

# **US ROCKIES WATTENBERG PLANNING**

**WELD-NAD83-UTMFT13N**

**1N-66W-17 Burough 20-17HZ Pad**

**BUROUGH 27N-17HZ**

**Plan A**

**Plan: Permit Rev-3**

## **Standard Planning Report**

**05 April, 2016**



Azimuths to True North  
Magnetic North: 8.28°

Magnetic Field  
Strength: 52494.2snT  
Dip Angle: 66.61°  
Date: 9/12/2015  
Model: IGRF2010

SITE: 1N-66W-17 Borough 20-17HZ Pad

Well: BURGHO 27N-17HZ  
Wellbore: Plan A  
Design: Permit Rev-3

#### FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1402.00	1419.80	Fox Hills
4582.00	4673.54	Sussex
7144.00	7292.22	Sharon Springs
7165.00	7323.88	Niobrara
7308.00	7675.96	Nio B

#### WELL DETAILS: BURGHO 27N-17HZ

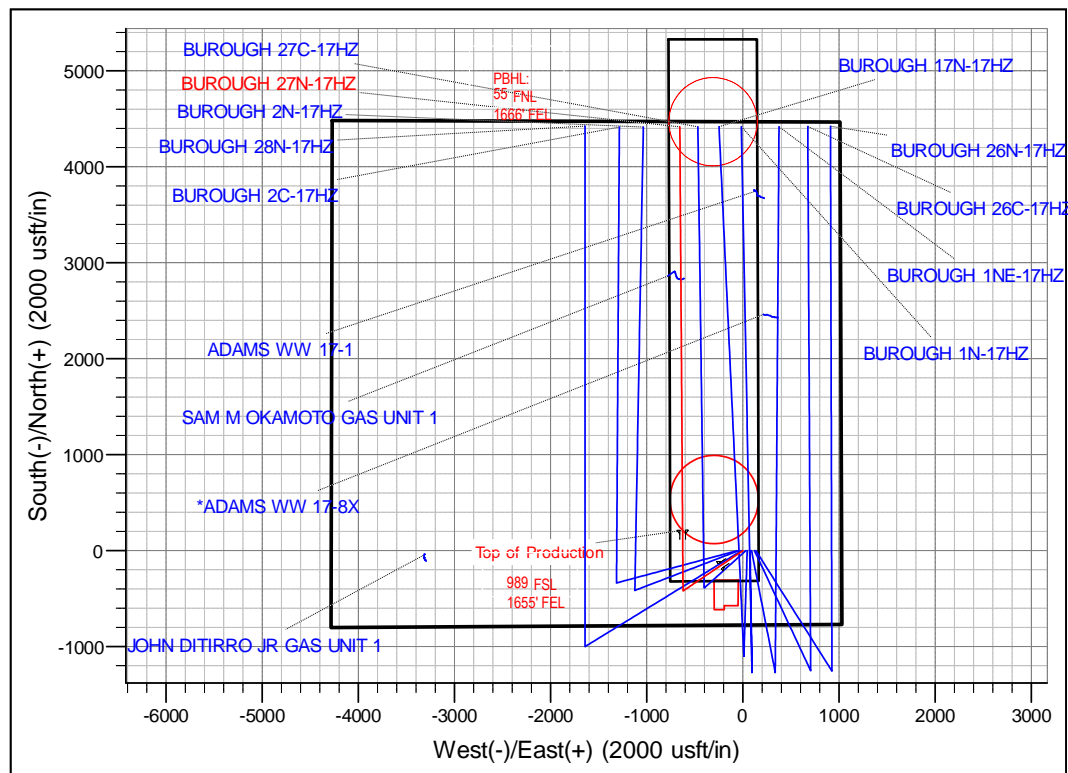
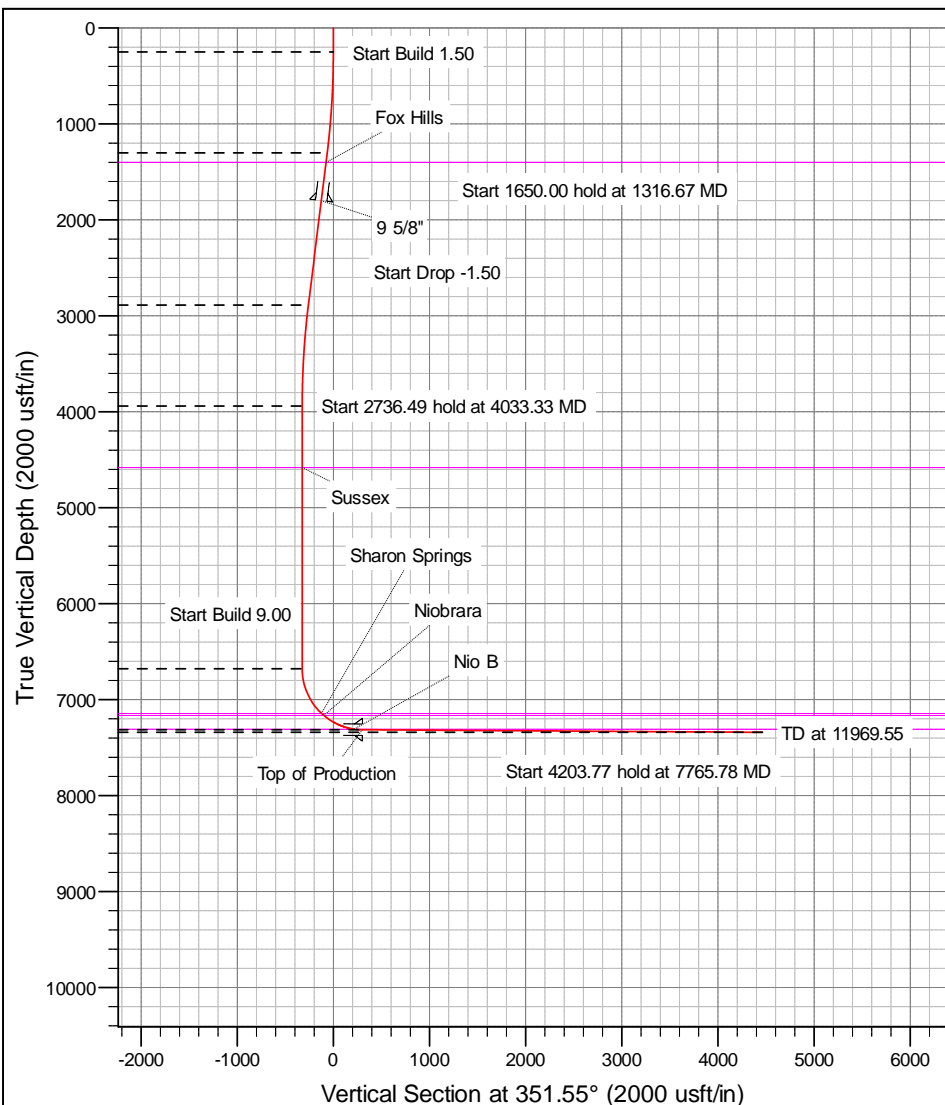
+N/-S	+E/-W	GL: 4981.00	RKB = 17' @ 4998.00usft (D Rig)	Longitude	Slot
0.00	0.00	Northing 14543612.18	Easting 1697734.99	Latitude 40.046171	-104.795191

#### 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
1316.67	16.00	236.00	1302.86	-82.74	-122.67	1.50	-63.82
2966.67	16.00	236.00	2888.94	-337.07	-499.72	0.00	-259.99
4033.33	0.00	0.00	3941.80	-419.81	-622.39	1.50	-323.82
6769.82	0.00	0.00	6678.29	-419.81	-622.39	0.00	-323.82
7765.78	89.64	359.60	7314.89	212.75	-626.78	9.00	302.53
11969.55	89.64	359.60	7341.60	4416.34	-655.94	0.00	4464.78

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BurgHO 27N-17HZ PBHL MUC	7341.60	4416.34	-655.94	14548027.00	1697068.90	40.058299	-104.797535	Point



# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well BURGESS 27N-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Site:</b>	1N-66W-17 Burough 20-17HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	BURGESS 27N-17HZ	<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)		

