

WELL DETAILS: Land 37N-32HZ

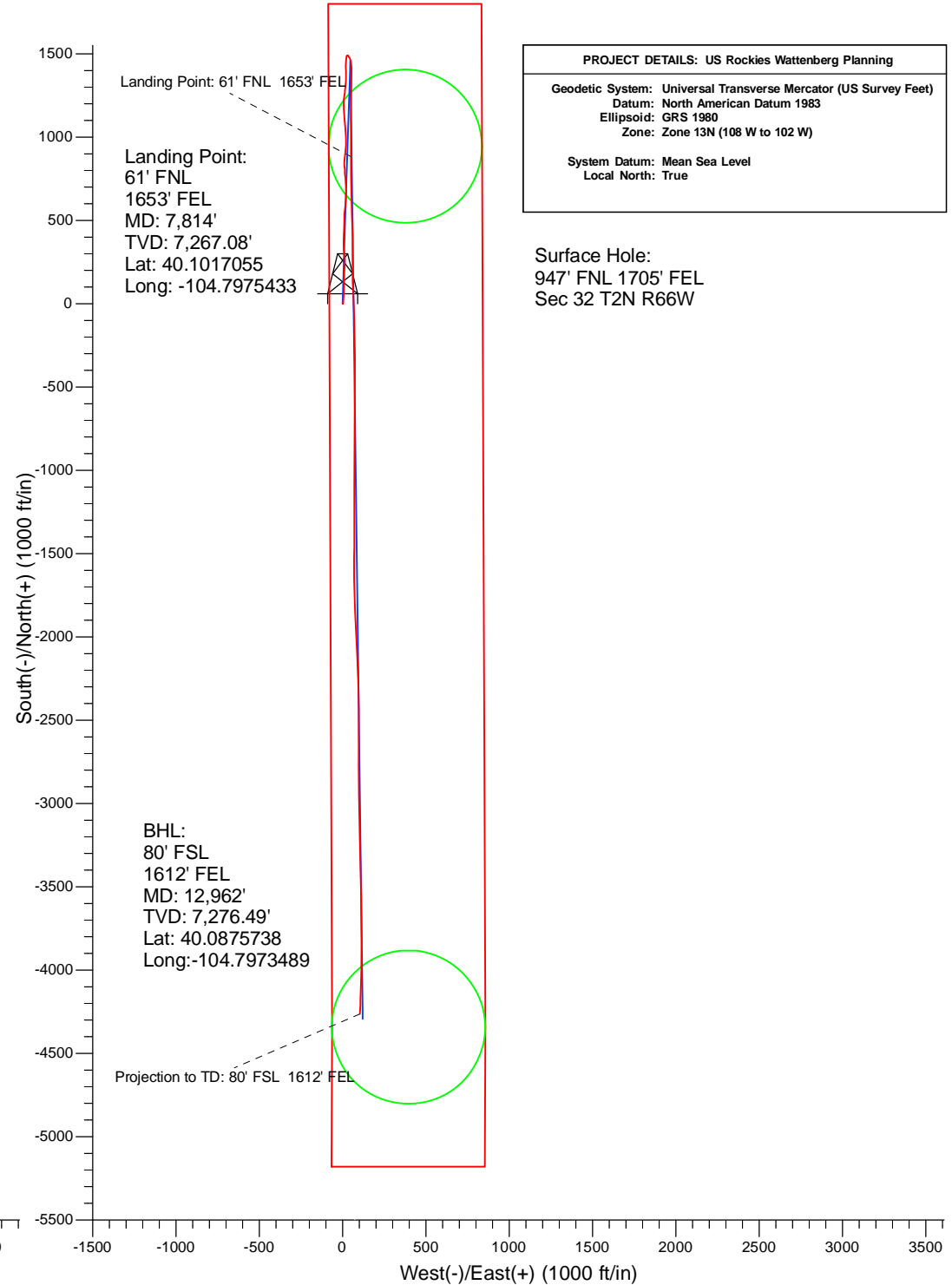
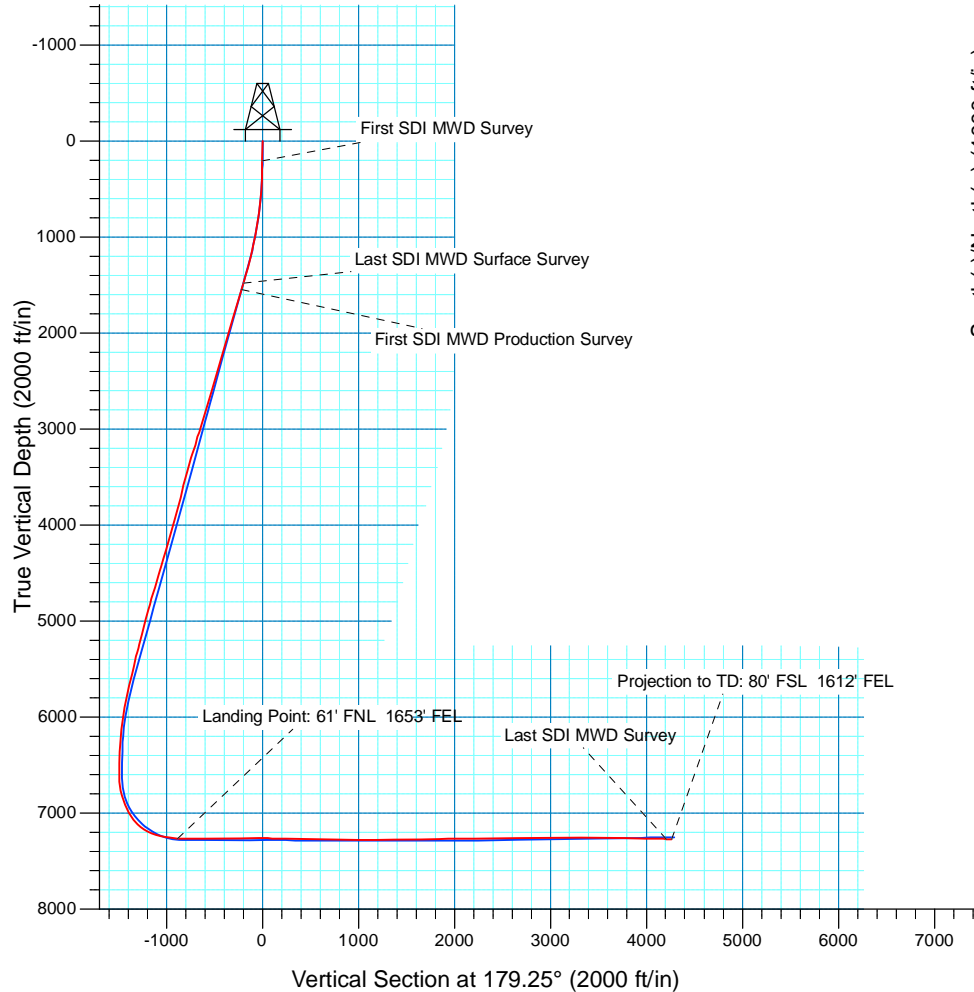
GL 4913' & KB 20' @ 4933.00ft (Precision 461)	4913.00		
Northing	Easting	Latitude	Longitude
14562948.51	1696983.27	40.0992760	-104.7977200

