



Precision Drilling Corporation

Survey Report

Company: US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference: Well Babcock 11N-33HZ
Project: WELD-NAD83-UTMFT13N	TVD Reference: 4886'GL + 21' KB @ 4907.00usft (PD464)
Site: 3N-67W-33 Babcock 6-4HZ Pad	MD Reference: 4886'GL + 21' KB @ 4907.00usft (PD464)
Well: Babcock 11N-33HZ	North Reference: True
Wellbore: Original Hole	Survey Calculation Method: Minimum Curvature
Design: Original Hole	Database: Local Database

Project WELD-NAD83-UTMFT13N	
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 3N-67W-33 Babcock 6-4HZ Pad		
Site Position:	Northing: 14,588,357.65 usft	Latitude: 40.169184°N
From: Lat/Long	Easting: 1,669,071.31 usft	Longitude: 104.897427°W
Position Uncertainty: 0.00 usft	Slot Radius: 13.20 in	Grid Convergence: 0.07 °

Well Babcock 11N-33HZ		
Well Position +N/-S 0.00 usft	Northing: 14,588,357.09 usft	Latitude: 40.169182°N
+E/-W 0.00 usft	Easting: 1,669,221.05 usft	Longitude: 104.896891°W
Position Uncertainty 3.28 usft	Wellhead Elevation: 0.00 usft	Ground Level: 4,886.00 usft

Wellbore Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2016/04/04	8.27	66.68	52,490

Design Original Hole					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00			
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.90	

Survey Program		Date 2017/05/29		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
9.00	1,818.00	Survey #1 (Original Hole)	APC_ISCWSA REV 2 MV Fixed:v2:crustal field declination	
1,925.00	12,199.00	Survey #2 (Original Hole)	APC_ISCWSA REV 2 MV Fixed:v2:crustal field declination	
12,251.00	12,251.00	Survey #3 (Original Hole)	APC_BLIND	OWSG BLIND

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
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
203.00	0.13	7.25	203.00	0.22	0.03	0.22	0.07	0.07	0.07	0.00
291.00	0.15	52.39	291.00	0.39	0.13	0.39	0.12	0.02	0.02	51.30
380.00	0.17	68.59	380.00	0.51	0.35	0.51	0.06	0.02	0.02	18.20
469.00	0.34	347.51	469.00	0.81	0.41	0.81	0.40	0.19	0.19	-91.10
554.00	0.31	266.31	554.00	1.04	0.13	1.04	0.50	-0.04	-0.04	-95.53
640.00	1.55	191.70	639.99	-0.11	-0.34	-0.11	1.74	1.44	1.44	-86.76
729.00	2.73	197.53	728.92	-3.31	-1.22	-3.31	1.35	1.33	1.33	6.55

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Well:	Babcock 11N-33HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Local Database

