

BAYSWATER E & P, LLC

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

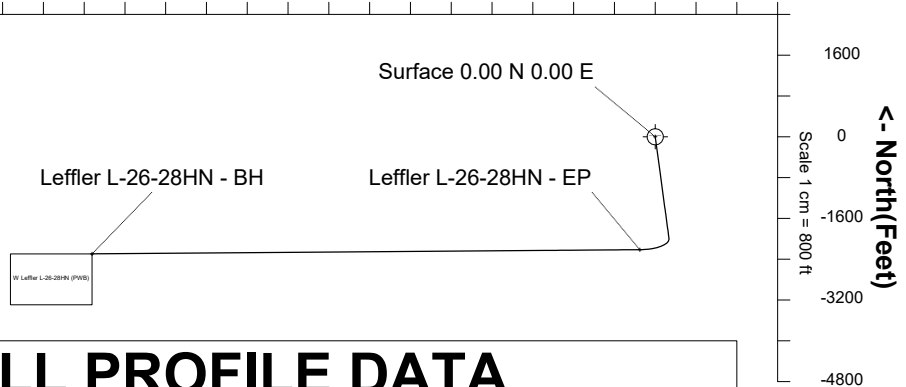
N

TRUE

Scale 1 cm = 800 ft

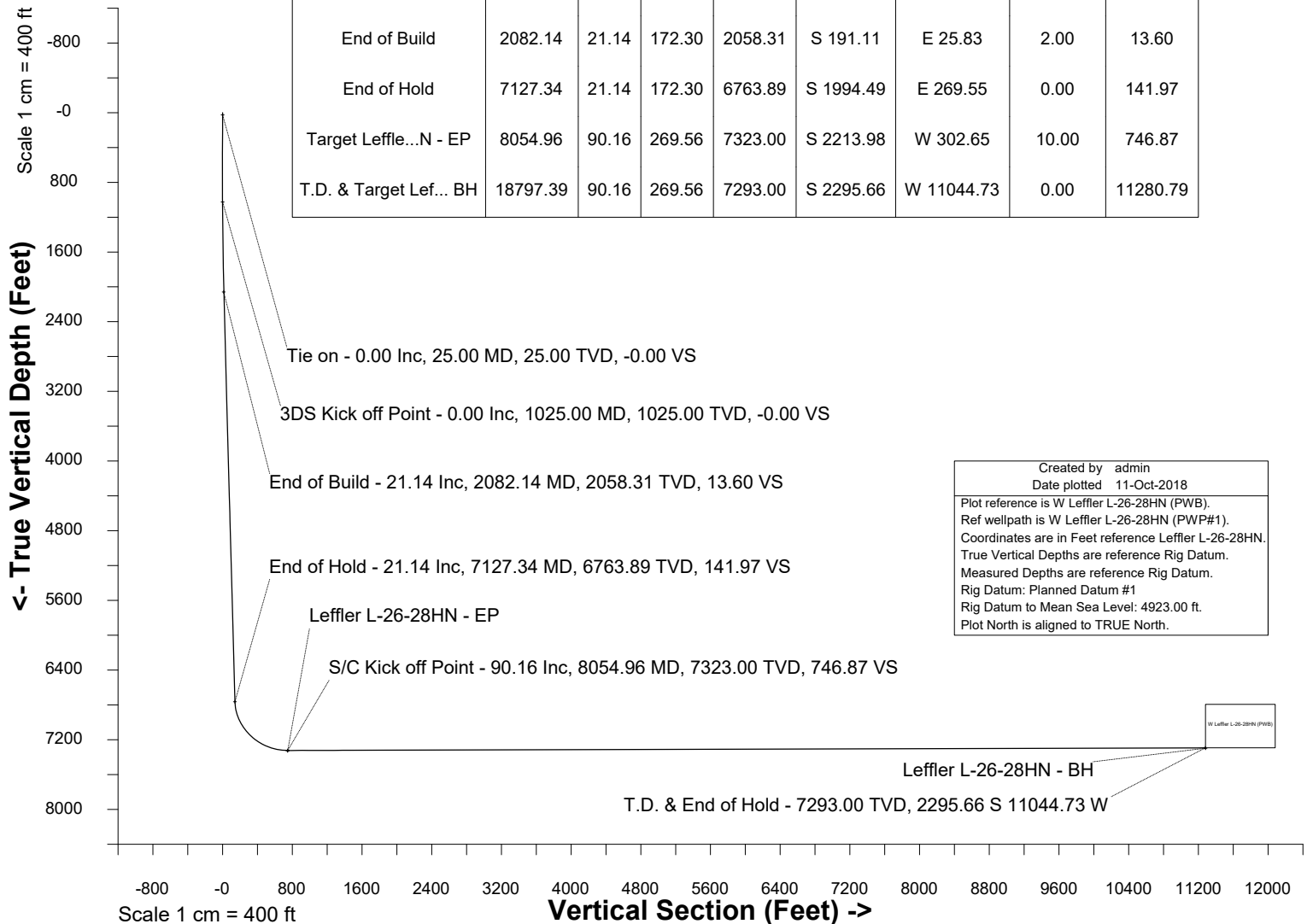
East (Feet) ->

-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	172.30	1025.00	S 0.00	W 0.00	0.00	-0.00
End of Build	2082.14	21.14	172.30	2058.31	S 191.11	E 25.83	2.00	13.60
End of Hold	7127.34	21.14	172.30	6763.89	S 1994.49	E 269.55	0.00	141.97
Target Leffle...N - EP	8054.96	90.16	269.56	7323.00	S 2213.98	W 302.65	10.00	746.87
T.D. & Target Lef... BH	18797.39	90.16	269.56	7293.00	S 2295.66	W 11044.73	0.00	11280.79



Azimuth 258.26 with reference 0.00 N, 0.00 E from Leffler L-26-28HN

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 L-26-28HN (PWB).
Ref wellpath is W Leffler L-26-28HN (PWP#1).
Coordinates are in Feet reference Leffler L-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: 4923.00 ft.
Plot North is aligned to TRUE North.



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



Wellhead Details							
Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Leffler L-26-28HN	40.55266000	-104.75315500	1445048.9052	3207533.2117	48.45S	105.60E	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	1445048.91	3207533.21
1025.00	0.00	172.300	1025.00	0.00N	0.00E	==>	0.00	1445048.91	3207533.21
2082.14	21.14	172.300	2058.31	191.11S	25.83E	2.00	13.60	1444858.03	3207560.65
7127.34	21.14	172.300	6763.89	1994.49S	269.55E	==>	141.97	1443056.82	3207819.54
8054.96	90.16	269.560	7323.00	2213.98S	302.65W	10.00	746.87	1442832.52	3207249.23
18797.39	90.16	269.560	7293.00	2295.66S	11044.73W	==>	11280.79	1442660.38	3196508.55

