

WHITING PETROLEUM CORP.


Project: Weld County, CO
Site: Sec 7-T10N-R57W
Well: Horsetail #07E-1834
Wellbore: Original Hole
Design: Original Hole

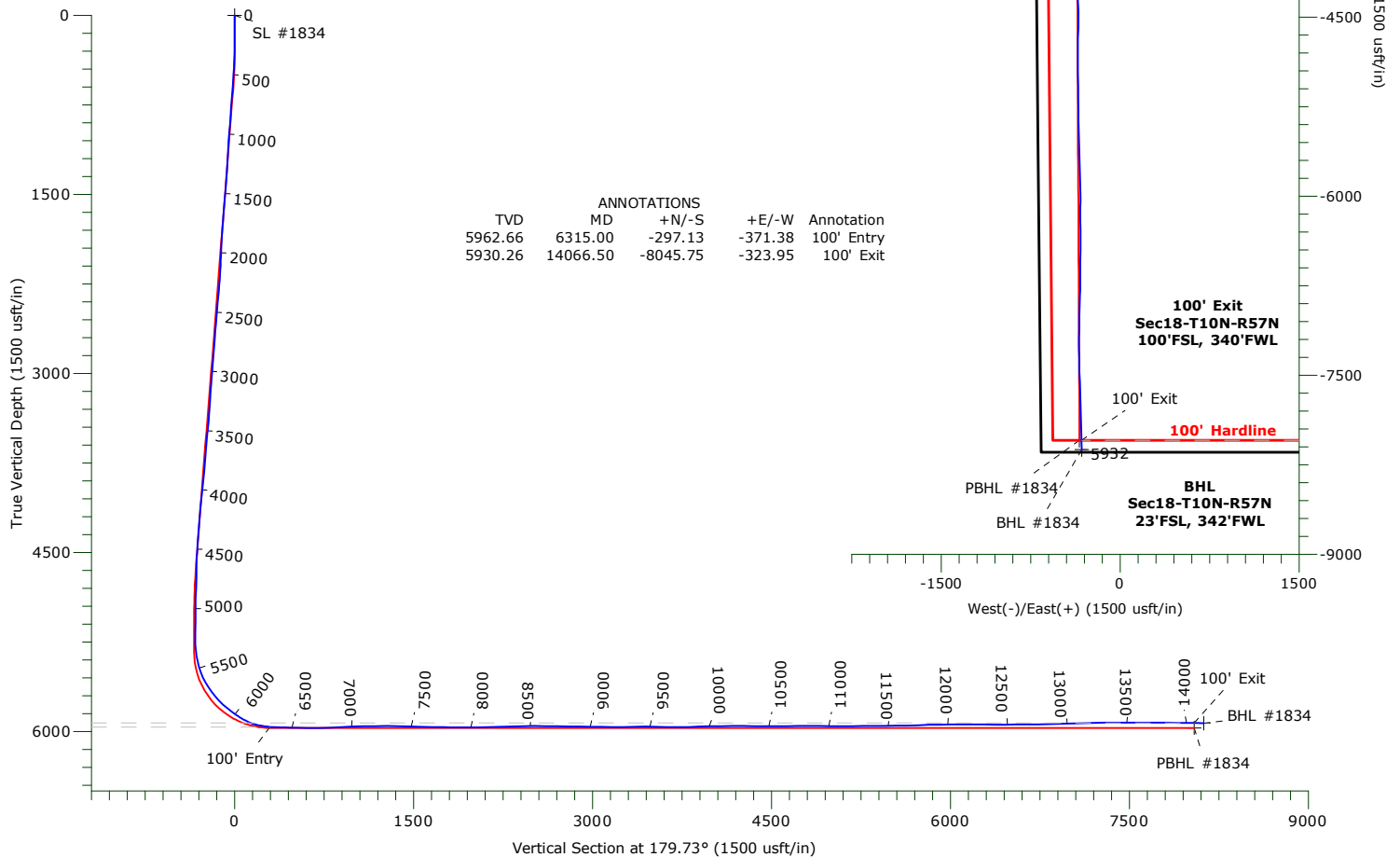


Precision

Directional Services

LEGEND

- Horsetail #07E-1834, Original Hole, Plan #2 V0
 Original Hole



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL #1834	0.00	0.00	0.00	1558448.22	3469920.10	40.853961°N	103.801258°W	Point
BHL #1834	5931.81	-8123.19	-321.00	1550320.36	3469754.46	40.831666°N	103.802419°W	Point
PBHL #1834	5971.00	-8045.89	-341.31	1550397.26	3469732.97	40.831878°N	103.802492°W	Point

Precision Drilling Corporation

Survey Report

Company:	WHITING PETROLEUM CORP.	Local Co-ordinate Reference:	Well Horsetail #07E-1834
Project:	Weld County, CO	TVD Reference:	4925.6'GL+21'KB @ 4946.600usft
Site:	Sec 7-T10N-R57W	MD Reference:	4925.6'GL+21'KB @ 4946.600usft
Well:	Horsetail #07E-1834	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Compass_US

Project	Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 7-T10N-R57W				
Site Position:		Northing:	1,558,398.04	usft	Latitude:	40.853825°N
From:	Lat/Long	Easting:	3,469,889.54	usft	Longitude:	103.801372°W
Position Uncertainty:		0.000	usft	Slot Radius:	13.20	in
					Grid Convergence:	1.10 °

Well		Horsetail #07E-1834				
Well Position	+N-S	0.000 usft	Northing:	1,558,448.22 usft	Latitude:	40.853961°N
	+E-W	0.000 usft	Easting:	3,469,920.09 usft	Longitude:	103.801259°W
