.00	0.00
7,800.00	89.80	91.37	7,160.38	-1,194.97	825.88	866.68	0.00	0.00	0.00
7,900.00	89.80	91.37	7,160.73	-1,197.36	925.85	966.67	0.00	0.00	0.00
8,000.00	89.80	91.37	7,161.08	-1,199.76	1,025.82	1,066.66	0.00	0.00	0.00
8,100.00	89.80	91.37	7,161.43	-1,202.15	1,125.79	1,166.66	0.00	0.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

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)
8,200.00	89.80	91.37	7,161.78	-1,204.54	1,225.77	1,266.65	0.00	0.00	0.00
8,300.00	89.80	91.37	7,162.13	-1,206.93	1,325.74	1,366.64	0.00	0.00	0.00
8,400.00	89.80	91.37	7,162.48	-1,209.33	1,425.71	1,466.64	0.00	0.00	0.00
8,500.00	89.80	91.37	7,162.83	-1,211.72	1,525.68	1,566.63	0.00	0.00	0.00
8,600.00	89.80	91.37	7,163.18	-1,214.11	1,625.65	1,666.63	0.00	0.00	0.00
8,700.00	89.80	91.37	7,163.52	-1,216.50	1,725.62	1,766.62	0.00	0.00	0.00
8,800.00	89.80	91.37	7,163.87	-1,218.90	1,825.59	1,866.61	0.00	0.00	0.00
8,900.00	89.80	91.37	7,164.22	-1,221.29	1,925.56	1,966.61	0.00	0.00	0.00
9,000.00	89.80	91.37	7,164.57	-1,223.68	2,025.53	2,066.60	0.00	0.00	0.00
9,100.00	89.80	91.37	7,164.92	-1,226.08	2,125.50	2,166.59	0.00	0.00	0.00
9,200.00	89.80	91.37	7,165.27	-1,228.47	2,225.47	2,266.59	0.00	0.00	0.00
9,300.00	89.80	91.37	7,165.62	-1,230.86	2,325.44	2,366.58	0.00	0.00	0.00
9,400.00	89.80	91.37	7,165.97	-1,233.25	2,425.41	2,466.58	0.00	0.00	0.00
9,500.00	89.80	91.37	7,166.32	-1,235.65	2,525.39	2,566.57	0.00	0.00	0.00
9,600.00	89.80	91.37	7,166.67	-1,238.04	2,625.36	2,666.56	0.00	0.00	0.00
9,700.00	89.80	91.37	7,167.02	-1,240.43	2,725.33	2,766.56	0.00	0.00	0.00
9,800.00	89.80	91.37	7,167.37	-1,242.82	2,825.30	2,866.55	0.00	0.00	0.00
9,900.00	89.80	91.37	7,167.72	-1,245.22	2,925.27	2,966.54	0.00	0.00	0.00
10,000.00	89.80	91.37	7,168.07	-1,247.61	3,025.24	3,066.54	0.00	0.00	0.00
10,100.00	89.80	91.37	7,168.42	-1,250.00	3,125.21	3,166.53	0.00	0.00	0.00
10,200.00	89.80	91.37	7,168.77	-1,252.39	3,225.18	3,266.53	0.00	0.00	0.00
10,250.00	89.80	91.37	7,168.94	-1,253.59	3,275.17	3,316.52	0.00	0.00	0.00
<b>Begin Turn to BHL @ 10250.00ft</b>									
10,300.00	89.80	92.37	7,169.11	-1,255.22	3,325.14	3,366.52	2.00	0.00	2.00
10,311.47	89.80	92.60	7,169.15	-1,255.72	3,336.60	3,377.99	2.00	0.00	2.00
<b>End Turn @ 10311.47ft</b>									
10,400.00	89.80	92.60	7,169.46	-1,259.74	3,425.04	3,466.52	0.00	0.00	0.00
10,500.00	89.80	92.60	7,169.81	-1,264.27	3,524.93	3,566.51	0.00	0.00	0.00
10,600.00	89.80	92.60	7,170.16	-1,268.81	3,624.83	3,666.50	0.00	0.00	0.00
10,700.00	89.80	92.60	7,170.51	-1,273.35	3,724.73	3,766.50	0.00	0.00	0.00
10,800.00	89.80	92.60	7,170.86	-1,277.88	3,824.62	3,866.49	0.00	0.00	0.00
10,900.00	89.80	92.60	7,171.21	-1,282.42	3,924.52	3,966.48	0.00	0.00	0.00
11,000.00	89.80	92.60	7,171.56	-1,286.96	4,024.41	4,066.48	0.00	0.00	0.00
11,100.00	89.80	92.60	7,171.91	-1,291.49	4,124.31	4,166.47	0.00	0.00	0.00
11,200.00	89.80	92.60	7,172.26	-1,296.03	4,224.21	4,266.46	0.00	0.00	0.00
11,300.00	89.80	92.60	7,172.61	-1,300.57	4,324.10	4,366.46	0.00	0.00	0.00
11,400.00	89.80	92.60	7,172.96	-1,305.10	4,424.00	4,466.45	0.00	0.00	0.00
11,500.00	89.80	92.60	7,173.31	-1,309.64	4,523.90	4,566.44	0.00	0.00	0.00
11,600.00	89.80	92.60	7,173.66	-1,314.18	4,623.79	4,666.44	0.00	0.00	0.00
11,700.00	89.80	92.60	7,174.01	-1,318.72	4,723.69	4,766.43	0.00	0.00	0.00
11,800.00	89.80	92.60	7,174.36	-1,323.25	4,823.59	4,866.43	0.00	0.00	0.00
11,900.00	89.80	92.60	7,174.70	-1,327.79	4,923.48	4,966.42	0.00	0.00	0.00
12,000.00	89.80	92.60	7,175.05	-1,332.33	5,023.38	5,066.41	0.00	0.00	0.00
12,100.00	89.80	92.60	7,175.40	-1,336.86	5,123.28	5,166.41	0.00	0.00	0.00
12,200.00	89.80	92.60	7,175.75	-1,341.40	5,223.17	5,266.40	0.00	0.00	0.00
12,300.00	89.80	92.60	7,176.10	-1,345.94	5,323.07	5,366.39	0.00	0.00	0.00
12,400.00	89.80	92.60	7,176.45	-1,350.47	5,422.96	5,466.39	0.00	0.00	0.00
12,500.00	89.80	92.60	7,176.80	-1,355.01	5,522.86	5,566.38	0.00	0.00	0.00
12,600.00	89.80	92.60	7,177.15	-1,359.55	5,622.76	5,666.37	0.00	0.00	0.00
12,700.00	89.80	92.60	7,177.50	-1,364.08	5,722.65	5,766.37	0.00	0.00	0.00
12,800.00	89.80	92.60	7,177.85	-1,368.62	5,822.55	5,866.36	0.00	0.00	0.00
12,843.42	89.80	92.60	7,178.00	-1,370.59	5,865.92	5,909.77	0.00	0.00	0.00
<b>TD Well @ 12843.42ft</b>									

**Anadarko**  
Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
3N-R68W-Sec. 27_Secti	0.00	0.00	0.00	0.36	-89.90	14,601,968.89	1,645,309.73	40.206606	-104.982475
- plan misses target center by 89.90usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	-901.61	-4,440.91	14,601,066.39	1,640,869.00		
Point 2			0.00	-893.57	-1,805.40	14,601,074.96	1,643,504.51		
Point 3			0.00	-845.64	823.41	14,601,123.42	1,646,133.31		
Point 4			0.00	-3,498.41	802.83	14,598,470.64	1,646,113.27		
Point 5			0.00	-6,154.53	782.53	14,595,814.52	1,646,093.50		
Point 6			0.00	-6,204.04	-4,436.84	14,595,763.96	1,640,874.14		