Site		1N-66W-17 Burough 20-17HZ Pad			
Site Position:		Northing:	14,543,611.68 usft	Latitude:	40.046170
From:	Lat/Long	Easting:	1,697,675.10 usft	Longitude:	-104.795405
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13

Well	BUROUGH 27N-17HZ					
Well Position	+N/-S	0.36 usft	Northing:	14,543,612.18 usft	Latitude:	40.046171
	+E/-W	59.89 usft	Easting:	1,697,734.99 usft	Longitude:	-104.795191
Position Uncertainty		3.28 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,981.00 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	9/12/2015	8.28	66.61	52,494

<b>Design</b>	Permit Rev-3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<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	351.55

<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	
1,316.67	16.00	236.00	1,302.86	-82.74	-122.67	1.50	1.50	0.00	236.00	
2,966.67	16.00	236.00	2,888.94	-337.07	-499.72	0.00	0.00	0.00	0.00	
4,033.33	0.00	0.00	3,941.80	-419.81	-622.39	1.50	-1.50	0.00	180.00	
6,769.82	0.00	0.00	6,678.29	-419.81	-622.39	0.00	0.00	0.00	0.00	
7,765.78	89.64	359.60	7,314.89	212.75	-626.78	9.00	9.00	0.00	359.60	
11,969.55	89.64	359.60	7,341.60	4,416.34	-655.94	0.00	0.00	0.00	0.00	Burrough 27N-17HZ