Position Uncertainty		0.000 usft	Wellhead Elevation:	0.000 usft	Ground Level:	4,925.600 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/07/15	7.98	67.43	53,004

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.000
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.000	0.000	0.000	179.73	

Survey Program	Date	12/28/15			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
222.000	14,080.000	Survey #1 (Original Hole)	MWD+IFR+MS	MWD + IFR + Multi Station	
14,144.000	14,144.000	Survey #2 (Original Hole)	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)	
0.000	0.00	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	
222.000	0.27	162.97	221.999	-0.494	0.151	0.495	0.12	0.12	0.00	
314.000	1.70	327.58	313.987	0.453	-0.518	-0.456	2.13	1.56	178.92	
405.000	3.52	318.51	404.889	3.687	-3.094	-3.702	2.05	2.00	-9.97	
497.000	5.67	314.06	496.588	8.968	-8.236	-9.006	2.37	2.34	-4.83	
588.000	6.46	313.01	587.077	15.591	-15.214	-15.662	0.88	0.87	-1.15	
681.000	6.44	309.66	679.488	22.492	-23.058	-22.601	0.41	-0.02	-3.61	
771.000	6.09	310.81	768.951	28.834	-30.558	-28.978	0.42	-0.39	1.28	
863.000	5.75	311.24	860.460	35.060	-37.715	-35.238	0.37	-0.37	0.47	
954.000	6.78	306.97	950.916	41.295	-45.434	-41.509	1.24	1.13	-4.70	

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Well:	Horsetail #07E-1834	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Compass_US