HILGERS 41N-26HZ_46	0.00	0.00	0.00	0.00	15.08	14,601,968.55	1,645,414.71	40.206605	-104.982099
- plan misses target center by 15.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	-374.60	721.75	14,601,594.10	1,646,136.54		
Point 2			0.00	-375.89	756.13	14,601,592.81	1,646,170.92		
Point 3			0.00	-379.80	791.06	14,601,588.91	1,646,205.85		
Point 4			0.00	-386.32	825.60	14,601,582.40	1,646,240.39		
Point 5			0.00	-395.40	859.54	14,601,573.32	1,646,274.33		
Point 6			0.00	-406.98	892.73	14,601,561.75	1,646,307.53		
Point 7			0.00	-421.02	924.95	14,601,547.72	1,646,339.75		
Point 8			0.00	-437.43	956.03	14,601,531.31	1,646,370.83		
Point 9			0.00	-456.10	985.81	14,601,512.65	1,646,400.62		
Point 10			0.00	-476.96	1,014.10	14,601,491.79	1,646,428.91		
Point 11			0.00	-499.87	1,040.75	14,601,468.89	1,646,455.56		
Point 12			0.00	-524.71	1,065.62	14,601,444.05	1,646,480.44		
Point 13			0.00	-551.33	1,088.56	14,601,417.44	1,646,503.38		
Point 14			0.00	-579.60	1,109.45	14,601,389.17	1,646,524.28		
Point 15			0.00	-609.35	1,128.17	14,601,359.43	1,646,543.01		
Point 16			0.00	-640.41	1,144.61	14,601,328.37	1,646,559.45		
Point 17			0.00	-672.62	1,158.69	14,601,296.16	1,646,573.54		
Point 18			0.00	-705.79	1,170.31	14,601,263.00	1,646,585.17		
Point 19			0.00	-739.73	1,179.42	14,601,229.06	1,646,594.28		
Point 20			0.00	-774.26	1,185.99	14,601,194.53	1,646,600.86		
Point 21			0.00	-809.18	1,189.94	14,601,159.61	1,646,604.82		
Point 22			0.00	-844.31	1,191.27	14,601,124.48	1,646,606.15		
Point 23			0.00	-879.43	1,189.99	14,601,089.36	1,646,604.88		
Point 24			0.00	-914.36	1,186.07	14,601,054.43	1,646,600.97		
Point 25			0.00	-948.90	1,179.55	14,601,019.89	1,646,594.45		
Point 26			0.00	-982.85	1,170.47	14,600,985.94	1,646,585.38		
Point 27			0.00	-1,016.04	1,158.89	14,600,952.74	1,646,573.81		
Point 28			0.00	-1,048.25	1,144.85	14,600,920.53	1,646,559.77		
Point 29			0.00	-1,079.34	1,128.45	14,600,889.44	1,646,543.38		
Point 30			0.00	-1,109.12	1,109.77	14,600,859.65	1,646,524.71		
Point 31			0.00	-1,137.40	1,088.91	14,600,831.37	1,646,503.85		
Point 32			0.00	-1,164.06	1,066.00	14,600,804.70	1,646,480.95		
Point 33			0.00	-1,188.92	1,041.16	14,600,779.84	1,646,456.11		
Point 34			0.00	-1,211.87	1,014.54	14,600,756.88	1,646,429.50		
Point 35			0.00	-1,232.76	986.26	14,600,735.99	1,646,401.22		
Point 36			0.00	-1,251.48	956.52	14,600,717.26	1,646,371.49		
Point 37			0.00	-1,267.92	925.46	14,600,700.82	1,646,340.43		
Point 38			0.00	-1,281.99	893.24	14,600,686.74	1,646,308.21		
Point 39			0.00	-1,293.62	860.08	14,600,675.10	1,646,275.05		
Point 40			0.00	-1,302.74	826.14	14,600,665.98	1,646,241.12		
Point 41			0.00	-1,309.29	791.61	14,600,659.42	1,646,206.59		
Point 42			0.00	-1,313.25	756.68	14,600,655.45	1,646,171.66		
Point 43			0.00	-1,314.60	721.19	14,600,654.10	1,646,136.17		
Point 44			0.00	-1,313.29	686.44	14,600,655.40	1,646,101.42		
Point 45			0.00	-1,309.38	651.51	14,600,659.30	1,646,066.49		

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 46	0.00	-1,302.86	616.97	14,600,665.81	1,646,031.95
Point 47	0.00	-1,293.78	583.01	14,600,674.89	1,645,997.98
Point 48	0.00	-1,282.19	549.83	14,600,686.47	1,645,964.80
Point 49	0.00	-1,268.16	517.61	14,600,700.49	1,645,932.58
Point 50	0.00	-1,251.75	486.53	14,600,716.90	1,645,901.50
Point 51	0.00	-1,233.08	456.75	14,600,735.56	1,645,871.71
Point 52	0.00	-1,212.22	428.47	14,600,756.42	1,645,843.43
Point 53	0.00	-1,189.30	401.81	14,600,779.33	1,645,816.76
Point 54	0.00	-1,164.47	376.94	14,600,804.16	1,645,791.89
Point 55	0.00	-1,137.85	354.00	14,600,830.77	1,645,768.94
Point 56	0.00	-1,109.57	333.11	14,600,859.05	1,645,748.05
Point 57	0.00	-1,079.83	314.40	14,600,888.78	1,645,729.33
Point 58	0.00	-1,048.76	297.95	14,600,919.85	1,645,712.87
Point 59	0.00	-1,016.56	283.88	14,600,952.05	1,645,698.80
Point 60	0.00	-983.39	272.25	14,600,985.21	1,645,687.16
Point 61	0.00	-949.45	263.13	14,601,019.15	1,645,678.03
Point 62	0.00	-914.92	256.58	14,601,053.68	1,645,671.48
Point 63	0.00	-879.98	252.63	14,601,088.62	1,645,667.52
Point 64	0.00	-844.86	251.29	14,601,123.74	1,645,666.17
Point 65	0.00	-809.74	252.58	14,601,158.86	1,645,667.46
Point 66	0.00	-774.82	256.50	14,601,193.78	1,645,671.37
Point 67	0.00	-740.28	263.01	14,601,228.32	1,645,677.87
Point 68	0.00	-706.32	272.09	14,601,262.28	1,645,686.95
Point 69	0.00	-673.14	283.68	14,601,295.47	1,645,698.53
Point 70	0.00	-640.91	297.71	14,601,327.70	1,645,712.55
Point 71	0.00	-609.84	314.12	14,601,358.77	1,645,728.96
Point 72	0.00	-580.06	332.80	14,601,388.56	1,645,747.63
Point 73	0.00	-551.78	353.65	14,601,416.84	1,645,768.47
Point 74	0.00	-525.12	376.57	14,601,443.51	1,645,791.39
Point 75	0.00	-500.24	401.40	14,601,468.39	1,645,816.21
Point 76	0.00	-477.31	428.03	14,601,491.33	1,645,842.84
Point 77	0.00	-456.42	456.29	14,601,512.22	1,645,871.10
Point 78	0.00	-437.70	486.04	14,601,530.95	1,645,900.84
