

# BAYSWATER E & P, LLC

Location	Weld County, CO	Slot	Leffler G-26-28HN
Field	WATTENBERG	Well	W Leffler G-26-28HN
Installation	Leffler Pad	Wellbore	W Leffler G-26-28HN (PWB)

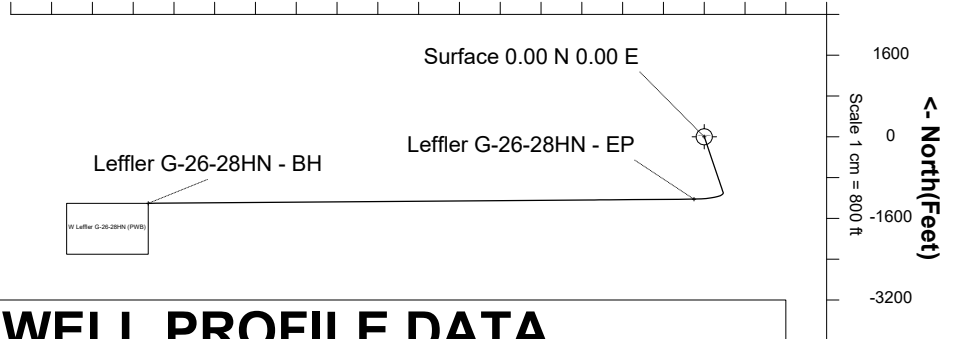
**N**

TRUE

Scale 1 cm = 800 ft

**East (Feet) ->**

-12800 -11200 -9600 -8000 -6400 -4800 -3200 -1600 0 1600



## WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	25.00	0.00	0.00	25.00	S 0.00	W 0.00		-0.00
KOP	1025.00	0.00	161.25	1025.00	S 0.00	W 0.00	0.00	-0.00
End of Build	1634.56	12.19	161.25	1629.97	S 61.18	E 20.77	2.00	-13.35
End of Hold	6804.85	12.19	161.25	6683.66	S 1095.06	E 371.75	0.00	-239.04
Target Leffle...N - EP	7746.78	90.40	269.56	7282.00	S 1223.03	W 202.87	10.00	346.71
T.D. & Target Lef... BH	18448.42	90.40	269.56	7208.00	S 1304.41	W 10903.94	0.00	10981.69