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)
1,046.000	6.22	309.81	1,042.325	47.751	-53.600	-48.003	0.70	-0.61	3.10
1,137.000	5.74	309.48	1,132.829	53.800	-60.899	-54.087	0.53	-0.52	-0.36
1,230.000	5.45	312.12	1,225.387	59.719	-67.763	-60.038	0.42	-0.32	2.84
1,322.000	5.06	315.30	1,317.000	65.534	-73.859	-65.882	0.52	-0.42	3.45
1,414.000	4.90	318.49	1,408.652	71.364	-79.321	-71.737	0.35	-0.18	3.47
1,506.000	6.51	314.36	1,500.194	77.954	-85.655	-78.356	1.80	1.75	-4.49
1,598.000	6.38	316.36	1,591.613	85.298	-92.910	-85.735	0.28	-0.14	2.17
1,689.000	6.77	321.12	1,682.015	93.131	-99.765	-93.600	0.74	0.43	5.23
1,780.000	5.07	317.34	1,772.526	100.265	-105.858	-100.762	1.91	-1.87	-4.16
1,872.000	4.86	314.81	1,864.181	105.999	-111.376	-106.523	0.33	-0.23	-2.75
1,964.000	4.11	311.88	1,955.899	110.945	-116.594	-111.493	0.85	-0.81	-3.19
2,038.000	3.75	302.60	2,029.726	114.018	-120.605	-114.585	0.99	-0.49	-12.53
2,133.000	6.95	303.30	2,124.301	118.845	-128.023	-119.447	3.37	3.37	0.74
2,228.000	6.41	306.46	2,218.656	125.150	-137.088	-125.795	0.68	-0.56	3.32
2,322.000	7.66	314.39	2,311.949	132.652	-145.787	-133.337	1.68	1.33	8.44
2,418.000	7.18	312.07	2,407.145	141.149	-154.813	-141.877	0.59	-0.50	-2.41
2,513.000	7.01	313.92	2,501.417	149.147	-163.395	-149.915	0.30	-0.18	1.94
2,608.000	6.60	309.67	2,595.749	156.652	-171.773	-157.460	0.68	-0.42	-4.48
2,703.000	8.17	307.22	2,689.958	164.220	-181.351	-165.073	1.68	1.65	-2.58
2,798.000	7.77	308.10	2,784.041	172.264	-191.778	-173.166	0.44	-0.42	0.92
2,893.000	7.40	306.99	2,878.209	179.906	-201.717	-180.854	0.42	-0.39	-1.17
2,988.000	7.28	307.16	2,972.431	187.221	-211.398	-188.215	0.13	-0.12	0.18
3,084.000	6.71	305.56	3,067.716	194.158	-220.810	-195.197	0.62	-0.59	-1.67
3,179.000	7.29	303.16	3,162.007	200.686	-230.377	-201.770	0.68	0.61	-2.53
3,272.000	6.55	300.65	3,254.329	206.618	-239.881	-207.746	0.87	-0.80	-2.69
3,368.000	7.18	308.84	3,349.643	213.169	-249.260	-214.342	1.21	0.66	8.53
3,463.000	8.24	316.11	3,443.786	221.796	-258.601	-223.012	1.51	1.11	7.65
3,558.000	7.19	313.75	3,537.925	230.810	-267.613	-232.068	1.15	-1.10	-2.48
3,652.000	7.08	312.67	3,631.197	238.806	-276.125	-240.104	0.18	-0.11	-1.15
3,748.000	6.63	308.63	3,726.511	246.279	-284.808	-247.618	0.69	-0.47	-4.20
3,843.000	7.42	320.03	3,820.801	254.405	-293.036	-255.783	1.68	0.83	11.99
3,964.000	7.32	319.62	3,940.801	266.264	-303.049	-267.689	0.09	-0.08	-0.34
4,060.000	7.34	323.93	4,036.018	275.878	-310.620	-277.338	0.57	0.02	4.49
4,155.000	6.93	318.31	4,130.283	285.061	-318.004	-286.557	0.85	-0.43	-5.92
4,250.000	6.61	319.45	4,224.621	293.496	-325.371	-295.026	0.36	-0.34	1.20
4,346.000	6.25	315.43	4,320.017	301.417	-332.630	-302.981	0.60	-0.38	-4.18
4,441.000	5.78	313.15	4,414.495	308.371	-339.747	-309.968	0.56	-0.50	-2.40
4,537.000	5.24	308.89	4,510.051	314.430	-346.687	-316.060	0.70	-0.55	-4.44
4,632.000	0.57	226.69	4,604.915	316.834	-350.412	-318.482	5.47	-4.92	-86.53
4,727.000	4.10	300.95	4,699.829	318.256	-353.666	-319.919	4.19	3.71	78.18
4,823.000	3.81	306.34	4,795.601	321.912	-359.178	-323.601	0.48	-0.29	5.61
4,918.000	3.07	297.83	4,890.430	324.971	-363.971	-326.682	0.95	-0.79	-8.95
5,014.000	0.57	226.71	4,986.379	325.844	-366.589	-327.568	3.05	-2.60	-74.09

