

WELL DETAILS: Land Fed 34C-32HZ

GL 489' & KB 20' @ 4919.00ft (Precision 461) 4899.00			
Northing	Easting	Latitude	Longitude
14562853.20	1694742.11	40.0990280	-104.8057350

ANNOTATIONS

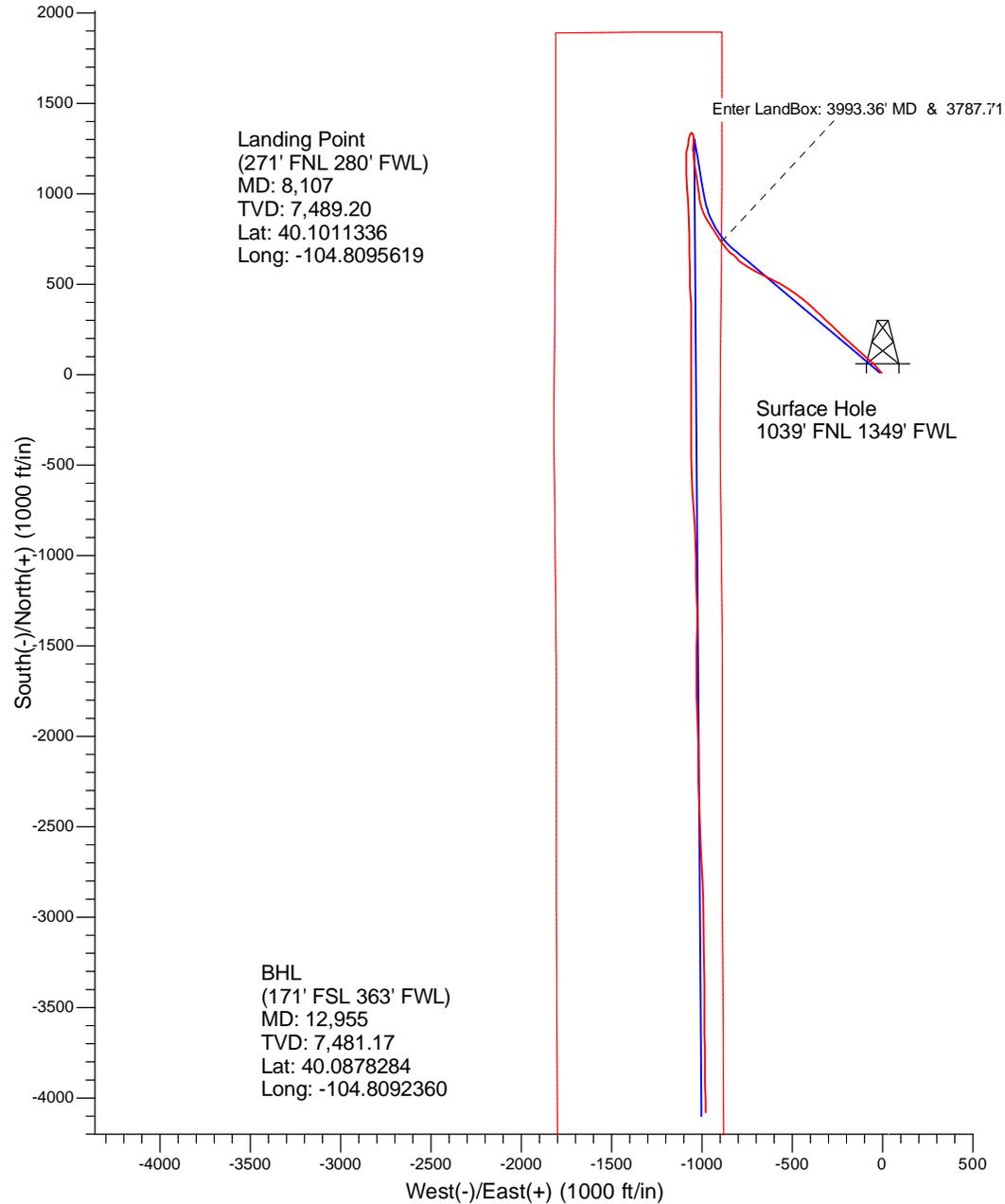
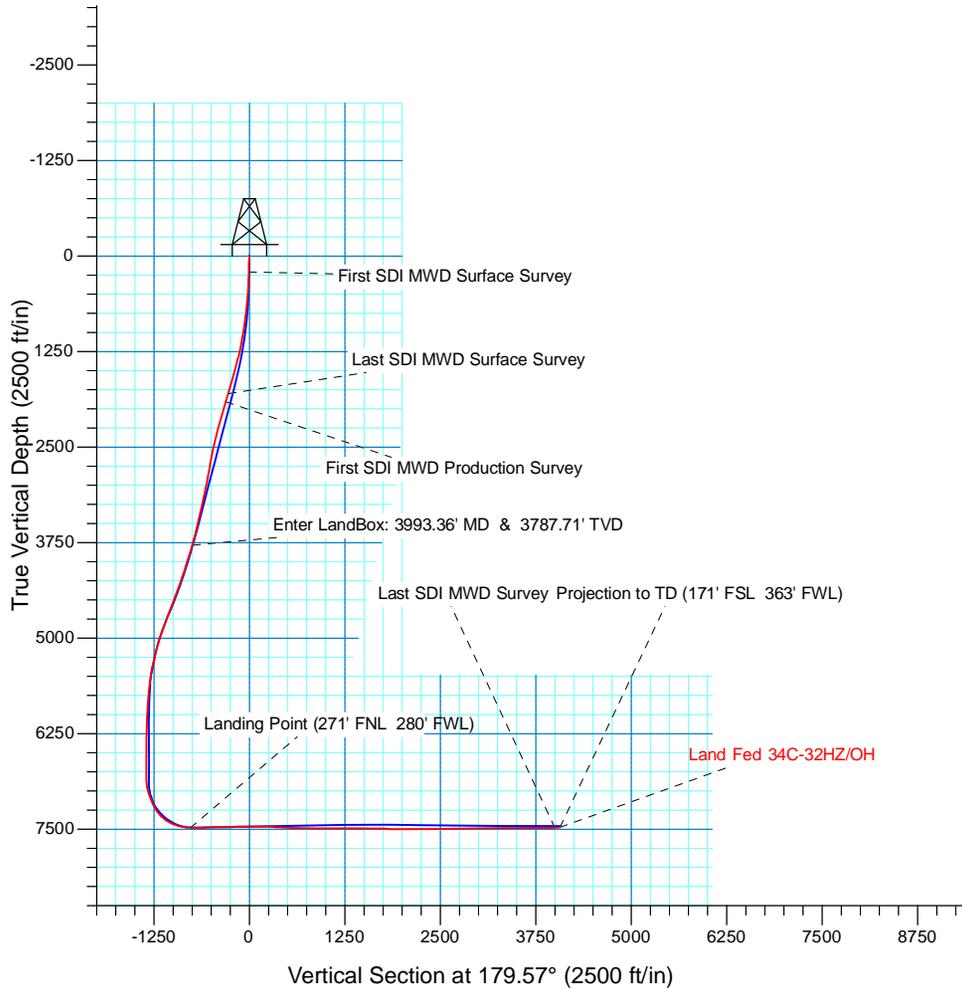
TVD	MD	Inc	Azi	+N/-S	+E/-W	Annotation
212.96	213.00	1.86	326.55	2.88	-1.91	First SDI MWD Surface Survey
1806.69	1867.00	21.45	314.01	272.70	-283.69	Last SDI MWD Surface Survey
1915.65	1984.00	21.29	314.96	302.57	-314.11	First SDI MWD Production Survey
3787.67	3993.36	19.48	322.75	733.12	-892.05	Enter LandBox: 3993.36' MD & 3787.71' TVD
7486.20	8107.00	86.68	179.80	766.77	-1070.15	Landing Point (271' FNL 280' FWL)
7483.21	12888.00	91.74	179.08	-4011.33	-980.30	Last SDI MWD Survey
7481.17	12955.00	91.74	179.08	-4078.29	-979.22	Projection to TD (171' FSL 363' FWL)

Design: OH (Land Fed 34C-32HZ/OH)