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well BURGESS 27N-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Site:</b>	1N-66W-17 Burough 20-17HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	BURGESS 27N-17HZ	<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
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	236.00	300.00	-0.18	-0.27	-0.14	1.50	1.50	0.00
400.00	2.25	236.00	399.96	-1.65	-2.44	-1.27	1.50	1.50	0.00
500.00	3.75	236.00	499.82	-4.57	-6.78	-3.53	1.50	1.50	0.00
600.00	5.25	236.00	599.51	-8.96	-13.28	-6.91	1.50	1.50	0.00
700.00	6.75	236.00	698.96	-14.81	-21.95	-11.42	1.50	1.50	0.00
800.00	8.25	236.00	798.10	-22.10	-32.77	-17.05	1.50	1.50	0.00
900.00	9.75	236.00	896.87	-30.85	-45.74	-23.80	1.50	1.50	0.00
1,000.00	11.25	236.00	995.19	-41.04	-60.85	-31.66	1.50	1.50	0.00
1,100.00	12.75	236.00	1,093.00	-52.67	-78.08	-40.62	1.50	1.50	0.00
1,200.00	14.25	236.00	1,190.24	-65.72	-97.44	-50.69	1.50	1.50	0.00
1,300.00	15.75	236.00	1,286.83	-80.19	-118.89	-61.86	1.50	1.50	0.00
1,316.67	16.00	236.00	1,302.86	-82.74	-122.67	-63.82	1.50	1.50	0.00
1,400.00	16.00	236.00	1,382.96	-95.59	-141.72	-73.73	0.00	0.00	0.00
1,419.80	16.00	236.00	1,402.00	-98.64	-146.24	-76.09	0.00	0.00	0.00
Fox Hills									
1,500.00	16.00	236.00	1,479.09	-111.00	-164.57	-85.62	0.00	0.00	0.00
1,600.00	16.00	236.00	1,575.21	-126.41	-187.42	-97.51	0.00	0.00	0.00
1,700.00	16.00	236.00	1,671.34	-141.83	-210.27	-109.40	0.00	0.00	0.00
1,800.00	16.00	236.00	1,767.47	-157.24	-233.12	-121.29	0.00	0.00	0.00
1,833.84	16.00	236.00	1,800.00	-162.46	-240.85	-125.31	0.00	0.00	0.00
9 5/8"									
1,900.00	16.00	236.00	1,863.59	-172.66	-255.97	-133.18	0.00	0.00	0.00
2,000.00	16.00	236.00	1,959.72	-188.07	-278.82	-145.07	0.00	0.00	0.00
2,100.00	16.00	236.00	2,055.85	-203.48	-301.67	-156.95	0.00	0.00	0.00
2,200.00	16.00	236.00	2,151.97	-218.90	-324.53	-168.84	0.00	0.00	0.00
2,300.00	16.00	236.00	2,248.10	-234.31	-347.38	-180.73	0.00	0.00	0.00
2,400.00	16.00	236.00	2,344.22	-249.72	-370.23	-192.62	0.00	0.00	0.00
2,500.00	16.00	236.00	2,440.35	-265.14	-393.08	-204.51	0.00	0.00	0.00
2,600.00	16.00	236.00	2,536.48	-280.55	-415.93	-216.40	0.00	0.00	0.00
2,700.00	16.00	236.00	2,632.60	-295.96	-438.78	-228.29	0.00	0.00	0.00
2,800.00	16.00	236.00	2,728.73	-311.38	-461.63	-240.18	0.00	0.00	0.00
2,900.00	16.00	236.00	2,824.85	-326.79	-484.49	-252.07	0.00	0.00	0.00
2,966.67	16.00	236.00	2,888.94	-337.07	-499.72	-259.99	0.00	0.00	0.00
3,000.00	15.50	236.00	2,921.02	-342.12	-507.22	-263.89	1.50	-1.50	0.00
3,100.00	14.00	236.00	3,017.72	-356.36	-528.33	-274.88	1.50	-1.50	0.00
3,200.00	12.50	236.00	3,115.06	-369.18	-547.33	-284.76	1.50	-1.50	0.00
3,300.00	11.00	236.00	3,212.96	-380.57	-564.21	-293.55	1.50	-1.50	0.00
3,400.00	9.50	236.00	3,311.36	-390.52	-578.96	-301.22	1.50	-1.50	0.00
3,500.00	8.00	236.00	3,410.19	-399.02	-591.57	-307.78	1.50	-1.50	0.00
3,600.00	6.50	236.00	3,509.39	-406.08	-602.04	-313.23	1.50	-1.50	0.00
3,700.00	5.00	236.00	3,608.89	-411.68	-610.34	-317.55	1.50	-1.50	0.00
3,800.00	3.50	236.00	3,708.61	-415.82	-616.49	-320.74	1.50	-1.50	0.00
3,900.00	2.00	236.00	3,808.49	-418.51	-620.46	-322.81	1.50	-1.50	0.00
4,000.00	0.50	236.00	3,908.46	-419.73	-622.27	-323.75	1.50	-1.50	0.00
4,033.33	0.00	0.00	3,941.80	-419.81	-622.39	-323.82	1.50	-1.50	0.00
4,100.00	0.00	0.00	4,008.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,200.00	0.00	0.00	4,108.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,300.00	0.00	0.00	4,208.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,400.00	0.00	0.00	4,308.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,500.00	0.00	0.00	4,408.46	-419.81	-622.39	-323.82	0.00	0.00	0.00

