





Actual Wellpath Report

SIMPSON FD 16-062HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	GREAT WESTERN OPERATING CO LLC	Slot	SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15)
Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Ingmjmr
Scale	0.999965	Report Generated	9/24/2015 at 2:57:21 PM
Convergence at slot	0.40° East	Database/Source file	WA_DEN_Denver_Defn/SIMPSON_FD_16-062HN_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	100.19	59.49	3174098.11	1421448.84	40°29'18.930"N	104°52'26.660"W
Facility Reference Pt			3174039.33	1421348.24	40°29'17.940"N	104°52'27.430"W
Field Reference Pt			3178126.99	1410919.63	40°27'34.600"N	104°51'35.500"W

WELLPATH DATUM

Calculation method	Minimum curvature	XTREME 17 (16.2'KB) (RKB) to Facility Vertical Datum	4827.20ft
Horizontal Reference Pt	Slot	XTREME 17 (16.2'KB) (RKB) to Mean Sea Level	4827.20ft
Vertical Reference Pt	XTREME 17 (16.2'KB) (RKB)	XTREME 17 (16.2'KB) (RKB) to Mud Line at Slot (SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15))	4827.20ft
MD Reference Pt	XTREME 17 (16.2'KB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	276.78°



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Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWP
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
1263.20	0.530	13.560	1263.18	-2.27	-0.61	2.21	2.94	TIE INTO TOTAL DIRECTIONAL MWD SURVEYS
1361.00	0.400	90.280	1360.98	-2.66	-0.18	2.66	0.60	FIRST BHI MWD SURVEY
1404.00	0.670	69.050	1403.97	-3.03	-0.09	3.04	0.77	
1493.00	0.400	84.240	1492.97	-3.80	0.13	3.84	0.34	
1581.00	0.410	5.420	1580.97	-4.09	0.47	4.17	0.58	
1669.00	0.330	319.660	1668.97	-3.90	0.98	4.04	0.34	
1756.00	0.570	338.390	1755.96	-3.51	1.57	3.72	0.32	
1844.00	0.860	357.460	1843.96	-3.19	2.64	3.53	0.42	
1932.00	1.210	359.580	1931.94	-2.97	4.23	3.49	0.40	
2018.00	0.550	118.760	2017.94	-3.24	4.94	3.85	1.81	
2108.00	0.360	81.430	2107.93	-3.91	4.77	4.50	0.38	
2193.00	0.700	197.840	2192.93	-4.07	4.32	4.61	1.08	
2282.00	0.850	143.970	2281.92	-4.41	3.27	4.83	0.80	
2370.00	0.560	122.900	2369.92	-5.24	2.51	5.58	0.44	
2458.00	0.770	116.110	2457.91	-6.19	2.01	6.47	0.25	
2545.00	0.730	279.480	2544.91	-6.18	1.85	6.45	1.71	
2632.00	1.000	297.020	2631.90	-4.92	2.28	5.22	0.43	
2718.00	1.030	229.820	2717.89	-3.69	2.13	3.96	1.31	
2807.00	0.910	81.520	2806.88	-3.82	1.71	4.05	2.10	
2895.00	0.800	68.450	2894.87	-5.04	2.04	5.32	0.25	
2983.00	0.770	99.120	2982.87	-6.17	2.17	6.47	0.47	
3070.00	0.780	213.660	3069.86	-6.48	1.59	6.72	1.50	
3158.00	1.380	221.280	3157.85	-5.61	0.29	5.69	0.70	
3245.00	1.670	122.920	3244.83	-6.16	-1.18	6.06	2.66	
3331.00	1.220	87.300	3330.80	-8.19	-1.82	8.03	1.14	
3418.00	2.470	54.930	3417.76	-10.50	-0.70	10.49	1.82	
3505.00	4.930	45.250	3504.57	-14.22	3.01	14.68	2.91	
3593.00	7.880	45.880	3592.01	-20.38	9.87	21.69	3.35	
3681.00	11.050	46.870	3678.80	-29.61	19.84	32.18	3.61	
3769.00	13.580	48.330	3764.77	-41.90	32.48	46.06	2.90	