Point 79	0.00	-421.26	517.11	14,601,547.39	1,645,931.91
Point 80	0.00	-407.18	549.31	14,601,561.48	1,645,964.11
Point 81	0.00	-395.56	582.48	14,601,573.11	1,645,997.27
Point 82	0.00	-386.44	616.43	14,601,582.23	1,646,031.22
Point 83	0.00	-379.89	650.96	14,601,588.79	1,646,065.75
Point 84	0.00	-375.93	685.88	14,601,592.76	1,646,100.67
Point 85	0.00	-374.60	721.00	14,601,594.10	1,646,135.79
Point 86	0.00	-394.58	721.74	14,601,574.12	1,646,136.53
Point 87	0.00	-395.80	688.11	14,601,572.89	1,646,102.90
Point 88	0.00	-399.54	654.67	14,601,569.14	1,646,069.46
Point 89	0.00	-405.76	621.60	14,601,562.92	1,646,036.40
Point 90	0.00	-414.43	589.08	14,601,554.24	1,646,003.88
Point 91	0.00	-425.52	557.31	14,601,543.14	1,645,972.11
Point 92	0.00	-438.94	526.44	14,601,529.72	1,645,941.24
Point 93	0.00	-454.63	496.68	14,601,514.02	1,645,911.49
Point 94	0.00	-472.52	468.17	14,601,496.12	1,645,882.98
Point 95	0.00	-492.47	441.07	14,601,476.17	1,645,855.88
Point 96	0.00	-514.40	415.54	14,601,454.23	1,645,830.36
Point 97	0.00	-538.16	391.71	14,601,430.47	1,645,806.53
Point 98	0.00	-563.65	369.74	14,601,404.97	1,645,784.57
Point 99	0.00	-590.70	349.73	14,601,377.92	1,645,764.56
Point 100	0.00	-619.18	331.80	14,601,349.44	1,645,746.64
Point 101	0.00	-648.92	316.04	14,601,319.69	1,645,730.88
Point 102	0.00	-679.75	302.56	14,601,288.86	1,645,717.41
Point 103	0.00	-711.50	291.40	14,601,257.11	1,645,706.26
Point 104	0.00	-744.00	282.66	14,601,224.61	1,645,697.52
Point 105	0.00	-777.06	276.37	14,601,191.55	1,645,691.24
Point 106	0.00	-810.50	272.57	14,601,158.10	1,645,687.45
Point 107	0.00	-844.13	271.27	14,601,124.47	1,645,686.15
Point 108	0.00	-877.76	272.50	14,601,090.84	1,645,687.39
Point 109	0.00	-911.20	276.23	14,601,057.41	1,645,691.13

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 110	0.00	-944.27	282.45	14,601,024.34	1,645,697.35				
Point 111	0.00	-976.78	291.13	14,600,991.83	1,645,706.04				
Point 112	0.00	-1,008.56	302.21	14,600,960.05	1,645,717.13				
Point 113	0.00	-1,039.42	315.63	14,600,929.19	1,645,730.55				
Point 114	0.00	-1,069.19	331.33	14,600,899.43	1,645,746.26				
Point 115	0.00	-1,097.70	349.20	14,600,870.92	1,645,764.13				
Point 116	0.00	-1,124.80	369.17	14,600,843.82	1,645,784.11				
Point 117	0.00	-1,150.33	391.09	14,600,818.30	1,645,806.04				
Point 118	0.00	-1,174.15	414.86	14,600,794.48	1,645,829.81				
Point 119	0.00	-1,196.13	440.34	14,600,772.51	1,645,855.29				
Point 120	0.00	-1,216.14	467.40	14,600,752.50	1,645,882.36				
Point 121	0.00	-1,234.07	495.87	14,600,734.58	1,645,910.83				
Point 122	0.00	-1,249.83	525.61	14,600,718.83	1,645,940.58				
Point 123	0.00	-1,263.32	556.44	14,600,705.34	1,645,971.41				
Point 124	0.00	-1,274.46	588.20	14,600,694.21	1,646,003.17				
Point 125	0.00	-1,283.21	620.69	14,600,685.46	1,646,035.66				
Point 126	0.00	-1,289.50	653.75	14,600,679.18	1,646,068.72				
Point 127	0.00	-1,293.30	687.19	14,600,675.39	1,646,102.16				
Point 128	0.00	-1,294.58	721.19	14,600,674.12	1,646,136.16				
Point 129	0.00	-1,293.38	754.45	14,600,675.32	1,646,169.42				
Point 130	0.00	-1,289.64	787.89	14,600,679.07	1,646,202.86				
Point 131	0.00	-1,283.42	820.96	14,600,685.30	1,646,235.93				
Point 132	0.00	-1,274.74	853.48	14,600,693.98	1,646,268.45				
Point 133	0.00	-1,263.66	885.26	14,600,705.07	1,646,300.23				
Point 134	0.00	-1,250.23	916.11	14,600,718.50	1,646,331.08				
Point 135	0.00	-1,234.53	945.88	14,600,734.21	1,646,360.84				
Point 136	0.00	-1,216.66	974.40	14,600,752.09	1,646,389.36				
Point 137	0.00	-1,196.71	1,001.49	14,600,772.04	1,646,416.44				
Point 138	0.00	-1,174.78	1,027.03	14,600,793.98	1,646,441.98				
Point 139	0.00	-1,151.02	1,050.84	14,600,817.74	1,646,465.79				
Point 140	0.00	-1,125.53	1,072.83	14,600,843.24	1,646,487.77				
Point 141	0.00	-1,098.47	1,092.83	14,600,870.30	1,646,507.76				
Point 142	0.00	-1,070.00	1,110.77	14,600,898.77	1,646,525.70				
Point 143	0.00	-1,040.26	1,126.52	14,600,928.52	1,646,541.44				
Point 144	0.00	-1,009.42	1,140.01	14,600,959.36	1,646,554.93				
Point 145	0.00	-977.68	1,151.16	14,600,991.10	1,646,566.07				
Point 146	0.00	-945.18	1,159.90	14,601,023.60	1,646,574.80				
Point 147	0.00	-912.12	1,166.19	14,601,056.66	1,646,581.09				
Point 148	0.00	-878.68	1,170.00	14,601,090.11	1,646,584.89				
Point 149	0.00	-845.05	1,171.29	14,601,123.74	1,646,586.17				
Point 150	0.00	-811.42	1,170.07	14,601,157.37	1,646,584.95				
Point 151	0.00	-777.98	1,166.34	14,601,190.80	1,646,581.21				
Point 152	0.00	-744.91	1,160.11	14,601,223.87	1,646,574.97				
Point 153	0.00	-712.39	1,151.43	14,601,256.39	1,646,566.29				
Point 154	0.00	-680.61	1,140.36	14,601,288.17	1,646,555.21				
Point 155	0.00	-649.76	1,126.92	14,601,319.02	1,646,541.76				
Point 156	0.00	-619.99	1,111.23	14,601,348.78	1,646,526.07				
Point 157	0.00	-591.47	1,093.35	14,601,377.30	1,646,508.18				
Point 158	0.00	-564.38	1,073.40	14,601,404.39	1,646,488.23				