Created By: Seth Burstad Date: 6-6-2016

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





US ROCKIES REGION PLANNING

US Rockies Wattenberg Planning

Land 18-32HZ Pad 2N-66W-32

Land Fed 34C-32HZ

OH

Design: OH

Standard Survey Report

08 June, 2016



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Land Fed 34C-32HZ
Project:	US Rockies Wattenberg Planning	TVD Reference:	GL 4899' & KB 20' @ 4919.00ft (Precision 461)
Site:	Land 18-32HZ Pad 2N-66W-32	MD Reference:	GL 4899' & KB 20' @ 4919.00ft (Precision 461)
Well:	Land Fed 34C-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 18-32HZ Pad 2N-66W-32, Site Center: Land Fed 30C-29HZ				
Site Position:		Northing:	14,562,853.50 usft	Latitude:	40.0990290
From:	Lat/Long	Easting:	1,694,712.19 usft	Longitude:	-104.8058420
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.13 °

Well	Land Fed 34C-32HZ, 1039' FNL 1349' FWL Sec 32 T2N R66W					
Well Position	+N/-S	0.00 ft	Northing:	14,562,853.20 usft	Latitude:	40.0990280
	+E/-W	0.00 ft	Easting:	1,694,742.11 usft	Longitude:	-104.8057350
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,899.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	5/15/2016	8.34	66.69	52,581
	User Defined	5/30/2016	8.33	66.69	52,576

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	179.57	

Survey Program	Date	6/8/2016			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
213.00	1,867.00	Survey #1 - Surface (OH)	APC_ISCWSA REV 2 MWD+ Fixed.v2:crustal field declination		
1,984.00	12,955.00	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	0.00
213.00	1.86	326.55	212.96	2.88	-1.91	-2.90	0.87	0.87	0.00	0.00
First SDI MWD Surface Survey										
307.00	3.18	323.28	306.87	6.25	-4.31	-6.28	1.41	1.40	-3.48	-3.48
401.00	3.83	319.77	400.69	10.73	-7.89	-10.79	0.73	0.69	-3.73	-3.73
495.00	4.75	321.59	494.43	16.18	-12.34	-16.27	0.99	0.98	1.94	1.94
589.00	6.18	321.25	588.00	23.18	-17.92	-23.31	1.52	1.52	-0.36	-0.36
683.00	7.59	322.15	681.32	32.02	-24.90	-32.21	1.50	1.50	0.96	0.96