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	172.300	1099.99	0.97S	0.13E	2.00	0.07	
1200.00	3.50	172.300	1199.89	5.30S	0.72E	2.00	0.38	
1300.00	5.50	172.300	1299.58	13.07S	1.77E	2.00	0.93	
1400.00	7.50	172.300	1398.93	24.29S	3.28E	2.00	1.73	
1500.00	9.50	172.300	1497.83	38.93S	5.26E	2.00	2.77	
1600.00	11.50	172.300	1596.15	56.99S	7.70E	2.00	4.06	
1700.00	13.50	172.300	1693.77	78.44S	10.60E	2.00	5.58	
1800.00	15.50	172.300	1790.58	103.25S	13.95E	2.00	7.35	
1900.00	17.50	172.300	1886.46	131.40S	17.76E	2.00	9.35	
2000.00	19.50	172.300	1981.29	162.84S	22.01E	2.00	11.59	
2100.00	21.14	172.300	2074.97	197.49S	26.69E	==>	14.06	
2200.00	21.14	172.300	2168.24	233.24S	31.52E	==>	16.60	
2300.00	21.14	172.300	2261.51	268.98S	36.35E	==>	19.15	
2400.00	21.14	172.300	2354.77	304.73S	41.18E	==>	21.69	
2500.00	21.14	172.300	2448.04	340.47S	46.01E	==>	24.24	
2600.00	21.14	172.300	2541.31	376.21S	50.84E	==>	26.78	
2700.00	21.14	172.300	2634.58	411.96S	55.68E	==>	29.32	
2800.00	21.14	172.300	2727.85	447.70S	60.51E	==>	31.87	
2900.00	21.14	172.300	2821.12	483.45S	65.34E	==>	34.41	
3000.00	21.14	172.300	2914.38	519.19S	70.17E	==>	36.96	
3100.00	21.14	172.300	3007.65	554.94S	75.00E	==>	39.50	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4923.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 258.260 degrees
Bottom hole distance is 11280.79 Feet on azimuth 258.26 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 L-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	21.14	172.300	3100.92	590.68S	79.83E	==>	42.05	
3300.00	21.14	172.300	3194.19	626.43S	84.66E	==>	44.59	
3400.00	21.14	172.300	3287.46	662.17S	89.49E	==>	47.13	
3500.00	21.14	172.300	3380.73	697.91S	94.32E	==>	49.68	
3600.00	21.14	172.300	3473.99	733.66S	99.15E	==>	52.22	
3700.00	21.14	172.300	3567.26	769.40S	103.98E	==>	54.77	
3800.00	21.14	172.300	3660.53	805.15S	108.81E	==>	57.31	
3900.00	21.14	172.300	3753.80	840.89S	113.65E	==>	59.86	
4000.00	21.14	172.300	3847.07	876.64S	118.48E	==>	62.40	
4100.00	21.14	172.300	3940.34	912.38S	123.31E	==>	64.94	
4200.00	21.14	172.300	4033.61	948.13S	128.14E	==>	67.49	
4300.00	21.14	172.300	4126.87	983.87S	132.97E	==>	70.03	
4400.00	21.14	172.300	4220.14	1019.61S	137.80E	==>	72.58	
4500.00	21.14	172.300	4313.41	1055.36S	142.63E	==>	75.12	
4600.00	21.14	172.300	4406.68	1091.10S	147.46E	==>	77.67	
4700.00	21.14	172.300	4499.95	1126.85S	152.29E	==>	80.21	
4800.00	21.14	172.300	4593.22	1162.59S	157.12E	==>	82.76	
