

# HRM Resources

Location	DJ Basin	Slot	Slot 1
Field	WATTENBERG	Well	Lehl 30-1
Installation	Lehl Pad - Rev 2 - 2016-07-15	Wellbore	Lehl 30-1 (PWB)

## WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	S 0.00	W 0.00		-0.00
KOP	1500.00	0.00	330.06	1500.00	S 0.00	W 0.00	0.00	-0.00
End of Build	1719.80	4.40	330.06	1719.58	N 7.30	W 4.21	2.00	-7.25
End of Hold	6789.37	4.40	330.06	6774.24	N 344.03	W 198.13	0.00	-341.31
Target LEHL 3... Rev 2	7727.64	90.00	179.52	7385.00	S 227.82	W 216.39	10.00	230.74
T.D. & Target LEH...v 2	17414.06	90.00	179.52	7385.00	S 9913.90	W 134.50	0.00	9914.81

Scale 1 cm = 400 ft

East (Feet) ->

-1600 -800 -0 800

Surface 0.00 N 0.00 E

LEHL 30-1 EP - Rev 2

1600

800

0

-800

-1600

-2400

-3200

-4000

-4800

-5600

-6400

-7200

-8000

-8800

-9600

-10400

-11200

<- North(Feet)

Scale 1 cm = 400 ft

Scale 1 cm = 400 ft

<- True Vertical Depth (Feet)

8000

7200

6400

5600

4800

4000

3200

2400

1600

800

0

-800

-1600

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

3DS Kick off Point - 0.00 Inc, 1500.00 MD, 1500.00 TVD, -0.00 VS

End of Build - 4.40 Inc, 1719.80 MD, 1719.58 TVD, -7.25 VS

Created by admin  
Date plotted 15-Jul-2016

Plot reference is Lehl 30-1 (PWB).  
Ref wellpath is Lehl 30-1 (PWP#1).  
Coordinates are in Feet reference Slot 1.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Planned Datum #1  
Rig Datum to Mean Sea Level: 4974.00 ft.  
Plot North is aligned to GRID North.

LEHL 30-1 BH - Rev 2

Lehl 30-1 (PWB)

End of Hold - 4.40 Inc, 6789.37 MD, 6774.24 TVD, -341.31 VS

Target - 90.00 Inc, 7727.64 MD, 7385.00 TVD, 230.74 VS

T.D. & Target - 7385.00 TVD, 9913.90 S 134.50 W

Lehl 30-1 (PWB)

Vertical Section (Feet) ->

Scale 1 cm = 400 ft

Azimuth 180.78 with reference 0.00 N, 0.00 E from Slot 1

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



SYS DRILL  
Well Design Combined Report  
Wellbore: Lehl 30-1 (PWB)



#### Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
Slot 1	40.02900000	-104.69826000	1254425.7386	3224511.7687	51.32N	5749.05E	0.00

#### Declination

Date	Source	Time
Jun-9-2016	EMM-2015 [2000.0-2020.0]	15:46

#### Installation Details

Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Lehl Pad - Rev 2 - 2016-07-15	40.02900000	-104.71878983	1254374.4255	3218762.9369	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

#### Summary Wellpath

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1254425.74	3224511.77
1500.00	0.00	330.060	1500.00	0.00N	0.00E	==>	0.00	1254425.74	3224511.77
1719.80	4.40	330.060	1719.58	7.30N	4.21W	2.00	-7.25	1254433.04	3224507.56
6789.37	4.40	330.060	6774.24	344.03N	198.13W	==>	-341.31	1254769.76	3224313.64
7727.64	90.00	179.520	7385.00	227.82S	216.39W	10.00	230.74	1254197.92	3224295.39
17414.06	90.00	179.520	7385.00	9913.90S	134.50W	==>	9914.81	1244512.21	3224377.28

#### 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	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	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	
1400.00	0.00	0.000	1400.00	0.00N	0.00E	==>	0.00	
1500.00	0.00	330.060	1500.00	0.00N	0.00E	==>	0.00	
1600.00	2.00	330.060	1599.98	1.51N	0.87W	2.00	-1.50	
1700.00	4.00	330.060	1699.84	6.05N	3.48W	2.00	-6.00	
1800.00	4.40	330.060	1799.55	12.63N	7.27W	==>	-12.53	
1900.00	4.40	330.060	1899.25	19.27N	11.10W	==>	-19.12	
2000.00	4.40	330.060	1998.96	25.91N	14.92W	==>	-25.71	
2100.00	4.40	330.060	2098.67	32.56N	18.75W	==>	-32.30	
2200.00	4.40	330.060	2198.37	39.20N	22.58W	==>	-38.89	
2300.00	4.40	330.060	2298.08	45.84N	26.40W	==>	-45.48	
2400.00	4.40	330.060	2397.78	52.48N	30.23W	==>	-52.07	
2500.00	4.40	330.060	2497.49	59.13N	34.05W	==>	-58.66	
2600.00	4.40	330.060	2597.19	65.77N	37.88W	==>	-65.25	
2700.00	4.40	330.060	2696.90	72.41N	41.70W	==>	-71.84	
2800.00	4.40	330.060	2796.61	79.05N	45.53W	==>	-78.43	
2900.00	4.40	330.060	2896.31	85.69N	49.35W	==>	-85.02	
3000.00	4.40	330.060	2996.02	92.34N	53.18W	==>	-91.61	
3100.00	4.40	330.060	3095.72	98.98N	57.00W	==>	-98.20	
3200.00	4.40	330.060	3195.43	105.62N	60.83W	==>	-104.79	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 4974.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 180.780 degrees  
Bottom hole distance is 9914.81 Feet on azimuth 180.78 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by IPT  
Date Printed: 15-Jul-2016

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
3300.00	4.40	330.060	3295.14	112.26N	64.65W	==>	-111.38	
3400.00	4.40	330.060	3394.84	118.90N	68.48W	==>	-117.96	
3500.00	4.40	330.060	3494.55	125.55N	72.30W	==>	-124.55	
3600.00	4.40	330.060	3594.25	132.19N	76.13W	==>	-131.14	
3700.00	4.40	330.060	3693.96	138.83N	79.95W	==>	-137.73	
3800.00	4.40	330.060	3793.66	145.47N	83.78W	==>	-144.32	
3900.00	4.40	330.060	3893.37	152.12N	87.61W	==>	-150.91	
4000.00	4.40	330.060	3993.08	158.76N	91.43W	==>	-157.50	
4100.00	4.40	330.060	4092.78	165.40N	95.26W	==>	-164.09	
4200.00	4.40	330.060	4192.49	172.04N	99.08W	==>	-170.68	
4300.00	4.40	330.060	4292.19	178.68N	102.91W	==>	-177.27	
4400.00	4.40	330.060	4391.90	185.33N	106.73W	==>	-183.86	
4500.00	4.40	330.060	4491.61	191.97N	110.56W	==>	-190.45	
4600.00	4.40	330.060	4591.31	198.61N	114.38W	==>	-197.04	
4700.00	4.40	330.060	4691.02	205.25N	118.21W	==>	-203.63	
4800.00	4.40	330.060	4790.72	211.89N	122.03W	==>	-210.22	
4900.00	4.40	330.060	4890.43	218.54N	125.86W	==>	-216.81	
5000.00	4.40	330.060	4990.13	225.18N	129.68W	==>	-223.40	
5100.00	4.40	330.060	5089.84	231.82N	133.51W	==>	-229.99	
5200.00	4.40	330.060	5189.55	238.46N	137.33W	==>	-236.58	
5300.00	4.40	330.060	5289.25	245.11N	141.16W	==>	-243.17	
5400.00	4.40	330.060	5388.96	251.75N	144.98W	==>	-249.76	
5500.00	4.40	330.060	5488.66	258.39N	148.81W	==>	-256.35	
5600.00	4.40	330.060	5588.37	265.03N	152.64W	==>	-262.94	
5700.00	4.40	330.060	5688.08	271.67N	156.46W	==>	-269.53	
5800.00	4.40	330.060	5787.78	278.32N	160.29W	==>	-276.12	
5900.00	4.40	330.060	5887.49	284.96N	164.11W	==>	-282.71	
6000.00	4.40	330.060	5987.19	291.60N	167.94W	==>	-289.30	
6100.00	4.40	330.060	6086.90	298.24N	171.76W	==>	-295.89	
6200.00	4.40	330.060	6186.60	304.88N	175.59W	==>	-302.47	
6300.00	4.40	330.060	6286.31	311.53N	179.41W	==>	-309.06	
6400.00	4.40	330.060	6386.02	318.17N	183.24W	==>	-315.65	
6500.00	4.40	330.060	6485.72	324.81N	187.06W	==>	-322.24	
6600.00	4.40	330.060	6585.43	331.45N	190.89W	==>	-328.83	
6700.00	4.40	330.060	6685.13	338.10N	194.71W	==>	-335.42	
6800.00	3.51	321.470	6784.85	344.64N	198.54W	10.00	-341.91	
6900.00	7.55	196.080	6884.57	340.71N	202.28W	10.00	-337.93	
7000.00	17.37	186.460	6982.11	319.51N	205.78W	10.00	-316.69	
7100.00	27.32	183.710	7074.49	281.69N	208.96W	10.00	-278.83	
7200.00	37.29	182.360	7158.90	228.39N	211.70W	10.00	-225.50	
7300.00	47.27	181.520	7232.79	161.24N	213.92W	10.00	-158.32	
7400.00	57.26	180.910	7293.91	82.26N	215.56W	10.00	-79.33	
7500.00	67.25	180.420	7340.40	6.12S	216.57W	10.00	9.06	
7600.00	77.25	180.010	7370.85	101.24S	216.92W	10.00	104.17	
7700.00	87.24	179.620	7384.33	200.20S	216.59W	10.00	203.12	
7800.00	90.00	179.520	7385.00	300.18S	215.77W	==>	303.08	
7900.00	90.00	179.520	7385.00	400.18S	214.93W	==>	403.06	
8000.00	90.00	179.520	7385.00	500.18S	214.08W	==>	503.04	
8100.00	90.00	179.520	7385.00	600.17S	213.24W	==>	603.01	
8200.00	90.00	179.520	7385.00	700.17S	212.39W	==>	702.99	
8300.00	90.00	179.520	7385.00	800.17S	211.55W	==>	802.96	
8400.00	90.00	179.520	7385.00	900.16S	210.70W	==>	902.94	
8500.00	90.00	179.520	7385.00	1000.16S	209.86W	==>	1002.91	
8600.00	90.00	179.520	7385.00	1100.16S	209.01W	==>	1102.89	
8700.00	90.00	179.520	7385.00	1200.15S	208.17W	==>	1202.87	
8800.00	90.00	179.520	7385.00	1300.15S	207.32W	==>	1302.84	
8900.00	90.00	179.520	7385.00	1400.15S	206.47W	==>	1402.82	
9000.00	90.00	179.520	7385.00	1500.14S	205.63W	==>	1502.79	
9100.00	90.00	179.520	7385.00	1600.14S	204.78W	==>	1602.77	

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Vertical Section is from 0.00N 0.00E on azimuth 180.780 degrees  
Bottom hole distance is 9914.81 Feet on azimuth 180.78 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by IPT  
Date Printed: 15-Jul-2016

Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
9200.00	90.00	179.520	7385.00	1700.13S	203.94W	==>	1702.74	
9300.00	90.00	179.520	7385.00	1800.13S	203.09W	==>	1802.72	
9400.00	90.00	179.520	7385.00	1900.13S	202.25W	==>	1902.70	
9500.00	90.00	179.520	7385.00	2000.12S	201.40W	==>	2002.67	
9600.00	90.00	179.520	7385.00	2100.12S	200.56W	==>	2102.65	
9700.00	90.00	179.520	7385.00	2200.12S	199.71W	==>	2202.62	
9800.00	90.00	179.520	7385.00	2300.11S	198.87W	==>	2302.60	
9900.00	90.00	179.520	7385.00	2400.11S	198.02W	==>	2402.57	
10000.00	90.00	179.520	7385.00	2500.11S	197.18W	==>	2502.55	
10100.00	90.00	179.520	7385.00	2600.10S	196.33W	==>	2602.53	
10200.00	90.00	179.520	7385.00	2700.10S	195.48W	==>	2702.50	
10300.00	90.00	179.520	7385.00	2800.10S	194.64W	==>	2802.48	
10400.00	90.00	179.520	7385.00	2900.09S	193.79W	==>	2902.45	
10500.00	90.00	179.520	7385.00	3000.09S	192.95W	==>	3002.43	
10600.00	90.00	179.520	7385.00	3100.08S	192.10W	==>	3102.41	
10700.00	90.00	179.520	7385.00	3200.08S	191.26W	==>	3202.38	
10800.00	90.00	179.520	7385.00	3300.08S	190.41W	==>	3302.36	
10900.00	90.00	179.520	7385.00	3400.07S	189.57W	==>	3402.33	
11000.00	90.00	179.520	7385.00	3500.07S	188.72W	==>	3502.31	
11100.00	90.00	179.520	7385.00	3600.07S	187.88W	==>	3602.28	
11200.00	90.00	179.520	7385.00	3700.06S	187.03W	==>	3702.26	
11300.00	90.00	179.520	7385.00	3800.06S	186.19W	==>	3802.24	
11400.00	90.00	179.520	7385.00	3900.06S	185.34W	==>	3902.21	
11500.00	90.00	179.520	7385.00	4000.05S	184.49W	==>	4002.19	
11600.00	90.00	179.520	7385.00	4100.05S	183.65W	==>	4102.16	
11700.00	90.00	179.520	7385.00	4200.05S	182.80W	==>	4202.14	
11800.00	90.00	179.520	7385.00	4300.04S	181.96W	==>	4302.11	
11900.00	90.00	179.520	7385.00	4400.04S	181.11W	==>	4402.09	
12000.00	90.00	179.520	7385.00	4500.03S	180.27W	==>	4502.07	
12100.00	90.00	179.520	7385.00	4600.03S	179.42W	==>	4602.04	
12200.00	90.00	179.520	7385.00	4700.03S	178.58W	==>	4702.02	
12300.00	90.00	179.520	7385.00	4800.02S	177.73W	==>	4801.99	
12400.00	90.00	179.520	7385.00	4900.02S	176.89W	==>	4901.97	
12500.00	90.00	179.520	7385.00	5000.02S	176.04W	==>	5001.94	
12600.00	90.00	179.520	7385.00	5100.01S	175.20W	==>	5101.92	
12700.00	90.00	179.520	7385.00	5200.01S	174.35W	==>	5201.90	
12800.00	90.00	179.520	7385.00	5300.01S	173.50W	==>	5301.87	
12900.00	90.00	179.520	7385.00	5400.00S	172.66W	==>	5401.85	
13000.00	90.00	179.520	7385.00	5500.00S	171.81W	==>	5501.82	
13100.00	90.00	179.520	7385.00	5600.00S	170.97W	==>	5601.80	
13200.00	90.00	179.520	7385.00	5699.99S	170.12W	==>	5701.77	
13300.00	90.00	179.520	7385.00	5799.99S	169.28W	==>	5801.75	
13400.00	90.00	179.520	7385.00	5899.98S	168.43W	==>	5901.73	
13500.00	90.00	179.520	7385.00	5999.98S	167.59W	==>	6001.70	
13600.00	90.00	179.520	7385.00	6099.98S	166.74W	==>	6101.68	
13700.00	90.00	179.520	7385.00	6199.97S	165.90W	==>	6201.65	
13800.00	90.00	179.520	7385.00	6299.97S	165.05W	==>	6301.63	
13900.00	90.00	179.520	7385.00	6399.97S	164.20W	==>	6401.61	
14000.00	90.00	179.520	7385.00	6499.96S	163.36W	==>	6501.58	
14100.00	90.00	179.520	7385.00	6599.96S	162.51W	==>	6601.56	
14200.00	90.00	179.520	7385.00	6699.96S	161.67W	==>	6701.53	
14300.00	90.00	179.520	7385.00	6799.95S	160.82W	==>	6801.51	
14400.00	90.00	179.520	7385.00	6899.95S	159.98W	==>	6901.48	
14500.00	90.00	179.520	7385.00	6999.95S	159.13W	==>	7001.46	
14600.00	90.00	179.520	7385.00	7099.94S	158.29W	==>	7101.44	
14700.00	90.00	179.520	7385.00	7199.94S	157.44W	==>	7201.41	
14800.00	90.00	179.520	7385.00	7299.93S	156.60W	==>	7301.39	
14900.00	90.00	179.520	7385.00	7399.93S	155.75W	==>	7401.36	
15000.00	90.00	179.520	7385.00	7499.93S	154.91W	==>	7501.34	

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SYS DRILL  
Well Design Combined Report  
Wellbore: Lehl 30-1 (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
15100.00	90.00	179.520	7385.00	7599.92S	154.06W	==>	7601.31	
15200.00	90.00	179.520	7385.00	7699.92S	153.21W	==>	7701.29	
15300.00	90.00	179.520	7385.00	7799.92S	152.37W	==>	7801.27	
15400.00	90.00	179.520	7385.00	7899.91S	151.52W	==>	7901.24	
15500.00	90.00	179.520	7385.00	7999.91S	150.68W	==>	8001.22	
15600.00	90.00	179.520	7385.00	8099.91S	149.83W	==>	8101.19	
15700.00	90.00	179.520	7385.00	8199.90S	148.99W	==>	8201.17	
15800.00	90.00	179.520	7385.00	8299.90S	148.14W	==>	8301.14	
15900.00	90.00	179.520	7385.00	8399.90S	147.30W	==>	8401.12	
16000.00	90.00	179.520	7385.00	8499.89S	146.45W	==>	8501.10	
16100.00	90.00	179.520	7385.00	8599.89S	145.61W	==>	8601.07	
16200.00	90.00	179.520	7385.00	8699.88S	144.76W	==>	8701.05	
16300.00	90.00	179.520	7385.00	8799.88S	143.92W	==>	8801.02	
16400.00	90.00	179.520	7385.00	8899.88S	143.07W	==>	8901.00	
16500.00	90.00	179.520	7385.00	8999.87S	142.22W	==>	9000.97	
16600.00	90.00	179.520	7385.00	9099.87S	141.38W	==>	9100.95	
16700.00	90.00	179.520	7385.00	9199.87S	140.53W	==>	9200.93	
16800.00	90.00	179.520	7385.00	9299.86S	139.69W	==>	9300.90	
16900.00	90.00	179.520	7385.00	9399.86S	138.84W	==>	9400.88	
17000.00	90.00	179.520	7385.00	9499.86S	138.00W	==>	9500.85	
17100.00	90.00	179.520	7385.00	9599.85S	137.15W	==>	9600.83	
17200.00	90.00	179.520	7385.00	9699.85S	136.31W	==>	9700.81	
17300.00	90.00	179.520	7385.00	9799.85S	135.46W	==>	9800.78	
17400.00	90.00	179.520	7385.00	9899.84S	134.62W	==>	9900.76	
17414.06	90.00	179.520	7385.00	9913.90S	134.50W	==>	9914.81	

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 4974.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 180.780 degrees  
Bottom hole distance is 9914.81 Feet on azimuth 180.78 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by IPT  
Date Printed: 15-Jul-2016



SYS DRILL  
Well Design Combined Report  
Wellbore: Lehl 30-1 (PWB)



Targets							
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
LEHL 30-1 BH - Rev 2	9913.90S	134.50W	7385.00	40.00179000	-104.69906000	1244512.21	3224377.28
LEHL 30-1 EP - Rev 2	227.82S	216.39W	7385.00	40.02838000	-104.69904000	1254197.92	3224295.39

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
505873	Planned	17414.06	7385.00	ISCWSA MWD	Rev 4 + SAG	

Notes



SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: Lehl 30-1 (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
Lehl 30-1 (PWB)	Jun-13-2016	Jul-15-2016