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Site:	Land 18-32HZ Pad 2N-66W-32	MD Reference:	GL 4899' & KB 20' @ 4919.00ft (Precision 461)
Well:	Land Fed 34C-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)
777.00	9.46	318.88	774.28	42.75	-33.79	-43.00	2.05	1.99	-3.48
871.00	11.38	316.80	866.72	55.33	-45.22	-55.67	2.08	2.04	-2.21
965.00	12.66	310.12	958.66	68.73	-59.45	-69.17	2.01	1.36	-7.11
1,059.00	14.44	309.93	1,050.04	82.89	-76.31	-83.46	1.89	1.89	-0.20
1,153.00	16.47	312.52	1,140.64	99.42	-95.12	-100.13	2.28	2.16	2.76
1,247.00	18.34	313.16	1,230.33	118.54	-115.73	-119.41	2.00	1.99	0.68
1,341.00	19.63	310.55	1,319.22	138.93	-138.52	-139.96	1.64	1.37	-2.78
1,528.00	23.16	312.34	1,493.31	184.13	-189.58	-185.55	1.92	1.89	0.96
1,624.00	22.94	312.99	1,581.64	209.60	-217.22	-211.22	0.35	-0.23	0.68
1,719.00	22.40	313.33	1,669.30	234.65	-243.93	-236.47	0.58	-0.57	0.36
1,814.00	21.60	313.92	1,757.39	259.20	-269.70	-261.21	0.87	-0.84	0.62
1,867.00	21.45	314.01	1,806.69	272.70	-283.69	-274.82	0.29	-0.28	0.17
Last SDI MWD Surface Survey									
1,984.00	21.29	314.96	1,915.65	302.57	-314.11	-304.92	0.33	-0.14	0.81
First SDI MWD Production Survey									
2,078.00	21.47	314.06	2,003.18	326.59	-338.55	-329.12	0.40	0.19	-0.96
2,173.00	23.28	313.58	2,091.02	351.62	-364.64	-354.35	1.91	1.91	-0.51
2,268.00	23.33	311.56	2,178.27	377.05	-392.32	-379.98	0.84	0.05	-2.13
2,363.00	23.26	311.44	2,265.53	401.94	-420.45	-405.08	0.09	-0.07	-0.13
2,458.00	22.85	307.05	2,352.95	425.47	-449.24	-428.83	1.86	-0.43	-4.62
2,553.00	22.28	304.78	2,440.67	446.86	-478.75	-450.44	1.10	-0.60	-2.39
2,648.00	21.33	302.86	2,528.88	466.50	-508.06	-470.30	1.25	-1.00	-2.02
2,742.00	20.05	302.26	2,616.81	484.38	-536.05	-488.39	1.38	-1.36	-0.64
2,837.00	19.10	299.75	2,706.32	500.79	-563.31	-505.00	1.34	-1.00	-2.64
2,931.00	21.55	296.54	2,794.47	516.14	-592.12	-520.56	2.86	2.61	-3.41
3,025.00	22.64	296.43	2,881.56	531.90	-623.76	-536.57	1.16	1.16	-0.12
3,120.00	22.20	295.74	2,969.38	547.84	-656.30	-552.75	0.54	-0.46	-0.73
3,214.00	23.51	296.92	3,056.00	564.04	-689.02	-569.19	1.48	1.39	1.26
3,309.00	23.72	300.00	3,143.05	582.17	-722.46	-587.58	1.32	0.22	3.24
3,404.00	21.79	302.24	3,230.65	601.13	-753.93	-606.77	2.23	-2.03	2.36
3,498.00	20.96	308.86	3,318.20	620.99	-781.78	-626.84	2.71	-0.88	7.04
3,593.00	19.71	311.90	3,407.28	642.35	-806.94	-648.39	1.72	-1.32	3.20
3,685.00	17.81	312.34	3,494.39	662.19	-828.89	-668.39	2.07	-2.07	0.48
3,780.00	16.91	315.12	3,585.06	681.77	-849.37	-688.12	1.29	-0.95	2.93
3,874.00	18.26	321.67	3,674.67	703.01	-868.16	-709.51	2.55	1.44	6.97
3,969.00	19.07	321.24	3,764.68	726.79	-887.10	-733.42	0.86	0.85	-0.45
3,993.36	19.48	322.75	3,787.67	733.12	-892.05	-739.80	2.66	1.69	6.21
Enter LandBox: 3993.36' MD & 3787.71' TVD									
4,063.00	20.72	326.75	3,853.07	752.67	-905.84	-759.45	2.66	1.78	5.74
4,158.00	21.62	328.17	3,941.66	781.60	-924.28	-788.51	1.09	0.95	1.49
4,251.00	20.16	326.19	4,028.55	809.47	-942.24	-816.52	1.74	-1.57	-2.13
4,347.00	19.74	326.59	4,118.78	836.75	-960.37	-843.93	0.46	-0.44	0.42
4,442.00	20.74	329.65	4,207.92	864.66	-977.70	-871.97	1.53	1.05	3.22
4,535.00	22.30	339.49	4,294.46	895.41	-992.21	-902.83	4.22	1.68	10.58