Design: OH (Land 37N-32HZ/OH)

Created By: Seth Burstad Date: 7-29-2016

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Annotation
210.00	210.00	0.46	48.63	0.56	0.63	First SDI MWD Survey
1482.72	1503.00	16.47	0.86	196.83	10.07	Last SDI MWD Surface Survey
1546.90	1570.00	16.92	2.39	216.07	10.61	First SDI MWD Production Survey
7267.08	7814.00	89.53	179.87	884.67	49.42	Landing Point: 61' FNL 1653' FEL
7274.34	12908.00	87.72	181.72	-4207.40	105.40	Last SDI MWD Survey
7276.49	12962.00	87.72	181.72	-4261.33	103.78	Projection to TD: 80' FSL 1612' FEL



PROJECT DETAILS: US Rockies Wattenberg Planning

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Zone 13N (108 W to 102 W)

System Datum: Mean Sea Level
 Local North: True

Surface Hole:
 947' FNL 1705' FEL
 Sec 32 T2N R66W



US ROCKIES REGION PLANNING

US Rockies Wattenberg Planning

Land 17-32HZ Pad, 2N-66W-32

Land 37N-32HZ

OH

Design: OH

Standard Survey Report

29 July, 2016



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Land 37N-32HZ
Project:	US Rockies Wattenberg Planning	TVD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Site:	Land 17-32HZ Pad, 2N-66W-32	MD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Well:	Land 37N-32HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Project	US Rockies Wattenberg Planning		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Land 17-32HZ Pad, 2N-66W-32, Site Center : Land 14C-32HZ				
Site Position:		Northing:	14,562,948.00 usft	Latitude:	40.0992750
From:	Lat/Long	Easting:	1,696,921.75 usft	Longitude:	-104.7979400
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.13 °

Well	Land 37N-32HZ, 947' FNL 1705' FEL Sec 32 T2N R66W					
Well Position	+N/-S	0.00 ft	Northing:	14,562,948.50 usft	Latitude:	40.0992760
	+E/-W	0.00 ft	Easting:	1,696,983.27 usft	Longitude:	-104.7977200
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,913.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	7/18/2016	8.30	66.69	52,565

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	179.25	

Survey Program	Date	7/29/2016			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
210.00	1,503.00	Survey #1 - Surface (OH)	APC_ISCWSA REV 2 MWD+ Fixed:v2:crustal field declination		
1,570.00	12,962.00	Survey #2 - Production (OH)	APC_ISCWSA REV 2 MWD+ Fixed:v2:crustal field declination		

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
210.00	0.46	48.63	210.00	0.56	0.63	-0.55	0.22	0.22	0.00	
First SDI MWD Survey										
303.00	1.46	14.90	302.98	1.95	1.22	-1.93	1.19	1.08	-36.27	
397.00	2.32	14.25	396.93	4.95	1.99	-4.92	0.92	0.91	-0.69	
490.00	2.86	12.04	489.84	9.04	2.94	-9.00	0.59	0.58	-2.38	
583.00	4.61	5.61	582.64	15.03	3.79	-14.98	1.93	1.88	-6.91	
677.00	6.02	4.41	676.23	23.71	4.54	-23.65	1.50	1.50	-1.28	
770.00	8.07	3.16	768.52	35.09	5.27	-35.02	2.21	2.20	-1.34	
864.00	9.31	4.88	861.44	49.25	6.28	-49.17	1.35	1.32	1.83	

