



Vertical Section at 0.00° (1000 usft/in)
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface 35C-33HZ	0.00	0.00	0.00	14588357.05	1669176.08	40.169182°N	104.897052°W	Point
KOP 35C-33HZ	6721.81	-835.19	-718.60	14587521.02	1668458.45	40.166888°N	104.899624°W	Point
PBHL 35C-33HZ	7379.00	4322.13	-710.29	14592678.35	1668460.78	40.181051°N	104.899595°W	Point
BHL 35C-33HZ	7384.42	4312.84	-714.96	14592669.05	1668456.12	40.181025°N	104.899612°W	Point
460' Toe Entry 35C-33HZ	7384.86	3004.54	-707.10	14591360.76	1668465.49	40.177433°N	104.899583°W	Point
Land Box Entry 35C-33HZ	7408.33	-205.72	-693.90	14588150.52	1668482.42	40.168617°N	104.899536°W	Point
460' Heel Exit 35C-33HZ	7408.90	1198.38	-709.16	14589554.61	1668465.53	40.172473°N	104.899591°W	Point
Landing Point 35C-33HZ	7409.58	-130.79	-691.73	14588225.46	1668484.50	40.168823°N	104.899528°W	Point

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Babcock 35C-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 35C-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
From:	Lat/Long	Easting:	1,669,071.31 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	40.169184°N
		Longitude:	104.897427°W
		Grid Convergence:	0.07 °

Well	Babcock 35C-33HZ		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	3.28 usft	Wellhead Elevation:	0.00 usft
		Latitude:	40.169182°N
		Longitude:	104.897052°W
		Ground Level:	4,886.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/04/16	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		0.00

Survey Program	Date	06/07/17			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
9.00	1,822.00	Survey #1 (Original Hole)	APC_ISCWSA REV 2 MV Fixed:v2:crustal field declination		
1,924.00	12,348.00	Survey #2 (Original Hole)	APC_ISCWSA REV 2 MV Fixed:v2:crustal field declination		
12,402.00	12,402.00	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	
9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
174.00	0.44	188.20	174.00	-0.63	-0.09	-0.63	0.27	0.27	0.00	
291.00	0.40	199.38	291.00	-1.46	-0.29	-1.46	0.08	-0.03	9.56	
380.00	0.92	198.00	379.99	-2.43	-0.61	-2.43	0.58	0.58	-1.55	
469.00	1.45	192.45	468.97	-4.21	-1.08	-4.21	0.61	0.60	-6.24	
554.00	2.43	200.81	553.92	-6.94	-1.95	-6.94	1.20	1.15	9.84	
640.00	3.03	218.93	639.82	-10.42	-4.03	-10.42	1.21	0.70	21.07	
729.00	4.01	224.65	728.66	-14.46	-7.69	-14.46	1.17	1.10	6.43	