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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4,630.00	23.25	345.77	4,382.07	930.47	-1,003.14	-937.97	2.75	1.00	6.61	
4,725.00	21.40	348.64	4,469.95	965.64	-1,011.16	-973.20	2.26	-1.95	3.02	
4,819.00	20.93	349.79	4,557.61	998.98	-1,017.52	-1,006.59	0.67	-0.50	1.22	
4,914.00	20.95	352.39	4,646.33	1,032.51	-1,022.77	-1,040.16	0.98	0.02	2.74	
5,007.00	21.09	352.72	4,733.14	1,065.59	-1,027.09	-1,073.27	0.20	0.15	0.35	
5,100.00	20.07	351.65	4,820.21	1,097.98	-1,031.53	-1,105.69	1.17	-1.10	-1.15	
5,195.00	18.36	350.61	4,909.91	1,128.87	-1,036.34	-1,136.61	1.84	-1.80	-1.09	
5,288.00	17.22	349.46	4,998.46	1,156.85	-1,041.25	-1,164.63	1.28	-1.23	-1.24	
5,382.00	16.08	354.87	5,088.53	1,183.50	-1,044.96	-1,191.31	2.05	-1.21	5.76	
5,475.00	15.17	357.44	5,178.09	1,208.49	-1,046.65	-1,216.31	1.23	-0.98	2.76	
5,568.00	13.38	356.55	5,268.22	1,231.38	-1,047.85	-1,239.21	1.94	-1.92	-0.96	
5,662.00	11.63	1.66	5,359.98	1,251.71	-1,048.23	-1,259.55	2.20	-1.86	5.44	
5,756.00	9.67	5.62	5,452.36	1,269.04	-1,047.18	-1,276.87	2.22	-2.09	4.21	
5,850.00	8.05	4.58	5,545.24	1,283.46	-1,045.88	-1,291.27	1.73	-1.72	-1.11	
5,944.00	6.80	1.23	5,638.45	1,295.59	-1,045.23	-1,303.39	1.41	-1.33	-3.56	
6,038.00	5.27	355.63	5,731.93	1,305.46	-1,045.44	-1,313.26	1.74	-1.63	-5.96	
6,132.00	4.28	351.12	5,825.60	1,313.23	-1,046.31	-1,321.04	1.13	-1.05	-4.80	
6,226.00	3.20	346.32	5,919.40	1,319.24	-1,047.48	-1,327.06	1.20	-1.15	-5.11	
6,320.00	2.77	348.10	6,013.27	1,324.01	-1,048.56	-1,331.84	0.47	-0.46	1.89	
6,414.00	2.29	336.65	6,107.18	1,327.96	-1,049.78	-1,335.80	0.74	-0.51	-12.18	
6,509.00	2.21	334.76	6,202.10	1,331.36	-1,051.31	-1,339.21	0.11	-0.08	-1.99	
6,604.00	1.51	353.72	6,297.05	1,334.26	-1,052.23	-1,342.12	0.97	-0.74	19.96	
6,699.00	1.31	4.34	6,392.03	1,336.59	-1,052.28	-1,344.45	0.35	-0.21	11.18	
6,793.00	0.36	115.75	6,486.02	1,337.53	-1,051.94	-1,345.39	1.57	-1.01	118.52	
6,888.00	0.95	262.63	6,581.01	1,337.30	-1,052.45	-1,345.16	1.33	0.62	154.61	
6,982.00	1.28	267.13	6,675.00	1,337.15	-1,054.27	-1,345.02	0.36	0.35	4.79	
7,077.00	1.78	256.80	6,769.96	1,336.76	-1,056.77	-1,344.65	0.60	0.53	-10.87	
7,169.00	2.32	256.65	6,861.90	1,336.00	-1,059.97	-1,343.92	0.59	0.59	-0.16	
7,263.00	10.80	203.50	6,955.25	1,327.46	-1,065.34	-1,335.42	10.20	9.02	-56.54	
7,356.00	19.79	190.71	7,044.89	1,303.95	-1,071.76	-1,311.96	10.27	9.67	-13.75	
7,450.00	24.88	191.11	7,131.81	1,268.89	-1,078.53	-1,276.95	5.42	5.41	0.43	
7,542.00	26.55	186.04	7,214.70	1,229.44	-1,084.42	-1,237.55	3.00	1.82	-5.51	
7,637.00	36.90	180.53	7,295.42	1,179.66	-1,086.93	-1,187.79	11.30	10.89	-5.80	
7,730.00	50.47	179.23	7,362.51	1,115.58	-1,086.71	-1,123.71	14.62	14.59	-1.40	
7,824.00	61.55	175.71	7,414.99	1,037.87	-1,083.11	-1,045.97	12.19	11.79	-3.74	
7,917.00	71.19	177.23	7,452.23	952.93	-1,077.92	-960.99	10.47	10.37	1.63	
8,011.00	80.32	176.67	7,475.33	862.05	-1,073.07	-870.07	9.73	9.71	-0.60	
8,107.00	86.68	179.80	7,486.20	766.77	-1,070.15	-774.78	7.37	6.63	3.26	
Landing Point (271' FNL 280' FWL)										
8,203.00	91.17	179.29	7,488.00	670.81	-1,069.38	-678.82	4.71	4.68	-0.53	
8,297.00	93.15	178.59	7,484.46	576.90	-1,067.65	-584.90	2.23	2.11	-0.74	
8,391.00	93.18	178.39	7,479.27	483.08	-1,065.17	-491.06	0.21	0.03	-0.21	
8,486.00	91.70	177.71	7,475.22	388.22	-1,061.94	-396.18	1.71	-1.56	-0.72	