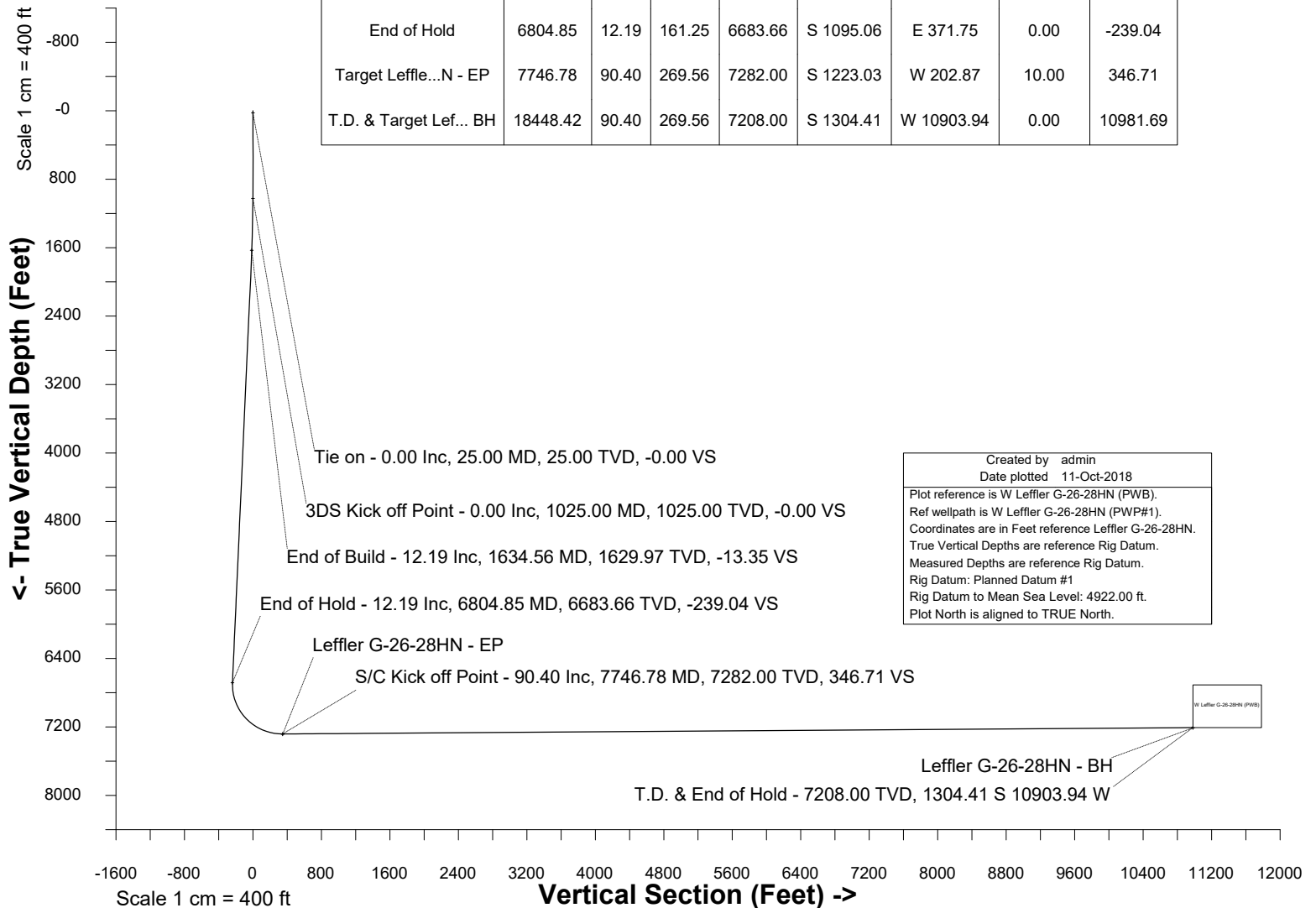
Jul-30-2018

EMM-2015 [2000.0-2020.0] Dip: 66.99 deg Field: 52394.0 nT

Lat: N40 33 10.0548 Long: W104 45 12.7260 Elev: 0.00 ft

Magnetic North is 8.06 deg East of TRUE North

To correct azimuth from Magnetic to TRUE add 8.06 deg



Created by admin  
Date plotted 11-Oct-2018  
Plot reference is W Leffler G-26-28HN (PWB).  
Ref wellpath is W Leffler G-26-28HN (PWP#1).  
Coordinates are in Feet reference Leffler G-26-28HN.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Planned Datum #1  
Rig Datum to Mean Sea Level: 4922.00 ft.  
Plot North is aligned to TRUE North.

**Azimuth 263.18 with reference 0.00 N, 0.00 E from Leffler G-26-28HN**



SYSDRILL  
Well Design Combined Report  
Wellbore: W Leffler G-26-28HN (PWB)



Wellhead Details							
Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Leffler G-26-28HN	40.55265600	-104.75353300	1445046.5635	3207428.1878	49.91S	0.56E	0.00

Declination		
Date	Source	Time
Jul-30-2018	EMM-2015 [2000.0-2020.0]	11:39

Installation Details						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Leffler Pad	40.55279300	-104.75353500	1445096.4676	3207427.2119	CO83-NF on NORTH AMERICAN DATUM 1983 datum	True

Summary Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
25.00	0.00	0.000	25.00	0.00N	0.00E		0.00	1445046.56	3207428.19
1025.00	0.00	161.250	1025.00	0.00N	0.00E	==>	0.00	1445046.56	3207428.19
1634.56	12.19	161.250	1629.97	61.18S	20.77E	2.00	-13.35	1444985.57	3207449.47
6804.85	12.19	161.250	6683.66	1095.06S	371.75E	==>	-239.04	1443954.71	3207809.13
7746.78	90.40	269.560	7282.00	1223.03S	202.87W	10.00	346.71	1443821.91	3207235.63
18448.42	90.40	269.560	7208.00	1304.41S	10903.94W	==>	10981.69	1443650.46	3196535.95