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)	
816.00	4.36	197.46	815.75	-8.44	-2.84	-8.44	1.87	1.87	-0.08	
904.00	5.93	200.98	903.40	-15.88	-5.47	-15.87	1.82	1.78	4.00	
990.00	7.64	201.41	988.79	-25.35	-9.15	-25.33	1.99	1.99	0.50	
1,078.00	9.22	200.20	1,075.84	-37.41	-13.72	-37.39	1.81	1.80	-1.38	
1,166.00	10.83	196.79	1,162.49	-51.94	-18.54	-51.91	1.95	1.83	-3.88	
1,255.00	11.90	193.62	1,249.75	-68.87	-23.12	-68.83	1.39	1.20	-3.56	
1,344.00	13.46	193.37	1,336.57	-87.86	-27.67	-87.81	1.75	1.75	-0.28	
1,430.00	14.50	191.15	1,420.02	-108.16	-32.07	-108.11	1.36	1.21	-2.58	
1,517.00	15.62	191.46	1,504.04	-130.33	-36.50	-130.27	1.29	1.29	0.36	
1,604.00	16.43	192.92	1,587.65	-153.80	-41.58	-153.73	1.04	0.93	1.68	
1,692.00	17.40	194.34	1,671.85	-178.68	-47.62	-178.60	1.20	1.10	1.61	
1,781.00	17.13	195.83	1,756.84	-204.18	-54.49	-204.09	0.58	-0.30	1.67	
1,818.00	17.04	198.19	1,792.20	-214.58	-57.67	-214.47	1.89	-0.24	6.38	
1,925.00	16.35	198.05	1,894.69	-243.79	-67.23	-243.67	0.65	-0.64	-0.13	
2,014.00	15.91	190.49	1,980.20	-267.70	-73.34	-267.57	2.41	-0.49	-8.49	
2,104.00	18.09	194.71	2,066.26	-293.35	-79.13	-293.21	2.78	2.42	4.69	
2,194.00	18.33	200.07	2,151.76	-320.16	-87.54	-320.00	1.88	0.27	5.96	
2,283.00	17.05	199.28	2,236.55	-345.62	-96.65	-345.45	1.46	-1.44	-0.89	
2,373.00	16.39	196.11	2,322.75	-370.27	-104.53	-370.09	1.25	-0.73	-3.52	
2,462.00	15.54	192.34	2,408.32	-393.98	-110.56	-393.79	1.51	-0.96	-4.24	
2,552.00	16.64	200.24	2,494.80	-417.85	-117.60	-417.65	2.72	1.22	8.78	
2,642.00	16.42	200.16	2,581.08	-441.89	-126.44	-441.67	0.25	-0.24	-0.09	
2,731.00	18.79	200.60	2,665.91	-467.12	-135.82	-466.88	2.67	2.66	0.49	
2,821.00	18.15	199.89	2,751.27	-493.87	-145.69	-493.61	0.75	-0.71	-0.79	
2,911.00	17.23	199.02	2,837.02	-519.65	-154.80	-519.38	1.06	-1.02	-0.97	
3,000.00	16.22	197.17	2,922.25	-543.99	-162.77	-543.70	1.28	-1.13	-2.08	
3,090.00	15.45	196.20	3,008.83	-567.51	-169.82	-567.21	0.90	-0.86	-1.08	
3,180.00	14.11	194.97	3,095.85	-589.62	-176.00	-589.31	1.53	-1.49	-1.37	
3,270.00	14.64	194.97	3,183.04	-611.21	-181.77	-610.89	0.59	0.59	0.00	
3,359.00	14.79	191.54	3,269.12	-633.20	-186.95	-632.87	0.99	0.17	-3.85	
3,449.00	17.76	194.71	3,355.50	-657.74	-192.73	-657.40	3.44	3.30	3.52	
3,538.00	16.59	193.48	3,440.53	-683.23	-199.14	-682.88	1.38	-1.31	-1.38	
3,628.00	14.77	191.72	3,527.18	-706.95	-204.47	-706.60	2.09	-2.02	-1.96	
3,717.00	13.05	191.02	3,613.57	-727.93	-208.69	-727.56	1.94	-1.93	-0.79	
3,807.00	11.08	192.60	3,701.58	-746.34	-212.52	-745.97	2.22	-2.19	1.76	
3,896.00	9.52	190.14	3,789.14	-761.93	-215.68	-761.56	1.82	-1.75	-2.76	
3,986.00	10.37	198.84	3,877.79	-776.93	-219.61	-776.54	1.92	0.94	9.67	
4,075.00	9.74	196.99	3,965.43	-791.71	-224.40	-791.32	0.80	-0.71	-2.08	
4,165.00	9.32	197.70	4,054.18	-805.93	-228.84	-805.53	0.48	-0.47	0.79	
4,255.00	6.48	196.55	4,143.32	-817.75	-232.50	-817.34	3.16	-3.16	-1.28	
4,345.00	5.36	201.65	4,232.84	-826.52	-235.50	-826.11	1.37	-1.24	5.67	
4,434.00	2.92	197.17	4,321.60	-832.55	-237.70	-832.14	2.76	-2.74	-5.03	
4,524.00	2.59	204.11	4,411.50	-836.60	-239.21	-836.18	0.52	-0.37	7.71	