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Site:	Land 17-32HZ Pad, 2N-66W-32	MD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Well:	Land 37N-32HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
957.00	10.91	3.79	952.99	65.53	7.51	-65.43	1.73	1.72	-1.17	
1,050.00	11.92	3.06	1,044.15	83.90	8.60	-83.78	1.10	1.09	-0.78	
1,144.00	12.99	1.47	1,135.94	104.16	9.39	-104.03	1.20	1.14	-1.69	
1,239.00	14.45	359.66	1,228.23	126.69	9.59	-126.55	1.60	1.54	-1.91	
1,334.00	15.05	359.90	1,320.10	150.87	9.50	-150.74	0.63	0.63	0.25	
1,429.00	15.89	1.06	1,411.65	176.21	9.72	-176.07	0.94	0.88	1.22	
1,503.00	16.47	0.86	1,482.72	196.83	10.07	-196.68	0.79	0.78	-0.27	
Last SDI MWD Surface Survey										
1,570.00	16.92	2.39	1,546.90	216.07	10.61	-215.91	0.94	0.67	2.28	
First SDI MWD Production Survey										
1,663.00	17.56	2.10	1,635.72	243.61	11.69	-243.43	0.69	0.69	-0.31	
1,758.00	16.96	357.87	1,726.45	271.78	11.70	-271.60	1.46	-0.63	-4.45	
1,852.00	16.52	353.32	1,816.47	298.75	9.64	-298.60	1.47	-0.47	-4.84	
1,946.00	16.83	356.55	1,906.51	325.61	7.27	-325.49	1.04	0.33	3.44	
2,041.00	15.55	0.02	1,997.75	352.07	6.44	-351.96	1.69	-1.35	3.65	
2,136.00	15.94	1.45	2,089.18	377.85	6.78	-377.73	0.58	0.41	1.51	
2,231.00	15.79	1.74	2,180.56	403.81	7.50	-403.68	0.18	-0.16	0.31	
2,325.00	16.53	3.17	2,270.85	429.95	8.63	-429.80	0.89	0.79	1.52	
2,417.00	16.47	358.95	2,359.06	456.05	9.11	-455.89	1.30	-0.07	-4.59	
2,511.00	17.09	359.09	2,449.06	483.19	8.65	-483.03	0.66	0.66	0.15	
2,606.00	16.80	358.76	2,539.94	510.87	8.13	-510.72	0.32	-0.31	-0.35	
2,699.00	16.35	4.36	2,629.08	537.36	8.83	-537.20	1.78	-0.48	6.02	
2,793.00	16.43	7.35	2,719.26	563.74	11.54	-563.54	0.90	0.09	3.18	
2,887.00	16.28	7.18	2,809.46	589.99	14.89	-589.75	0.17	-0.16	-0.18	
2,981.00	16.25	5.53	2,899.69	616.16	17.80	-615.87	0.49	-0.03	-1.76	
3,075.00	18.38	1.91	2,989.43	644.06	19.56	-643.75	2.54	2.27	-3.85	
3,170.00	16.58	0.16	3,080.04	672.59	20.10	-672.27	1.97	-1.89	-1.84	
3,264.00	17.13	357.32	3,170.01	699.83	19.49	-699.52	1.05	0.59	-3.02	
3,358.00	16.41	357.91	3,260.01	726.93	18.36	-726.63	0.79	-0.77	0.63	
3,453.00	17.77	356.90	3,350.81	754.82	17.09	-754.53	1.47	1.43	-1.06	
3,547.00	15.62	354.69	3,440.84	781.74	15.14	-781.48	2.38	-2.29	-2.35	
3,642.00	15.47	353.45	3,532.37	807.07	12.51	-806.83	0.38	-0.16	-1.31	
3,737.00	12.76	355.28	3,624.49	830.11	10.20	-829.91	2.89	-2.85	1.93	
3,832.00	12.77	2.20	3,717.15	851.06	9.74	-850.86	1.61	0.01	7.28	
3,925.00	16.32	8.54	3,807.16	874.26	12.08	-874.03	4.18	3.82	6.82	
4,019.00	15.50	4.52	3,897.56	899.85	15.03	-899.57	1.46	-0.87	-4.28	
4,114.00	15.44	4.76	3,989.12	925.10	17.08	-924.80	0.09	-0.06	0.25	
4,208.00	14.89	5.11	4,079.85	949.60	19.19	-949.27	0.59	-0.59	0.37	
4,303.00	15.69	359.20	4,171.49	974.60	20.10	-974.26	1.84	0.84	-6.22	
4,398.00	16.37	358.31	4,262.79	1,000.83	19.53	-1,000.49	0.76	0.72	-0.94	
4,492.00	16.99	357.46	4,352.84	1,027.79	18.53	-1,027.46	0.71	0.66	-0.90	
4,587.00	17.73	355.65	4,443.51	1,056.08	16.81	-1,055.77	0.96	0.78	-1.91	
4,681.00	14.75	351.75	4,533.75	1,082.20	14.01	-1,081.93	3.37	-3.17	-4.15	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Land 37N-32HZ