4900.00	21.14	172.300	4686.48	1198.34S	161.95E	==>	85.30	
5000.00	21.14	172.300	4779.75	1234.08S	166.78E	==>	87.84	
5100.00	21.14	172.300	4873.02	1269.83S	171.62E	==>	90.39	
5200.00	21.14	172.300	4966.29	1305.57S	176.45E	==>	92.93	
5300.00	21.14	172.300	5059.56	1341.32S	181.28E	==>	95.48	
5400.00	21.14	172.300	5152.83	1377.06S	186.11E	==>	98.02	
5500.00	21.14	172.300	5246.09	1412.80S	190.94E	==>	100.57	
5600.00	21.14	172.300	5339.36	1448.55S	195.77E	==>	103.11	
5700.00	21.14	172.300	5432.63	1484.29S	200.60E	==>	105.65	
5800.00	21.14	172.300	5525.90	1520.04S	205.43E	==>	108.20	
5900.00	21.14	172.300	5619.17	1555.78S	210.26E	==>	110.74	
6000.00	21.14	172.300	5712.44	1591.53S	215.09E	==>	113.29	
6100.00	21.14	172.300	5805.70	1627.27S	219.92E	==>	115.83	
6200.00	21.14	172.300	5898.97	1663.02S	224.75E	==>	118.38	
6300.00	21.14	172.300	5992.24	1698.76S	229.58E	==>	120.92	
6400.00	21.14	172.300	6085.51	1734.50S	234.42E	==>	123.47	
6500.00	21.14	172.300	6178.78	1770.25S	239.25E	==>	126.01	
6600.00	21.14	172.300	6272.05	1805.99S	244.08E	==>	128.55	
6700.00	21.14	172.300	6365.32	1841.74S	248.91E	==>	131.10	
6800.00	21.14	172.300	6458.58	1877.48S	253.74E	==>	133.64	
6900.00	21.14	172.300	6551.85	1913.23S	258.57E	==>	136.19	
7000.00	21.14	172.300	6645.12	1948.97S	263.40E	==>	138.73	
7100.00	21.14	172.300	6738.39	1984.72S	268.23E	==>	141.28	
7200.00	21.48	192.360	6831.67	2020.51S	268.46E	10.00	148.34	
7300.00	25.42	215.670	6923.59	2055.92S	251.98E	10.00	171.68	
7400.00	31.96	231.560	7011.39	2089.89S	218.64E	10.00	211.23	
7500.00	39.84	242.130	7092.41	2121.41S	169.47E	10.00	265.79	
7600.00	48.40	249.590	7164.17	2149.49S	105.95E	10.00	333.69	
7700.00	57.33	255.260	7224.52	2173.31S	30.01E	10.00	412.89	
7800.00	66.46	259.880	7271.59	2192.12S	56.04W	10.00	500.97	
7900.00	75.71	263.900	7303.98	2205.35S	149.58W	10.00	595.25	
8000.00	85.03	267.590	7320.69	2212.62S	247.78W	10.00	692.87	
8100.00	90.16	269.560	7322.87	2214.32S	347.69W	==>	791.03	
8200.00	90.16	269.560	7322.59	2215.08S	447.69W	==>	889.09	
8300.00	90.16	269.560	7322.32	2215.84S	547.68W	==>	987.15	
8400.00	90.16	269.560	7322.04	2216.60S	647.68W	==>	1085.21	
8500.00	90.16	269.560	7321.76	2217.36S	747.68W	==>	1183.27	
8600.00	90.16	269.560	7321.48	2218.12S	847.67W	==>	1281.33	
8700.00	90.16	269.560	7321.20	2218.88S	947.67W	==>	1379.39	
8800.00	90.16	269.560	7320.92	2219.64S	1047.67W	==>	1477.45	
8900.00	90.16	269.560	7320.64	2220.41S	1147.66W	==>	1575.51	
9000.00	90.16	269.560	7320.36	2221.17S	1247.66W	==>	1673.57	