Point 159	0.00	-538.85	1,051.47	14,601,429.91	1,646,466.29				
Point 160	0.00	-515.02	1,027.71	14,601,453.74	1,646,442.53				
Point 161	0.00	-493.05	1,002.22	14,601,475.70	1,646,417.03				
Point 162	0.00	-473.04	975.17	14,601,495.71	1,646,389.98				
Point 163	0.00	-455.10	946.69	14,601,513.64	1,646,361.50				
Point 164	0.00	-439.35	916.95	14,601,529.38	1,646,331.75				
Point 165	0.00	-425.86	886.12	14,601,542.87	1,646,300.92				
Point 166	0.00	-414.71	854.37	14,601,554.01	1,646,269.17				
Point 167	0.00	-405.97	821.87	14,601,562.75	1,646,236.67				
Point 168	0.00	-399.67	788.81	14,601,569.04	1,646,203.60				
Point 169	0.00	-395.88	755.37	14,601,572.82	1,646,170.16				
Point 170	0.00	-394.58	720.99	14,601,574.12	1,646,135.78				
Point 171	0.00	-374.60	721.75	14,601,594.10	1,646,136.54				
HILGERS 41N-26HZ_4E	0.00	0.00	0.00	-818.83	3,376.54	14,601,150.40	1,648,776.34	40.204356	-104.970060

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

- plan misses target center by 3474.40usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Circle (radius 460.00)									
HILGERS 41N-26HZ_Sf	0.00	0.00	0.00	0.00	0.00	14,601,968.55	1,645,399.64	40.206605	-104.982153
- plan hits target center									
- Point									
HILGERS 41N-26HZ_46	0.00	0.00	0.00	0.00	15.08	14,601,968.55	1,645,414.71	40.206605	-104.982099
- plan misses target center by 15.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1	0.00	-361.70	2,041.67	14,601,607.26	1,647,456.46				
Point 2	0.00	-362.10	2,060.81	14,601,606.86	1,647,475.60				
Point 3	0.00	-363.31	2,080.32	14,601,605.66	1,647,495.11				
Point 4	0.00	-365.34	2,099.78	14,601,603.63	1,647,514.57				
Point 5	0.00	-368.17	2,119.13	14,601,600.81	1,647,533.92				
Point 6	0.00	-371.81	2,138.34	14,601,597.17	1,647,553.13				
Point 7	0.00	-376.24	2,157.39	14,601,592.74	1,647,572.18				
Point 8	0.00	-381.46	2,176.23	14,601,587.53	1,647,591.02				
Point 9	0.00	-387.46	2,194.84	14,601,581.53	1,647,609.63				
Point 10	0.00	-394.23	2,213.19	14,601,574.77	1,647,627.98				
Point 11	0.00	-401.75	2,231.24	14,601,567.25	1,647,646.03				
Point 12	0.00	-410.03	2,248.96	14,601,558.97	1,647,663.76				
Point 13	0.00	-419.02	2,266.32	14,601,549.99	1,647,681.12				
Point 14	0.00	-428.74	2,283.30	14,601,540.27	1,647,698.10				
Point 15	0.00	-439.15	2,299.84	14,601,529.86	1,647,714.64				
Point 16	0.00	-450.24	2,315.95	14,601,518.78	1,647,730.75				
Point 17	0.00	-461.99	2,331.58	14,601,507.03	1,647,746.39				
Point 18	0.00	-474.39	2,346.71	14,601,494.63	1,647,761.52				
Point 19	0.00	-487.40	2,361.30	14,601,481.62	1,647,776.11				
Point 20	0.00	-501.00	2,375.35	14,601,468.03	1,647,790.16				
Point 21	0.00	-515.19	2,388.82	14,601,453.84	1,647,803.64				
Point 22	0.00	-529.92	2,401.69	14,601,439.11	1,647,816.51				
Point 23	0.00	-545.16	2,413.92	14,601,423.88	1,647,828.74				
Point 24	0.00	-560.91	2,425.52	14,601,408.13	1,647,840.35				
Point 25	0.00	-577.13	2,436.46	14,601,391.91	1,647,851.29				
Point 26	0.00	-593.78	2,446.70	14,601,375.26	1,647,861.53				
Point 27	0.00	-610.85	2,456.25	14,601,358.19	1,647,871.09				
Point 28	0.00	-628.30	2,465.08	14,601,340.75	1,647,879.92				
Point 29	0.00	-646.10	2,473.17	14,601,322.95	1,647,888.01				
Point 30	0.00	-664.22	2,480.52	14,601,304.83	1,647,895.37				
Point 31	0.00	-682.64	2,487.11	14,601,286.41	1,647,901.96				
Point 32	0.00	-701.31	2,492.92	14,601,267.74	1,647,907.77				
Point 33	0.00	-720.20	2,497.95	14,601,248.85	1,647,912.81				
Point 34	0.00	-739.29	2,502.19	14,601,229.76	1,647,917.05				
Point 35	0.00	-758.54	2,505.64	14,601,210.51	1,647,920.51				
Point 36	0.00	-777.92	2,508.28	14,601,191.13	1,647,923.15				
Point 37	0.00	-797.39	2,510.11	14,601,171.66	1,647,924.98				
Point 38	0.00	-816.91	2,511.14	14,601,152.15	1,647,926.02				
Point 39	0.00	-836.47	2,511.34	14,601,132.59	1,647,926.22				
Point 40	0.00	-856.02	2,510.74	14,601,113.04	1,647,925.63				
Point 41	0.00	-875.52	2,509.32	14,601,093.53	1,647,924.21				
Point 42	0.00	-894.95	2,507.09	14,601,074.10	1,647,921.98				
Point 43	0.00	-914.27	2,504.06	14,601,054.78	1,647,918.96				
Point 44	0.00	-933.44	2,500.22	14,601,035.61	1,647,915.12				
Point 45	0.00	-952.44	2,495.59	14,601,016.61	1,647,910.50				
Point 46	0.00	-971.24	2,490.18	14,600,997.81	1,647,905.09				
Point 47	0.00	-989.78	2,483.98	14,600,979.27	1,647,898.89				
Point 48	0.00	-1,008.05	2,477.02	14,600,961.00	1,647,891.94				
Point 49	0.00	-1,026.02	2,469.31	14,600,943.03	1,647,884.23				
Point 50	0.00	-1,043.66	2,460.85	14,600,925.38	1,647,875.77				
Point 51	0.00	-1,060.93	2,451.68	14,600,908.11	1,647,866.61				
Point 52	0.00	-1,077.80	2,441.79	14,600,891.24	1,647,856.72				
Point 53	0.00	-1,094.23	2,431.20	14,600,874.81	1,647,846.13				
Point 54	0.00	-1,110.23	2,419.94	14,600,858.81	1,647,834.88				
Point 55	0.00	-1,125.74	2,408.03	14,600,843.29	1,647,822.97				

