

Great Western Operating Company, LLC

Created by: admin	Date plotted: 25-Apr-2018
Plot reference is Schneider HD 11-299HNX (AWB).	
Ref wellpath is Schneider HD 11-299HNX (AWP#1).	
Coordinates are in Feet reference Slot 07 - Schneider HD 11-299HNX.	
True Vertical Depths are reference Rig Datum.	
Measured Depths are reference Rig Datum.	
Rig Datum: Actual Datum #1	
Rig Datum to Mean Sea Level: 47,551.0 ft.	
Plot North is aligned to TRUE North.	

Location	Colorado	Slot	Slot 07 - Schneider HD 11-299HNX
Field	Wattenburg	Well	Schneider HD 11-299HNX
Installation	Schneider - South	Wellbore	Schneider HD 11-299HNX (AWB)

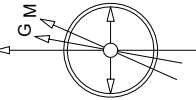
East (Feet) ->

Scale 1 cm = 400 ft

E

N

TRUE



July 22, 2014  
IGRF Model [1900.0-2020.0] Dip: 66.86 deg Field: 52652.2 nT  
Lat: N40 19 21.9792 Long: W104 49 43.4100 Elev: 4735.10 ft  
Magnetic North is 6.55 deg East of TRUE North  
To convert from Magnetic to TRUE add 6.55 deg

9600

8000

6400

4800

3200

1600

0

-1600

-3200

-4800

-6400

-8000

-9600

-11200

-12800

-14400

-16000

-17600

-19200

-20800

-22400

-24000

-25600

-27200

-28800

-30400

-32000

-33600

-35200

-36800

-38400

-40000

-41600

-43200

-44800

-46400

-48000

-49600

-51200

-52800

-54400

-56000

-57600

-59200

-60800

-62400

-64000

-65600

-67200

-68800

-70400

-72000

-73600

-75200

-76800

-78400

-80000

-81600

-83200

-84800

-86400

-88000

-89600

-91200

-92800

-94400

-96000

-97600

-99200

-100800

-102400

-104000

-105600

-107200

-108800

-110400

-112000

-113600

-115200

-116800

-118400

-120000

-121600

-123200

-124800

-126400

-128000

-129600

-131200

-132800

-134400

-136000

-137600

-139200

-140800

-142400

-144000

-145600

-147200

-148800

-150400

-152000

-153600

-155200

-156800

-158400

-160000

-161600

-163200

-164800

-166400

-168000

-169600

-171200

-172800

-174400

-176000

-177600

-179200

-180800

-182400

-184000

-185600

-187200

-188800

-190400

-192000

-193600

-195200

-196800

-198400

-200000

-201600

-203200

-204800

-206400

-208000

-209600

-211200

-212800

-214400

-216000

-217600

-219200

-220800

-222400

-224000

-225600

-227200

-228800

-230400

-232000

-233600

-235200

-236800

-238400

-240000

-241600

-243200

-244800

-246400

-248000

-249600

-251200

-252800

-254400

-256000

-257600

-259200

-260800

-262400

-264000

-265600

-267200

-268800

-270400

-272000

-273600

-275200

-276800

-278400

-280000

-281600

-283200

-284800

-286400

-288000

-289600

-291200

-292800

-294400

-296000

-297600

-299200

-300800

-302400

-304000

-305600

-307200

-308800

-310400

-312000

-313600

-315200

-316800

-318400

-320000

-321600

-323200

-324800

-326400

-328000

-329600

-331200

-332800

-334400

-336000

-337600

-339200

-340800

-342400

-344000

-345600

-347200

-348800

-350400

-352000

-353600

-355200

-356800

-358400

-360000

-361600

-363200

-364800

-366400

-368000

-369600

-371200

-372800

-374400

-376000

-377600

-379200

-380800

-382400

-384000

-385600

-387200

-388800

-390400

-392000

-393600

-395200

-396800

-398400

-400000

-401600

-403200

-404800

-406400

-408000

-409600

-411200

-412800

-414400

-416000

-417600

-419200

-420800

-422400

-424000

-425600

-427200

-428800

-430400

-432000

-433600

-435200

-436800

-438400

-440000

-441600

-443200

-444800

-446400

-448000

-449600

-451200

-452800

-454400

-456000

-457600

-459200

Great Western Operating Co, LLC  
Wellbore Survey Report  
Wellpath: Schneider HD 11-299HNX (AWP#1)  
MDs and TVDs are from Rig ( Actual Datum #1 4755.1ft above Mean Sea Level )