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Survey										
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4,614.00	0.68	134.06	4,501.46	-838.83	-239.66	-838.41	2.71	-2.12	-77.83	
4,704.00	0.81	136.96	4,591.45	-839.66	-238.84	-839.24	0.15	0.14	3.22	
4,793.00	0.66	151.55	4,680.45	-840.57	-238.16	-840.16	0.27	-0.17	16.39	
4,883.00	0.81	99.70	4,770.44	-841.14	-237.29	-840.72	0.73	0.17	-57.61	
4,972.00	0.81	57.69	4,859.43	-840.91	-236.14	-840.49	0.65	0.00	-47.20	
5,062.00	1.03	57.07	4,949.42	-840.13	-234.92	-839.72	0.24	0.24	-0.69	
5,152.00	0.90	23.59	5,039.41	-839.04	-233.96	-838.63	0.63	-0.14	-37.20	
5,267.00	0.73	9.52	5,154.40	-837.49	-233.48	-837.08	0.23	-0.15	-12.23	
5,356.00	2.11	118.42	5,243.38	-837.71	-231.94	-837.30	2.75	1.55	122.36	
5,446.00	3.03	140.04	5,333.29	-840.32	-228.96	-839.92	1.47	1.02	24.02	
5,535.00	2.33	141.01	5,422.19	-843.53	-226.31	-843.13	0.79	-0.79	1.09	
5,625.00	1.32	200.16	5,512.15	-845.93	-225.52	-845.53	2.23	-1.12	65.72	
5,715.00	0.81	213.78	5,602.13	-847.43	-226.23	-847.03	0.63	-0.57	15.13	
5,804.00	0.70	223.54	5,691.12	-848.34	-226.95	-847.95	0.19	-0.12	10.97	
5,894.00	0.75	233.12	5,781.12	-849.10	-227.80	-848.70	0.15	0.06	10.64	
5,983.00	0.70	247.53	5,870.11	-849.65	-228.77	-849.25	0.21	-0.06	16.19	
6,073.00	0.84	258.25	5,960.10	-850.00	-229.92	-849.60	0.22	0.16	11.91	
6,163.00	1.10	243.84	6,050.09	-850.51	-231.34	-850.11	0.39	0.29	-16.01	
6,252.00	1.16	254.65	6,139.07	-851.13	-232.98	-850.72	0.25	0.07	12.15	
6,342.00	1.45	255.26	6,229.05	-851.66	-234.96	-851.25	0.32	0.32	0.68	
6,432.00	1.56	247.00	6,319.02	-852.43	-237.19	-852.01	0.27	0.12	-9.18	
6,521.00	1.54	323.73	6,407.99	-851.94	-239.01	-851.52	2.16	-0.02	86.21	
6,611.00	1.10	145.23	6,497.99	-851.67	-239.23	-851.25	2.93	-0.49	-198.33	
6,700.00	0.24	232.06	6,586.98	-852.49	-238.89	-852.07	1.25	-0.97	97.56	
6,790.00	13.32	0.03	6,676.18	-842.19	-239.04	-841.77	14.97	14.53	142.19	
6,880.00	18.39	357.31	6,762.73	-817.62	-239.70	-817.20	5.69	5.63	-3.02	
6,969.00	25.01	359.85	6,845.38	-784.75	-240.41	-784.33	7.51	7.44	2.85	
7,059.00	31.75	0.91	6,924.52	-742.00	-240.08	-741.58	7.51	7.49	1.18	
7,149.00	37.89	2.05	6,998.37	-690.65	-238.71	-690.24	6.86	6.82	1.27	
7,239.00	43.29	0.47	7,066.69	-632.13	-237.47	-631.72	6.11	6.00	-1.76	
7,329.00	51.51	358.62	7,127.56	-565.95	-238.07	-565.53	9.26	9.13	-2.06	
7,418.00	57.64	357.13	7,179.12	-493.52	-240.79	-493.09	7.02	6.89	-1.67	
7,508.00	62.87	357.74	7,223.76	-415.48	-244.28	-415.05	5.84	5.81	0.68	
7,598.00	72.47	0.29	7,257.92	-332.35	-245.64	-331.92	10.98	10.67	2.83	
7,687.00	79.51	1.00	7,279.45	-246.05	-244.66	-245.63	7.95	7.91	0.80	
7,718.00	82.87	1.76	7,284.20	-215.43	-243.92	-215.01	11.10	10.83	2.46	
Land Box Entry										
7,777.00	89.26	3.19	7,288.25	-156.66	-241.38	-156.24	11.10	10.84	2.42	
Landing Point										
7,866.00	90.36	1.96	7,288.54	-67.75	-237.38	-67.34	1.85	1.24	-1.38	
7,956.00	90.14	1.09	7,288.15	22.21	-234.99	22.62	1.00	-0.24	-0.97	
8,046.00	89.90	0.73	7,288.12	112.20	-233.56	112.61	0.48	-0.27	-0.40	
8,135.00	91.53	1.88	7,287.01	201.17	-231.53	201.57	2.24	1.83	1.29	
8,225.00	91.15	1.35	7,284.90	291.11	-228.99	291.51	0.72	-0.42	-0.59	