Precision Drilling Corporation

Survey Report

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Site:	3N-67W-33 Babcock 6-4HZ Pad	MD Reference:	4886'GL + 21'KB @ 4907.00usft (PD464)
Well:	Babcock 35C-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	5.12	225.43	815.38	-19.35	-12.59	-19.35	1.28	1.28	0.90
904.00	5.63	221.02	902.99	-25.36	-18.22	-25.36	0.75	0.58	-5.01
989.00	6.81	218.22	987.49	-32.47	-24.08	-32.47	1.43	1.39	-3.29
1,078.00	8.35	217.28	1,075.71	-41.75	-31.26	-41.75	1.74	1.73	-1.06
1,166.00	9.66	214.32	1,162.62	-52.94	-39.29	-52.94	1.58	1.49	-3.36
1,255.00	11.02	216.72	1,250.18	-65.92	-48.59	-65.92	1.60	1.53	2.70
1,344.00	12.60	218.77	1,337.29	-80.31	-59.75	-80.31	1.84	1.78	2.30
1,430.00	13.71	219.72	1,421.03	-95.46	-72.14	-95.46	1.31	1.29	1.10
1,517.00	15.11	221.80	1,505.29	-111.85	-86.29	-111.85	1.72	1.61	2.39
1,604.00	16.42	223.47	1,589.02	-129.23	-102.31	-129.23	1.59	1.51	1.92
1,692.00	17.66	225.25	1,673.15	-147.65	-120.34	-147.65	1.53	1.41	2.02
1,781.00	17.57	227.33	1,757.98	-166.26	-139.81	-166.26	0.71	-0.10	2.34
1,822.00	17.75	228.73	1,797.05	-174.58	-149.06	-174.58	1.13	0.44	3.41
1,924.00	16.39	228.99	1,894.55	-194.28	-171.60	-194.28	1.34	-1.33	0.25
2,014.00	18.06	226.70	1,980.52	-212.18	-191.34	-212.18	2.00	1.86	-2.54
2,103.00	20.26	223.18	2,064.58	-232.88	-211.93	-232.88	2.79	2.47	-3.96
2,193.00	18.42	220.46	2,149.50	-255.06	-231.82	-255.06	2.28	-2.04	-3.02
2,283.00	19.47	221.60	2,234.63	-277.10	-251.00	-277.10	1.24	1.17	1.27
2,372.00	18.11	218.79	2,318.88	-298.97	-269.52	-298.97	1.84	-1.53	-3.16
2,462.00	18.85	218.35	2,404.24	-321.28	-287.30	-321.28	0.84	0.82	-0.49
2,551.00	19.65	222.22	2,488.27	-343.64	-306.28	-343.64	1.69	0.90	4.35
2,641.00	18.99	219.40	2,573.20	-366.16	-325.74	-366.16	1.27	-0.73	-3.13
2,731.00	17.67	216.07	2,658.64	-388.52	-343.08	-388.52	1.87	-1.47	-3.70
2,820.00	18.09	218.18	2,743.34	-410.30	-359.58	-410.30	0.87	0.47	2.37
2,910.00	19.38	222.74	2,828.57	-432.25	-378.35	-432.25	2.17	1.43	5.07
3,000.00	19.32	223.18	2,913.49	-454.07	-398.67	-454.07	0.18	-0.07	0.49
3,089.00	20.63	225.56	2,997.13	-475.79	-419.94	-475.79	1.73	1.47	2.67
3,179.00	18.96	225.29	3,081.81	-497.18	-441.65	-497.18	1.86	-1.86	-0.30
3,269.00	19.91	222.66	3,166.69	-518.73	-462.43	-518.73	1.43	1.06	-2.92
3,358.00	17.05	219.23	3,251.09	-539.99	-480.96	-539.99	3.44	-3.21	-3.85
3,448.00	18.39	217.91	3,336.82	-561.41	-498.02	-561.41	1.55	1.49	-1.47
3,537.00	18.33	222.13	3,421.29	-582.87	-516.04	-582.87	1.49	-0.07	4.74
3,627.00	18.88	222.22	3,506.59	-604.15	-535.32	-604.15	0.61	0.61	0.10
3,716.00	18.17	222.48	3,590.98	-625.05	-554.36	-625.05	0.80	-0.80	0.29
3,806.00	18.90	222.92	3,676.31	-646.07	-573.77	-646.07	0.83	0.81	0.49
3,896.00	18.50	220.99	3,761.56	-667.52	-593.06	-667.52	0.82	-0.44	-2.14
3,985.00	15.95	219.14	3,846.56	-687.67	-610.04	-687.67	2.93	-2.87	-2.08
4,075.00	16.81	217.82	3,932.90	-707.54	-625.83	-707.54	1.04	0.96	-1.47
4,165.00	15.34	216.15	4,019.38	-727.43	-640.83	-727.43	1.71	-1.63	-1.86
4,254.00	13.76	215.27	4,105.53	-745.58	-653.89	-745.58	1.79	-1.78	-0.99
4,344.00	11.38	213.34	4,193.36	-761.74	-664.95	-761.74	2.68	-2.64	-2.14
4,458.00	9.23	217.38	4,305.52	-778.40	-676.69	-778.40	1.99	-1.89	3.54
4,548.00	8.04	218.00	4,394.50	-789.10	-684.94	-789.10	1.33	-1.32	0.69