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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)
5,109.000	1.80	286.97	5,081.360	325.957	-368.362	-327.690	1.68	1.30	63.43
5,205.000	1.21	326.70	5,177.329	327.245	-370.363	-328.986	1.22	-0.62	41.39
5,300.000	0.57	223.92	5,272.321	327.744	-371.238	-329.490	1.52	-0.68	-108.19
5,394.000	10.33	192.75	5,365.787	319.171	-373.425	-320.927	10.47	10.38	-33.17
5,489.000	16.34	192.33	5,458.183	297.788	-378.163	-299.567	6.34	6.34	-0.44
5,536.000	21.46	192.25	5,502.634	282.916	-381.401	-284.711	10.88	10.88	-0.17
5,585.000	25.03	190.02	5,547.651	263.945	-385.109	-265.757	7.50	7.28	-4.54
5,632.000	29.38	183.84	5,589.451	242.638	-387.614	-244.461	11.03	9.26	-13.16
5,680.000	32.88	177.57	5,630.543	217.859	-387.849	-219.684	9.93	7.29	-13.07
5,727.000	37.00	179.56	5,669.066	190.959	-387.198	-192.781	9.09	8.76	4.23
5,775.000	40.25	179.93	5,706.561	161.001	-387.068	-162.823	6.80	6.78	0.78
5,822.000	43.93	178.22	5,741.434	129.509	-386.542	-131.329	8.20	7.83	-3.64
5,871.000	46.97	175.67	5,775.808	94.650	-384.662	-96.462	7.22	6.20	-5.19
5,918.000	50.60	174.64	5,806.771	59.429	-381.670	-61.227	7.90	7.73	-2.19
5,966.000	52.67	174.21	5,836.562	21.974	-378.013	-23.755	4.36	4.31	-0.90
6,013.000	56.01	175.26	5,863.960	-16.045	-374.518	14.280	7.33	7.11	2.23
6,062.000	59.29	177.80	5,890.182	-57.353	-372.030	55.599	8.00	6.69	5.18
6,109.000	63.70	179.64	5,912.611	-98.631	-371.122	96.881	10.00	9.38	3.92
6,157.000	69.70	179.29	5,931.589	-142.694	-370.710	140.945	12.53	12.52	-0.72
6,204.000	76.23	180.37	5,945.350	-187.607	-370.585	185.858	14.05	13.88	2.28
6,252.000	80.74	180.39	5,954.932	-234.627	-370.895	232.876	9.40	9.40	0.04
6,315.000	85.17	180.51	5,962.658	-297.134	-371.383	295.380	7.04	7.04	0.19
100' Entry									
6,347.000	87.43	180.57	5,964.724	-329.063	-371.682	327.308	7.04	7.04	0.19
6,443.000	88.54	179.16	5,968.103	-425.000	-371.450	423.245	1.87	1.16	-1.47
6,538.000	89.69	179.13	5,969.568	-519.976	-370.028	518.227	1.21	1.21	-0.03
6,633.000	89.50	178.44	5,970.233	-614.952	-368.014	613.211	0.75	-0.20	-0.73
6,729.000	90.27	180.57	5,970.424	-710.942	-367.182	709.204	2.35	0.79	2.21
6,823.000	91.77	181.00	5,968.749	-804.915	-368.464	803.170	1.67	1.60	0.46
6,918.000	92.53	180.84	5,965.178	-899.835	-369.985	898.082	0.82	0.80	-0.17
7,013.000	92.54	180.42	5,960.977	-994.736	-371.030	992.977	0.44	0.00	-0.44
7,108.000	91.24	180.51	5,957.847	-1,089.680	-371.801	1,087.915	1.37	-1.36	0.09
7,203.000	91.62	182.32	5,955.472	-1,184.617	-374.144	1,182.840	1.95	0.40	1.91
7,299.000	89.32	180.60	5,954.677	-1,280.572	-376.594	1,278.783	2.99	-2.40	-1.79
7,394.000	88.67	180.35	5,956.342	-1,375.554	-377.382	1,373.760	0.74	-0.69	-0.27
7,489.000	88.09	180.43	5,959.032	-1,470.513	-378.030	1,468.715	0.61	-0.61	0.09
7,583.000	88.64	180.44	5,961.713	-1,564.472	-378.751	1,562.669	0.59	0.59	0.01
7,679.000	89.33	180.13	5,963.414	-1,660.455	-379.235	1,658.649	0.78	0.71	-0.32
7,774.000	88.81	180.24	5,964.962	-1,755.441	-379.544	1,753.633	0.56	-0.55	0.11
7,869.000	90.38	179.03	5,965.637	-1,850.432	-378.933	1,848.626	2.09	1.66	-1.27
7,963.000	89.77	178.42	5,965.510	-1,944.408	-376.836	1,942.610	0.92	-0.64	-0.65
8,058.000	90.05	178.91	5,965.658	-2,039.381	-374.617	2,037.593	0.59	0.29	0.52
8,152.000	91.63	180.05	5,964.280	-2,133.363	-373.761	2,131.578	2.08	1.69	1.22