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Coordinates are from Slot MD's are from Rig (Planned Datum #1 4923.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 258.260 degrees
Bottom hole distance is 11280.79 Feet on azimuth 258.26 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 L-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	90.16	269.560	7320.08	2221.93S	1347.66W	==>	1771.62	
9200.00	90.16	269.560	7319.80	2222.69S	1447.65W	==>	1869.68	
9300.00	90.16	269.560	7319.52	2223.45S	1547.65W	==>	1967.74	
9400.00	90.16	269.560	7319.24	2224.21S	1647.65W	==>	2065.80	
9500.00	90.16	269.560	7318.96	2224.97S	1747.64W	==>	2163.86	
9600.00	90.16	269.560	7318.69	2225.73S	1847.64W	==>	2261.92	
9700.00	90.16	269.560	7318.41	2226.49S	1947.64W	==>	2359.98	
9800.00	90.16	269.560	7318.13	2227.25S	2047.63W	==>	2458.04	
9900.00	90.16	269.560	7317.85	2228.01S	2147.63W	==>	2556.10	
10000.00	90.16	269.560	7317.57	2228.77S	2247.63W	==>	2654.15	
10100.00	90.16	269.560	7317.29	2229.53S	2347.62W	==>	2752.21	
10200.00	90.16	269.560	7317.01	2230.29S	2447.62W	==>	2850.27	
10300.00	90.16	269.560	7316.73	2231.05S	2547.62W	==>	2948.33	
10400.00	90.16	269.560	7316.45	2231.81S	2647.61W	==>	3046.39	
10500.00	90.16	269.560	7316.17	2232.57S	2747.61W	==>	3144.45	
10600.00	90.16	269.560	7315.89	2233.33S	2847.61W	==>	3242.51	
10700.00	90.16	269.560	7315.61	2234.09S	2947.61W	==>	3340.57	
10800.00	90.16	269.560	7315.33	2234.85S	3047.60W	==>	3438.63	
10900.00	90.16	269.560	7315.05	2235.61S	3147.60W	==>	3536.69	
11000.00	90.16	269.560	7314.78	2236.37S	3247.60W	==>	3634.74	
11100.00	90.16	269.560	7314.50	2237.13S	3347.59W	==>	3732.80	
11200.00	90.16	269.560	7314.22	2237.89S	3447.59W	==>	3830.86	
11300.00	90.16	269.560	7313.94	2238.65S	3547.59W	==>	3928.92	
11400.00	90.16	269.560	7313.66	2239.42S	3647.58W	==>	4026.98	
11500.00	90.16	269.560	7313.38	2240.18S	3747.58W	==>	4125.04	
11600.00	90.16	269.560	7313.10	2240.94S	3847.58W	==>	4223.10	
11700.00	90.16	269.560	7312.82	2241.70S	3947.57W	==>	4321.16	
11800.00	90.16	269.560	7312.54	2242.46S	4047.57W	==>	4419.22	
11900.00	90.16	269.560	7312.26	2243.22S	4147.57W	==>	4517.28	
12000.00	90.16	269.560	7311.98	2243.98S	4247.56W	==>	4615.33	
12100.00	90.16	269.560	7311.70	2244.74S	4347.56W	==>	4713.39	
12200.00	90.16	269.560	7311.42	2245.50S	4447.56W	==>	4811.45	
12300.00	90.16	269.560	7311.15	2246.26S	4547.55W	==>	4909.51	
12400.00	90.16	269.560	7310.87	2247.02S	4647.55W	==>	5007.57	
12500.00	90.16	269.560	7310.59	2247.78S	4747.55W	==>	5105.63	
12600.00	90.16	269.560	7310.31	2248.54S	4847.54W	==>	5203.69	
12700.00	90.16	269.560	7310.03	2249.30S	4947.54W	==>	5301.75	
12800.00	90.16	269.560	7309.75	2250.06S	5047.54W	==>	5399.81	
12900.00	90.16	269.560	7309.47	2250.82S	5147.53W	==>	5497.87	
13000.00	90.16	269.560	7309.19	2251.58S	5247.53W	==>	5595.92	
13100.00	90.16	269.560	7308.91	2252.34S	5347.53W	==>	5693.98	
13200.00	90.16	269.560	7308.63	2253.10S	5447.52W	==>	5792.04	
13300.00	90.16	269.560	7308.35	2253.86S	5547.52W	==>	5890.10	
13400.00	90.16	269.560	7308.07	2254.62S	5647.52W	==>	5988.16	
13500.00	90.16	269.560	7307.79	2255.38S	5747.51W	==>	6086.22	
13600.00	90.16	269.560	7307.51	2256.14S	5847.51W	==>	6184.28	
13700.00	90.16	269.560	7307.24	2256.90S	5947.51W	==>	6282.34	
13800.00	90.16	269.560	7306.96	2257.66S	6047.50W	==>	6380.40	
13900.00	90.16	269.560	7306.68	2258.43S	6147.50W	==>	6478.46	
14000.00	90.16	269.560	7306.40	2259.19S	6247.50W	==>	6576.51	
14100.00	90.16	269.560	7306.12	2259.95S	6347.49W	==>	6674.57	
14200.00	90.16	269.560	7305.84	2260.71S	6447.49W	==>	6772.63	
14300.00	90.16	269.560	7305.56	2261.47S	6547.49W	==>	6870.69	
14400.00	90.16	269.560	7305.28	2262.23S	6647.48W	==>	6968.75	
14500.00	90.16	269.560	7305.00	2262.99S	6747.48W	==>	7066.81	
14600.00	90.16	269.560	7304.72	2263.75S	6847.48W	==>	7164.87	
14700.00	90.16	269.560	7304.44	2264.51S	6947.47W	==>	7262.93	
14800.00	90.16	269.560	7304.16	2265.27S	7047.47W	==>	7360.99	
14900.00	90.16	269.560	7303.88	2266.03S	7147.47W	==>	7459.04	