**Wellbore Information**

Date Created	Date Revised	API #	Name
Jun-21-2017	Apr-25-2018	05-123-44683	Schneider HD 11-299HNX (AWB)

**Slot Coordinates**

Latitude	Longitude
40.32252500	-104.82872200

**Pad Information**

Name	Ground Elev
Schneider - South	4735.10

**Field**

Name
Wattenburg

**Wellpath Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.000	0.00	0.00	0.00		0.00
9.90	0.00	211.630	9.90	0.00	0.00	==>	0.00
121.90	0.13	211.630	121.90	-0.11	-0.07	0.12	0.06
217.90	0.88	254.870	217.90	-0.39	-0.84	0.82	0.83
312.90	1.05	266.820	312.88	-0.63	-2.41	0.28	2.39
407.90	1.27	261.990	407.86	-0.83	-4.32	0.25	4.30
502.90	0.40	232.810	502.85	-1.17	-5.63	0.99	5.60
596.90	0.66	0.000	596.85	-0.83	-5.89	1.02	5.87
691.90	0.26	185.440	691.85	-0.50	-5.91	0.97	5.90
786.90	0.70	219.630	786.84	-1.16	-6.30	0.53	6.27
881.90	0.92	239.230	881.84	-2.00	-7.32	0.37	7.28
976.90	1.23	268.760	976.82	-2.41	-9.00	0.66	8.95
1007.90	1.45	278.250	1007.81	-2.36	-9.72	1.01	9.67
1071.90	1.14	278.250	1071.79	-2.15	-11.15	0.48	11.10
1103.90	1.14	282.560	1103.79	-2.04	-11.78	0.27	11.73
1198.90	0.97	278.250	1198.77	-1.72	-13.50	0.20	13.46
1293.90	0.92	305.940	1293.76	-1.15	-14.91	0.48	14.88
1388.90	1.14	305.850	1388.74	-0.15	-16.29	0.23	16.29
1484.90	1.41	285.190	1484.72	0.72	-18.21	0.55	18.22
1513.90	0.88	286.690	1513.72	0.87	-18.76	1.83	18.78
1563.90	0.58	286.690	1563.71	1.06	-19.37	0.60	19.39
1569.00	0.58	289.630	1568.81	1.07	-19.42	0.59	19.44
1598.00	0.63	305.230	1597.81	1.21	-19.69	0.59	19.71
1607.00	0.48	301.970	1606.81	1.26	-19.77	1.70	19.79
1696.00	2.42	357.310	1695.78	3.34	-20.17	2.45	20.24
1786.00	5.10	347.890	1785.58	9.15	-21.10	3.05	21.29
1875.00	5.38	349.580	1874.20	17.12	-22.68	0.36	23.05
1965.00	5.20	346.840	1963.82	25.24	-24.37	0.34	24.91
2054.00	4.19	277.490	2052.59	29.59	-28.52	6.07	29.15
2143.00	3.47	209.390	2141.43	27.67	-33.07	4.86	33.66
2233.00	0.22	283.320	2231.37	25.34	-34.57	3.80	35.11
2322.00	0.07	359.770	2320.37	25.43	-34.74	0.24	35.28
2411.00	0.21	309.730	2409.37	25.59	-34.86	0.19	35.41
2501.00	0.13	333.040	2499.37	25.78	-35.04	0.12	35.59
2591.00	0.17	196.330	2589.37	25.75	-35.12	0.31	35.67
2680.00	0.00	98.410	2678.37	25.62	-35.16	0.19	35.70
2770.00	0.17	326.030	2768.37	25.73	-35.23	0.19	35.78
2859.00	0.06	325.770	2857.37	25.88	-35.33	0.12	35.88
2949.00	0.22	325.120	2947.37	26.06	-35.46	0.18	36.01
3038.00	0.13	18.550	3036.37	26.30	-35.52	0.20	36.08
3128.00	0.17	75.840	3126.37	26.43	-35.36	0.16	35.92
3217.00	0.12	192.270	3215.37	26.37	-35.25	0.28	35.81
3307.00	0.23	317.900	3305.37	26.41	-35.39	0.35	35.96
3396.00	0.37	353.980	3394.37	26.83	-35.54	0.26	36.11
3485.00	0.37	93.020	3483.37	27.10	-35.29	0.63	35.86
3575.00	0.09	73.660	3573.37	27.10	-34.93	0.32	35.51
3664.00	0.22	342.100	3662.36	27.28	-34.92	0.27	35.50
3754.00	0.33	85.240	3752.36	27.47	-34.71	0.48	35.29
3843.00	0.47	335.210	3841.36	27.82	-34.61	0.74	35.20
3932.00	0.16	214.620	3930.36	28.05	-34.83	0.64	35.43
4022.00	0.13	149.080	4020.36	27.86	-34.85	0.18	35.44
4112.00	0.09	311.760	4110.36	27.82	-34.85	0.24	35.44
4201.00	0.15	232.600	4199.36	27.80	-35.00	0.18	35.59
4291.00	0.25	95.160	4289.36	27.71	-34.89	0.42	35.48
4380.00	0.25	329.780	4378.36	27.86	-34.80	0.50	35.39
4469.00	0.22	172.300	4467.36	27.86	-34.87	0.52	35.46
4559.00	0.09	133.570	4557.36	27.64	-34.80	0.18	35.39
4648.00	0.31	48.450	4646.36	27.75	-34.57	0.35	35.16
4738.00	0.06	81.610	4736.36	27.92	-34.34	0.29	34.93
4827.00	0.03	229.700	4825.36	27.91	-34.31	0.10	34.90
4917.00	0.11	345.470	4915.36	27.98	-34.35	0.14	34.94
5006.00	0.09	239.600	5004.36	28.02	-34.43	0.18	35.03
5096.00	0.14	235.000	5094.36	27.93	-34.58	0.06	35.18
5185.00	0.13	200.940	5183.36	27.77	-34.71	0.09	35.30
5274.00	0.17	253.320	5272.36	27.64	-34.87	0.15	35.46
5364.00	0.09	179.680	5362.36	27.53	-35.00	0.19	35.58
5453.00	0.06	353.600	5451.36	27.50	-35.00	0.17	35.59
5543.00	0.13	122.190	5541.36	27.50	-34.92	0.19	35.51
5632.00	1.66	290.530	5630.35	27.89	-36.04	2.01	36.64