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Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWP
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
3855.00	15.820	47.820	3847.95	-56.29	47.06	62.29	2.61	
3944.00	15.870	46.240	3933.57	-71.99	63.62	80.07	0.49	
4031.00	15.200	46.750	4017.39	-86.88	79.67	96.97	0.79	
4118.00	15.770	50.810	4101.23	-102.42	94.95	114.44	1.41	
4205.00	18.060	53.510	4184.47	-120.46	110.44	134.44	2.78	
4291.00	22.000	52.210	4265.25	-141.65	128.25	157.90	4.61	
4379.00	26.850	50.830	4345.35	-167.22	150.92	186.35	5.55	
4468.00	30.650	49.530	4423.36	-196.60	178.34	219.20	4.33	
4555.00	28.480	48.400	4499.03	-225.44	206.51	251.59	2.58	
4643.00	28.530	48.160	4576.36	-253.26	234.46	282.94	0.14	
4731.00	29.840	48.210	4653.19	-281.64	263.07	314.92	1.49	
4818.00	31.500	50.750	4728.02	-311.74	291.88	348.66	2.42	
4906.00	31.310	47.420	4803.14	-342.60	321.90	383.30	1.98	
4994.00	30.630	49.030	4878.59	-372.56	352.07	417.07	1.22	
5082.00	26.350	49.040	4955.92	-400.78	379.58	448.76	4.86	
5169.00	25.770	50.830	5034.07	-426.91	404.19	478.00	1.12	
5257.00	26.470	48.600	5113.09	-453.29	429.24	507.54	1.37	
5344.00	29.410	48.590	5189.94	-480.46	456.20	538.11	3.38	
5432.00	28.390	51.270	5266.98	-509.53	483.58	570.64	1.87	
5519.00	27.790	51.850	5343.73	-538.38	509.05	602.72	0.76	
5606.00	28.730	49.720	5420.36	-566.98	535.09	634.63	1.58	
5694.00	31.930	50.880	5496.31	-597.59	563.46	668.83	3.70	
5781.00	32.400	47.520	5569.96	-628.82	593.72	703.87	2.13	
5869.00	29.870	49.430	5645.28	-659.05	623.90	737.91	3.09	
5958.00	28.350	49.020	5723.04	-688.27	652.17	770.70	1.72	
6045.00	27.450	50.160	5799.93	-715.93	678.57	801.69	1.20	
6133.00	27.140	50.740	5878.13	-743.79	704.26	832.80	0.46	
6220.00	30.480	50.810	5954.35	-772.91	730.77	865.28	3.84	
6308.00	30.990	47.950	6029.99	-803.34	760.05	899.40	1.76	
6396.00	29.280	45.300	6106.10	-831.65	790.36	931.52	2.46	