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8,247.000	92.00	180.05	5,961.271	-2,228.315	-373.844	2,226.528	0.38	0.38	0.00
8,343.000	91.76	179.31	5,958.128	-2,324.261	-373.312	2,322.476	0.81	-0.25	-0.77
8,439.000	91.53	179.42	5,955.374	-2,420.216	-372.252	2,418.435	0.26	-0.23	0.11
8,534.000	89.63	178.88	5,954.408	-2,515.196	-370.843	2,513.420	2.08	-2.00	-0.57
8,628.000	89.11	179.20	5,955.437	-2,609.176	-369.265	2,607.407	0.65	-0.56	0.34
8,723.000	88.82	178.87	5,957.152	-2,704.147	-367.660	2,702.384	0.47	-0.31	-0.35
8,819.000	89.36	178.36	5,958.678	-2,800.106	-365.337	2,798.353	0.77	0.57	-0.53
8,910.000	89.02	178.18	5,959.960	-2,891.055	-362.586	2,889.315	0.42	-0.37	-0.20
9,001.000	89.66	178.79	5,961.006	-2,982.017	-360.178	2,980.286	0.97	0.70	0.68
9,093.000	89.27	178.57	5,961.870	-3,073.988	-358.056	3,072.266	0.49	-0.43	-0.24
9,185.000	89.22	179.02	5,963.085	-3,165.959	-356.116	3,164.246	0.49	-0.05	0.49
9,276.000	90.39	180.01	5,963.395	-3,256.952	-355.344	3,255.242	1.69	1.28	1.09
9,368.000	91.85	181.60	5,961.599	-3,348.920	-356.639	3,347.203	2.35	1.59	1.73
9,460.000	89.22	179.71	5,960.743	-3,440.898	-357.696	3,439.174	3.52	-2.86	-2.05
9,550.000	88.94	179.22	5,962.191	-3,530.882	-356.858	3,529.161	0.63	-0.31	-0.55
9,642.000	88.73	179.57	5,964.065	-3,622.858	-355.885	3,621.140	0.45	-0.23	0.38
9,734.000	89.76	179.78	5,965.283	-3,714.847	-355.365	3,713.131	1.14	1.12	0.23
9,825.000	91.81	181.14	5,964.039	-3,805.828	-356.094	3,804.108	2.70	2.26	1.49
9,917.000	92.06	180.76	5,960.932	-3,897.763	-357.612	3,896.035	0.49	0.27	-0.41
10,009.000	92.48	180.87	5,957.291	-3,989.682	-358.916	3,987.946	0.47	0.45	0.12
10,101.000	90.36	180.40	5,955.010	-4,081.642	-359.929	4,079.901	2.35	-2.30	-0.51
10,193.000	89.94	179.55	5,954.767	-4,173.641	-359.886	4,171.899	1.03	-0.46	-0.92