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## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well BURGESS 27N-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Site:</b>	1N-66W-17 Burough 20-17HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	BURGESS 27N-17HZ	<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)
4,600.00	0.00	0.00	4,508.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,673.54	0.00	0.00	4,582.00	-419.81	-622.39	-323.82	0.00	0.00	0.00
<b>Sussex</b>									
4,700.00	0.00	0.00	4,608.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,800.00	0.00	0.00	4,708.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
4,900.00	0.00	0.00	4,808.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,000.00	0.00	0.00	4,908.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,100.00	0.00	0.00	5,008.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,200.00	0.00	0.00	5,108.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,300.00	0.00	0.00	5,208.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,400.00	0.00	0.00	5,308.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,500.00	0.00	0.00	5,408.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,600.00	0.00	0.00	5,508.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,700.00	0.00	0.00	5,608.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,800.00	0.00	0.00	5,708.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
5,900.00	0.00	0.00	5,808.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,000.00	0.00	0.00	5,908.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,100.00	0.00	0.00	6,008.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,200.00	0.00	0.00	6,108.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,300.00	0.00	0.00	6,208.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,400.00	0.00	0.00	6,308.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,500.00	0.00	0.00	6,408.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,600.00	0.00	0.00	6,508.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,700.00	0.00	0.00	6,608.46	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,769.82	0.00	0.00	6,678.29	-419.81	-622.39	-323.82	0.00	0.00	0.00
6,800.00	2.72	359.60	6,708.45	-419.09	-622.40	-323.11	9.00	9.00	0.00
6,900.00	11.72	359.60	6,807.56	-406.55	-622.48	-310.68	9.00	9.00	0.00
7,000.00	20.72	359.60	6,903.48	-378.65	-622.68	-283.06	9.00	9.00	0.00
7,100.00	29.72	359.60	6,993.86	-336.09	-622.97	-240.92	9.00	9.00	0.00
7,200.00	38.72	359.60	7,076.47	-279.92	-623.36	-185.30	9.00	9.00	0.00
7,292.22	47.02	359.60	7,144.00	-217.24	-623.80	-123.24	9.00	9.00	0.00
<b>Sharon Springs</b>									
7,300.00	47.72	359.60	7,149.27	-211.52	-623.84	-117.57	9.00	9.00	0.00
7,323.88	49.86	359.60	7,165.00	-193.55	-623.96	-99.79	9.00	9.00	0.00
<b>Niobrara</b>									
7,400.00	56.72	359.60	7,210.47	-132.57	-624.38	-39.40	9.00	9.00	0.00
7,500.00	65.72	359.60	7,258.58	-45.02	-624.99	47.29	9.00	9.00	0.00
7,600.00	74.72	359.60	7,292.39	48.98	-625.64	140.37	9.00	9.00	0.00
7,675.97	81.55	359.60	7,308.00	123.28	-626.16	213.93	9.00	9.00	0.00
<b>Nio B</b>									
7,700.00	83.72	359.60	7,311.08	147.11	-626.32	237.53	9.00	9.00	0.00
7,765.78	89.64	359.60	7,314.89	212.75	-626.78	302.53	9.00	9.00	0.00
<b>Top of Production</b>									
7,800.00	89.64	359.60	7,315.11	246.97	-627.02	336.41	0.00	0.00	0.00
7,900.00	89.64	359.60	7,315.75	346.97	-627.71	435.42	0.00	0.00	0.00
8,000.00	89.64	359.60	7,316.38	446.96	-628.40	534.43	0.00	0.00	0.00
8,100.00	89.64	359.60	7,317.02	546.96	-629.10	633.45	0.00	0.00	0.00
8,200.00	89.64	359.60	7,317.65	646.95	-629.79	732.46	0.00	0.00	0.00
8,300.00	89.64	359.60	7,318.29	746.95	-630.49	831.47	0.00	0.00	0.00
8,400.00	89.64	359.60	7,318.92	846.94	-631.18	930.48	0.00	0.00	0.00
8,500.00	89.64	359.60	7,319.56	946.94	-631.87	1,029.50	0.00	0.00	0.00
8,600.00	89.64	359.60	7,320.19	1,046.94	-632.57	1,128.51	0.00	0.00	0.00
8,700.00	89.64	359.60	7,320.83	1,146.93	-633.26	1,227.52	0.00	0.00	0.00