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Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWP
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
6483.00	30.030	46.340	6181.70	-858.77	820.36	962.40	1.05	
6570.00	29.140	47.540	6257.36	-886.46	849.69	993.77	1.23	
6658.00	26.130	44.320	6335.32	-912.26	878.02	1023.13	3.82	
6745.00	23.990	18.980	6414.35	-927.72	908.54	1042.32	12.49	
6833.00	19.850	352.760	6496.17	-927.88	940.37	1046.27	11.96	
6918.00	19.820	323.590	6576.32	-914.48	966.35	1035.87	11.53	
7006.00	23.290	306.350	6658.23	-889.11	988.70	1012.97	8.17	
7093.00	27.360	298.000	6736.88	-855.49	1008.29	981.45	6.21	
7180.00	32.500	292.610	6812.27	-814.33	1026.68	942.19	6.66	
7268.00	43.500	286.360	6881.53	-761.54	1044.36	891.12	13.23	
7357.00	51.370	278.170	6941.74	-696.42	1057.96	827.16	11.13	
7445.00	62.080	272.230	6989.98	-623.04	1064.38	754.03	13.41	
7533.00	71.920	273.310	7024.33	-542.33	1068.32	673.22	11.24	
7597.00†	79.329	271.708	7040.21	-480.55	1071.02	611.33	11.83	CROSSED 460' SETBACK (966'FNL & 460'FEL, SEC.15)
7621.00	82.110	271.130	7044.08	-456.97	1071.60	587.66	11.83	
7708.00	89.290	269.410	7050.60	-370.84	1072.00	500.96	8.48	LANDING POINT (959'FNL & 586'FEL, SEC.15)
7795.00	91.140	269.550	7050.27	-284.55	1071.22	413.97	2.13	
7883.00	91.510	269.820	7048.23	-197.25	1070.73	326.00	0.52	
7970.00	88.830	269.910	7047.98	-110.89	1070.53	239.00	3.08	
8058.00	88.640	270.510	7049.92	-23.49	1070.85	151.03	0.72	
8145.00	90.800	271.870	7050.34	63.09	1072.66	64.05	2.93	
8233.00	90.120	270.550	7049.64	150.67	1074.51	-23.92	1.69	
8320.00	88.520	268.900	7050.67	237.00	1074.10	-110.91	2.64	
8408.00	88.980	268.850	7052.59	324.14	1072.37	-198.87	0.53	
8496.00	89.940	270.880	7053.42	411.49	1072.16	-286.86	2.55	
8583.00	91.820	271.810	7052.08	498.08	1074.20	-373.82	2.41	
8670.00	90.740	271.140	7050.14	584.68	1076.44	-460.77	1.46	
8758.00	89.450	270.380	7049.99	672.20	1077.61	-548.76	1.70	
8846.00	89.600	269.120	7050.72	759.53	1077.23	-636.75	1.44	
8933.00	89.480	270.150	7051.42	845.85	1076.67	-723.75	1.19	



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Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
9020.00	89.420	271.930	7052.26	932.40	1078.25	-810.73	2.05	
9108.00	90.150	270.650	7052.59	1020.00	1080.23	-898.70	1.67	
9195.00	89.570	268.510	7052.80	1106.31	1079.59	-985.69	2.55	
9283.00	89.600	268.940	7053.44	1193.43	1077.64	-1073.67	0.49	
9371.00	89.750	276.690	7053.94	1281.15	1081.95	-1161.49	8.81	
9459.00	89.600	278.790	7054.44	1369.14	1093.81	-1248.69	2.39	
9546.00	90.650	269.940	7054.25	1455.97	1100.42	-1335.35	10.24	
9633.00	90.250	265.570	7053.56	1541.87	1097.01	-1422.25	5.04	
9721.00	90.460	265.340	7053.02	1628.15	1090.04	-1509.98	0.35	
9808.00	89.850	265.790	7052.78	1713.49	1083.31	-1596.71	0.87	
9896.00	89.780	268.890	7053.07	1800.29	1079.23	-1684.61	3.52	
9984.00	89.790	271.300	7053.40	1887.68	1079.37	-1772.60	2.74	
10071.00	89.790	272.390	7053.72	1974.36	1082.18	-1859.55	1.25	
10159.00	90.000	270.550	7053.88	2061.97	1084.43	-1947.52	2.10	
10246.00	89.970	267.810	7053.90	2148.20	1083.19	-2034.50	3.15	
10333.00	89.820	266.680	7054.06	2234.00	1079.01	-2121.40	1.31	
10421.00	90.150	264.020	7054.08	2320.24	1071.87	-2209.10	3.05	
10508.00	90.060	261.700	7053.92	2404.68	1061.06	-2295.42	2.67	
10595.00	89.850	263.590	7053.99	2489.04	1049.92	-2381.70	2.19	
10683.00	89.750	266.250	7054.30	2575.15	1042.13	-2469.35	3.02	
10770.00	90.060	268.600	7054.44	2660.99	1038.22	-2556.26	2.72	
10858.00	89.380	272.870	7054.87	2748.48	1039.35	-2644.23	4.91	
10946.00	90.000	271.410	7055.35	2836.18	1042.64	-2732.16	1.80	
11033.00	89.600	269.250	7055.65	2922.63	1043.14	-2819.15	2.52	
11119.00	89.850	272.390	7056.07	3008.15	1044.37	-2905.13	3.66	
11206.00	89.660	272.920	7056.44	3094.92	1048.40	-2992.04	0.65	
11294.00	89.910	271.520	7056.77	3182.64	1051.81	-3079.97	1.62	
11381.00	89.600	272.520	7057.14	3269.34	1054.87	-3166.91	1.20	
11469.00	89.690	274.260	7057.69	3357.18	1060.08	-3254.75	1.98	
11557.00	90.620	271.920	7057.45	3444.99	1064.82	-3342.62	2.86	



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Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11644.00	89.690	270.540	7057.21	3531.58	1066.69	-3429.60	1.91	
11733.00	89.660	271.470	7057.72	3620.12	1068.25	-3518.58	1.05	
11821.00	89.720	272.820	7058.19	3707.83	1071.54	-3606.52	1.54	
11908.00	89.750	271.060	7058.60	3794.52	1074.49	-3693.46	2.02	
11996.00	90.860	269.060	7058.13	3881.91	1074.58	-3781.45	2.60	
12084.00	90.860	264.790	7056.81	3968.58	1069.86	-3869.30	4.85	
12171.00	88.740	265.160	7057.11	4053.73	1062.24	-3955.96	2.47	
12259.00	89.140	265.460	7058.74	4139.96	1055.05	-4043.65	0.57	
12346.00	88.740	267.920	7060.35	4225.59	1050.03	-4130.48	2.86	
12434.00	89.200	269.330	7061.93	4312.68	1047.91	-4218.44	1.69	
12522.00	89.200	270.140	7063.16	4400.01	1047.51	-4306.43	0.92	
12610.00	90.280	270.130	7063.56	4487.41	1047.71	-4394.43	1.23	
12697.00	89.940	269.980	7063.39	4573.81	1047.80	-4481.42	0.43	
12785.00	90.310	272.370	7063.20	4661.39	1049.60	-4569.40	2.75	
12871.00	90.400	273.530	7062.66	4747.19	1054.03	-4655.28	1.35	
12959.00	90.250	274.450	7062.17	4835.08	1060.15	-4743.07	1.06	
13048.00	90.620	272.050	7061.49	4923.90	1065.20	-4831.91	2.73	
13136.00	90.280	270.540	7060.80	5011.50	1067.19	-4919.89	1.76	
13224.00	90.280	269.750	7060.37	5098.90	1067.41	-5007.88	0.90	
13311.00	90.340	271.350	7059.90	5185.39	1068.24	-5094.88	1.84	
13398.00	90.220	274.450	7059.47	5272.17	1072.64	-5181.75	3.57	
13486.00	90.340	268.060	7059.04	5359.72	1074.57	-5269.69	7.26	
13573.00	90.280	265.540	7058.57	5445.39	1069.71	-5356.54	2.90	
13662.00	90.280	267.890	7058.14	5533.02	1064.62	-5445.39	2.64	
13749.00	90.190	264.990	7057.78	5618.59	1059.21	-5532.21	3.33	
13837.00	90.250	270.620	7057.44	5705.48	1055.84	-5620.11	6.40	
13925.00	90.150	271.610	7057.13	5793.05	1057.56	-5708.09	1.13	
14012.00	90.340	270.690	7056.76	5879.62	1059.30	-5795.07	1.08	
14101.00	90.280	267.740	7056.28	5967.84	1058.08	-5884.05	3.32	
14188.00	89.790	269.460	7056.23	6053.95	1055.96	-5971.02	2.06	