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 56	0.00	-1,140.74	2,395.47	14,600,828.29	1,647,810.41
Point 57	0.00	-1,155.19	2,382.32	14,600,813.84	1,647,797.27
Point 58	0.00	-1,169.10	2,368.57	14,600,799.93	1,647,783.52
Point 59	0.00	-1,182.42	2,354.24	14,600,786.60	1,647,769.19
Point 60	0.00	-1,195.13	2,339.38	14,600,773.89	1,647,754.33
Point 61	0.00	-1,207.21	2,324.01	14,600,761.81	1,647,738.97
Point 62	0.00	-1,218.64	2,308.14	14,600,750.37	1,647,723.10
Point 63	0.00	-1,229.41	2,291.82	14,600,739.60	1,647,706.78
Point 64	0.00	-1,239.48	2,275.05	14,600,729.53	1,647,690.01
Point 65	0.00	-1,248.85	2,257.89	14,600,720.15	1,647,672.85
Point 66	0.00	-1,257.50	2,240.35	14,600,711.50	1,647,655.32
Point 67	0.00	-1,265.40	2,222.46	14,600,703.60	1,647,637.43
Point 68	0.00	-1,272.56	2,204.27	14,600,696.43	1,647,619.24
Point 69	0.00	-1,278.95	2,185.79	14,600,690.04	1,647,600.76
Point 70	0.00	-1,284.57	2,167.05	14,600,684.42	1,647,582.02
Point 71	0.00	-1,289.41	2,148.10	14,600,679.57	1,647,563.07
Point 72	0.00	-1,293.45	2,128.97	14,600,675.53	1,647,543.94
Point 73	0.00	-1,296.70	2,109.69	14,600,672.27	1,647,524.66
Point 74	0.00	-1,299.14	2,090.28	14,600,669.83	1,647,505.26
Point 75	0.00	-1,300.77	2,070.80	14,600,668.20	1,647,485.78
Point 76	0.00	-1,301.60	2,051.05	14,600,667.36	1,647,466.03
Point 77	0.00	-1,301.59	2,031.70	14,600,667.37	1,647,446.68
Point 78	0.00	-1,300.78	2,012.17	14,600,668.17	1,647,427.15
Point 79	0.00	-1,299.17	1,992.68	14,600,669.78	1,647,407.66
Point 80	0.00	-1,296.73	1,973.27	14,600,672.22	1,647,388.24
Point 81	0.00	-1,293.50	1,953.99	14,600,675.44	1,647,368.96
Point 82	0.00	-1,289.46	1,934.85	14,600,679.48	1,647,349.82
Point 83	0.00	-1,284.63	1,915.90	14,600,684.31	1,647,330.87
Point 84	0.00	-1,279.03	1,897.17	14,600,689.90	1,647,312.14
Point 85	0.00	-1,272.64	1,878.69	14,600,696.29	1,647,293.66
Point 86	0.00	-1,265.49	1,860.49	14,600,703.43	1,647,275.46
Point 87	0.00	-1,257.59	1,842.60	14,600,711.33	1,647,257.57
Point 88	0.00	-1,248.95	1,825.05	14,600,719.97	1,647,240.01
Point 89	0.00	-1,239.59	1,807.88	14,600,729.32	1,647,222.84
Point 90	0.00	-1,229.53	1,791.11	14,600,739.38	1,647,206.07
Point 91	0.00	-1,218.77	1,774.79	14,600,750.14	1,647,189.75
Point 92	0.00	-1,207.35	1,758.91	14,600,761.55	1,647,173.87
Point 93	0.00	-1,195.28	1,743.53	14,600,773.62	1,647,158.48
Point 94	0.00	-1,182.57	1,728.66	14,600,786.33	1,647,143.61
Point 95	0.00	-1,169.26	1,714.34	14,600,799.63	1,647,129.29
Point 96	0.00	-1,155.36	1,700.58	14,600,813.53	1,647,115.53
Point 97	0.00	-1,140.90	1,687.41	14,600,827.99	1,647,102.35
Point 98	0.00	-1,125.91	1,674.86	14,600,842.98	1,647,089.80
Point 99	0.00	-1,110.41	1,662.93	14,600,858.47	1,647,077.87
Point 100	0.00	-1,094.43	1,651.66	14,600,874.45	1,647,066.59
Point 101	0.00	-1,077.98	1,641.08	14,600,890.90	1,647,056.01
Point 102	0.00	-1,061.12	1,631.17	14,600,907.76	1,647,046.10
Point 103	0.00	-1,043.86	1,621.98	14,600,925.02	1,647,036.90
Point 104	0.00	-1,026.23	1,613.53	14,600,942.64	1,647,028.45
Point 105	0.00	-1,008.27	1,605.80	14,600,960.60	1,647,020.72
Point 106	0.00	-990.00	1,598.83	14,600,978.87	1,647,013.74
Point 107	0.00	-971.44	1,592.63	14,600,997.43	1,647,007.54
Point 108	0.00	-952.66	1,587.20	14,601,016.21	1,647,002.11
Point 109	0.00	-933.66	1,582.56	14,601,035.21	1,646,997.46
Point 110	0.00	-914.49	1,578.72	14,601,054.38	1,646,993.62
Point 111	0.00	-895.17	1,575.68	14,601,073.70	1,646,990.57
Point 112	0.00	-875.74	1,573.44	14,601,093.13	1,646,988.33
Point 113	0.00	-856.24	1,572.01	14,601,112.63	1,646,986.90
Point 114	0.00	-836.69	1,571.39	14,601,132.18	1,646,986.27
Point 115	0.00	-817.14	1,571.60	14,601,151.73	1,646,986.48
Point 116	0.00	-797.61	1,572.61	14,601,171.26	1,646,987.48
Point 117	0.00	-778.14	1,574.44	14,601,190.73	1,646,989.31
Point 118	0.00	-758.76	1,577.06	14,601,210.11	1,646,991.93
Point 119	0.00	-739.51	1,580.50	14,601,229.36	1,646,995.36

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 120	0.00	-720.42	1,584.74	14,601,248.45	1,646,999.60
Point 121	0.00	-701.52	1,589.76	14,601,267.35	1,647,004.61
Point 122	0.00	-682.85	1,595.57	14,601,286.02	1,647,010.42
Point 123	0.00	-664.44	1,602.14	14,601,304.43	1,647,016.99
Point 124	0.00	-646.31	1,609.48	14,601,322.56	1,647,024.32
Point 125	0.00	-628.50	1,617.57	14,601,340.38	1,647,032.41
Point 126	0.00	-611.04	1,626.38	14,601,357.84	1,647,041.22
Point 127	0.00	-593.97	1,635.92	14,601,374.91	1,647,050.75
Point 128	0.00	-577.32	1,646.16	14,601,391.56	1,647,060.99
Point 129	0.00	-561.10	1,657.08	14,601,407.78	1,647,071.91
Point 130	0.00	-545.34	1,668.67	14,601,423.55	1,647,083.49
Point 131	0.00	-530.08	1,680.91	14,601,438.81	1,647,095.73
Point 132	0.00	-515.36	1,693.77	14,601,453.53	1,647,108.59
Point 133	0.00	-501.17	1,707.22	14,601,467.72	1,647,122.03
Point 134	0.00	-487.55	1,721.26	14,601,481.35	1,647,136.07
Point 135	0.00	-474.53	1,735.86	14,601,494.37	1,647,150.67
Point 136	0.00	-462.14	1,750.98	14,601,506.76	1,647,165.79
Point 137	0.00	-450.38	1,766.60	14,601,518.53	1,647,181.40
Point 138	0.00	-439.27	1,782.70	14,601,529.64	1,647,197.50
Point 139	0.00	-428.86	1,799.26	14,601,540.05	1,647,214.06
Point 140	0.00	-419.13	1,816.22	14,601,549.79	1,647,231.02
Point 141	0.00	-410.12	1,833.58	14,601,558.80	1,647,248.38
Point 142	0.00	-401.85	1,851.29	14,601,567.07	1,647,266.08
Point 143	0.00	-394.31	1,869.33	14,601,574.62	1,647,284.12
Point 144	0.00	-387.53	1,887.68	14,601,581.40	1,647,302.47
Point 145	0.00	-381.53	1,906.29	14,601,587.40	1,647,321.08
Point 146	0.00	-376.29	1,925.14	14,601,592.65	1,647,339.93
Point 147	0.00	-371.86	1,944.18	14,601,597.08	1,647,358.97
Point 148	0.00	-368.21	1,963.39	14,601,600.73	1,647,378.18
Point 149	0.00	-365.36	1,982.74	14,601,603.59	1,647,397.53
Point 150	0.00	-363.33	2,002.19	14,601,605.62	1,647,416.98
Point 151	0.00	-362.11	2,021.70	14,601,606.85	1,647,436.49
Point 152	0.00	-361.70	2,041.26	14,601,607.26	1,647,456.05
Point 153	0.00	-381.70	2,041.67	14,601,587.26	1,647,456.46
Point 154	0.00	-382.07	2,022.95	14,601,586.89	1,647,437.74
Point 155	0.00	-383.23	2,004.26	14,601,585.72	1,647,419.05
Point 156	0.00	-385.15	1,985.64	14,601,583.80	1,647,400.43
Point 157	0.00	-387.86	1,967.10	14,601,581.09	1,647,381.89
Point 158	0.00	-391.34	1,948.71	14,601,577.60	1,647,363.50
Point 159	0.00	-395.57	1,930.47	14,601,573.37	1,647,345.26
Point 160	0.00	-400.56	1,912.42	14,601,568.37	1,647,327.21
Point 161	0.00	-406.30	1,894.60	14,601,562.63	1,647,309.40
Point 162	0.00	-412.77	1,877.04	14,601,556.16	1,647,291.84
Point 163	0.00	-419.97	1,859.75	14,601,548.95	1,647,274.55
Point 164	0.00	-427.88	1,842.78	14,601,541.04	1,647,257.58
Point 165	0.00	-436.49	1,826.15	14,601,532.43	1,647,240.95
Point 166	0.00	-445.79	1,809.90	14,601,523.12	1,647,224.70
Point 167	0.00	-455.75	1,794.05	14,601,513.16	1,647,208.86
Point 168	0.00	-466.36	1,778.63	14,601,502.55	1,647,193.44
Point 169	0.00	-477.61	1,763.66	14,601,491.29	1,647,178.47
Point 170	0.00	-489.47	1,749.16	14,601,479.43	1,647,163.97
Point 171	0.00	-501.91	1,735.18	14,601,466.99	1,647,149.99
Point 172	0.00	-514.94	1,721.73	14,601,453.96	1,647,136.55
Point 173	0.00	-528.51	1,708.83	14,601,440.38	1,647,123.65
Point 174	0.00	-542.61	1,696.50	14,601,426.28	1,647,111.32
Point 175	0.00	-557.20	1,684.78	14,601,411.69	1,647,099.61
Point 176	0.00	-572.27	1,673.67	14,601,396.62	1,647,088.50
Point 177	0.00	-587.80	1,663.19	14,601,381.08	1,647,078.02
Point 178	0.00	-603.74	1,653.38	14,601,365.14	1,647,068.22
Point 179	0.00	-620.08	1,644.23	14,601,348.80	1,647,059.07
Point 180	0.00	-636.77	1,635.77	14,601,332.11	1,647,050.61
Point 181	0.00	-653.82	1,628.01	14,601,315.06	1,647,042.86
Point 182	0.00	-671.17	1,620.97	14,601,297.71	1,647,035.82
Point 183	0.00	-688.80	1,614.65	14,601,280.07	1,647,029.50

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 184	0.00	-706.67	1,609.08	14,601,262.20	1,647,023.94
Point 185	0.00	-724.76	1,604.26	14,601,244.11	1,647,019.12
Point 186	0.00	-743.04	1,600.18	14,601,225.83	1,647,015.04
Point 187	0.00	-761.47	1,596.88	14,601,207.40	1,647,011.75
Point 188	0.00	-780.02	1,594.35	14,601,188.85	1,647,009.22
Point 189	0.00	-798.65	1,592.58	14,601,170.22	1,647,007.45
Point 190	0.00	-817.35	1,591.60	14,601,151.52	1,647,006.48
Point 191	0.00	-836.07	1,591.38	14,601,132.80	1,647,006.26
Point 192	0.00	-854.79	1,591.96	14,601,114.08	1,647,006.85
Point 193	0.00	-873.47	1,593.31	14,601,095.40	1,647,008.20
Point 194	0.00	-892.07	1,595.43	14,601,076.80	1,647,010.32
Point 195	0.00	-910.57	1,598.33	14,601,058.30	1,647,013.23
Point 196	0.00	-928.93	1,602.00	14,601,039.94	1,647,016.90
Point 197	0.00	-947.12	1,606.42	14,601,021.75	1,647,021.32
Point 198	0.00	-965.11	1,611.60	14,601,003.76	1,647,026.51
Point 199	0.00	-982.88	1,617.52	14,600,986.00	1,647,032.43
Point 200	0.00	-1,000.37	1,624.18	14,600,968.51	1,647,039.09
Point 201	0.00	-1,017.58	1,631.56	14,600,951.30	1,647,046.48
Point 202	0.00	-1,034.47	1,639.64	14,600,934.41	1,647,054.56
Point 203	0.00	-1,051.01	1,648.43	14,600,917.87	1,647,063.36
Point 204	0.00	-1,067.16	1,657.89	14,600,901.72	1,647,072.82
Point 205	0.00	-1,082.91	1,668.01	14,600,885.98	1,647,082.94
Point 206	0.00	-1,098.22	1,678.79	14,600,870.67	1,647,093.72
Point 207	0.00	-1,113.07	1,690.19	14,600,855.82	1,647,105.13
Point 208	0.00	-1,127.44	1,702.21	14,600,841.45	1,647,117.15
Point 209	0.00	-1,141.29	1,714.79	14,600,827.60	1,647,129.73
Point 210	0.00	-1,154.61	1,727.96	14,600,814.29	1,647,142.91
Point 211	0.00	-1,167.37	1,741.67	14,600,801.53	1,647,156.62
Point 212	0.00	-1,179.55	1,755.89	14,600,789.35	1,647,170.84
Point 213	0.00	-1,191.12	1,770.60	14,600,777.79	1,647,185.55
Point 214	0.00	-1,202.07	1,785.79	14,600,766.84	1,647,200.75
Point 215	0.00	-1,212.39	1,801.42	14,600,756.52	1,647,216.38
Point 216	0.00	-1,222.04	1,817.46	14,600,746.88	1,647,232.42
Point 217	0.00	-1,231.01	1,833.89	14,600,737.91	1,647,248.85
Point 218	0.00	-1,239.30	1,850.68	14,600,729.62	1,647,265.64
Point 219	0.00	-1,246.88	1,867.80	14,600,722.05	1,647,282.76
Point 220	0.00	-1,253.73	1,885.23	14,600,715.20	1,647,300.20
Point 221	0.00	-1,259.87	1,902.92	14,600,709.06	1,647,317.89
Point 222	0.00	-1,265.25	1,920.85	14,600,703.69	1,647,335.82
Point 223	0.00	-1,269.89	1,938.99	14,600,699.05	1,647,353.96
Point 224	0.00	-1,273.78	1,957.31	14,600,695.16	1,647,372.28
Point 225	0.00	-1,276.89	1,975.77	14,600,692.06	1,647,390.74
Point 226	0.00	-1,279.24	1,994.34	14,600,689.71	1,647,409.31
Point 227	0.00	-1,280.80	2,013.00	14,600,688.15	1,647,427.97
Point 228	0.00	-1,281.59	2,031.70	14,600,687.37	1,647,446.67
Point 229	0.00	-1,281.60	2,050.64	14,600,687.36	1,647,465.61
Point 230	0.00	-1,280.84	2,069.14	14,600,688.13	1,647,484.11
Point 231	0.00	-1,279.29	2,087.79	14,600,689.68	1,647,502.76
Point 232	0.00	-1,276.98	2,106.38	14,600,691.99	1,647,521.35
Point 233	0.00	-1,273.88	2,124.85	14,600,695.10	1,647,539.82
Point 234	0.00	-1,270.03	2,143.17	14,600,698.95	1,647,558.14
Point 235	0.00	-1,265.42	2,161.32	14,600,703.56	1,647,576.29
Point 236	0.00	-1,260.05	2,179.25	14,600,708.94	1,647,594.22
Point 237	0.00	-1,253.95	2,196.95	14,600,715.04	1,647,611.92
Point 238	0.00	-1,247.11	2,214.38	14,600,721.89	1,647,629.34
Point 239	0.00	-1,239.55	2,231.51	14,600,729.45	1,647,646.47
Point 240	0.00	-1,231.29	2,248.31	14,600,737.71	1,647,663.27
Point 241	0.00	-1,222.33	2,264.76	14,600,746.68	1,647,679.72
Point 242	0.00	-1,212.70	2,280.82	14,600,756.31	1,647,695.78
Point 243	0.00	-1,202.41	2,296.46	14,600,766.60	1,647,711.42
Point 244	0.00	-1,191.48	2,311.65	14,600,777.53	1,647,726.60
Point 245	0.00	-1,179.92	2,326.39	14,600,789.10	1,647,741.34
Point 246	0.00	-1,167.77	2,340.63	14,600,801.25	1,647,755.58
Point 247	0.00	-1,155.03	2,354.35	14,600,813.99	1,647,769.30

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 248	0.00	-1,141.73	2,367.53	14,600,827.30	1,647,782.47			
Point 249	0.00	-1,127.89	2,380.15	14,600,841.14	1,647,795.09			
Point 250	0.00	-1,113.55	2,392.17	14,600,855.48	1,647,807.11			
Point 251	0.00	-1,098.71	2,403.59	14,600,870.32	1,647,818.52			
Point 252	0.00	-1,083.41	2,414.38	14,600,885.63	1,647,829.31			
Point 253	0.00	-1,067.67	2,424.54	14,600,901.37	1,647,839.47			
Point 254	0.00	-1,051.52	2,434.02	14,600,917.52	1,647,848.95			
Point 255	0.00	-1,035.01	2,442.82	14,600,934.03	1,647,857.74			
Point 256	0.00	-1,018.13	2,450.94	14,600,950.91	1,647,865.86			
Point 257	0.00	-1,000.93	2,458.33	14,600,968.11	1,647,873.25			
Point 258	0.00	-983.44	2,465.01	14,600,985.61	1,647,879.92			
Point 259	0.00	-965.68	2,470.96	14,601,003.37	1,647,885.87			
Point 260	0.00	-947.69	2,476.16	14,601,021.36	1,647,891.06			
Point 261	0.00	-929.51	2,480.62	14,601,039.54	1,647,895.52			
Point 262	0.00	-911.15	2,484.30	14,601,057.90	1,647,899.20			
Point 263	0.00	-892.66	2,487.22	14,601,076.39	1,647,902.11			
Point 264	0.00	-874.06	2,489.38	14,601,094.99	1,647,904.27			
Point 265	0.00	-855.39	2,490.75	14,601,113.66	1,647,905.64			
Point 266	0.00	-836.68	2,491.34	14,601,132.37	1,647,906.22			
Point 267	0.00	-817.95	2,491.16	14,601,151.10	1,647,906.04			
Point 268	0.00	-799.26	2,490.20	14,601,169.79	1,647,905.07			
Point 269	0.00	-780.61	2,488.47	14,601,188.44	1,647,903.34			
Point 270	0.00	-762.06	2,485.95	14,601,206.99	1,647,900.82			
Point 271	0.00	-743.62	2,482.67	14,601,225.43	1,647,897.53			
Point 272	0.00	-725.34	2,478.63	14,601,243.71	1,647,893.49			
Point 273	0.00	-707.24	2,473.82	14,601,261.81	1,647,888.68			
Point 274	0.00	-689.36	2,468.27	14,601,279.69	1,647,883.12			
Point 275	0.00	-671.73	2,461.98	14,601,297.32	1,647,876.83			
Point 276	0.00	-654.37	2,454.96	14,601,314.67	1,647,869.81			
Point 277	0.00	-637.32	2,447.22	14,601,331.72	1,647,862.06			
Point 278	0.00	-620.61	2,438.79	14,601,348.43	1,647,853.63			
Point 279	0.00	-604.25	2,429.66	14,601,364.79	1,647,844.50			
Point 280	0.00	-588.30	2,419.86	14,601,380.74	1,647,834.69			
Point 281	0.00	-572.76	2,409.42	14,601,396.27	1,647,824.25			
Point 282	0.00	-557.68	2,398.32	14,601,411.35	1,647,813.15			
Point 283	0.00	-543.07	2,386.61	14,601,425.96	1,647,801.43			
Point 284	0.00	-528.95	2,374.31	14,601,440.08	1,647,789.13			
Point 285	0.00	-515.37	2,361.43	14,601,453.65	1,647,776.25			
Point 286	0.00	-502.33	2,347.99	14,601,466.69	1,647,762.80			
Point 287	0.00	-489.85	2,334.02	14,601,479.17	1,647,748.83			
Point 288	0.00	-477.98	2,319.56	14,601,491.04	1,647,734.37			
Point 289	0.00	-466.71	2,304.60	14,601,502.30	1,647,719.41			
Point 290	0.00	-456.08	2,289.19	14,601,512.93	1,647,704.00			
Point 291	0.00	-446.09	2,273.35	14,601,522.92	1,647,688.15			
Point 292	0.00	-436.78	2,257.10	14,601,532.22	1,647,671.90			
Point 293	0.00	-428.15	2,240.50	14,601,540.85	1,647,655.30			
Point 294	0.00	-420.21	2,223.54	14,601,548.79	1,647,638.34			
Point 295	0.00	-412.99	2,206.26	14,601,556.00	1,647,621.06			
Point 296	0.00	-406.50	2,188.70	14,601,562.49	1,647,603.50			
Point 297	0.00	-400.73	2,170.88	14,601,568.26	1,647,585.67			
Point 298	0.00	-395.72	2,152.84	14,601,573.26	1,647,567.63			
Point 299	0.00	-391.45	2,134.61	14,601,577.53	1,647,549.40			
Point 300	0.00	-387.96	2,116.21	14,601,581.02	1,647,531.00			
Point 301	0.00	-385.23	2,097.70	14,601,583.74	1,647,512.49			
Point 302	0.00	-383.27	2,079.08	14,601,585.70	1,647,493.87			
Point 303	0.00	-382.09	2,060.39	14,601,586.87	1,647,475.18			
Point 304	0.00	-381.70	2,041.26	14,601,587.26	1,647,456.05			
Point 305	0.00	-361.70	2,041.67	14,601,607.26	1,647,456.46			
HILGERS 41N-26HZ_Hz	0.00	0.00	0.00	15.08	14,601,968.55	1,645,414.71	40.206605	-104.982099
- plan misses target center by 15.08usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)								
- Polygon								
Point 1	0.00	-1,671.26	6,856.15	14,600,298.67	1,652,271.20			
Point 2	0.00	-1,684.68	6,003.44	14,600,285.08	1,651,418.49			

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Point 3	0.00	-1,688.48	4,680.70	14,600,281.01	1,650,095.75				
Point 4	0.00	-1,692.20	3,357.97	14,600,277.03	1,648,773.02				
Point 5	0.00	-1,702.31	2,036.25	14,600,266.65	1,647,451.31				
Point 6	0.00	-1,712.44	714.54	14,600,256.25	1,646,129.60				
Point 7	0.00	-1,725.00	-138.45	14,600,243.52	1,645,276.61				
Point 8	0.00	-1,321.28	-135.90	14,600,647.24	1,645,279.08				
Point 9	0.00	-401.10	-135.55	14,601,567.42	1,645,279.24				
Point 10	0.00	-384.59	719.06	14,601,584.10	1,646,133.85				
Point 11	0.00	-371.71	2,037.24	14,601,597.25	1,647,452.03				
Point 12	0.00	-1,291.74	2,038.66	14,600,677.22	1,647,453.63				
Point 13	0.00	-1,278.84	3,359.63	14,600,690.39	1,648,774.60				
Point 14	0.00	-1,278.55	4,681.95	14,600,690.94	1,650,096.92				
Point 15	0.00	-1,278.30	6,004.27	14,600,691.46	1,651,419.24				
Point 16	0.00	-1,265.90	6,856.53	14,600,704.03	1,652,271.50				
Point 17	0.00	-1,671.26	6,856.15	14,600,298.67	1,652,271.20				
3N-R68W-Sec. 26_Secti	0.00	0.00	0.00	0.36	-89.90	14,601,968.89	1,645,309.73	40.206606	-104.982475
- plan misses target center by 89.90usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1	0.00	-842.64	823.41	14,601,126.42	1,646,133.31				
Point 2	0.00	-816.40	6,107.25	14,601,153.72	1,651,417.15				
Point 3	0.00	-6,122.12	6,096.28	14,595,848.00	1,651,407.24				
Point 4	0.00	-6,154.53	782.53	14,595,814.52	1,646,093.50				
3N-R68W-Sec. 22_Secti	0.00	0.00	15.00	2,787.96	215.24	14,604,756.55	1,645,614.32	40.214261	-104.981382
- plan misses target center by 2796.26usft at 15.00usft MD (15.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1	15.00	1,609.13	-4,756.64	14,606,364.73	1,640,857.36				
Point 2	15.00	1,644.10	-2,132.46	14,606,400.22	1,643,481.53				
Point 3	15.00	1,698.21	493.16	14,606,454.86	1,646,107.14				
Point 4	15.00	-967.02	505.37	14,603,789.63	1,646,119.88				
Point 5	15.00	-3,630.21	518.25	14,601,126.45	1,646,133.30				
Point 6	15.00	-3,681.09	-2,110.42	14,601,075.04	1,643,504.64				
Point 7	15.00	-3,689.13	-4,746.07	14,601,066.47	1,640,868.99				
Point 8	15.00	-1,042.08	-4,750.66	14,603,713.52	1,640,863.87				
HILGERS 41N-26HZ_La	0.00	0.00	7,168.94	-1,253.59	3,275.17	14,600,715.62	1,648,675.06	40.203162	-104.970424
- plan hits target center									
- Point									
HILGERS 41N-26HZ_To	0.00	0.00	7,178.00	-1,370.59	5,865.92	14,600,599.14	1,651,265.83	40.202839	-104.961145
- plan hits target center									
- Point									

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	1,838.66	1,800.00	9 5/8"	9-5/8	13-1/2
	7,690.62	7,160.00	Top of Production	5-1/2	7-7/8

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well HILGERS 41N-26HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 5016.00usft (D Rig)
<b>Site:</b>	3N-68W-22 Hilgers 16-22HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	HILGERS 41N-26HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan A		
<b>Design:</b>	Permit Rev-2		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
316.00	393.00	Fox Hills			
4,315.30	4,233.00	Sussex			
7,233.12	7,078.10	Sharon Springs			
7,362.29	7,153.10	Niobrara Top			
7,515.64	7,212.50	Niobrara B Bench			
7,515.64	7,212.50	Niobrara C Bench			

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.00	250.00	0.00	0.00		Begin Nudge @ 250.00ft
1,450.00	1,430.36	-186.49	13.04		End Nudge @ 1450.00ft
4,210.00	4,055.27	-1,037.30	72.54		Begin Drop @ 4210.00ft
5,110.00	4,940.54	-1,177.18	82.32		End Drop @ 5110.00ft
6,692.84	6,523.38	-1,177.18	82.32		KOP @ 6692.84ft
7,200.00	6,978.58	-1,181.76	273.81		DLS = 9°/100'
7,690.62	7,160.00	-1,192.35	716.53		End Build @ 7690.62ft
10,250.00	7,168.94	-1,253.59	3,275.17		Begin Turn to BHL @ 10250.00ft
10,311.47	7,169.15	-1,255.72	3,336.60		End Turn @ 10311.47ft
12,843.42	7,178.00	-1,370.59	5,865.92		TD Well @ 12843.42ft