

HRM Resources

Location	Windsor	Slot	Slot #5
Field	WATTENBERG	Well	Lehl 30-5
Installation	Lehl Pad	Wellbore	Lehl 30-5 (PWB)

East (feet) ->

Scale 1 cm = 200 ft

-2000 -1600 -1200 -800 -400 -0 400

Tie on - 0.00 Inc, 16.00 MD, 16.00 TVD, -0.00 VS

9 5/8in Surface Casing

3DS Kick off Point - 0.00 Inc, 1300.00 MD, 1300.00 TVD, -0.00 VS

Surface 0.00 N 0.00 E

Lehl 30-5 - T1

End of Build - 14.55 Inc, 2027.38 MD, 2019.59 TVD, 6.17 VS

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	16.00	0.00	0.00	16.00	0.00	0.00	0.00	-0.00
KOP	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	-0.00
End of Build	2027.38	14.55	283.92	2019.59	22.09	-89.15	2.00	6.17
End of Hold	7041.01	14.55	283.92	6872.48	324.95	-1311.53	0.00	90.72
Target Lehl 30-5 - T1	7975.02	90.00	180.26	7461.00	-246.33	-1462.48	10.00	680.82
T.D. & Target Lehl 30-5	12354.16	90.00	180.26	7461.00	-4625.43	-1481.98	0.00	4857.04

Created by admin
Date plotted 17-Feb-2014

Plot reference is Lehl 30-5 (PWB).
Ref wellpath is Lehl 30-5 (PWP#1).
Coordinates are in feet reference Slot #5.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4993.00 ft.
Plot North is aligned to GRID North.

Lehl 30-5 - T2

E/2 of Sec 30-T1N-R65W

End of Hold - 14.55 Inc, 7041.01 MD, 6872.48 TVD, 90.72 VS

7.0in Intermediate Casing

Lehl 30-5 - T1

T.D. & End of Hold - 7461.00 TVD, 4625.43 S 1481.98 W

Lehl 30-5 - T2

S/C Kick off Point - 90.00 Inc, 7975.02 MD, 7461.00 TVD, 680.82 VS

4 1/2in Production Liner

Scale 1 cm = 200 ft

Vertical Section (feet) ->

Azimuth 197.77 with reference 0.00 N, 0.00 E from Slot #5

<- North(feet)

Scale 1 cm = 200 ft



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Lehl 30-5 (PWB)

Wellhead Details							
Name	Northing	Easting	Latitude	Longitude	North	East	Elevation Above Inst.
Slot #5	1254421.5137	3224447.3963	40.02899000	-104.69849000	4.23S	64.37W	3.00

Declination			
Date	Source	Time	
14-Feb-2014	IGRF Model [1900.0-2015.0]		11:31

Site Details				
Name	Northing	Easting	Coord System Name	North Alignment
Lehl Pad	1254425.7386	3224511.7687	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
16.00	0.00	0.000	16.00	0.00N	0.00E		0.00	1254421.51	3224447.40
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
2027.38	14.55	283.920	2019.59	22.09N	89.15W	2.00	6.17	1254443.60	3224358.25
7041.01	14.55	283.920	6872.48	324.95N	1311.53W	==>	90.72	1254746.45	3223135.91
7975.02	90.00	180.260	7461.00	246.33S	1462.48W	10.00	680.82	1254175.19	3222984.97
12354.16	90.00	180.260	7461.00	4625.43S	1481.98W	==>	4857.04	1249796.26	3222965.47