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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)
8,581.00	92.28	179.97	7,471.92	293.31	-1,060.02	-301.25	2.45	0.61	2.38
8,676.00	91.23	180.33	7,469.01	198.35	-1,060.27	-206.30	1.17	-1.11	0.38
8,770.00	90.37	180.03	7,467.70	104.36	-1,060.56	-112.32	0.97	-0.91	-0.32
8,864.00	87.82	179.66	7,469.19	10.38	-1,060.31	-18.34	2.74	-2.71	-0.39
8,957.00	89.16	180.13	7,471.64	-82.58	-1,060.14	74.62	1.53	1.44	0.51
9,051.00	90.70	179.96	7,471.75	-176.58	-1,060.21	168.62	1.65	1.64	-0.18
9,146.00	87.35	180.49	7,473.37	-271.55	-1,060.59	263.58	3.57	-3.53	0.56
9,240.00	86.68	180.04	7,478.26	-365.42	-1,061.02	357.45	0.86	-0.71	-0.48
9,334.00	88.03	177.72	7,482.60	-459.30	-1,059.18	451.33	2.85	1.44	-2.47
9,429.00	89.26	177.92	7,484.85	-554.20	-1,055.57	546.26	1.31	1.29	0.21
9,522.00	88.16	177.00	7,486.94	-647.08	-1,051.45	639.17	1.54	-1.18	-0.99
9,615.00	87.22	176.27	7,490.69	-739.84	-1,046.00	731.97	1.28	-1.01	-0.78
9,709.00	89.87	177.62	7,493.08	-833.67	-1,040.99	825.83	3.16	2.82	1.44
9,805.00	90.37	176.99	7,492.87	-929.56	-1,036.48	921.76	0.84	0.52	-0.66
9,899.00	89.83	178.44	7,492.71	-1,023.48	-1,032.73	1,015.71	1.65	-0.57	1.54
9,993.00	90.13	179.52	7,492.74	-1,117.47	-1,031.06	1,109.70	1.19	0.32	1.15
10,088.00	89.73	178.53	7,492.86	-1,212.45	-1,029.44	1,204.69	1.12	-0.42	-1.04
10,182.00	89.63	179.18	7,493.38	-1,306.43	-1,027.56	1,298.68	0.70	-0.11	0.69
10,276.00	89.33	180.38	7,494.24	-1,400.43	-1,027.20	1,392.68	1.32	-0.32	1.28
10,371.00	90.91	180.88	7,494.04	-1,495.42	-1,028.25	1,487.66	1.74	1.66	0.53
10,465.00	88.32	180.16	7,494.67	-1,589.40	-1,029.10	1,581.63	2.86	-2.76	-0.77
10,557.00	88.56	179.71	7,497.18	-1,681.37	-1,028.99	1,673.60	0.55	0.26	-0.49
10,652.00	88.99	179.49	7,499.21	-1,776.34	-1,028.33	1,768.58	0.51	0.45	-0.23
10,746.00	89.56	178.23	7,500.40	-1,870.31	-1,026.46	1,862.56	1.47	0.61	-1.34
10,839.00	91.64	178.32	7,499.42	-1,963.26	-1,023.66	1,955.52	2.24	2.24	0.10
10,933.00	89.87	179.08	7,498.18	-2,057.23	-1,021.53	2,049.50	2.05	-1.88	0.81
11,027.00	90.47	179.60	7,497.90	-2,151.22	-1,020.45	2,143.50	0.84	0.64	0.55
11,121.00	89.13	178.86	7,498.23	-2,245.21	-1,019.18	2,237.49	1.63	-1.43	-0.79
11,214.00	88.93	178.15	7,499.81	-2,338.16	-1,016.76	2,330.46	0.79	-0.22	-0.76
11,308.00	89.16	177.12	7,501.37	-2,432.07	-1,012.88	2,424.40	1.12	0.24	-1.10
11,402.00	91.07	177.41	7,501.18	-2,525.95	-1,008.39	2,518.32	2.06	2.03	0.31
11,497.00	91.71	177.57	7,498.88	-2,620.83	-1,004.23	2,613.22	0.69	0.67	0.17
11,592.00	91.31	177.54	7,496.38	-2,715.72	-1,000.18	2,708.13	0.42	-0.42	-0.03
11,686.00	91.54	177.48	7,494.04	-2,809.60	-996.10	2,802.04	0.25	0.24	-0.06
11,779.00	89.73	178.45	7,493.01	-2,902.53	-992.80	2,895.00	2.21	-1.95	1.04
11,873.00	91.41	179.90	7,492.07	-2,996.51	-991.45	2,988.98	2.36	1.79	1.54
11,965.00	90.40	179.31	7,490.62	-3,088.49	-990.81	3,080.97	1.27	-1.10	-0.64
12,059.00	90.47	179.33	7,489.91	-3,182.48	-989.70	3,174.97	0.08	0.07	0.02
12,151.00	90.57	179.04	7,489.07	-3,274.47	-988.39	3,266.96	0.33	0.11	-0.32
12,244.00	91.07	178.91	7,487.74	-3,367.45	-986.72	3,359.95	0.56	0.54	-0.14
12,337.00	89.56	179.45	7,487.23	-3,460.43	-985.39	3,452.94	1.72	-1.62	0.58
12,430.00	89.36	179.59	7,488.11	-3,553.42	-984.61	3,545.93	0.26	-0.22	0.15
12,524.00	90.20	179.69	7,488.47	-3,647.42	-984.02	3,639.93	0.90	0.89	0.11
12,618.00	90.34	179.76	7,488.02	-3,741.42	-983.57	3,733.93	0.17	0.15	0.07