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	Rig Datum
25.00	0.00	0.000	25.00	0.00N	0.00E	==>	0.00	Slot Datum
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	
1100.00	1.50	161.250	1099.99	0.93S	0.32E	2.00	-0.20	
1200.00	3.50	161.250	1199.89	5.06S	1.72E	2.00	-1.10	
1300.00	5.50	161.250	1299.58	12.49S	4.24E	2.00	-2.73	
1400.00	7.50	161.250	1398.93	23.21S	7.88E	2.00	-5.07	
1500.00	9.50	161.250	1497.83	37.20S	12.63E	2.00	-8.12	
1600.00	11.50	161.250	1596.15	54.46S	18.49E	2.00	-11.89	
1700.00	12.19	161.250	1693.94	74.26S	25.21E	==>	-16.21	
1800.00	12.19	161.250	1791.68	94.26S	32.00E	==>	-20.58	
1900.00	12.19	161.250	1889.42	114.26S	38.79E	==>	-24.94	
2000.00	12.19	161.250	1987.17	134.25S	45.58E	==>	-29.31	
2100.00	12.19	161.250	2084.91	154.25S	52.36E	==>	-33.67	
2200.00	12.19	161.250	2182.66	174.25S	59.15E	==>	-38.04	
2300.00	12.19	161.250	2280.40	194.24S	65.94E	==>	-42.40	
2400.00	12.19	161.250	2378.15	214.24S	72.73E	==>	-46.77	
2500.00	12.19	161.250	2475.89	234.24S	79.52E	==>	-51.13	
2600.00	12.19	161.250	2573.64	254.23S	86.31E	==>	-55.50	
2700.00	12.19	161.250	2671.38	274.23S	93.09E	==>	-59.86	
2800.00	12.19	161.250	2769.13	294.23S	99.88E	==>	-64.23	
2900.00	12.19	161.250	2866.87	314.22S	106.67E	==>	-68.59	
3000.00	12.19	161.250	2964.62	334.22S	113.46E	==>	-72.96	
3100.00	12.19	161.250	3062.36	354.21S	120.25E	==>	-77.32	

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig ( Planned Datum #1 4922.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 263.180 degrees  
Bottom hole distance is 10981.69 Feet on azimuth 263.18 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 11-Oct-2018