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Local Database

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)
8,315.00	91.75	1.96	7,282.63	381.04	-226.39	381.43	0.95	0.67	0.68
8,404.00	91.11	358.62	7,280.40	470.00	-225.95	470.39	3.82	-0.72	-3.75
8,494.00	90.10	357.13	7,279.45	559.93	-229.28	560.33	2.00	-1.12	-1.66
8,584.00	90.65	0.03	7,278.87	649.89	-231.51	650.29	3.28	0.61	3.22
8,673.00	90.60	0.65	7,277.89	738.88	-230.98	739.28	0.70	-0.06	0.70
8,763.00	91.22	2.49	7,276.47	828.83	-228.52	829.23	2.16	0.69	2.04
8,852.00	90.82	2.84	7,274.88	917.72	-224.38	918.11	0.60	-0.45	0.39
8,942.00	90.08	0.65	7,274.17	1,007.67	-221.64	1,008.05	2.57	-0.82	-2.43
9,032.00	89.46	0.65	7,274.54	1,097.66	-220.62	1,098.05	0.69	-0.69	0.00
9,121.00	89.92	0.65	7,275.02	1,186.66	-219.61	1,187.04	0.52	0.52	0.00
9,126.00	89.91	0.51	7,275.02	1,191.65	-219.56	1,192.04	2.85	-0.19	-2.84
460' Setback #1 Crossing									
9,211.00	89.75	358.09	7,275.28	1,276.64	-220.60	1,277.02	2.85	-0.19	-2.84
9,301.00	91.13	1.46	7,274.58	1,366.62	-220.95	1,367.01	4.05	1.53	3.74
9,391.00	89.26	356.47	7,274.28	1,456.58	-222.58	1,456.96	5.92	-2.08	-5.54
9,480.00	89.26	354.89	7,275.43	1,545.31	-229.28	1,545.71	1.78	0.00	-1.78
9,570.00	88.36	357.13	7,277.30	1,635.07	-235.54	1,635.48	2.68	-1.00	2.49
9,659.00	89.48	359.00	7,278.97	1,724.00	-238.55	1,724.41	2.45	1.26	2.10
9,749.00	90.87	358.66	7,278.70	1,813.97	-240.38	1,814.39	1.59	1.54	-0.38
9,839.00	93.53	358.92	7,275.25	1,903.88	-242.28	1,904.30	2.97	2.96	0.29
9,928.00	93.31	358.49	7,269.94	1,992.70	-244.29	1,993.12	0.54	-0.25	-0.48
10,018.00	90.05	358.52	7,267.30	2,082.62	-246.64	2,083.04	3.62	-3.62	0.03
10,108.00	89.73	358.61	7,267.47	2,172.59	-248.89	2,173.02	0.37	-0.36	0.10
10,197.00	90.43	359.72	7,267.35	2,261.58	-250.19	2,262.01	1.47	0.79	1.25
10,287.00	89.26	359.69	7,267.59	2,351.57	-250.65	2,352.01	1.30	-1.30	-0.03
10,377.00	88.12	359.85	7,269.65	2,441.55	-251.01	2,441.98	1.28	-1.27	0.18
10,466.00	89.09	359.91	7,271.81	2,530.52	-251.20	2,530.96	1.09	1.09	0.07
10,556.00	91.79	2.90	7,271.12	2,620.47	-248.99	2,620.90	4.48	3.00	3.32
10,646.00	92.05	1.74	7,268.11	2,710.35	-245.35	2,710.77	1.32	0.29	-1.29
10,735.00	92.19	0.87	7,264.81	2,799.26	-243.33	2,799.68	0.99	0.16	-0.98
10,825.00	91.68	1.29	7,261.78	2,889.19	-241.63	2,889.61	0.73	-0.57	0.47
10,914.00	90.38	0.56	7,260.18	2,978.17	-240.20	2,978.58	1.68	-1.46	-0.82
10,932.00	90.55	0.99	7,260.03	2,996.16	-239.95	2,996.58	2.55	0.96	2.37
460' Setback #2 Crossing									
11,004.00	91.24	2.69	7,258.90	3,068.11	-237.64	3,068.52	2.55	0.96	2.37
11,094.00	90.32	2.49	7,257.68	3,158.01	-233.58	3,158.42	1.05	-1.02	-0.22
11,183.00	89.90	2.35	7,257.51	3,246.93	-229.82	3,247.33	0.50	-0.47	-0.16
11,273.00	89.42	1.14	7,258.04	3,336.89	-227.08	3,337.28	1.45	-0.53	-1.34
11,363.00	90.25	359.38	7,258.30	3,426.88	-226.67	3,427.27	2.16	0.92	-1.96
11,452.00	89.57	359.44	7,258.44	3,515.88	-227.59	3,516.27	0.77	-0.76	0.07
11,542.00	89.35	0.17	7,259.29	3,605.87	-227.89	3,606.26	0.85	-0.24	0.81
11,632.00	90.52	358.89	7,259.39	3,695.87	-228.63	3,696.26	1.93	1.30	-1.42
11,722.00	90.01	358.96	7,258.97	3,785.85	-230.32	3,786.24	0.57	-0.57	0.08