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Site:	Land 17-32HZ Pad, 2N-66W-32	MD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Well:	Land 37N-32HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,776.00	17.05	354.54	4,625.11	1,108.04	10.95	-1,107.80	2.55	2.42	2.94	
4,869.00	18.34	356.84	4,713.71	1,136.22	8.85	-1,136.01	1.58	1.39	2.47	
4,987.00	16.49	355.25	4,826.30	1,171.45	6.43	-1,171.27	1.62	-1.57	-1.35	
5,081.00	16.49	2.36	4,916.44	1,198.08	5.88	-1,197.90	2.15	0.00	7.56	
5,176.00	14.04	2.61	5,008.08	1,223.07	6.96	-1,222.87	2.58	-2.58	0.26	
5,271.00	13.90	6.48	5,100.28	1,245.92	8.77	-1,245.69	0.99	-0.15	4.07	
5,365.00	13.33	6.99	5,191.63	1,267.89	11.37	-1,267.63	0.62	-0.61	0.54	
5,459.00	15.52	8.14	5,282.67	1,291.10	14.46	-1,290.80	2.35	2.33	1.22	
5,553.00	14.18	6.18	5,373.52	1,314.99	17.49	-1,314.65	1.52	-1.43	-2.09	
5,648.00	12.20	2.04	5,466.02	1,336.60	19.10	-1,336.23	2.31	-2.08	-4.36	
5,742.00	12.78	1.93	5,557.79	1,356.91	19.80	-1,356.54	0.62	0.62	-0.12	
5,836.00	14.64	1.10	5,649.11	1,379.18	20.38	-1,378.80	1.99	1.98	-0.88	
5,931.00	12.94	359.25	5,741.37	1,401.83	20.47	-1,401.44	1.85	-1.79	-1.95	
6,023.00	11.50	1.01	5,831.28	1,421.30	20.50	-1,420.91	1.62	-1.57	1.91	
6,117.00	9.50	354.42	5,923.71	1,438.39	19.91	-1,438.00	2.48	-2.13	-7.01	
6,210.00	8.08	6.02	6,015.62	1,452.53	19.85	-1,452.14	2.43	-1.53	12.47	
6,303.00	6.65	6.38	6,107.85	1,464.38	21.13	-1,463.98	1.54	-1.54	0.39	
6,397.00	5.02	2.28	6,201.36	1,473.90	21.90	-1,473.49	1.79	-1.73	-4.36	
6,492.00	4.29	353.21	6,296.05	1,481.58	21.64	-1,481.17	1.09	-0.77	-9.55	
6,586.00	3.31	49.10	6,389.87	1,486.85	23.28	-1,486.42	3.90	-1.04	59.46	
6,682.00	2.88	57.67	6,485.73	1,489.95	27.41	-1,489.47	0.66	-0.45	8.93	
6,777.00	2.19	74.79	6,580.64	1,491.71	31.18	-1,491.17	1.07	-0.73	18.02	
6,871.00	6.66	160.99	6,674.40	1,487.02	34.69	-1,486.44	7.31	4.76	91.70	
6,965.00	12.57	153.06	6,767.04	1,472.73	41.11	-1,472.07	6.43	6.29	-8.44	
7,059.00	17.87	169.05	6,857.75	1,449.43	48.49	-1,448.67	7.14	5.64	17.01	
7,154.00	24.24	177.13	6,946.38	1,415.60	52.24	-1,414.79	7.35	6.71	8.51	
7,250.00	32.04	179.63	7,030.97	1,370.38	53.39	-1,369.56	8.22	8.13	2.60	
7,345.00	43.52	182.71	7,105.94	1,312.31	52.00	-1,311.52	12.24	12.08	3.24	
7,438.00	55.02	181.20	7,166.52	1,242.00	49.69	-1,241.24	12.43	12.37	-1.62	
7,533.00	67.53	179.79	7,212.09	1,158.86	49.03	-1,158.12	13.23	13.17	-1.48	
7,626.00	77.07	179.77	7,240.33	1,070.36	49.37	-1,069.63	10.26	10.26	-0.02	
7,720.00	80.31	180.15	7,258.76	978.20	49.43	-977.47	3.47	3.45	0.40	
7,814.00	89.53	179.87	7,267.08	884.67	49.42	-883.95	9.81	9.81	-0.30	
Landing Point: 61' FNL 1653' FEL										
7,908.00	90.00	179.03	7,267.46	790.68	50.32	-789.95	1.02	0.50	-0.89	
8,003.00	89.97	178.80	7,267.49	695.69	52.12	-694.95	0.24	-0.03	-0.24	
8,098.00	89.77	178.95	7,267.70	600.71	53.98	-599.96	0.26	-0.21	0.16	
8,192.00	89.53	178.46	7,268.28	506.74	56.11	-505.96	0.58	-0.26	-0.52	
8,285.00	89.43	177.57	7,269.12	413.80	59.33	-412.99	0.96	-0.11	-0.96	
8,377.00	90.67	180.13	7,269.04	321.83	61.17	-321.00	3.09	1.35	2.78	
8,470.00	92.18	180.39	7,266.73	228.86	60.75	-228.05	1.65	1.62	0.28	
8,565.00	91.88	179.49	7,263.36	133.92	60.85	-133.11	1.00	-0.32	-0.95	
8,659.00	88.72	177.78	7,262.87	39.96	63.09	-39.14	3.82	-3.36	-1.82	
8,754.00	88.56	177.87	7,265.12	-54.94	66.70	55.81	0.19	-0.17	0.09	