SYSDRILL  
Well Design Combined Report  
Wellbore: W Leffler G-26-28HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
3200.00	12.19	161.250	3160.11	374.21S	127.04E	==>	-81.69	
3300.00	12.19	161.250	3257.85	394.21S	133.82E	==>	-86.05	
3400.00	12.19	161.250	3355.60	414.20S	140.61E	==>	-90.42	
3500.00	12.19	161.250	3453.34	434.20S	147.40E	==>	-94.78	
3600.00	12.19	161.250	3551.09	454.20S	154.19E	==>	-99.15	
3700.00	12.19	161.250	3648.83	474.19S	160.98E	==>	-103.51	
3800.00	12.19	161.250	3746.58	494.19S	167.77E	==>	-107.88	
3900.00	12.19	161.250	3844.32	514.19S	174.55E	==>	-112.24	
4000.00	12.19	161.250	3942.07	534.18S	181.34E	==>	-116.61	
4100.00	12.19	161.250	4039.81	554.18S	188.13E	==>	-120.97	
4200.00	12.19	161.250	4137.56	574.18S	194.92E	==>	-125.34	
4300.00	12.19	161.250	4235.30	594.17S	201.71E	==>	-129.70	
4400.00	12.19	161.250	4333.05	614.17S	208.50E	==>	-134.07	
4500.00	12.19	161.250	4430.79	634.17S	215.29E	==>	-138.43	
4600.00	12.19	161.250	4528.54	654.16S	222.07E	==>	-142.80	
4700.00	12.19	161.250	4626.28	674.16S	228.86E	==>	-147.16	
4800.00	12.19	161.250	4724.03	694.16S	235.65E	==>	-151.53	
4900.00	12.19	161.250	4821.77	714.15S	242.44E	==>	-155.90	
5000.00	12.19	161.250	4919.51	734.15S	249.23E	==>	-160.26	
5100.00	12.19	161.250	5017.26	754.15S	256.02E	==>	-164.63	
5200.00	12.19	161.250	5115.00	774.14S	262.80E	==>	-168.99	
5300.00	12.19	161.250	5212.75	794.14S	269.59E	==>	-173.36	
5400.00	12.19	161.250	5310.49	814.14S	276.38E	==>	-177.72	
5500.00	12.19	161.250	5408.24	834.13S	283.17E	==>	-182.09	
5600.00	12.19	161.250	5505.98	854.13S	289.96E	==>	-186.45	
5700.00	12.19	161.250	5603.73	874.13S	296.75E	==>	-190.82	
5800.00	12.19	161.250	5701.47	894.12S	303.53E	==>	-195.18	
5900.00	12.19	161.250	5799.22	914.12S	310.32E	==>	-199.55	
6000.00	12.19	161.250	5896.96	934.12S	317.11E	==>	-203.91	
6100.00	12.19	161.250	5994.71	954.11S	323.90E	==>	-208.28	
6200.00	12.19	161.250	6092.45	974.11S	330.69E	==>	-212.64	
6300.00	12.19	161.250	6190.20	994.11S	337.48E	==>	-217.01	
6400.00	12.19	161.250	6287.94	1014.10S	344.26E	==>	-221.37	
6500.00	12.19	161.250	6385.69	1034.10S	351.05E	==>	-225.74	
6600.00	12.19	161.250	6483.43	1054.10S	357.84E	==>	-230.10	
6700.00	12.19	161.250	6581.18	1074.09S	364.63E	==>	-234.47	
6800.00	12.19	161.250	6678.92	1094.09S	371.42E	==>	-238.83	
6900.00	12.92	206.000	6776.75	1114.17S	370.31E	10.00	-235.35	
7000.00	19.45	233.960	6872.88	1134.07S	351.90E	10.00	-214.71	
7100.00	28.06	246.840	6964.38	1153.16S	316.73E	10.00	-177.51	
7200.00	37.32	253.870	7048.48	1170.88S	265.86E	10.00	-124.90	
7300.00	46.86	258.390	7122.62	1186.68S	200.84E	10.00	-58.46	
7400.00	56.52	261.680	7184.55	1200.08S	123.64E	10.00	19.78	
7500.00	66.25	264.300	7232.39	1210.69S	36.61E	10.00	107.45	
7600.00	76.02	266.560	7264.69	1218.16S	57.60W	10.00	201.88	
7700.00	85.81	268.620	7280.45	1222.29S	156.13W	10.00	300.21	
7800.00	90.40	269.560	7281.63	1223.43S	256.09W	==>	399.59	
7900.00	90.40	269.560	7280.94	1224.19S	356.08W	==>	498.97	
8000.00	90.40	269.560	7280.25	1224.95S	456.07W	==>	598.35	
8100.00	90.40	269.560	7279.56	1225.71S	556.07W	==>	697.72	
8200.00	90.40	269.560	7278.87	1226.47S	656.06W	==>	797.10	
8300.00	90.40	269.560	7278.17	1227.23S	756.06W	==>	896.48	
8400.00	90.40	269.560	7277.48	1227.99S	856.05W	==>	995.85	
8500.00	90.40	269.560	7276.79	1228.75S	956.05W	==>	1095.23	
8600.00	90.40	269.560	7276.10	1229.52S	1056.04W	==>	1194.61	
8700.00	90.40	269.560	7275.41	1230.28S	1156.04W	==>	1293.99	
8800.00	90.40	269.560	7274.72	1231.04S	1256.03W	==>	1393.36	
8900.00	90.40	269.560	7274.03	1231.80S	1356.03W	==>	1492.74	
9000.00	90.40	269.560	7273.33	1232.56S	1456.02W	==>	1592.12	