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Babcock 11N-33HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	4886'GL + 21' KB @ 4907.00usft (PD464)
Site:	3N-67W-33 Babcock 6-4HZ Pad	MD Reference:	4886'GL + 21' KB @ 4907.00usft (PD464)
Well:	Babcock 11N-33HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Local Database

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)
11,811.00	89.51	359.31	7,259.35	3,874.84	-231.66	3,875.24	0.69	-0.56	0.39
11,901.00	92.34	358.80	7,257.89	3,964.80	-233.15	3,965.20	3.20	3.14	-0.57
11,990.00	91.24	359.07	7,255.11	4,053.74	-234.80	4,054.15	1.27	-1.24	0.30
12,080.00	90.69	359.05	7,253.60	4,143.72	-236.28	4,144.12	0.61	-0.61	-0.02
12,170.00	90.69	359.08	7,252.52	4,233.70	-237.75	4,234.11	0.03	0.00	0.03
12,199.00	90.21	359.32	7,252.29	4,262.70	-238.15	4,263.11	1.85	-1.66	0.83
12,251.00	90.21	359.32	7,252.10	4,314.69	-238.77	4,315.10	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Surface 11N-33HZ - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	14,588,357.09	1,669,221.05	40.169182°N	104.896891°W
PBHL 11N-33HZ - actual wellpath misses target center by 15.29usft at 12250.90usft MD (7252.10 TVD, 4314.59 N, -238.77 E) - Point	0.00	0.00	7,238.00	4,314.47	-244.68	14,592,671.28	1,668,971.37	40.181030°N	104.897767°W
BHL 11N-33HZ - actual wellpath hits target center - Point	0.00	0.00	7,252.10	4,314.69	-238.77	14,592,671.51	1,668,977.27	40.181031°N	104.897746°W
460' Setback #2 Cros: - actual wellpath hits target center - Point	0.00	0.00	7,260.03	2,996.16	-239.95	14,591,352.98	1,668,977.62	40.177410°N	104.897750°W
460' Setback #1 Cros: - actual wellpath hits target center - Point	0.00	0.00	7,275.02	1,191.65	-219.56	14,589,548.49	1,669,000.11	40.172455°N	104.897677°W
Land Box Entry 11N-3 - actual wellpath hits target center - Point	0.00	0.00	7,284.20	-215.43	-243.92	14,588,141.38	1,668,977.38	40.168590°N	104.897764°W
LP (Actual) 11N-33HZ - actual wellpath hits target center - Point	0.00	0.00	7,288.25	-156.66	-241.38	14,588,200.15	1,668,979.85	40.168752°N	104.897755°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,718.00	7,284.20	-215.43	-243.92	Land Box Entry	
7,777.00	7,288.25	-156.66	-241.38	Landing Point	
9,126.00	7,275.02	1,191.65	-219.56	460' Setback #1 Crossing	
10,932.00	7,260.03	2,996.16	-239.95	460' Setback #2 Crossing	