10,286.000	89.93	177.79	5,954.873	-4,266.612	-357.732	4,264.879	1.89	-0.01	-1.89
10,377.000	89.58	177.44	5,955.264	-4,357.533	-353.952	4,355.816	0.55	-0.39	-0.39
10,469.000	89.54	178.50	5,955.973	-4,449.471	-350.698	4,447.769	1.15	-0.04	1.15
10,560.000	90.19	180.53	5,956.188	-4,540.462	-349.929	4,538.763	2.34	0.72	2.23
10,652.000	90.78	182.05	5,955.411	-4,632.433	-352.000	4,630.722	1.77	0.64	1.65
10,743.000	90.16	180.30	5,954.666	-4,723.406	-353.870	4,721.686	2.04	-0.68	-1.92
10,834.000	90.06	179.73	5,954.495	-4,814.406	-353.895	4,812.685	0.64	-0.11	-0.63
10,925.000	89.51	179.86	5,954.840	-4,905.404	-353.568	4,903.684	0.62	-0.60	0.15
11,017.000	89.91	179.61	5,955.310	-4,997.402	-353.140	4,995.682	0.51	0.43	-0.27
11,108.000	89.70	179.28	5,955.622	-5,088.397	-352.256	5,086.680	0.43	-0.23	-0.36
11,200.000	90.58	179.57	5,955.395	-5,180.391	-351.332	5,178.678	1.01	0.96	0.32
11,291.000	90.42	179.43	5,954.601	-5,271.384	-350.535	5,269.673	0.24	-0.18	-0.16
11,383.000	90.16	178.20	5,954.140	-5,363.361	-348.632	5,361.659	1.36	-0.29	-1.33
11,474.000	90.15	178.69	5,953.894	-5,454.327	-346.162	5,452.635	0.53	0.00	0.53
11,566.000	91.19	179.04	5,952.814	-5,546.301	-344.336	5,544.617	1.19	1.13	0.38
11,658.000	91.24	178.67	5,950.860	-5,638.262	-342.494	5,636.585	0.41	0.06	-0.40
11,749.000	91.44	177.68	5,948.732	-5,729.189	-339.594	5,727.525	1.10	0.21	-1.08
11,841.000	92.27	178.45	5,945.760	-5,821.087	-336.485	5,819.437	1.23	0.90	0.83
11,933.000	90.79	178.17	5,943.305	-5,913.012	-333.767	5,911.373	1.63	-1.60	-0.30
12,025.000	91.03	179.81	5,941.839	-6,004.983	-332.143	6,003.351	1.80	0.26	1.78
12,116.000	90.99	181.34	5,940.233	-6,095.961	-333.056	6,094.324	1.69	-0.05	1.69
12,208.000	89.30	179.72	5,940.003	-6,187.950	-333.908	6,186.308	2.55	-1.84	-1.77