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Coordinates are from Slot MD's are from Rig ( Planned Datum #1 4922.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 263.180 degrees  
Bottom hole distance is 10981.69 Feet on azimuth 263.18 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 11-Oct-2018



SYS DRILL  
Well Design Combined Report  
Wellbore: W Leffler G-26-28HN (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
9100.00	90.40	269.560	7272.64	1233.32S	1556.02W	==>	1691.49	
9200.00	90.40	269.560	7271.95	1234.08S	1656.01W	==>	1790.87	
9300.00	90.40	269.560	7271.26	1234.84S	1756.01W	==>	1890.25	
9400.00	90.40	269.560	7270.57	1235.60S	1856.00W	==>	1989.63	
9500.00	90.40	269.560	7269.88	1236.36S	1956.00W	==>	2089.00	
9600.00	90.40	269.560	7269.19	1237.12S	2055.99W	==>	2188.38	
9700.00	90.40	269.560	7268.49	1237.88S	2155.99W	==>	2287.76	
9800.00	90.40	269.560	7267.80	1238.64S	2255.98W	==>	2387.13	
9900.00	90.40	269.560	7267.11	1239.40S	2355.97W	==>	2486.51	
10000.00	90.40	269.560	7266.42	1240.16S	2455.97W	==>	2585.89	
10100.00	90.40	269.560	7265.73	1240.92S	2555.96W	==>	2685.27	
10200.00	90.40	269.560	7265.04	1241.68S	2655.96W	==>	2784.64	
10300.00	90.40	269.560	7264.34	1242.44S	2755.95W	==>	2884.02	
10400.00	90.40	269.560	7263.65	1243.20S	2855.95W	==>	2983.40	
10500.00	90.40	269.560	7262.96	1243.96S	2955.94W	==>	3082.77	
10600.00	90.40	269.560	7262.27	1244.72S	3055.94W	==>	3182.15	
10700.00	90.40	269.560	7261.58	1245.48S	3155.93W	==>	3281.53	
10800.00	90.40	269.560	7260.89	1246.25S	3255.93W	==>	3380.91	
10900.00	90.40	269.560	7260.20	1247.01S	3355.92W	==>	3480.28	
11000.00	90.40	269.560	7259.50	1247.77S	3455.92W	==>	3579.66	
11100.00	90.40	269.560	7258.81	1248.53S	3555.91W	==>	3679.04	
11200.00	90.40	269.560	7258.12	1249.29S	3655.91W	==>	3778.41	
11300.00	90.40	269.560	7257.43	1250.05S	3755.90W	==>	3877.79	
11400.00	90.40	269.560	7256.74	1250.81S	3855.90W	==>	3977.17	
11500.00	90.40	269.560	7256.05	1251.57S	3955.89W	==>	4076.55	
11600.00	90.40	269.560	7255.36	1252.33S	4055.88W	==>	4175.92	
11700.00	90.40	269.560	7254.66	1253.09S	4155.88W	==>	4275.30	
11800.00	90.40	269.560	7253.97	1253.85S	4255.87W	==>	4374.68	
11900.00	90.40	269.560	7253.28	1254.61S	4355.87W	==>	4474.05	
12000.00	90.40	269.560	7252.59	1255.37S	4455.86W	==>	4573.43	
12100.00	90.40	269.560	7251.90	1256.13S	4555.86W	==>	4672.81	
12200.00	90.40	269.560	7251.21	1256.89S	4655.85W	==>	4772.19	
12300.00	90.40	269.560	7250.52	1257.65S	4755.85W	==>	4871.56	
12400.00	90.40	269.560	7249.82	1258.41S	4855.84W	==>	4970.94	
12500.00	90.40	269.560	7249.13	1259.17S	4955.84W	==>	5070.32	
12600.00	90.40	269.560	7248.44	1259.93S	5055.83W	==>	5169.69	
12700.00	90.40	269.560	7247.75	1260.69S	5155.83W	==>	5269.07	
12800.00	90.40	269.560	7247.06	1261.45S	5255.82W	==>	5368.45	
12900.00	90.40	269.560	7246.37	1262.22S	5355.82W	==>	5467.83	
13000.00	90.40	269.560	7245.67	1262.98S	5455.81W	==>	5567.20	
13100.00	90.40	269.560	7244.98	1263.74S	5555.81W	==>	5666.58	
13200.00	90.40	269.560	7244.29	1264.50S	5655.80W	==>	5765.96	
13300.00	90.40	269.560	7243.60	1265.26S	5755.79W	==>	5865.33	
13400.00	90.40	269.560	7242.91	1266.02S	5855.79W	==>	5964.71	
13500.00	90.40	269.560	7242.22	1266.78S	5955.78W	==>	6064.09	
13600.00	90.40	269.560	7241.53	1267.54S	6055.78W	==>	6163.47	
13700.00	90.40	269.560	7240.83	1268.30S	6155.77W	==>	6262.84	
13800.00	90.40	269.560	7240.14	1269.06S	6255.77W	==>	6362.22	
13900.00	90.40	269.560	7239.45	1269.82S	6355.76W	==>	6461.60	
14000.00	90.40	269.560	7238.76	1270.58S	6455.76W	==>	6560.97	
14100.00	90.40	269.560	7238.07	1271.34S	6555.75W	==>	6660.35	
14200.00	90.40	269.560	7237.38	1272.10S	6655.75W	==>	6759.73	
14300.00	90.40	269.560	7236.69	1272.86S	6755.74W	==>	6859.11	
14400.00	90.40	269.560	7235.99	1273.62S	6855.74W	==>	6958.48	
14500.00	90.40	269.560	7235.30	1274.38S	6955.73W	==>	7057.86	
14600.00	90.40	269.560	7234.61	1275.14S	7055.73W	==>	7157.24	
14700.00	90.40	269.560	7233.92	1275.90S	7155.72W	==>	7256.61	
14800.00	90.40	269.560	7233.23	1276.66S	7255.72W	==>	7355.99	
14900.00	90.40	269.560	7232.54	1277.42S	7355.71W	==>	7455.37	