Interpolated 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	1254421.51	3224447.40
16.00	0.00	0.000	16.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
100.00	0.00	0.000	100.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
200.00	0.00	0.000	200.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
300.00	0.00	0.000	300.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
400.00	0.00	0.000	400.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
500.00	0.00	0.000	500.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
600.00	0.00	0.000	600.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
700.00	0.00	0.000	700.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
800.00	0.00	0.000	800.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
900.00	0.00	0.000	900.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1000.00	0.00	0.000	1000.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1100.00	0.00	0.000	1100.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1200.00	0.00	0.000	1200.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1284.00	0.00	0.000	1284.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1300.00	0.00	0.000	1300.00	0.00N	0.00E	==>	0.00	1254421.51	3224447.40
1384.00	1.68	283.920	1383.99	0.30N	1.20W	2.00	0.08	1254421.81	3224446.20
1484.00	3.68	283.920	1483.87	1.42N	5.73W	2.00	0.40	1254422.93	3224441.66
1584.00	5.68	283.920	1583.54	3.38N	13.65W	2.00	0.94	1254424.90	3224433.74
1684.00	7.68	283.920	1682.85	6.18N	24.94W	2.00	1.73	1254427.69	3224422.45
1784.00	9.68	283.920	1781.70	9.81N	39.59W	2.00	2.74	1254431.32	3224407.81
1884.00	11.68	283.920	1879.96	14.27N	57.58W	2.00	3.98	1254435.78	3224389.82
1984.00	13.68	283.920	1977.52	19.54N	78.88W	2.00	5.46	1254441.06	3224368.52
2027.38	14.55	283.920	2019.59	22.09N	89.15W	2.00	6.17	1254443.60	3224358.25
2100.00	14.55	283.920	2089.88	26.48N	106.86W	==>	7.39	1254447.99	3224340.54
2200.00	14.55	283.920	2186.68	32.52N	131.24W	==>	9.08	1254454.03	3224316.16
2300.00	14.55	283.920	2283.47	38.56N	155.62W	==>	10.76	1254460.07	3224291.78
2400.00	14.55	283.920	2380.26	44.60N	180.00W	==>	12.45	1254466.11	3224267.40
2500.00	14.55	283.920	2477.06	50.64N	204.38W	==>	14.14	1254472.15	3224243.02
2600.00	14.55	283.920	2573.85	56.68N	228.76W	==>	15.82	1254478.19	3224218.64
2700.00	14.55	283.920	2670.65	62.72N	253.14W	==>	17.51	1254484.23	3224194.26
2800.00	14.55	283.920	2767.44	68.76N	277.53W	==>	19.20	1254490.27	3224169.88
2900.00	14.55	283.920	2864.23	74.80N	301.91W	==>	20.88	1254496.31	3224145.50
3000.00	14.55	283.920	2961.03	80.84N	326.29W	==>	22.57	1254502.35	3224121.12
3100.00	14.55	283.920	3057.82	86.88N	350.67W	==>	24.26	1254508.39	3224096.74
3200.00	14.55	283.920	3154.61	92.92N	375.05W	==>	25.94	1254514.43	3224072.36
3300.00	14.55	283.920	3251.41	98.97N	399.43W	==>	27.63	1254520.48	3224047.98
3400.00	14.55	283.920	3348.20	105.01N	423.81W	==>	29.32	1254526.52	3224023.60