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Vertical Section is from 0.00N 0.00E on azimuth 258.260 degrees
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Wellbore: W Leffler L-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
15000.00	90.16	269.560	7303.60	2266.79S	7247.46W	==>	7557.10	
15100.00	90.16	269.560	7303.33	2267.55S	7347.46W	==>	7655.16	
15200.00	90.16	269.560	7303.05	2268.31S	7447.46W	==>	7753.22	
15300.00	90.16	269.560	7302.77	2269.07S	7547.45W	==>	7851.28	
15400.00	90.16	269.560	7302.49	2269.83S	7647.45W	==>	7949.34	
15500.00	90.16	269.560	7302.21	2270.59S	7747.45W	==>	8047.40	
15600.00	90.16	269.560	7301.93	2271.35S	7847.44W	==>	8145.46	
15700.00	90.16	269.560	7301.65	2272.11S	7947.44W	==>	8243.52	
15800.00	90.16	269.560	7301.37	2272.87S	8047.44W	==>	8341.58	
15900.00	90.16	269.560	7301.09	2273.63S	8147.43W	==>	8439.63	
16000.00	90.16	269.560	7300.81	2274.39S	8247.43W	==>	8537.69	
16100.00	90.16	269.560	7300.53	2275.15S	8347.43W	==>	8635.75	
16200.00	90.16	269.560	7300.25	2275.91S	8447.42W	==>	8733.81	
16300.00	90.16	269.560	7299.97	2276.67S	8547.42W	==>	8831.87	
16400.00	90.16	269.560	7299.70	2277.44S	8647.42W	==>	8929.93	
16500.00	90.16	269.560	7299.42	2278.20S	8747.41W	==>	9027.99	
16600.00	90.16	269.560	7299.14	2278.96S	8847.41W	==>	9126.05	
16700.00	90.16	269.560	7298.86	2279.72S	8947.41W	==>	9224.11	
16800.00	90.16	269.560	7298.58	2280.48S	9047.40W	==>	9322.17	
16900.00	90.16	269.560	7298.30	2281.24S	9147.40W	==>	9420.22	
17000.00	90.16	269.560	7298.02	2282.00S	9247.40W	==>	9518.28	
17100.00	90.16	269.560	7297.74	2282.76S	9347.40W	==>	9616.34	
17200.00	90.16	269.560	7297.46	2283.52S	9447.39W	==>	9714.40	
17300.00	90.16	269.560	7297.18	2284.28S	9547.39W	==>	9812.46	
17400.00	90.16	269.560	7296.90	2285.04S	9647.39W	==>	9910.52	
17500.00	90.16	269.560	7296.62	2285.80S	9747.38W	==>	10008.58	
17600.00	90.16	269.560	7296.34	2286.56S	9847.38W	==>	10106.64	
17700.00	90.16	269.560	7296.06	2287.32S	9947.38W	==>	10204.70	
17800.00	90.16	269.560	7295.79	2288.08S	10047.37W	==>	10302.76	
17900.00	90.16	269.560	7295.51	2288.84S	10147.37W	==>	10400.81	
18000.00	90.16	269.560	7295.23	2289.60S	10247.37W	==>	10498.87	
18100.00	90.16	269.560	7294.95	2290.36S	10347.36W	==>	10596.93	
18200.00	90.16	269.560	7294.67	2291.12S	10447.36W	==>	10694.99	
18300.00	90.16	269.560	7294.39	2291.88S	10547.36W	==>	10793.05	
18400.00	90.16	269.560	7294.11	2292.64S	10647.35W	==>	10891.11	
18500.00	90.16	269.560	7293.83	2293.40S	10747.35W	==>	10989.17	
18600.00	90.16	269.560	7293.55	2294.16S	10847.35W	==>	11087.23	
18700.00	90.16	269.560	7293.27	2294.92S	10947.34W	==>	11185.29	
18797.39	90.16	269.560	7293.00	2295.66S	11044.73W	==>	11280.79	