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
5721.00	6.25	308.260	5719.11	31.35	-41.06	5.28	41.72
5811.00	6.97	305.880	5808.51	37.58	-49.33	0.86	50.13
5900.00	8.67	299.200	5896.69	44.02	-59.56	2.16	60.50
5990.00	11.52	306.030	5985.29	52.62	-72.75	3.43	73.87
6079.00	15.33	311.060	6071.84	65.58	-88.82	4.47	90.21
6169.00	17.57	312.070	6158.15	82.50	-107.87	2.51	109.63
6258.00	20.43	305.000	6242.31	100.41	-130.58	4.12	132.71
6348.00	23.19	293.970	6325.89	116.63	-159.66	5.48	162.13
6437.00	25.44	294.420	6406.99	131.66	-193.08	2.54	195.87
6527.00	28.20	298.000	6487.31	149.64	-229.46	3.55	232.64
6616.00	29.54	300.940	6565.25	170.79	-266.85	2.19	270.47
6706.00	31.47	301.480	6642.79	194.47	-305.92	2.17	310.04
6795.00	38.11	287.650	6715.95	214.98	-352.03	11.55	356.58
6884.00	47.11	278.800	6781.45	228.34	-410.59	12.13	415.42
6974.00	56.76	277.970	6836.87	238.62	-480.61	10.75	485.64
7063.00	66.55	274.850	6879.08	247.26	-558.36	11.42	563.55
7153.00	74.55	273.030	6909.03	253.05	-642.95	9.09	648.25
7242.00	82.38	270.240	6926.82	255.51	-730.04	9.32	735.38
7252.97	83.17	270.180	6928.20	255.55	-740.92	7.27	746.26
7331.00	88.83	269.780	6933.63	255.52	-818.73	7.27	824.05
7358.00	88.84	269.390	6934.18	255.32	-845.72	1.44	851.03
7421.00	88.86	268.480	6935.45	254.15	-908.70	1.44	913.97
7510.00	90.28	270.520	6936.11	253.38	-997.69	2.79	1002.92
7600.00	90.28	271.000	6935.68	254.57	-1087.68	0.53	1092.91
7689.00	90.34	270.990	6935.19	256.12	-1176.66	0.07	1181.91
7779.00	90.49	271.360	6934.54	257.96	-1266.64	0.44	1271.91
7868.00	90.62	272.210	6933.68	260.73	-1355.59	0.97	1360.90
7958.00	90.40	271.130	6932.88	263.36	-1445.55	1.22	1450.89
8047.00	90.22	269.510	6932.40	263.85	-1534.54	1.83	1539.87
8137.00	90.34	268.930	6931.96	262.63	-1624.53	0.66	1629.82
8226.00	90.58	268.390	6931.24	260.55	-1713.51	0.66	1718.72
8316.00	90.31	267.310	6930.54	257.17	-1803.44	1.24	1808.56
8405.00	90.37	266.730	6930.02	252.54	-1892.32	0.66	1897.32
8494.00	90.40	266.500	6929.42	247.29	-1981.16	0.26	1986.03
8584.00	90.43	267.040	6928.77	242.22	-2071.01	0.60	2075.75
8673.00	90.28	266.170	6928.21	236.95	-2159.86	0.99	2164.46
8763.00	90.46	267.520	6927.63	232.00	-2249.71	1.51	2254.19
8852.00	90.49	268.560	6926.89	228.95	-2338.66	1.17	2343.05
8941.00	90.31	270.940	6926.27	228.56	-2427.65	2.68	2432.01
9031.00	89.97	271.990	6926.05	230.86	-2517.62	1.23	2522.01
9120.00	90.40	273.230	6925.77	234.92	-2606.52	1.47	2610.98
9210.00	90.28	274.220	6925.23	240.76	-2696.33	1.11	2700.89
9299.00	90.34	274.120	6924.75	247.24	-2785.09	0.13	2789.77
9389.00	90.52	272.870	6924.08	252.72	-2874.92	1.40	2879.70
9478.00	90.43	269.390	6923.34	254.48	-2963.89	3.91	2968.68
9567.00	90.55	266.690	6922.58	251.43	-3052.82	3.04	3057.53