Precision Drilling Corporation

Survey Report

Company:	WHITING PETROLEUM CORP.	Local Co-ordinate Reference:	Well Horsetail #07E-1834
Project:	Weld County, CO	TVD Reference:	4925.6'GL+21'KB @ 4946.600usft
Site:	Sec 7-T10N-R57W	MD Reference:	4925.6'GL+21'KB @ 4946.600usft
Well:	Horsetail #07E-1834	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Compass_US

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)
12,300.000	88.89	179.08	5,941.461	-6,279.933	-332.945	6,278.294	0.82	-0.45	-0.69
12,391.000	89.10	179.93	5,943.062	-6,370.915	-332.159	6,369.279	0.96	0.23	0.93
12,481.000	90.01	180.82	5,943.763	-6,460.908	-332.743	6,459.269	1.41	1.01	0.99
12,573.000	91.24	181.16	5,942.758	-6,552.887	-334.330	6,551.239	1.39	1.34	0.37
12,665.000	90.68	180.23	5,941.213	-6,644.866	-335.448	6,643.211	1.18	-0.61	-1.01
12,758.000	90.17	179.99	5,940.526	-6,737.863	-335.631	6,736.206	0.61	-0.55	-0.26
12,848.000	91.55	181.34	5,939.177	-6,827.842	-336.680	6,826.180	2.15	1.54	1.50
12,940.000	91.84	181.91	5,936.453	-6,919.765	-339.288	6,918.089	0.69	0.32	0.62
13,031.000	91.59	181.14	5,933.727	-7,010.691	-341.709	7,009.003	0.89	-0.28	-0.84
13,122.000	91.45	180.59	5,931.315	-7,101.648	-343.087	7,099.952	0.62	-0.16	-0.60
13,213.000	91.46	180.62	5,929.007	-7,192.614	-344.054	7,190.912	0.04	0.02	0.03
13,305.000	90.88	179.63	5,927.127	-7,284.593	-344.255	7,282.889	1.25	-0.63	-1.08
13,396.000	90.47	179.16	5,926.058	-7,375.581	-343.290	7,373.881	0.69	-0.45	-0.52
13,488.000	90.41	178.07	5,925.354	-7,467.550	-341.065	7,465.860	1.18	-0.06	-1.18
13,579.000	89.87	177.18	5,925.132	-7,558.470	-337.295	7,556.797	1.14	-0.60	-0.98
13,670.000	89.35	178.91	5,925.753	-7,649.411	-334.192	7,647.752	1.98	-0.57	1.90
13,762.000	89.34	178.89	5,926.802	-7,741.388	-332.422	7,739.736	0.03	-0.01	-0.03
13,854.000	89.22	177.85	5,927.956	-7,833.342	-329.802	7,831.701	1.13	-0.13	-1.12
13,946.000	89.64	178.92	5,928.867	-7,925.300	-327.206	7,923.670	1.25	0.46	1.16
14,037.000	89.20	178.19	5,929.785	-8,016.265	-324.910	8,014.645	0.93	-0.49	-0.80
14,066.500	88.96	178.08	5,930.260	-8,045.746	-323.951	8,044.130	0.90	-0.82	-0.37
100' Exit									
14,080.000	88.85	178.03	5,930.519	-8,059.236	-323.493	8,057.622	0.90	-0.82	-0.37
14,144.000	88.85	178.03	5,931.806	-8,123.185	-321.296	8,121.581	0.01	0.01	-0.01

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL #1834	0.00	0.00	0.000	0.000	0.000	1,558,448.22	3,469,920.09	40.853961°N	103.801259°W
- hit/miss target									
- Shape									
- actual wellpath hits target center									
- Point									
BHL #1834	0.00	0.00	5,931.80	-8,123.185	-321.296	1,550,320.37	3,469,754.46	40.831666°N	103.802420°W
- actual wellpath hits target center									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,315.000	5,962.658	-297.134	-371.383	100' Entry
14,066.500	5,930.260	-8,045.746	-323.951	100' Exit

Precision Drilling Corporation

Survey Report

Company:	WHITING PETROLEUM CORP.	Local Co-ordinate Reference:	Well Horsetail #07E-1834
Project:	Weld County, CO	TVD Reference:	4925.6'GL+21'KB @ 4946.600usft
Site:	Sec 7-T10N-R57W	MD Reference:	4925.6'GL+21'KB @ 4946.600usft
Well:	Horsetail #07E-1834	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Compass_US