Precision Drilling Corporation

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Survey									
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4,638.00	7.30	218.00	4,483.69	-798.57	-692.34	-798.57	0.82	-0.82	0.00
4,727.00	6.66	216.68	4,572.03	-807.16	-698.90	-807.16	0.74	-0.72	-1.48
4,817.00	5.49	201.39	4,661.53	-815.36	-703.59	-815.36	2.21	-1.30	-16.99
4,907.00	3.58	185.92	4,751.25	-822.16	-705.45	-822.16	2.50	-2.12	-17.19
4,996.00	1.21	188.12	4,840.16	-825.85	-705.87	-825.85	2.66	-2.66	2.47
5,086.00	1.34	191.54	4,930.14	-827.83	-706.21	-827.83	0.17	0.14	3.80
5,176.00	1.12	188.20	5,020.12	-829.73	-706.55	-829.73	0.26	-0.24	-3.71
5,265.00	0.62	210.62	5,109.11	-831.00	-706.92	-831.00	0.67	-0.56	25.19
5,355.00	0.46	240.76	5,199.11	-831.60	-707.48	-831.60	0.36	-0.18	33.49
5,445.00	1.89	228.11	5,289.09	-832.77	-708.90	-832.77	1.61	1.59	-14.06
5,534.00	1.58	240.59	5,378.05	-834.35	-711.07	-834.35	0.55	-0.35	14.02
5,623.00	1.25	241.55	5,467.02	-835.41	-712.99	-835.41	0.37	-0.37	1.08
5,713.00	1.49	245.95	5,556.99	-836.36	-714.92	-836.36	0.29	0.27	4.89
5,803.00	1.85	262.38	5,646.95	-837.03	-717.43	-837.03	0.66	0.40	18.26
5,892.00	1.08	250.78	5,735.92	-837.49	-719.64	-837.49	0.92	-0.87	-13.03
5,982.00	1.82	198.14	5,825.90	-839.13	-720.89	-839.13	1.61	0.82	-58.49
6,072.00	0.73	106.91	5,915.88	-840.66	-720.79	-840.66	2.19	-1.21	-101.37
6,161.00	0.79	97.76	6,004.87	-840.91	-719.64	-840.91	0.15	0.07	-10.28
6,251.00	0.57	91.96	6,094.87	-841.00	-718.57	-841.00	0.26	-0.24	-6.44
6,340.00	0.33	79.66	6,183.86	-840.97	-717.88	-840.97	0.29	-0.27	-13.82
6,430.00	0.33	66.74	6,273.86	-840.82	-717.39	-840.82	0.08	0.00	-14.36
6,520.00	0.35	359.77	6,363.86	-840.45	-717.15	-840.45	0.42	0.02	-74.41
6,609.00	0.57	354.93	6,452.86	-839.73	-717.19	-839.73	0.25	0.25	-5.44
6,699.00	0.79	349.92	6,542.85	-838.68	-717.34	-838.68	0.25	0.24	-5.57
6,789.00	1.21	335.16	6,632.84	-837.20	-717.84	-837.20	0.54	0.47	-16.40
6,878.00	1.56	342.72	6,721.81	-835.19	-718.60	-835.19	0.44	0.39	8.49
KOP									
6,968.00	12.53	10.84	6,811.01	-824.40	-717.12	-824.40	12.42	12.19	31.24
7,058.00	21.76	6.18	6,896.92	-798.17	-713.48	-798.17	10.36	10.26	-5.18
7,148.00	28.24	0.21	6,978.46	-760.25	-711.61	-760.25	7.72	7.20	-6.63
7,237.00	33.20	358.19	7,054.95	-714.81	-712.30	-714.81	5.69	5.57	-2.27
7,327.00	38.90	357.92	7,127.68	-661.89	-714.10	-661.89	6.34	6.33	-0.30
7,417.00	43.23	356.34	7,195.52	-602.87	-717.10	-602.87	4.95	4.81	-1.76
7,506.00	48.30	1.26	7,257.61	-539.17	-718.32	-539.17	6.94	5.70	5.53
7,596.00	55.16	5.74	7,313.34	-468.73	-713.88	-468.73	8.56	7.62	4.98
7,686.00	64.12	4.86	7,358.78	-391.48	-706.74	-391.48	9.99	9.96	-0.98
7,775.00	73.66	4.51	7,390.80	-308.82	-699.97	-308.82	10.73	10.72	-0.39
7,865.00	85.26	2.58	7,407.23	-220.66	-694.54	-220.66	13.06	12.89	-2.14
7,880.00	86.34	2.32	7,408.33	-205.72	-693.90	-205.72	7.42	7.21	-1.76
Land Box Entry									
7,955.00	91.75	1.00	7,409.58	-130.79	-691.73	-130.79	7.42	7.21	-1.75
Landing Point									
8,044.00	87.07	358.89	7,410.50	-41.82	-691.82	-41.82	5.77	-5.26	-2.37
8,134.00	85.40	357.75	7,416.41	47.94	-694.45	47.94	2.25	-1.86	-1.27