9656.00	90.55	268.050	6921.72	247.35	-3141.72	1.53	3146.33
9746.00	90.49	269.300	6920.90	245.27	-3231.69	1.39	3236.23
9836.00	90.43	269.300	6920.18	244.17	-3321.68	0.07	3326.18
9925.00	90.49	269.130	6919.47	242.95	-3410.67	0.20	3415.12
10014.00	90.40	267.790	6918.78	240.56	-3499.64	1.51	3504.01
10104.00	90.40	267.850	6918.15	237.13	-3589.57	0.07	3593.85
10193.00	90.40	269.220	6917.53	234.86	-3678.54	1.54	3682.74
10283.00	90.34	269.810	6916.95	234.10	-3768.53	0.66	3772.70
10372.00	90.34	269.890	6916.42	233.86	-3857.53	0.09	3861.67
10462.00	90.37	271.010	6915.86	234.57	-3947.52	1.24	3951.66
10551.00	90.28	272.700	6915.35	237.45	-4036.47	1.90	4040.65
10640.00	90.49	273.850	6914.76	242.54	-4125.32	1.31	4129.59
10730.00	90.49	271.540	6913.99	246.77	-4215.21	2.57	4219.55
10819.00	90.43	268.180	6913.27	246.55	-4304.20	3.78	4308.51
10909.00	89.82	267.600	6913.08	243.24	-4394.14	0.94	4398.36
10999.00	89.94	267.010	6913.26	239.00	-4484.04	0.67	4488.14
11088.00	90.00	266.430	6913.31	233.91	-4572.89	0.66	4576.87
11177.00	89.78	268.270	6913.48	229.80	-4661.79	2.08	4665.66
11267.00	89.91	271.440	6913.73	229.57	-4751.78	3.53	4755.62
11356.00	90.25	271.590	6913.60	231.92	-4840.75	0.42	4844.62
11446.00	90.12	269.870	6913.31	233.07	-4930.74	1.92	4934.61
11535.00	89.88	271.920	6913.31	234.46	-5019.72	2.32	5023.61
11624.00	89.69	273.960	6913.64	239.02	-5108.60	2.30	5112.56
11714.00	90.03	274.440	6913.86	245.62	-5198.35	0.65	5202.44
11803.00	90.03	274.760	6913.82	252.75	-5287.07	0.36	5291.29
11893.00	90.18	271.700	6913.65	257.82	-5376.91	3.40	5381.22
11982.00	91.23	270.220	6912.56	259.32	-5465.89	2.04	5470.21
12072.00	90.77	271.160	6910.99	260.40	-5555.87	1.16	5560.19
12161.00	91.11	270.820	6909.53	261.94	-5644.84	0.54	5649.18
12250.00	91.05	268.530	6907.85	261.43	-5733.82	2.57	5738.12
12339.00	91.11	266.980	6906.17	257.95	-5822.73	1.74	5826.94
12429.00	91.23	268.010	6904.33	254.01	-5912.63	1.15	5916.73
12519.00	90.95	270.610	6902.62	252.93	-6002.60	2.91	6006.65
12608.00	91.14	270.970	6901.00	254.16	-6091.57	0.46	6095.64
12697.00	90.86	270.250	6899.44	255.10	-6180.55	0.87	6184.62
12786.00	90.92	269.910	6898.06	255.23	-6269.54	0.39	6273.59
12876.00	90.98	270.770	6896.57	255.76	-6359.53	0.96	6363.56
12965.00	90.80	271.300	6895.19	257.37	-6448.50	0.63	6452.55
13054.00	90.89	271.120	6893.88	259.25	-6537.47	0.23	6541.54
13144.00	90.89	269.820	6892.48	259.99	-6627.46	1.44	6631.52
13233.00	91.11	267.910	6890.92	258.22	-6716.42	2.16	6720.43
13322.00	91.26	265.870	6889.08	253.40	-6805.27	2.30	6809.15
13411.00	91.45	266.240	6886.98	247.28	-6894.03	0.47	6897.76
13501.00	90.98	268.850	6885.07	243.42	-6983.92	2.95	6987.55
13591.00	91.51	269.830	6883.11	242.39	-7073.89	1.24	7077.47
13680.00	91.38	269.390	6880.87	241.78	-7162.86	0.52	7166.41