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig (Planned Datum #1 4923.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 258.260 degrees
Bottom hole distance is 11280.79 Feet on azimuth 258.26 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 L-26-28HN (PWB)



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
Leffler L-26-28HN - BH	2295.66S	11044.73W	7293.00	40.54635200	-104.79289600	1442660.38	3196508.55
Leffler L-26-28HN - EP	2213.98S	302.65W	7323.00	40.54658300	-104.75424400	1442832.52	3207249.23

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
676388	Planned	1500.00	1497.83	WdW Rate Gyro	Standard
676387	Planned	18797.39	7293.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: W Leffler L-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 L-26-28HN (PWB)	Jul-30-2018	Oct-11-2018

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

Slot						
Name	Latitude	Longitude	Grid Northing	Grid Easting	North	East
Leffler L-26-28HN	40.55266000	-104.75315500	1445048.9052	3207533.2117	48.45S	105.60E

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 42-27	209.33	8628.66	8628.66	154.41	8620.80	3.73	8571.59
W Leffler 32-27	266.94	10278.84	10278.84	155.76	10261.22	2.39	10261.22
W Thornton 21K-443	302.55	17706.04	17706.04	-106.82	17692.32	0.74	17692.32
W Leffler 41-27	786.93	1981.75	8612.02	781.31	2042.72	29.26	9572.24
W Leffler 27C	1141.78	9337.45	9337.45	1064.05	9358.99	14.42	9539.44
W Leffler 1-27	1807.41	10000.15	10000.15	1705.71	10047.97	16.97	10441.67
W Leffler 31-27	1920.23	10281.13	10281.13	1808.78	10326.84	16.48	10736.94



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