Precision Drilling Corporation

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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)	
8,224.00	87.57	359.42	7,421.92	137.73	-696.66	137.73	3.04	2.41	1.86	
8,313.00	89.48	359.50	7,424.21	226.70	-697.50	226.70	2.15	2.15	0.09	
8,403.00	90.74	359.06	7,424.04	316.69	-698.63	316.69	1.48	1.40	-0.49	
8,492.00	90.69	359.33	7,422.93	405.67	-699.88	405.67	0.31	-0.06	0.30	
8,582.00	91.46	359.33	7,421.24	495.65	-700.94	495.65	0.86	0.86	0.00	
8,672.00	91.40	358.36	7,419.00	585.60	-702.75	585.60	1.08	-0.07	-1.08	
8,761.00	91.26	358.80	7,416.93	674.55	-704.96	674.55	0.52	-0.16	0.49	
8,851.00	91.42	358.71	7,414.83	764.50	-706.91	764.50	0.20	0.18	-0.10	
8,941.00	91.18	359.33	7,412.78	854.47	-708.45	854.47	0.74	-0.27	0.69	
9,030.00	90.12	359.15	7,411.78	943.45	-709.63	943.45	1.21	-1.19	-0.20	
9,120.00	89.44	359.33	7,412.12	1,033.44	-710.82	1,033.44	0.78	-0.76	0.20	
9,210.00	91.83	1.00	7,411.12	1,123.43	-710.56	1,123.43	3.24	2.66	1.86	
9,285.00	91.56	1.14	7,408.90	1,198.38	-709.16	1,198.38	0.41	-0.36	0.19	
460' Heel Exit										
9,299.00	91.51	1.17	7,408.53	1,212.37	-708.88	1,212.37	0.41	-0.36	0.19	
9,389.00	90.45	0.91	7,406.99	1,302.34	-707.25	1,302.34	1.21	-1.18	-0.29	
9,479.00	90.93	1.35	7,405.91	1,392.32	-705.47	1,392.32	0.72	0.53	0.49	
9,568.00	90.32	1.26	7,404.94	1,481.29	-703.45	1,481.29	0.69	-0.69	-0.10	
9,658.00	92.05	0.65	7,403.07	1,571.26	-701.95	1,571.26	2.04	1.92	-0.68	
9,748.00	91.68	0.65	7,400.15	1,661.20	-700.92	1,661.20	0.41	-0.41	0.00	
9,837.00	92.67	359.24	7,396.77	1,750.13	-701.01	1,750.13	1.93	1.11	-1.58	
9,927.00	91.11	355.99	7,393.80	1,839.99	-704.75	1,839.99	4.00	-1.73	-3.61	
10,017.00	88.43	354.40	7,394.16	1,929.66	-712.29	1,929.66	3.46	-2.98	-1.77	
10,106.00	89.90	356.25	7,395.46	2,018.35	-719.54	2,018.35	2.65	1.65	2.08	
10,196.00	90.76	357.22	7,394.94	2,108.20	-724.67	2,108.20	1.44	0.96	1.08	
10,286.00	89.02	359.06	7,395.11	2,198.15	-727.59	2,198.15	2.81	-1.93	2.04	
10,375.00	88.76	0.82	7,396.84	2,287.13	-727.68	2,287.13	2.00	-0.29	1.98	
10,465.00	90.27	2.75	7,397.60	2,377.07	-724.88	2,377.07	2.72	1.68	2.14	
10,554.00	90.85	2.93	7,396.73	2,465.96	-720.47	2,465.96	0.68	0.65	0.20	
10,644.00	89.20	1.61	7,396.69	2,555.88	-716.91	2,555.88	2.35	-1.83	-1.47	
10,734.00	89.99	1.00	7,397.32	2,645.86	-714.86	2,645.86	1.11	0.88	-0.68	
10,824.00	92.21	1.35	7,395.60	2,735.82	-713.01	2,735.82	2.50	2.47	0.39	
10,913.00	92.49	1.26	7,391.95	2,824.72	-710.99	2,824.72	0.33	0.31	-0.10	
11,003.00	92.23	1.26	7,388.24	2,914.62	-709.01	2,914.62	0.29	-0.29	0.00	
11,092.00	92.08	1.17	7,384.89	3,003.54	-707.12	3,003.54	0.20	-0.17	-0.10	
11,093.00	92.07	1.17	7,384.86	3,004.54	-707.10	3,004.54	0.51	-0.51	0.00	
460' Toe Entry										
11,182.00	91.62	1.17	7,381.99	3,093.47	-705.29	3,093.47	0.51	-0.51	0.00	
11,272.00	91.20	1.00	7,379.77	3,183.43	-703.58	3,183.43	0.50	-0.47	-0.19	
11,361.00	89.70	0.65	7,379.08	3,272.41	-702.30	3,272.41	1.73	-1.69	-0.39	
11,451.00	89.09	1.09	7,380.03	3,362.40	-700.93	3,362.40	0.84	-0.68	0.49	
11,541.00	88.60	1.00	7,381.84	3,452.36	-699.29	3,452.36	0.55	-0.54	-0.10	
11,630.00	89.84	1.26	7,383.05	3,541.34	-697.54	3,541.34	1.42	1.39	0.29	
11,720.00	91.07	0.82	7,382.34	3,631.32	-695.91	3,631.32	1.45	1.37	-0.49	