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]
13769.00	91.54	269.610	6878.60	241.00	-7251.83	0.31	7255.34
13859.00	91.29	269.900	6876.38	240.62	-7341.80	0.43	7345.28
13948.00	91.42	271.010	6874.28	241.33	-7430.77	1.26	7434.25
14037.00	91.45	270.420	6872.05	242.44	-7519.74	0.66	7523.22
14127.00	90.55	269.470	6870.48	242.35	-7609.72	1.45	7613.18
14216.00	90.28	269.620	6869.83	241.64	-7698.72	0.35	7702.14
14306.00	90.22	270.340	6869.44	241.61	-7788.71	0.80	7792.11
14395.00	90.34	270.650	6869.00	242.38	-7877.71	0.37	7881.10
14484.00	90.18	270.190	6868.60	243.03	-7966.71	0.55	7970.09
14574.00	90.31	269.200	6868.21	242.55	-8056.70	1.11	8060.06
14663.00	90.46	268.610	6867.62	240.85	-8145.68	0.68	8148.98
14753.00	90.34	269.120	6866.99	239.07	-8235.66	0.58	8238.90
14842.00	89.91	268.500	6866.79	237.22	-8324.64	0.85	8327.82
14932.00	90.28	268.240	6866.64	234.66	-8414.61	0.50	8417.71
15021.00	90.22	268.910	6866.26	232.45	-8503.58	0.76	8506.61
15110.00	90.28	268.110	6865.87	230.13	-8592.55	0.90	8595.51
15200.00	90.12	266.770	6865.55	226.11	-8682.45	1.50	8685.31
15289.00	90.62	270.010	6864.98	223.61	-8771.41	3.68	8774.19
15379.00	90.49	273.390	6864.11	226.28	-8861.35	3.76	8864.17
15468.00	90.12	277.040	6863.63	234.37	-8949.96	4.12	8952.94
15558.00	90.43	271.330	6863.20	240.94	-9039.69	6.35	9042.78
15647.00	90.43	266.850	6862.53	239.52	-9128.65	5.03	9131.69
15736.00	90.40	266.630	6861.89	234.46	-9217.50	0.25	9220.41
15826.00	90.40	267.030	6861.26	229.49	-9307.36	0.44	9310.15
15915.00	90.34	267.780	6860.68	225.46	-9396.27	0.85	9398.95
16004.00	90.28	269.550	6860.20	223.38	-9485.24	1.99	9487.85
16093.00	90.40	270.470	6859.68	223.40	-9574.24	1.04	9576.83
16182.00	90.34	269.200	6859.10	223.14	-9663.23	1.43	9665.80
16272.00	90.18	268.680	6858.69	221.48	-9753.22	0.60	9755.72
16361.00	90.43	269.170	6858.22	219.81	-9842.20	0.62	9844.65
16450.00	89.85	271.170	6858.00	220.07	-9931.19	2.34	9933.63
16539.00	90.40	272.130	6857.81	222.63	-10020.16	1.24	10022.63
16629.00	90.12	272.700	6857.40	226.43	-10110.07	0.71	10112.61
16718.00	90.15	268.610	6857.19	227.44	-10199.05	4.60	10201.58
16807.00	90.49	268.850	6856.69	225.47	-10288.03	0.47	10290.50
16811.00	90.49	268.880	6856.66	225.39	-10292.02	0.65	10294.49
16844.19	90.45	269.090	6856.39	224.80	-10325.21	0.65	10327.65
16885.00	90.40	269.350	6856.09	224.25	-10366.01	0.65	10368.44
16893.25	90.40	269.350	6856.03	224.15	-10374.26	==>	10376.68
16909.00	90.40	269.350	6855.92	223.97	-10390.01	==>	10392.42