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Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
14276.00	90.250	271.030	7056.20	6141.37	1056.33	-6059.02	1.86	
14363.00	90.310	270.350	7055.77	6227.88	1057.38	-6146.01	0.78	
14450.00	90.220	270.100	7055.37	6314.31	1057.72	-6233.01	0.31	
14538.00	90.280	269.080	7054.98	6401.62	1057.09	-6321.01	1.16	
14625.00	90.150	270.720	7054.66	6487.98	1056.94	-6408.00	1.89	
14712.00	90.220	272.230	7054.38	6574.61	1059.18	-6494.97	1.74	
14800.00	90.220	272.710	7054.04	6662.36	1062.97	-6582.89	0.55	
14888.00	90.220	270.950	7053.70	6750.03	1065.78	-6670.84	2.00	
14975.00	90.150	267.290	7053.42	6836.23	1064.45	-6757.81	4.21	
15063.00	90.250	266.980	7053.11	6922.99	1060.05	-6845.70	0.37	
15150.00	90.250	268.640	7052.73	7008.92	1056.73	-6932.63	1.91	
15238.00	89.720	270.120	7052.76	7096.18	1055.77	-7020.63	1.79	
15325.00	89.660	271.660	7053.23	7182.72	1057.12	-7107.61	1.77	
15412.00	89.780	271.550	7053.65	7269.36	1059.56	-7194.58	0.19	
15498.00	89.600	271.890	7054.12	7355.03	1062.14	-7280.54	0.45	
15585.00	89.450	271.850	7054.84	7441.70	1064.98	-7367.49	0.18	
15672.00	89.630	271.190	7055.54	7528.33	1067.29	-7454.45	0.79	
15759.00	89.350	270.210	7056.31	7614.84	1068.35	-7541.44	1.17	
15847.00	89.380	269.870	7057.29	7702.23	1068.41	-7629.44	0.39	
15935.00	89.510	269.130	7058.14	7789.51	1067.65	-7717.43	0.85	
16021.00	89.420	270.590	7058.94	7874.88	1067.44	-7803.42	1.70	
16108.00	89.510	270.970	7059.76	7961.40	1068.62	-7890.41	0.45	
16196.00	89.420	268.660	7060.58	8048.74	1068.34	-7978.40	2.63	
16283.00	89.940	268.020	7061.06	8134.79	1065.82	-8065.36	0.95	
16371.00	89.910	269.290	7061.18	8221.91	1063.75	-8153.34	1.44	
16459.00	90.310	270.190	7061.01	8309.24	1063.35	-8241.33	1.12	
16546.00	90.030	270.620	7060.75	8395.70	1063.97	-8328.33	0.59	
16632.00	89.970	269.570	7060.75	8481.12	1064.11	-8414.33	1.22	
16720.00	90.060	269.410	7060.73	8568.40	1063.32	-8502.33	0.21	
16808.00	90.090	268.840	7060.61	8655.62	1061.98	-8590.32	0.65	



Actual Wellpath Report

SIMPSON FD 16-062HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	GREAT WESTERN OPERATING CO LLC	Slot	SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15)
Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
16896.00	90.000	268.690	7060.54	8742.76	1060.08	-8678.29	0.20	
16983.00	90.000	267.550	7060.54	8828.76	1057.23	-8765.25	1.31	
17064.00	90.000	268.450	7060.54	8908.81	1054.40	-8846.20	1.11	LAST BHI MWD SURVEY (1050'FNL & 494'FWL, SEC.16)
17088.00	90.000	268.450	7060.54	8932.56	1053.75	-8870.19	0.00	PROJECTION TO BIT (1049'FNL & 470'FWL, SEC.16)

HOLE & CASING SECTIONS - Ref Wellbore: SIMPSON FD 16-062HN AWB Ref Wellpath: SIMPSON FD 16-062HN AWP

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing Surface	16.20	1299.00	1282.80	16.20	1298.98	0.00	0.00	-0.35	2.32
7.875in Open Hole	1299.00	17088.00	15789.00	1298.98	7060.54	-0.35	2.32	1053.75	-8870.19
5.5in Casing Production	16.20	17088.00	17071.80	16.20	7060.54	0.00	0.00	1053.75	-8870.19