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Well Design Combined Report  
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Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
15000.00	90.40	269.560	7231.85	1278.19S	7455.71W	==>	7554.75	
15100.00	90.40	269.560	7231.15	1278.95S	7555.70W	==>	7654.12	
15200.00	90.40	269.560	7230.46	1279.71S	7655.69W	==>	7753.50	
15300.00	90.40	269.560	7229.77	1280.47S	7755.69W	==>	7852.88	
15400.00	90.40	269.560	7229.08	1281.23S	7855.68W	==>	7952.25	
15500.00	90.40	269.560	7228.39	1281.99S	7955.68W	==>	8051.63	
15600.00	90.40	269.560	7227.70	1282.75S	8055.67W	==>	8151.01	
15700.00	90.40	269.560	7227.00	1283.51S	8155.67W	==>	8250.39	
15800.00	90.40	269.560	7226.31	1284.27S	8255.66W	==>	8349.76	
15900.00	90.40	269.560	7225.62	1285.03S	8355.66W	==>	8449.14	
16000.00	90.40	269.560	7224.93	1285.79S	8455.65W	==>	8548.52	
16100.00	90.40	269.560	7224.24	1286.55S	8555.65W	==>	8647.89	
16200.00	90.40	269.560	7223.55	1287.31S	8655.64W	==>	8747.27	
16300.00	90.40	269.560	7222.86	1288.07S	8755.64W	==>	8846.65	
16400.00	90.40	269.560	7222.16	1288.83S	8855.63W	==>	8946.03	
16500.00	90.40	269.560	7221.47	1289.59S	8955.63W	==>	9045.40	
16600.00	90.40	269.560	7220.78	1290.35S	9055.62W	==>	9144.78	
16700.00	90.40	269.560	7220.09	1291.11S	9155.62W	==>	9244.16	
16800.00	90.40	269.560	7219.40	1291.87S	9255.61W	==>	9343.53	
16900.00	90.40	269.560	7218.71	1292.63S	9355.60W	==>	9442.91	
17000.00	90.40	269.560	7218.02	1293.39S	9455.60W	==>	9542.29	
17100.00	90.40	269.560	7217.32	1294.15S	9555.59W	==>	9641.67	
17200.00	90.40	269.560	7216.63	1294.92S	9655.59W	==>	9741.04	
17300.00	90.40	269.560	7215.94	1295.68S	9755.58W	==>	9840.42	
17400.00	90.40	269.560	7215.25	1296.44S	9855.58W	==>	9939.80	
17500.00	90.40	269.560	7214.56	1297.20S	9955.57W	==>	10039.17	
17600.00	90.40	269.560	7213.87	1297.96S	10055.57W	==>	10138.55	
17700.00	90.40	269.560	7213.18	1298.72S	10155.56W	==>	10237.93	
17800.00	90.40	269.560	7212.48	1299.48S	10255.56W	==>	10337.31	
17900.00	90.40	269.560	7211.79	1300.24S	10355.55W	==>	10436.68	
18000.00	90.40	269.560	7211.10	1301.00S	10455.55W	==>	10536.06	
18100.00	90.40	269.560	7210.41	1301.76S	10555.54W	==>	10635.44	
18200.00	90.40	269.560	7209.72	1302.52S	10655.54W	==>	10734.81	
18300.00	90.40	269.560	7209.03	1303.28S	10755.53W	==>	10834.19	
18400.00	90.40	269.560	7208.33	1304.04S	10855.53W	==>	10933.57	
18448.42	90.40	269.560	7208.00	1304.41S	10903.94W	==>	10981.69	