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8,847.00	90.00	177.96	7,266.29	-147.87	70.08	148.77	1.55	1.55	0.10	
8,941.00	88.32	179.30	7,267.67	-241.83	72.33	242.75	2.29	-1.79	1.43	
9,034.00	88.79	180.18	7,270.02	-334.79	72.75	335.72	1.07	0.51	0.95	
9,128.00	89.46	180.10	7,271.45	-428.78	72.52	429.70	0.72	0.71	-0.09	
9,222.00	89.36	180.09	7,272.42	-522.78	72.36	523.68	0.11	-0.11	-0.01	
9,317.00	89.13	180.14	7,273.67	-617.77	72.17	618.66	0.25	-0.24	0.05	
9,411.00	88.72	180.49	7,275.44	-711.75	71.66	712.63	0.57	-0.44	0.37	
9,505.00	88.26	180.50	7,277.91	-805.71	70.84	806.57	0.49	-0.49	0.01	
9,599.00	89.03	180.36	7,280.14	-899.68	70.14	900.53	0.83	0.82	-0.15	
9,693.00	88.69	180.48	7,282.01	-993.66	69.45	994.49	0.38	-0.36	0.13	
9,788.00	90.87	179.81	7,282.37	-1,088.66	69.21	1,089.47	2.40	2.29	-0.71	
9,881.00	90.94	179.11	7,280.90	-1,181.64	70.09	1,182.46	0.76	0.08	-0.75	
9,976.00	91.07	179.94	7,279.24	-1,276.62	70.87	1,277.44	0.88	0.14	0.87	
10,069.00	90.44	180.07	7,278.01	-1,369.61	70.86	1,370.42	0.69	-0.68	0.14	
10,164.00	90.44	180.72	7,277.28	-1,464.61	70.21	1,465.40	0.68	0.00	0.68	
10,258.00	89.76	179.93	7,277.12	-1,558.60	69.68	1,559.38	1.11	-0.72	-0.84	
10,351.00	89.93	180.10	7,277.37	-1,651.60	69.65	1,652.37	0.26	0.18	0.18	
10,445.00	90.74	178.08	7,276.82	-1,745.58	71.14	1,746.37	2.32	0.86	-2.15	
10,540.00	90.94	177.40	7,275.43	-1,840.50	74.89	1,841.32	0.75	0.21	-0.72	
10,634.00	91.17	177.60	7,273.69	-1,934.39	78.99	1,935.26	0.32	0.24	0.21	
10,727.00	90.71	177.10	7,272.17	-2,027.28	83.29	2,028.20	0.73	-0.49	-0.54	
10,821.00	90.81	176.76	7,270.92	-2,121.14	88.32	2,122.11	0.38	0.11	-0.36	
10,914.00	90.94	178.25	7,269.50	-2,214.04	92.37	2,215.06	1.61	0.14	1.60	
11,008.00	90.71	178.49	7,268.15	-2,307.99	95.04	2,309.04	0.35	-0.24	0.26	
11,102.00	90.81	178.98	7,266.90	-2,401.96	97.12	2,403.02	0.53	0.11	0.52	
11,194.00	91.34	179.74	7,265.18	-2,493.93	98.15	2,495.01	1.01	0.58	0.83	
11,287.00	90.27	179.99	7,263.87	-2,586.92	98.37	2,587.99	1.18	-1.15	0.27	
11,381.00	91.38	180.08	7,262.52	-2,680.91	98.31	2,681.97	1.18	1.18	0.10	
11,474.00	91.18	180.08	7,260.44	-2,773.89	98.18	2,774.94	0.22	-0.22	0.00	