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 4993.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 197.770 degrees
Bottom hole distance is 4857.04 Feet on azimuth 197.77 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 17-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Lehl 30-5 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
3500.00	14.55	283.920	3445.00	111.05N	448.19W	==>	31.00	1254532.56	3223999.22
3600.00	14.55	283.920	3541.79	117.09N	472.58W	==>	32.69	1254538.60	3223974.84
3700.00	14.55	283.920	3638.58	123.13N	496.96W	==>	34.37	1254544.64	3223950.46
3800.00	14.55	283.920	3735.38	129.17N	521.34W	==>	36.06	1254550.68	3223926.08
3900.00	14.55	283.920	3832.17	135.21N	545.72W	==>	37.75	1254556.72	3223901.70
4000.00	14.55	283.920	3928.97	141.25N	570.10W	==>	39.43	1254562.76	3223877.32
4100.00	14.55	283.920	4025.76	147.29N	594.48W	==>	41.12	1254568.80	3223852.94
4200.00	14.55	283.920	4122.55	153.33N	618.86W	==>	42.81	1254574.84	3223828.56
4300.00	14.55	283.920	4219.35	159.37N	643.24W	==>	44.49	1254580.88	3223804.18
4400.00	14.55	283.920	4316.14	165.41N	667.62W	==>	46.18	1254586.92	3223779.80
4500.00	14.55	283.920	4412.94	171.45N	692.01W	==>	47.87	1254592.96	3223755.42
4600.00	14.55	283.920	4509.73	177.50N	716.39W	==>	49.55	1254599.00	3223731.04
4700.00	14.55	283.920	4606.52	183.54N	740.77W	==>	51.24	1254605.04	3223706.66
4800.00	14.55	283.920	4703.32	189.58N	765.15W	==>	52.93	1254611.08	3223682.28
4900.00	14.55	283.920	4800.11	195.62N	789.53W	==>	54.61	1254617.12	3223657.90
5000.00	14.55	283.920	4896.91	201.66N	813.91W	==>	56.30	1254623.16	3223633.52
5100.00	14.55	283.920	4993.70	207.70N	838.29W	==>	57.98	1254629.21	3223609.13
5200.00	14.55	283.920	5090.49	213.74N	862.67W	==>	59.67	1254635.25	3223584.75
5300.00	14.55	283.920	5187.29	219.78N	887.06W	==>	61.36	1254641.29	3223560.37
5400.00	14.55	283.920	5284.08	225.82N	911.44W	==>	63.04	1254647.33	3223535.99
5500.00	14.55	283.920	5380.88	231.86N	935.82W	==>	64.73	1254653.37	3223511.61
5600.00	14.55	283.920	5477.67	237.90N	960.20W	==>	66.42	1254659.41	3223487.23
5700.00	14.55	283.920	5574.46	243.94N	984.58W	==>	68.10	1254665.45	3223462.85
5800.00	14.55	283.920	5671.26	249.99N	1008.96W	==>	69.79	1254671.49	3223438.47
5900.00	14.55	283.920	5768.05	256.03N	1033.34W	==>	71.48	1254677.53	3223414.09
6000.00	14.55	283.920	5864.85	262.07N	1057.72W	==>	73.16	1254683.57	3223389.71
6100.00	14.55	283.920	5961.64	268.11N	1082.10W	==>	74.85	1254689.61	3223365.33
6200.00	14.55	283.920	6058.43	274.15N	1106.49W	==>	76.54	1254695.65	3223340.95
6300.00	14.55	283.920	6155.23	280.19N	1130.87W	==>	78.22	1254701.69	3223316.57
6400.00	14.55	283.920	6252.02	286.23N	1155.25W	==>	79.91	1254707.73	3223292.19
6500.00	14.55	283.920	6348.81	292.27N	1179.63W	==>	81.60	1254713.77	3223267.81
6600.00	14.55	283.920	6445.61	298.31N	1204.01W	==>	83.28	1254719.81	3223243.43
6700.00	14.55	283.920	6542.40	304.35N	1228.39W	==>	84.97	1254725.85	3223219.05
6800.00	14.55	283.920	6639.20	310.39N	1252.77W	==>	86.65	1254731.90	3223194.67
6900.00	14.55	283.920	6735.99	316.43N	1277.15W	==>	88.34	1254737.94	3223170.29
7000.00	14.55	283.920	6832.78	322.47N	1301.54W	==>	90.03	1254743.98	3223145.91
7041.01	14.55	283.920	6872.48	324.95N	1311.53W	==>	90.72	1254746.45	3223135.91
7100.00	14.37	260.140	6929.65	325.48N	1325.95W	10.00	94.61	1254746.98	3223121.50
7200.00	18.80	228.060	7025.67	312.55N	1350.22W	10.00	114.33	1254734.06	3223097.23
7300.00	26.38	210.810	7118.03	282.63N	1373.64W	10.00	149.97	1254704.13	3223073.81
7400.00	35.13	201.250	7203.93	236.61N	1395.51W	10.00	200.47	1254658.12	3223051.94
7500.00	44.36	195.200	7280.76	175.90N	1415.15W	10.00	264.28	1254597.41	3223032.30
7600.00	53.82	190.880	7346.19	102.34N	1431.98W	10.00	339.46	1254523.85	3223015.47
7700.00	63.40	187.510	7398.22	18.17N	1445.47W	10.00	423.74	1254439.69	3223001.98
7800.00	73.05	184.660	7435.28	74.05S	1455.23W	10.00	514.54	1254347.46	3222992.22
7900.00	82.73	182.100	7456.25	171.54S	1460.95W	10.00	609.12	1254249.98	3222986.50
7975.02	90.00	180.260	7461.00	246.33S	1462.48W	10.00	680.82	1254175.19	3222984.97
8000.00	90.00	180.260	7461.00	271.32S	1462.59W	==>	704.64	1254150.21	3222984.86
8100.00	90.00	180.260	7461.00	371.31S	1463.04W	==>	800.01	1254050.21	3222984.41
8200.00	90.00	180.260	7461.00	471.31S	1463.48W	==>	895.38	1253950.22	3222983.97
8300.00	90.00	180.260	7461.00	571.31S	1463.93W	==>	990.74	1253850.22	3222983.52
8400.00	90.00	180.260	7461.00	671.31S	1464.37W	==>	1086.11	1253750.23	3222983.08
8500.00	90.00	180.260	7461.00	771.31S	1464.82W	==>	1181.48	1253650.23	3222982.63
8600.00	90.00	180.260	7461.00	871.31S	1465.27W	==>	1276.84	1253550.24	3222982.19
8700.00	90.00	180.260	7461.00	971.31S	1465.71W	==>	1372.21	1253450.24	3222981.74
8800.00	90.00	180.260	7461.00	1071.31S	1466.16W	==>	1467.57	1253350.25	3222981.30
8900.00	90.00	180.260	7461.00	1171.31S	1466.60W	==>	1562.94	1253250.25	3222980.85
9000.00	90.00	180.260	7461.00	1271.31S	1467.05W	==>	1658.31	1253150.26	3222980.41
9100.00	90.00	180.260	7461.00	1371.30S	1467.49W	==>	1753.67	1253050.26	3222979.96
9200.00	90.00	180.260	7461.00	1471.30S	1467.94W	==>	1849.04	1252950.27	3222979.51
9300.00	90.00	180.260	7461.00	1571.30S	1468.38W	==>	1944.41	1252850.27	3222979.07

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 4993.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 197.770 degrees
Bottom hole distance is 4857.04 Feet on azimuth 197.77 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
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INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Lehl 30-5 (PWB)

Interpolated Wellpath									
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Northing	Easting
9400.00	90.00	180.260	7461.00	1671.30S	1468.83W	==>		1252750.28	3222978.62
9500.00	90.00	180.260	7461.00	1771.30S	1469.27W	==>	2135.14	1252650.28	3222978.18
9600.00	90.00	180.260	7461.00	1871.30S	1469.72W	==>	2230.50	1252550.29	3222977.73
9700.00	90.00	180.260	7461.00	1971.30S	1470.16W	==>	2325.87	1252450.29	3222977.29
9800.00	90.00	180.260	7461.00	2071.30S	1470.61W	==>	2421.24	1252350.29	3222976.84
9900.00	90.00	180.260	7461.00	2171.30S	1471.05W	==>	2516.60	1252250.30	3222976.40
10000.00	90.00	180.260	7461.00	2271.30S	1471.50W	==>	2611.97	1252150.30	3222975.95
10100.00	90.00	180.260	7461.00	2371.29S	1471.94W	==>	2707.34	1252050.31	3222975.51
10200.00	90.00	180.260	7461.00	2471.29S	1472.39W	==>	2802.70	1251950.31	3222975.06
10300.00	90.00	180.260	7461.00	2571.29S	1472.83W	==>	2898.07	1251850.32	3222974.62
10400.00	90.00	180.260	7461.00	2671.29S	1473.28W	==>	2993.44	1251750.32	3222974.17
10500.00	90.00	180.260	7461.00	2771.29S	1473.73W	==>	3088.80	1251650.33	3222973.73
10600.00	90.00	180.260	7461.00	2871.29S	1474.17W	==>	3184.17	1251550.33	3222973.28
10700.00	90.00	180.260	7461.00	2971.29S	1474.62W	==>	3279.53	1251450.34	3222972.84
10800.00	90.00	180.260	7461.00	3071.29S	1475.06W	==>	3374.90	1251350.34	3222972.39
10900.00	90.00	180.260	7461.00	3171.29S	1475.51W	==>	3470.27	1251250.35	3222971.95
11000.00	90.00	180.260	7461.00	3271.29S	1475.95W	==>	3565.63	1251150.35	3222971.50
11100.00	90.00	180.260	7461.00	3371.28S	1476.40W	==>	3661.00	1251050.36	3222971.06
11200.00	90.00	180.260	7461.00	3471.28S	1476.84W	==>	3756.37	1250950.36	3222970.61
11300.00	90.00	180.260	7461.00	3571.28S	1477.29W	==>	3851.73	1250850.37	3222970.16
11400.00	90.00	180.260	7461.00	3671.28S	1477.73W	==>	3947.10	1250750.37	3222969.72
11500.00	90.00	180.260	7461.00	3771.28S	1478.18W	==>	4042.46	1250650.38	3222969.27
11600.00	90.00	180.260	7461.00	3871.28S	1478.62W	==>	4137.83	1250550.38	3222968.83
11700.00	90.00	180.260	7461.00	3971.28S	1479.07W	==>	4233.20	1250450.39	3222968.38
11800.00	90.00	180.260	7461.00	4071.28S	1479.51W	==>	4328.56	1250350.39	3222967.94
11900.00	90.00	180.260	7461.00	4171.28S	1479.96W	==>	4423.93	1250250.39	3222967.49
12000.00	90.00	180.260	7461.00	4271.28S	1480.40W	==>	4519.30	1250150.40	3222967.05
12100.00	90.00	180.260	7461.00	4371.27S	1480.85W	==>	4614.66	1250050.40	3222966.60
12200.00	90.00	180.260	7461.00	4471.27S	1481.29W	==>	4710.03	1249950.41	3222966.16
12300.00	90.00	180.260	7461.00	4571.27S	1481.74W	==>	4805.39	1249850.41	3222965.71
12354.16	90.00	180.260	7461.00	4625.43S	1481.98W	==>	4857.04	1249796.26	3222965.47

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 4993.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 197.770 degrees
Bottom hole distance is 4857.04 Feet on azimuth 197.77 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 17-Feb-2014



INTEGRATED PETROLEUM TECHNOLOGIES, INC
SYSDRILL
Well Design Combined Report
Wellbore: Lehl 30-5 (PWB)

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 1/2	16.00	16.00	0.00N	0.00E	1250.00	1250.00	0.00N	0.00E
8 3/4	1250.00	1250.00	0.00N	0.00E	7975.00	7461.00	246.33S	1462.48W
6 1/8	7975.00	7461.00	246.33S	1462.48W	12354.00	7461.00	4625.27S	1481.98W

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 Surface Casing	16.00	16.00	0.00N	0.00E	1250.00	1250.00	0.00N	0.00E
7.0in Intermediate Casing	16.00	16.00	0.00N	0.00E	7975.00	7461.00	246.33S	1462.48W
4 1/2in Production Liner	7775.00	7427.49	50.39S	1453.16W	12354.00	7461.00	4625.27S	1481.98W

Targets								
Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting	Last Revised
Lehl 30-5 - T1	246.33S	1462.48W	7461.00	40.02835000	-104.70372000	1254175.19	3222984.97	
Lehl 30-5 - T2	4625.43S	1481.98W	7461.00	40.01633000	-104.70393000	1249796.26	3222965.47	

Survey Tool Program						
Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model	
156085	Planned	12354.16	7461.00	WdW Rate Gyro	Standard	

Notes



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: Lehl 30-5 (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
Proximities beyond 2500.00ft with expansion rate of 0.00ft/1000ft are not reported
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 30-5 (PWB)	14-Feb-2014	17-Feb-2014

Well		
Name	Government ID	Last Revised
Lehl 30-5		14-Feb-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #5	1254421.5137	3224447.3963	40.02899000	-104.69849000	4.23S	64.37W

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
Lehl Pad	3224511.7687	1254425.7386	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
WATTENBERG	3217412.9943	1407601.8800	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
Lehl 30-6	Lehl 30-6 (PWB)	Slot #6	Lehl Pad	16.80	1249.00	7988.44	13.85	1249.00	5.70	1249.00
Lehl 30-4	Lehl 30-4 (PWB)	Slot #4	Lehl Pad	16.80	1300.00	1300.00	13.86	1246.31	5.71	1246.31
Lehl 30-3	Lehl 30-3 (PWB)	Slot #3	Lehl Pad	31.02	1300.00	1300.00	28.08	1246.31	7.82	12335.55
Lehl 30-2	Lehl 30-2 (PWB)	Slot #2	Lehl Pad	47.75	1300.00	1300.00	44.80	1246.31	13.57	12335.55
Lehl 30-1	Lehl 30-1 (PWB)	Slot #1	Lehl Pad	64.51	1300.00	1300.00	61.57	1246.31	15.63	12335.55
MARGUERITE B LEHL #A-1	MARGUERITE B LEHL #A-1 (AWB)	Slot #7	Offsets	158.27	9391.44	9391.44	115.99	9399.20	3.66	9432.01
M B LEHL A #1	M B LEHL A #1 (AWB)	Slot #6	Offsets	196.90	9497.63	9497.63	148.05	9514.03	3.95	9530.44
ELLS #XX 19-4D	ELLS #XX 19-4D (AWB)	Slot #2	Offsets	1038.24	5363.77	5363.77	1007.69	5429.39	30.64	7041.01
GILMORE #1-30	GILMORE #1-30 (AWB)	Slot #8	Offsets	1639.19	8693.82	8693.82	1602.52	8716.00	39.35	9415.61
CHARLES M BROWN GAS UNIT #1	CHARLES M BROWN GAS UNIT #1 (AWB)	Slot #3	Offsets	1915.03	1300.00	1300.00	1903.31	1328.34	92.65	5216.13
DECHANT	DECHANT	Slot #1	Offsets	2170.08	7348.68	7348.68	2137.95	7365.08	63.99	7906.42

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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: Lehl 30-5 (PWB)

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
#1-19	#1-19 (AWB)									
LEHL #1	LEHL #1 (AWB)	Slot #5	Offsets	2432.06	11195.74	11195.74	2375.04	11236.47	38.91	12007.47