Actual Wellpath Report

SIMPSON FD 16-062HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	GREAT WESTERN OPERATING CO LLC	Slot	SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15)
Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWP
Facility	SEC.15-T06N-R67W		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.15-T06N-R67W	0.00	-100.19	-59.49	3174039.33	1421348.24	40°29'17.940"N	104°52'27.430"W	polygon
SEC.16-T06N-R67W	0.00	-100.19	-59.49	3174039.33	1421348.24	40°29'17.940"N	104°52'27.430"W	polygon
SIMPSON FD 16-062HN EP ON PLAT (964'FNL & 460'FEL, SEC.15)	7027.00	1075.76	625.82	3174716.30	1422528.95	40°29'29.560"N	104°52'18.560"W	point
SIMPSON FD 16-062HN BHL ON PLAT (965'FNL & 470'FWL, SEC.16)	7029.00	1140.09	-8870.47	3165220.14	1422526.25	40°29'30.180"N	104°54'21.470"W	point
SIMPSON FD 16-062HN BHL REV- 1 (1050'FNL & 470'FWL, SEC.16)	7030.00	1055.09	-8870.47	3165220.74	1422441.25	40°29'29.340"N	104°54'21.470"W	point
SIMPSON FD 16-062HN WAYPOINT 1	7053.00	1063.05	-6001.41	3168089.57	1422469.46	40°29'29.427"N	104°53'44.336"W	point
SIMPSON FD 16-062HN EP REV-2 (964'FNL & 585'FEL, SEC.15)	7056.00	1075.76	500.00	3174590.49	1422528.06	40°29'29.560"N	104°52'20.189"W	point
SIMPSON FD 16-062HN EP REV-1 (964'FNL & 585'FEL, SEC.15)	7062.00	1075.76	500.00	3174590.49	1422528.06	40°29'29.560"N	104°52'20.189"W	point
SEC.15-T06N-R67W (HARDLINES 460'FEL (HALF SECTION))	7209.00	-100.19	-59.49	3174039.33	1421348.24	40°29'17.940"N	104°52'27.430"W	polygon
SEC.15/16-T06N-R67W (HARDLINES 460' SETBACK)	7209.00	-100.19	-59.49	3174039.33	1421348.24	40°29'17.940"N	104°52'27.430"W	polygon



Actual Wellpath Report

SIMPSON FD 16-062HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	GREAT WESTERN OPERATING CO LLC	Slot	SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15)
Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWB
Facility	SEC.15-T06N-R67W		

WELLPATH COMPOSITION - Ref Wellbore: SIMPSON FD 16-062HN AWB Ref Wellpath: SIMPSON FD 16-062HN AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.20	1263.20	ISCWSA MWD, Rev. 3 (Standard)	TOTAL MWD SURVEYS <87.72-1263.20>	SIMPSON FD 16-062HN AWB
1263.20	17064.00	NaviTrak (Standard)	BHI/NAVITRAK (STD) MWD 7.875"-<1361-17064>	SIMPSON FD 16-062HN AWB
17064.00	17088.00	Blind Drilling (std)	Projection to bit	SIMPSON FD 16-062HN AWB



Actual Wellpath Report

SIMPSON FD 16-062HN AWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	GREAT WESTERN OPERATING CO LLC	Slot	SLOT#17 SIMPSON FD 16-062HN (2036'FNL & 1076'FEL, SEC.15)
Area	COLORADO	Well	SIMPSON FD 16-062HN
Field	WELD COUNTY	Wellbore	SIMPSON FD 16-062HN AWP
Facility	SEC.15-T06N-R67W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1263.20	0.530	13.560	1263.18	TIE INTO TOTAL DIRECTIONAL MWD SURVEYS
1361.00	0.400	90.280	1360.98	FIRST BHI MWD SURVEY
7597.00	79.329	271.708	7040.21	CROSSED 460' SETBACK (966'FNL & 460'FEL, SEC.15)
7708.00	89.290	269.410	7050.60	LANDING POINT (959'FNL & 586'FEL, SEC.15)
17064.00	90.000	268.450	7060.54	LAST BHI MWD SURVEY (1050'FNL & 494'FWL, SEC.16)
17088.00	90.000	268.450	7060.54	PROJECTION TO BIT (1049'FNL & 470'FWL, SEC.16)