Well		
Name	Government ID	Last Revised
Lehl 30-1		Jun-13-2016

Slot						
Name	Latitude	Longitude	Grid Northing	Grid Easting	North	East
Slot 1	40.02900000	-104.69826000	1254425.7386	3224511.7687	51.32N	5749.05E

Installation						
Name	Installation Position (Latitude)	Installation Position (Longitude)	Easting	Northing	Coord System Name	North Alignment
Lehl Pad - Rev 2 - 2016-07-15	40.02900000	-104.71878983	3218762.9369	1254374.4255	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
Lehl 30-8	14.00	1500.00	1500.00				
Lehl 30-2	16.80	1500.01	1500.01	1.35	1600.00	1.04	17414.06
Lehl 30-3	33.61	1500.03	1500.03	18.28	1574.80	1.51	17414.06
Lehl 30-4	47.75	1500.03	1500.03	32.47	1558.40	1.97	17414.06
Lehl 30-5	64.51	1500.05	1500.05	49.25	1558.40	2.72	17414.06
Lehl 30-6	81.29	1500.06	1500.06	66.04	1558.40	3.36	17414.06
Lehl 30-7	98.08	1500.07	1500.07	82.83	1558.40	5.96	1771.65
W Adam Ten 1-A	99.00	17228.69	17228.69	-146.67	17228.69	0.40	17228.69
W Sack-Dreyer 1	713.15	14587.59	14587.59	531.54	14600.00	3.92	14632.55
W Highland 01N-65W-29-1N	925.25	17404.86	17403.15	679.20	17414.06	3.76	17414.06
ELLS #XX 19-4D	1021.13	6840.55	6840.55	963.48	6840.55	17.64	6906.17
W Sawyer/Powell 32-4	1308.44	15807.12	15807.12	1097.19	15830.05	6.17	15895.67
W Lutz 1	1376.61	13287.80	13287.80	1226.10	13320.21	9.04	13451.44
W Dreyer 1	1398.77	15913.96	15913.96	1184.73	15944.88	6.50	16043.31
KILKER #1	1431.81	11570.38	11570.38	1297.88	11600.00	10.56	11745.41
W Dreyer 32-1	1450.50	14539.31	14539.31	1269.98	14566.93	7.99	14665.35
W Sack-Hiett 1	1479.99	16855.80	16855.80	1243.13	16879.92	6.23	16961.94
MARGUERITE B LEHL #A-1	1487.15	9153.55	9153.55	1405.47	9186.35	17.40	9547.24
W Adam Ten Ltd	1507.85	17414.06	17414.06	1419.67	17414.06	17.10	17414.06

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Prepared by IPT  
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SYS DRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: Lehl 30-1 (PWB)



Clearance Summary							
Offset WellName	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
1							
M B LEHL A #1	1527.15	9258.85	9258.85	1437.68	9284.78	16.38	9645.67
CHARLES M BROWN GAS UNIT #1	1815.60	6791.34	6791.34	1757.49	6800.00	30.94	6971.78
W Lochbuie 2H-31H D165	2056.26	13161.03	13161.03	1841.93	17414.06	8.37	17414.06
W Lochbuie 2G-31H D165	2440.40	13172.57	13172.57	2226.18	17414.06	9.91	17414.06
W Lochbuie 2F-31H D165	2646.10	14586.89	14586.89	2461.95	14800.00	11.27	17414.06
W Lutz 1A	2797.29	14566.93	14566.93	2615.55	14632.55	14.89	15108.27
W Lochbuie 21-31	2852.62	13057.74	13057.74	2707.26	13123.36	18.61	13746.72
GILMORE #1-30	2958.94	8436.26	8436.26	2889.22	8480.97	35.75	9957.35
W Lochbuie 2E-31H D165	3139.64	13157.05	13157.05	2925.34	17414.06	12.70	17414.06
W Eppinger 1	3227.93	16874.02	16874.02	2989.94	16945.54	13.22	17414.06
DECHANT #1-19	3320.98	6906.17	6906.17	3262.36	6922.57	55.68	7332.68
LEHL #1	3784.04	10928.35	10928.35	3664.12	11023.62	27.72	12385.17