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Land Fed 34C-32HZ
Project:	US Rockies Wattenberg Planning	TVD Reference:	GL 4899' & KB 20' @ 4919.00ft (Precision 461)
Site:	Land 18-32HZ Pad 2N-66W-32	MD Reference:	GL 4899' & KB 20' @ 4919.00ft (Precision 461)
Well:	Land Fed 34C-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)	
12,711.00	90.54	179.96	7,487.31	-3,834.42	-983.34	3,826.93	0.30	0.22	0.22	
12,803.00	91.54	178.49	7,485.64	-3,926.39	-982.10	3,918.91	1.93	1.09	-1.60	
12,888.00	91.74	179.08	7,483.21	-4,011.33	-980.30	4,003.86	0.73	0.24	0.69	
Last SDI MWD Survey										
12,955.00	91.74	179.08	7,481.17	-4,078.29	-979.22	4,070.83	0.00	0.00	0.00	
Projection to TD (171' FSL 363' FWL)										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
213.00	212.96	2.88	-1.91	First SDI MWD Surface Survey	
1,867.00	1,806.69	272.70	-283.69	Last SDI MWD Surface Survey	
1,984.00	1,915.65	302.57	-314.11	First SDI MWD Production Survey	
3,993.36	3,787.67	733.12	-892.05	Enter LandBox: 3993.36' MD & 3787.71' TVD	
8,107.00	7,486.20	766.77	-1,070.15	Landing Point (271' FNL 280' FWL)	
12,888.00	7,483.21	-4,011.33	-980.30	Last SDI MWD Survey	
12,955.00	7,481.17	-4,078.29	-979.22	Projection to TD (171' FSL 363' FWL)	

Checked By: _____ Approved By: _____ Date: _____