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Babcock 35C-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 35C-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)
11,810.00	89.97	0.29	7,381.52	3,721.31	-695.03	3,721.31	1.36	-1.22	-0.59
11,899.00	89.42	0.03	7,381.99	3,810.31	-694.79	3,810.31	0.68	-0.62	-0.29
11,989.00	89.77	358.10	7,382.63	3,900.29	-696.25	3,900.29	2.18	0.39	-2.14
12,079.00	89.18	357.83	7,383.45	3,990.23	-699.45	3,990.23	0.72	-0.66	-0.30
12,168.00	89.95	357.92	7,384.13	4,079.16	-702.75	4,079.16	0.87	0.87	0.10
12,258.00	90.05	356.52	7,384.13	4,169.05	-707.11	4,169.05	1.56	0.11	-1.56
12,348.00	89.81	357.04	7,384.24	4,258.91	-712.17	4,258.91	0.64	-0.27	0.58
12,402.00	89.81	357.04	7,384.42	4,312.84	-714.96	4,312.84	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Surface 35C-33HZ - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	14,588,357.04	1,669,176.07	40.169182°N	104.897052°W
KOP 35C-33HZ - actual wellpath hits target center - Point	0.00	0.00	6,721.81	-835.19	-718.60	14,587,521.01	1,668,458.44	40.166889°N	104.899624°W
PBHL 35C-33HZ - actual wellpath misses target center by 11.73usft at 12402.00usft MD (7384.42 TVD, 4312.84 N, -714.96 E) - Point	0.00	0.00	7,379.00	4,322.13	-710.29	14,592,678.34	1,668,460.78	40.181051°N	104.899595°W
BHL 35C-33HZ - actual wellpath hits target center - Point	0.00	0.00	7,384.42	4,312.84	-714.96	14,592,669.05	1,668,456.12	40.181026°N	104.899612°W
460' Toe Entry 35C-33 - actual wellpath hits target center - Point	0.00	0.00	7,384.86	3,004.54	-707.10	14,591,360.76	1,668,465.49	40.177433°N	104.899584°W
Land Box Entry 35C-33 - actual wellpath hits target center - Point	0.00	0.00	7,408.33	-205.72	-693.90	14,588,150.52	1,668,482.41	40.168617°N	104.899536°W
460' Heel Exit 35C-33 - actual wellpath hits target center - Point	0.00	0.00	7,408.90	1,198.38	-709.16	14,589,554.60	1,668,465.52	40.172473°N	104.899591°W
Landing Point 35C-33 - actual wellpath hits target center - Point	0.00	0.00	7,409.58	-130.79	-691.73	14,588,225.45	1,668,484.49	40.168823°N	104.899528°W

Precision Drilling Corporation

Survey Report

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well Babcock 35C-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 35C-33HZ	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Local Database

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,878.00	6,721.81	-835.19	-718.60	KOP
7,880.00	7,408.33	-205.72	-693.90	Land Box Entry
7,955.00	7,409.58	-130.79	-691.73	Landing Point
9,285.00	7,408.90	1,198.38	-709.16	460' Heel Exit
11,093.00	7,384.86	3,004.54	-707.10	460' Toe Entry