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 4922.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 263.180 degrees  
Bottom hole distance is 10981.69 Feet on azimuth 263.18 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 11-Oct-2018



SYSDRILL  
Well Design Combined Report  
Wellbore: W Leffler G-26-28HN (PWB)



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
Leffler G-26-28HN - BH	1304.41S	10903.94W	7208.00	40.54906900	-104.79276900	1443650.46	3196535.95
Leffler G-26-28HN - EP	1223.03S	202.87W	7282.00	40.54929900	-104.75426300	1443821.91	3207235.63

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
676431	Planned	1500.00	1497.83	WdW Rate Gyro	Standard
676430	Planned	18448.42	7208.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes



SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: W Leffler G-26-28HN (PWB)



Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Scan limit is calculated on CENTRE to CENTRE distance
Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
W Leffler G-26-28HN (PWB)	Jul-30-2018	Aug-6-2018

Well		
Name	Government ID	Last Revised
W Leffler G-26-28HN		Jul-30-2018

Slot						
Name	Latitude	Longitude	Grid Northing	Grid Easting	North	East
Leffler G-26-28HN	40.55265600	-104.75353300	1445046.5635	3207428.1878	49.91S	0.56E

Installation						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Easting	Northing	Coord System Name	North Alignment
Leffler Pad	40.55279300	-104.75353500	3207427.2119	1445096.4676	CO83-NF on NORTH AMERICAN DATUM 1983 datum	True

Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
W Leffler 27C	152.27	9031.55	9031.55	75.63	9030.91	1.99	9030.91
W Thornton 21K-443	190.31	17426.33	17426.33	85.36	17364.24	1.72	17331.43
W Leffler 41-27	702.48	1381.38	8306.15	700.23	1566.99	16.57	8555.18
W Leffler 32-27	722.98	9972.22	9972.22	611.97	10000.00	6.36	10113.58
W Leffler 42-27	778.92	8321.82	8321.82	724.85	8358.33	12.93	8637.20
W Leffler 1-27	817.89	9694.27	9694.27	717.45	9703.48	8.08	9769.09
W Leffler 31-27	929.57	9975.40	9975.40	819.25	9998.75	8.35	10080.77