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well BURGESS 27N-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Site:</b>	1N-66W-17 Burough 20-17HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	BURGESS 27N-17HZ	<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)
8,800.00	89.64	359.60	7,321.46	1,246.93	-633.95	1,326.53	0.00	0.00	0.00
8,900.00	89.64	359.60	7,322.10	1,346.92	-634.65	1,425.54	0.00	0.00	0.00
9,000.00	89.64	359.60	7,322.73	1,446.92	-635.34	1,524.56	0.00	0.00	0.00
9,100.00	89.64	359.60	7,323.37	1,546.91	-636.03	1,623.57	0.00	0.00	0.00
9,200.00	89.64	359.60	7,324.01	1,646.91	-636.73	1,722.58	0.00	0.00	0.00
9,300.00	89.64	359.60	7,324.64	1,746.90	-637.42	1,821.59	0.00	0.00	0.00
9,400.00	89.64	359.60	7,325.28	1,846.90	-638.11	1,920.61	0.00	0.00	0.00
9,500.00	89.64	359.60	7,325.91	1,946.90	-638.81	2,019.62	0.00	0.00	0.00
9,600.00	89.64	359.60	7,326.55	2,046.89	-639.50	2,118.63	0.00	0.00	0.00
9,700.00	89.64	359.60	7,327.18	2,146.89	-640.20	2,217.64	0.00	0.00	0.00
9,800.00	89.64	359.60	7,327.82	2,246.88	-640.89	2,316.66	0.00	0.00	0.00
9,900.00	89.64	359.60	7,328.45	2,346.88	-641.58	2,415.67	0.00	0.00	0.00
10,000.00	89.64	359.60	7,329.09	2,446.87	-642.28	2,514.68	0.00	0.00	0.00
10,100.00	89.64	359.60	7,329.72	2,546.87	-642.97	2,613.69	0.00	0.00	0.00
10,200.00	89.64	359.60	7,330.36	2,646.86	-643.66	2,712.71	0.00	0.00	0.00
10,300.00	89.64	359.60	7,330.99	2,746.86	-644.36	2,811.72	0.00	0.00	0.00
10,400.00	89.64	359.60	7,331.63	2,846.86	-645.05	2,910.73	0.00	0.00	0.00
10,500.00	89.64	359.60	7,332.26	2,946.85	-645.74	3,009.74	0.00	0.00	0.00
10,600.00	89.64	359.60	7,332.90	3,046.85	-646.44	3,108.76	0.00	0.00	0.00
10,700.00	89.64	359.60	7,333.53	3,146.84	-647.13	3,207.77	0.00	0.00	0.00
10,800.00	89.64	359.60	7,334.17	3,246.84	-647.82	3,306.78	0.00	0.00	0.00
10,900.00	89.64	359.60	7,334.81	3,346.83	-648.52	3,405.79	0.00	0.00	0.00
11,000.00	89.64	359.60	7,335.44	3,446.83	-649.21	3,504.81	0.00	0.00	0.00
11,100.00	89.64	359.60	7,336.08	3,546.82	-649.91	3,603.82	0.00	0.00	0.00
11,200.00	89.64	359.60	7,336.71	3,646.82	-650.60	3,702.83	0.00	0.00	0.00
11,300.00	89.64	359.60	7,337.35	3,746.82	-651.29	3,801.84	0.00	0.00	0.00
11,400.00	89.64	359.60	7,337.98	3,846.81	-651.99	3,900.86	0.00	0.00	0.00
11,500.00	89.64	359.60	7,338.62	3,946.81	-652.68	3,999.87	0.00	0.00	0.00
11,600.00	89.64	359.60	7,339.25	4,046.80	-653.37	4,098.88	0.00	0.00	0.00
11,700.00	89.64	359.60	7,339.89	4,146.80	-654.07	4,197.89	0.00	0.00	0.00
11,800.00	89.64	359.60	7,340.52	4,246.79	-654.76	4,296.91	0.00	0.00	0.00
11,900.00	89.64	359.60	7,341.16	4,346.79	-655.45	4,395.92	0.00	0.00	0.00
11,969.55	89.64	359.60	7,341.60	4,416.34	-655.94	4,464.78	0.00	0.00	0.00
Burrough 27N-17HZ PBHL MJC									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Burrough 27N-17HZ PF	0.00	0.00	7,341.60	4,416.34	-655.94	14,548,027.00	1,697,068.90	40.058299	-104.797535
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,833.84	1,800.00	9 5/8"	9-5/8	13-1/2	
7,765.78	7,314.89	Top of Production	5-1/2	7-7/8	

# Anadarko

## Planning Report

<b>Database:</b>	PLANNING	<b>Local Co-ordinate Reference:</b>	Well BURGESS 27N-17HZ
<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>TVD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>MD Reference:</b>	RKB = 17' @ 4998.00usft (D Rig)
<b>Site:</b>	1N-66W-17 Burrough 20-17HZ Pad	<b>North Reference:</b>	True
<b>Well:</b>	BURGESS 27N-17HZ	<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 (°)	
1,419.80	1,402.00	Fox Hills		0.00		
4,673.54	4,582.00	Sussex		0.00		
7,292.22	7,144.00	Sharon Springs				
7,323.88	7,165.00	Niobrara				
7,675.97	7,308.00	Nio B				