11,567.00	89.80	179.24	7,259.64	-2,866.88	98.73	2,867.93	1.74	-1.48	-0.90	
11,660.00	90.54	179.78	7,259.37	-2,959.88	99.53	2,960.93	0.99	0.80	0.58	
11,753.00	91.38	179.07	7,257.81	-3,052.86	100.46	3,053.91	1.18	0.90	-0.76	
11,847.00	90.20	178.63	7,256.51	-3,146.83	102.35	3,147.90	1.34	-1.26	-0.47	
11,941.00	89.73	178.88	7,256.57	-3,240.80	104.39	3,241.89	0.57	-0.50	0.27	
12,034.00	89.83	178.80	7,256.93	-3,333.78	106.27	3,334.89	0.14	0.11	-0.09	
12,127.00	89.80	178.71	7,257.23	-3,426.76	108.29	3,427.89	0.10	-0.03	-0.10	
12,222.00	89.16	178.69	7,258.09	-3,521.73	110.45	3,522.88	0.67	-0.67	-0.02	
12,316.00	88.69	178.84	7,259.85	-3,615.70	112.47	3,616.86	0.52	-0.50	0.16	
12,410.00	87.95	179.45	7,262.61	-3,709.64	113.87	3,710.82	1.02	-0.79	0.65	
12,502.00	89.09	180.69	7,264.98	-3,801.61	113.76	3,802.77	1.83	1.24	1.35	
12,595.00	89.16	180.99	7,266.41	-3,894.59	112.40	3,895.73	0.33	0.08	0.32	
12,688.00	88.86	181.04	7,268.01	-3,987.56	110.75	3,988.67	0.33	-0.32	0.05	
12,783.00	88.49	181.40	7,270.21	-4,082.51	108.73	4,083.59	0.54	-0.39	0.38	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Land 37N-32HZ
Project:	US Rockies Wattenberg Planning	TVD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Site:	Land 17-32HZ Pad, 2N-66W-32	MD Reference:	GL 4913' & KB 20' @ 4933.00ft (Precision 461)
Well:	Land 37N-32HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,876.00	87.92	181.57	7,273.12	-4,175.43	106.32	4,176.47	0.64	-0.61	0.18
12,908.00	87.72	181.72	7,274.34	-4,207.40	105.40	4,208.42	0.78	-0.63	0.47
Last SDI MWD Survey									
12,962.00	87.72	181.72	7,276.49	-4,261.33	103.78	4,262.32	0.00	0.00	0.00
Projection to TD: 80' FSL 1612' FEL									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
210.00	210.00	0.56	0.63	First SDI MWD Survey	
1,503.00	1,482.72	196.83	10.07	Last SDI MWD Surface Survey	
1,570.00	1,546.90	216.07	10.61	First SDI MWD Production Survey	
7,814.00	7,267.08	884.67	49.42	Landing Point: 61' FNL 1653' FEL	
12,908.00	7,274.34	-4,207.40	105.40	Last SDI MWD Survey	
12,962.00	7,276.49	-4,261.33	103.78	Projection to TD: 80' FSL 1612' FEL	

Checked By: _____	Approved By: _____	Date: _____
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