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
1569.00	1568.81	1.07	-19.42	9.625" Csg: 1569 MD/TVD
7252.97	6928.20	255.55	-740.92	460 Setback: 7253 / 6928 MD/TVD, 1468 FSL, 460 FEL Sec 12
7358.00	6934.18	255.32	-845.72	Top Perf: 7358 / 6934 MD/TVD, 1468 FSL, 565 FEL Sec 12
16811.00	6856.66	225.39	-10292.02	Btm Perf: 16,811 / 6857 MD/TVD, 1363 FSL, 568 FWL Sec 11
16844.19	6856.39	224.80	-10325.21	Btm Toe Sub: 16,844 / 6856 MD/TVD, 1362 FSL, 535 FWL Sec 11
16893.25	6856.03	224.15	-10374.26	PBTD: 16,894 / 6856 MD/TVD, 1360 FSL, 486 FWL Sec 11
16909.00	6855.92	223.97	-10390.01	5.5" Csg: 16,909 / 6856 MD/TVD, 1360 FSL, 470 FWL Sec 11
16909.00	6855.92	223.97	-10390.01	BHL: 16,909 / 6856 MD/TVD, 1360 FSL, 470 FWL Sec 11

Hole Sections

Diameter [in]	Start MD[ft]	Start TVD[ft]	Start North[ft]	Start East[ft]	End MD[ft]	End TVD[ft]	End North[ft]	End East[ft]
13.500	0.00	0.00	0.00	0.00	1569.00	1568.81	1.07	-19.42
8.500	1569.00	1568.81	1.07	-19.42	16909.00	6855.92	223.97	-10390.01

Casings

Name	Top MD[ft]	Top TVD[ft]	Top North[ft]	Top East[ft]	Shoe MD[ft]	Shoe TVD[ft]	Shoe North[ft]	Shoe East[ft]
9 5/8in Casing	0.00	0.00	0.00	0.00	1569.00	1568.81	1.07	-19.42
5 1/2in Casing	0.00	0.00	0.00	0.00	16909.00	6855.92	223.97	-10390.01

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
278132	As Drilled - 20170621	16909.00	6855.92	MWD	

Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Actual Datum #1 4755.1ft above Mean Sea Level )  
Vertical Section is from 0.00 0.00 on azimuth 271.230 degrees  
Bottom hole distance is 10392.42 Feet on azimuth 271.23 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Great Western Operating Co.  
Date Printed: