

# BAYSWATER E & P, LLC

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

N

TRUE

Scale 1 cm = 800 ft

East (Feet) ->

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

Leffler C-26-28HN - BH

Surface 0.00 N 0.00 E

W Leffler C-26-28HN (PWB)

Leffler C-26-28HN - EP

Scale 1 cm = 800 ft  
1600  
0  
-1600  
North (Feet) South (Feet) ->

## 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	128.36	1025.00	S 0.00	W 0.00	0.00	-0.00
End of Build	1232.73	4.15	128.36	1232.54	S 4.67	E 5.90	2.00	-5.74
End of Hold	6747.99	4.15	128.36	6733.32	S 252.65	E 319.20	0.00	-310.56
Target Leffle...N - EP	7680.63	90.03	269.56	7338.00	S 284.53	W 252.88	10.00	262.27
T.D. & Target Lef... BH	18340.45	90.03	269.56	7333.00	S 365.55	W 10912.40	0.00	10918.52

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

Scale 1 cm = 400 ft  
-800  
-0  
800  
1600  
2400  
3200  
4000  
4800  
5600  
6400  
7200  
8000

<- True Vertical Depth (Feet)

Tie on - 0.00 Inc, 25.00 MD, 25.00 TVD, -0.00 VS

3DS Kick off Point - 0.00 Inc, 1025.00 MD, 1025.00 TVD, -0.00 VS

End of Build - 4.15 Inc, 1232.73 MD, 1232.54 TVD, -5.74 VS

End of Hold - 4.15 Inc, 6747.99 MD, 6733.32 TVD, -310.56 VS

Leffler C-26-28HN - EP

S/C Kick off Point - 90.03 Inc, 7680.63 MD, 7338.00 TVD, 262.27 VS

Leffler C-26-28HN - BH

T.D. & End of Hold - 7333.00 TVD, 365.55 S 10912.40 W

Created by admin

Date plotted 11-Oct-2018

Plot reference is W Leffler C-26-28HN (PWB).  
Ref wellpath is W Leffler C-26-28HN (PWP#1).  
Coordinates are in Feet reference Leffler C-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.

W Leffler C-26-28HN (PWB)

-1600 -800 0 800 1600 2400 3200 4000 4800 5600 6400 7200 8000 8800 9600 10400 11200 12000

Scale 1 cm = 400 ft

Vertical Section (Feet) ->

Azimuth 268.08 with reference 0.00 N, 0.00 E from Leffler C-26-28HN



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



### Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Leffler C-26-28HN	40.55279700	-104.75337300	1445098.3038	3207472.2150	1.46N	45.02E	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	1445098.30	3207472.22
1025.00	0.00	128.360	1025.00	0.00N	0.00E	==>	0.00	1445098.30	3207472.22
1232.73	4.15	128.360	1232.54	4.67S	5.90E	2.00	-5.74	1445093.68	3207478.16
6747.99	4.15	128.360	6733.32	252.65S	319.20E	==>	-310.56	1444848.36	3207793.52
7680.63	90.03	269.560	7338.00	284.53S	252.88W	10.00	262.27	1444811.66	3207221.74
18340.45	90.03	269.560	7333.00	365.55S	10912.40W	==>	10918.52	1444640.90	3196563.62

### 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	128.360	1099.99	0.61S	0.77E	2.00	-0.75	
1200.00	3.50	128.360	1199.89	3.32S	4.19E	2.00	-4.08	
1300.00	4.15	128.360	1299.64	7.70S	9.72E	==>	-9.46	
1400.00	4.15	128.360	1399.38	12.19S	15.40E	==>	-14.99	
1500.00	4.15	128.360	1499.12	16.69S	21.09E	==>	-20.51	
1600.00	4.15	128.360	1598.85	21.19S	26.77E	==>	-26.04	
1700.00	4.15	128.360	1698.59	25.68S	32.45E	==>	-31.57	
1800.00	4.15	128.360	1798.33	30.18S	38.13E	==>	-37.10	
1900.00	4.15	128.360	1898.06	34.67S	43.81E	==>	-42.62	
2000.00	4.15	128.360	1997.80	39.17S	49.49E	==>	-48.15	
2100.00	4.15	128.360	2097.54	43.67S	55.17E	==>	-53.68	
2200.00	4.15	128.360	2197.28	48.16S	60.85E	==>	-59.20	
2300.00	4.15	128.360	2297.01	52.66S	66.53E	==>	-64.73	
2400.00	4.15	128.360	2396.75	57.16S	72.21E	==>	-70.26	
2500.00	4.15	128.360	2496.49	61.65S	77.89E	==>	-75.78	
2600.00	4.15	128.360	2596.23	66.15S	83.57E	==>	-81.31	
2700.00	4.15	128.360	2695.96	70.64S	89.25E	==>	-86.84	
2800.00	4.15	128.360	2795.70	75.14S	94.93E	==>	-92.36	
2900.00	4.15	128.360	2895.44	79.64S	100.61E	==>	-97.89	
3000.00	4.15	128.360	2995.17	84.13S	106.29E	==>	-103.42	
3100.00	4.15	128.360	3094.91	88.63S	111.97E	==>	-108.94	

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Vertical Section is from 0.00N 0.00E on azimuth 268.080 degrees  
Bottom hole distance is 10918.52 Feet on azimuth 268.08 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 C-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	4.15	128.360	3194.65	93.13S	117.66E	==>	-114.47	
3300.00	4.15	128.360	3294.39	97.62S	123.34E	==>	-120.00	
3400.00	4.15	128.360	3394.12	102.12S	129.02E	==>	-125.53	
3500.00	4.15	128.360	3493.86	106.61S	134.70E	==>	-131.05	
3600.00	4.15	128.360	3593.60	111.11S	140.38E	==>	-136.58	
3700.00	4.15	128.360	3693.33	115.61S	146.06E	==>	-142.11	
3800.00	4.15	128.360	3793.07	120.10S	151.74E	==>	-147.63	
3900.00	4.15	128.360	3892.81	124.60S	157.42E	==>	-153.16	
4000.00	4.15	128.360	3992.55	129.10S	163.10E	==>	-158.69	
4100.00	4.15	128.360	4092.28	133.59S	168.78E	==>	-164.21	
4200.00	4.15	128.360	4192.02	138.09S	174.46E	==>	-169.74	
4300.00	4.15	128.360	4291.76	142.58S	180.14E	==>	-175.27	
4400.00	4.15	128.360	4391.50	147.08S	185.82E	==>	-180.79	
4500.00	4.15	128.360	4491.23	151.58S	191.50E	==>	-186.32	
4600.00	4.15	128.360	4590.97	156.07S	197.18E	==>	-191.85	
4700.00	4.15	128.360	4690.71	160.57S	202.86E	==>	-197.37	
4800.00	4.15	128.360	4790.44	165.07S	208.54E	==>	-202.90	
4900.00	4.15	128.360	4890.18	169.56S	214.23E	==>	-208.43	
5000.00	4.15	128.360	4989.92	174.06S	219.91E	==>	-213.96	
5100.00	4.15	128.360	5089.66	178.55S	225.59E	==>	-219.48	
5200.00	4.15	128.360	5189.39	183.05S	231.27E	==>	-225.01	
5300.00	4.15	128.360	5289.13	187.55S	236.95E	==>	-230.54	
5400.00	4.15	128.360	5388.87	192.04S	242.63E	==>	-236.06	
5500.00	4.15	128.360	5488.60	196.54S	248.31E	==>	-241.59	
5600.00	4.15	128.360	5588.34	201.04S	253.99E	==>	-247.12	
5700.00	4.15	128.360	5688.08	205.53S	259.67E	==>	-252.64	
5800.00	4.15	128.360	5787.82	210.03S	265.35E	==>	-258.17	
5900.00	4.15	128.360	5887.55	214.52S	271.03E	==>	-263.70	
6000.00	4.15	128.360	5987.29	219.02S	276.71E	==>	-269.22	
6100.00	4.15	128.360	6087.03	223.52S	282.39E	==>	-274.75	
6200.00	4.15	128.360	6186.77	228.01S	288.07E	==>	-280.28	
6300.00	4.15	128.360	6286.50	232.51S	293.75E	==>	-285.80	
6400.00	4.15	128.360	6386.24	237.01S	299.43E	==>	-291.33	
6500.00	4.15	128.360	6485.98	241.50S	305.11E	==>	-296.86	
6600.00	4.15	128.360	6585.71	246.00S	310.80E	==>	-302.39	
6700.00	4.15	128.360	6685.45	250.49S	316.48E	==>	-307.91	
6800.00	3.26	216.590	6785.25	255.01S	319.80E	10.00	-311.08	
6900.00	12.24	257.450	6884.28	259.61S	307.72E	10.00	-298.86	
7000.00	22.11	263.130	6979.71	264.18S	278.62E	10.00	-269.62	
7100.00	32.06	265.400	7068.64	268.57S	233.36E	10.00	-224.24	
7200.00	42.03	266.670	7148.35	272.65S	173.34E	10.00	-164.11	
7300.00	52.01	267.530	7216.44	276.31S	100.36E	10.00	-91.06	
7400.00	62.00	268.180	7270.83	279.42S	16.66E	10.00	-7.29	
7500.00	71.98	268.720	7309.88	281.90S	75.23W	10.00	84.63	
7600.00	81.97	269.200	7332.38	283.67S	172.52W	10.00	181.92	
7700.00	90.03	269.560	7337.99	284.68S	272.25W	==>	281.63	
7800.00	90.03	269.560	7337.94	285.44S	372.25W	==>	381.60	
7900.00	90.03	269.560	7337.90	286.20S	472.25W	==>	481.57	
8000.00	90.03	269.560	7337.85	286.96S	572.25W	==>	581.53	
8100.00	90.03	269.560	7337.80	287.72S	672.24W	==>	681.50	
8200.00	90.03	269.560	7337.76	288.48S	772.24W	==>	781.47	
8300.00	90.03	269.560	7337.71	289.24S	872.24W	==>	881.43	
8400.00	90.03	269.560	7337.66	290.00S	972.23W	==>	981.40	
8500.00	90.03	269.560	7337.62	290.76S	1072.23W	==>	1081.36	
8600.00	90.03	269.560	7337.57	291.52S	1172.23W	==>	1181.33	
8700.00	90.03	269.560	7337.52	292.28S	1272.23W	==>	1281.30	
8800.00	90.03	269.560	7337.47	293.04S	1372.22W	==>	1381.26	
8900.00	90.03	269.560	7337.43	293.80S	1472.22W	==>	1481.23	
9000.00	90.03	269.560	7337.38	294.56S	1572.22W	==>	1581.20	

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Vertical Section is from 0.00N 0.00E on azimuth 268.080 degrees  
Bottom hole distance is 10918.52 Feet on azimuth 268.08 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 C-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	90.03	269.560	7337.33	295.32S	1672.21W	==>	1681.16	
9200.00	90.03	269.560	7337.29	296.08S	1772.21W	==>	1781.13	
9300.00	90.03	269.560	7337.24	296.84S	1872.21W	==>	1881.10	
9400.00	90.03	269.560	7337.19	297.60S	1972.21W	==>	1981.06	
9500.00	90.03	269.560	7337.15	298.36S	2072.20W	==>	2081.03	
9600.00	90.03	269.560	7337.10	299.12S	2172.20W	==>	2181.00	
9700.00	90.03	269.560	7337.05	299.88S	2272.20W	==>	2280.96	
9800.00	90.03	269.560	7337.01	300.64S	2372.19W	==>	2380.93	
9900.00	90.03	269.560	7336.96	301.40S	2472.19W	==>	2480.90	
10000.00	90.03	269.560	7336.91	302.16S	2572.19W	==>	2580.86	
10100.00	90.03	269.560	7336.87	302.92S	2672.18W	==>	2680.83	
10200.00	90.03	269.560	7336.82	303.68S	2772.18W	==>	2780.80	
10300.00	90.03	269.560	7336.77	304.44S	2872.18W	==>	2880.76	
10400.00	90.03	269.560	7336.72	305.20S	2972.18W	==>	2980.73	
10500.00	90.03	269.560	7336.68	305.96S	3072.17W	==>	3080.69	
10600.00	90.03	269.560	7336.63	306.72S	3172.17W	==>	3180.66	
10700.00	90.03	269.560	7336.58	307.48S	3272.17W	==>	3280.63	
10800.00	90.03	269.560	7336.54	308.24S	3372.16W	==>	3380.59	
10900.00	90.03	269.560	7336.49	309.00S	3472.16W	==>	3480.56	
11000.00	90.03	269.560	7336.44	309.76S	3572.16W	==>	3580.53	
11100.00	90.03	269.560	7336.40	310.52S	3672.16W	==>	3680.49	
11200.00	90.03	269.560	7336.35	311.28S	3772.15W	==>	3780.46	
11300.00	90.03	269.560	7336.30	312.04S	3872.15W	==>	3880.43	
11400.00	90.03	269.560	7336.26	312.80S	3972.15W	==>	3980.39	
11500.00	90.03	269.560	7336.21	313.56S	4072.14W	==>	4080.36	
11600.00	90.03	269.560	7336.16	314.32S	4172.14W	==>	4180.33	
11700.00	90.03	269.560	7336.11	315.08S	4272.14W	==>	4280.29	
11800.00	90.03	269.560	7336.07	315.84S	4372.14W	==>	4380.26	
11900.00	90.03	269.560	7336.02	316.60S	4472.13W	==>	4480.23	
12000.00	90.03	269.560	7335.97	317.36S	4572.13W	==>	4580.19	
12100.00	90.03	269.560	7335.93	318.12S	4672.13W	==>	4680.16	
12200.00	90.03	269.560	7335.88	318.88S	4772.12W	==>	4780.12	
12300.00	90.03	269.560	7335.83	319.64S	4872.12W	==>	4880.09	
12400.00	90.03	269.560	7335.79	320.40S	4972.12W	==>	4980.06	
12500.00	90.03	269.560	7335.74	321.16S	5072.12W	==>	5080.02	
12600.00	90.03	269.560	7335.69	321.92S	5172.11W	==>	5179.99	
12700.00	90.03	269.560	7335.65	322.68S	5272.11W	==>	5279.96	
12800.00	90.03	269.560	7335.60	323.44S	5372.11W	==>	5379.92	
12900.00	90.03	269.560	7335.55	324.20S	5472.10W	==>	5479.89	
13000.00	90.03	269.560	7335.50	324.96S	5572.10W	==>	5579.86	
13100.00	90.03	269.560	7335.46	325.72S	5672.10W	==>	5679.82	
13200.00	90.03	269.560	7335.41	326.48S	5772.09W	==>	5779.79	
13300.00	90.03	269.560	7335.36	327.24S	5872.09W	==>	5879.76	
13400.00	90.03	269.560	7335.32	328.00S	5972.09W	==>	5979.72	
13500.00	90.03	269.560	7335.27	328.76S	6072.09W	==>	6079.69	
13600.00	90.03	269.560	7335.22	329.52S	6172.08W	==>	6179.66	
13700.00	90.03	269.560	7335.18	330.28S	6272.08W	==>	6279.62	
13800.00	90.03	269.560	7335.13	331.04S	6372.08W	==>	6379.59	
13900.00	90.03	269.560	7335.08	331.80S	6472.07W	==>	6479.56	
14000.00	90.03	269.560	7335.04	332.56S	6572.07W	==>	6579.52	
14100.00	90.03	269.560	7334.99	333.32S	6672.07W	==>	6679.49	
14200.00	90.03	269.560	7334.94	334.08S	6772.07W	==>	6779.45	
14300.00	90.03	269.560	7334.90	334.84S	6872.06W	==>	6879.42	
14400.00	90.03	269.560	7334.85	335.60S	6972.06W	==>	6979.39	
14500.00	90.03	269.560	7334.80	336.36S	7072.06W	==>	7079.35	
14600.00	90.03	269.560	7334.75	337.12S	7172.05W	==>	7179.32	
14700.00	90.03	269.560	7334.71	337.88S	7272.05W	==>	7279.29	
14800.00	90.03	269.560	7334.66	338.64S	7372.05W	==>	7379.25	
14900.00	90.03	269.560	7334.61	339.40S	7472.05W	==>	7479.22	

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SYSDRILL  
Well Design Combined Report  
Wellbore: W Leffler C-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	90.03	269.560	7334.57	340.16S	7572.04W	==>	7579.19	
15100.00	90.03	269.560	7334.52	340.92S	7672.04W	==>	7679.15	
15200.00	90.03	269.560	7334.47	341.68S	7772.04W	==>	7779.12	
15300.00	90.03	269.560	7334.43	342.44S	7872.03W	==>	7879.09	
15400.00	90.03	269.560	7334.38	343.20S	7972.03W	==>	7979.05	
15500.00	90.03	269.560	7334.33	343.96S	8072.03W	==>	8079.02	
15600.00	90.03	269.560	7334.29	344.72S	8172.03W	==>	8178.99	
15700.00	90.03	269.560	7334.24	345.48S	8272.02W	==>	8278.95	
15800.00	90.03	269.560	7334.19	346.24S	8372.02W	==>	8378.92	
15900.00	90.03	269.560	7334.14	347.00S	8472.02W	==>	8478.88	
16000.00	90.03	269.560	7334.10	347.76S	8572.01W	==>	8578.85	
16100.00	90.03	269.560	7334.05	348.52S	8672.01W	==>	8678.82	
16200.00	90.03	269.560	7334.00	349.28S	8772.01W	==>	8778.78	
16300.00	90.03	269.560	7333.96	350.04S	8872.01W	==>	8878.75	
16400.00	90.03	269.560	7333.91	350.80S	8972.00W	==>	8978.72	
16500.00	90.03	269.560	7333.86	351.56S	9072.00W	==>	9078.68	
16600.00	90.03	269.560	7333.82	352.32S	9172.00W	==>	9178.65	
16700.00	90.03	269.560	7333.77	353.08S	9271.99W	==>	9278.62	
16800.00	90.03	269.560	7333.72	353.84S	9371.99W	==>	9378.58	
16900.00	90.03	269.560	7333.68	354.60S	9471.99W	==>	9478.55	
17000.00	90.03	269.560	7333.63	355.36S	9571.98W	==>	9578.52	
17100.00	90.03	269.560	7333.58	356.12S	9671.98W	==>	9678.48	
17200.00	90.03	269.560	7333.53	356.88S	9771.98W	==>	9778.45	
17300.00	90.03	269.560	7333.49	357.64S	9871.98W	==>	9878.42	
17400.00	90.03	269.560	7333.44	358.40S	9971.97W	==>	9978.38	
17500.00	90.03	269.560	7333.39	359.16S	10071.97W	==>	10078.35	
17600.00	90.03	269.560	7333.35	359.92S	10171.97W	==>	10178.32	
17700.00	90.03	269.560	7333.30	360.68S	10271.96W	==>	10278.28	
17800.00	90.03	269.560	7333.25	361.44S	10371.96W	==>	10378.25	
17900.00	90.03	269.560	7333.21	362.20S	10471.96W	==>	10478.21	
18000.00	90.03	269.560	7333.16	362.96S	10571.96W	==>	10578.18	
18100.00	90.03	269.560	7333.11	363.72S	10671.95W	==>	10678.15	
18200.00	90.03	269.560	7333.07	364.48S	10771.95W	==>	10778.11	
18300.00	90.03	269.560	7333.02	365.24S	10871.95W	==>	10878.08	
18340.45	90.03	269.560	7333.00	365.55S	10912.40W	==>	10918.52	

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 4923.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 268.080 degrees  
Bottom hole distance is 10918.52 Feet on azimuth 268.08 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 C-26-28HN (PWB)



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
Leffler C-26-28HN - BH	365.55S	10912.40W	7333.00	40.55178700	-104.79264100	1444640.90	3196563.62
Leffler C-26-28HN - EP	284.53S	252.88W	7338.00	40.55201600	-104.75428300	1444811.66	3207221.74

Survey Tool Program					
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
676466	Planned	1500.00	1499.12	WdW Rate Gyro	Standard
676465	Planned	18340.45	7333.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes



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

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

Slot						
Name	Latitude	Longitude	Grid Northing	Grid Easting	North	East
Leffler C-26-28HN	40.55279700	-104.75337300	1445098.3038	3207472.2150	1.46N	45.02E

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 31-27	56.33	9909.63	9909.63	-54.16	9909.63	0.51	9909.63
W Thornton 21K-443	62.65	17306.89	17306.89	-47.70	17347.83	0.60	17331.43
W Leffler 41-27	67.05	8241.97	8241.97	13.77	8243.50	1.26	8243.50
W Leffler 1-27	171.99	9630.05	9630.05	71.13	9637.86	1.70	9637.86
W Leffler 27C	837.61	8967.34	8967.34	760.10	8998.10	10.39	9162.14
W Leffler 32-27	1712.20	9909.35	9909.35	1600.36	9965.94	14.23	10425.26
W Leffler 42-27	1769.91	8259.91	8259.91	1715.41	8309.12	25.38	9227.76







