



SYSDRILL
Well Design Combined Report
Wellbore: LITZENBERGER 10 (PWB)



| Wellhead Details | | | | | | | |
|------------------|-------------|---------------|--------------|--------------|-------|-------|-----------------------------|
| Name | Latitude | Longitude | Northing | Easting | North | East | Slot Elevation Above Ground |
| LITZENBERGER 10 | 40.24233000 | -105.02141000 | 1331483.1524 | 3133601.6223 | 0.00N | 0.00E | 0.00 |

| Declination | | |
|-------------|----------------------------|-------|
| Date | Source | Time |
| 29-May-2015 | IGRF Model [1900.0-2020.0] | 11:25 |

| Installation Details | | | | | | |
|------------------------------|----------------------------------|-----------------------------------|--------------|--------------|--|-----------------|
| Name | Installation Position (Latitude) | Installation Position (Longitude) | Northing | Easting | Coord System Name | North Alignment |
| Litzenberger Pad - Finalized | 40.24233000 | -105.02141000 | 1331483.1524 | 3133601.6223 | 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 |
| 25.00 | 0.00 | 0.000 | 25.00 | 0.00N | 0.00E | | 0.00 | 1331483.15 | 3133601.62 |
| 500.00 | 0.00 | 99.660 | 500.00 | 0.00N | 0.00E | ==> | 0.00 | 1331483.15 | 3133601.62 |
| 11839.28 | 90.34 | 269.490 | 7168.00 | 242.16S | 3745.25W | ==> | 3753.07 | 1331241.01 | 3129856.54 |

| 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 Slot Datum |
| 25.00 | 0.00 | 0.000 | 25.00 | 0.00N | 0.00E | ==> | 0.00 | |
| 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 | 9 5/8in Surface Casing |
| 500.00 | 0.00 | 99.660 | 500.00 | 0.00N | 0.00E | ==> | 0.00 | |
| 600.00 | 2.00 | 99.660 | 599.98 | 0.29S | 1.72E | 2.00 | -1.70 | |
| 700.00 | 4.00 | 99.660 | 699.84 | 1.17S | 6.88E | 2.00 | -6.79 | |
| 800.00 | 6.00 | 99.660 | 799.45 | 2.63S | 15.47E | 2.00 | -15.27 | |
| 900.00 | 8.00 | 99.660 | 898.70 | 4.68S | 27.48E | 2.00 | -27.13 | |
| 1000.00 | 10.00 | 99.660 | 997.47 | 7.30S | 42.91E | 2.00 | -42.35 | |
| 1100.00 | 10.40 | 99.660 | 1095.84 | 10.32S | 60.63E | ==> | -59.84 | |
| 1200.00 | 10.40 | 99.660 | 1194.19 | 13.35S | 78.43E | ==> | -77.40 | |
| 1300.00 | 10.40 | 99.660 | 1292.55 | 16.38S | 96.22E | ==> | -94.97 | |
| 1400.00 | 10.40 | 99.660 | 1390.91 | 19.40S | 114.02E | ==> | -112.53 | |
| 1500.00 | 10.40 | 99.660 | 1489.26 | 22.43S | 131.81E | ==> | -130.09 | |
| 1600.00 | 10.40 | 99.660 | 1587.62 | 25.46S | 149.61E | ==> | -147.65 | |
| 1700.00 | 10.40 | 99.660 | 1685.98 | 28.49S | 167.40E | ==> | -165.21 | |
| 1800.00 | 10.40 | 99.660 | 1784.34 | 31.52S | 185.20E | ==> | -182.78 | |
| 1900.00 | 10.40 | 99.660 | 1882.69 | 34.55S | 202.99E | ==> | -200.34 | |
| 2000.00 | 10.40 | 99.660 | 1981.05 | 37.58S | 220.79E | ==> | -217.90 | |
| 2100.00 | 10.40 | 99.660 | 2079.41 | 40.60S | 238.58E | ==> | -235.46 | |
| 2200.00 | 10.40 | 99.660 | 2177.77 | 43.63S | 256.38E | ==> | -253.03 | |
| 2300.00 | 10.40 | 99.660 | 2276.12 | 46.66S | 274.17E | ==> | -270.59 | |
| 2400.00 | 10.40 | 99.660 | 2374.48 | 49.69S | 291.97E | ==> | -288.15 | |
| 2500.00 | 10.40 | 99.660 | 2472.84 | 52.72S | 309.76E | ==> | -305.71 | |
| 2600.00 | 10.40 | 99.660 | 2571.20 | 55.75S | 327.56E | ==> | -323.28 | |
| 2700.00 | 10.40 | 99.660 | 2669.55 | 58.77S | 345.35E | ==> | -340.84 | |
| 2800.00 | 10.40 | 99.660 | 2767.91 | 61.80S | 363.15E | ==> | -358.40 | |
| 2900.00 | 10.40 | 99.660 | 2866.27 | 64.83S | 380.94E | ==> | -375.96 | |
| 3000.00 | 10.40 | 99.660 | 2964.63 | 67.86S | 398.73E | ==> | -393.53 | |
| 3100.00 | 10.40 | 99.660 | 3062.98 | 70.89S | 416.53E | ==> | -411.09 | |
| 3200.00 | 10.40 | 99.660 | 3161.34 | 73.92S | 434.32E | ==> | -428.65 | |
| 3300.00 | 10.40 | 99.660 | 3259.70 | 76.94S | 452.12E | ==> | -446.21 | |
| 3400.00 | 10.40 | 99.660 | 3358.05 | 79.97S | 469.91E | ==> | -463.77 | |

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 5105.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 266.300 degrees
Bottom hole distance is 3753.07 Feet on azimuth 266.30 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 23-Jun-2015



SYSDRILL
Well Design Combined Report
Wellbore: LITZENBERGER 10 (PWB)



| Interpolated Wellpath | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|---------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | All Station Comments |
| 3500.00 | 10.40 | 99.660 | 3456.41 | 83.00S | 487.71E | ==> | -481.34 | |
| 3600.00 | 10.40 | 99.660 | 3554.77 | 86.03S | 505.50E | ==> | -498.90 | |
| 3700.00 | 10.40 | 99.660 | 3653.13 | 89.06S | 523.30E | ==> | -516.46 | |
| 3800.00 | 10.40 | 99.660 | 3751.48 | 92.09S | 541.09E | ==> | -534.02 | |
| 3900.00 | 10.40 | 99.660 | 3849.84 | 95.12S | 558.89E | ==> | -551.59 | |
| 4000.00 | 10.40 | 99.660 | 3948.20 | 98.14S | 576.68E | ==> | -569.15 | |
| 4100.00 | 10.40 | 99.660 | 4046.56 | 101.17S | 594.48E | ==> | -586.71 | |
| 4200.00 | 10.40 | 99.660 | 4144.91 | 104.20S | 612.27E | ==> | -604.27 | |
| 4300.00 | 10.40 | 99.660 | 4243.27 | 107.23S | 630.07E | ==> | -621.84 | |
| 4400.00 | 10.40 | 99.660 | 4341.63 | 110.26S | 647.86E | ==> | -639.40 | |
| 4500.00 | 10.40 | 99.660 | 4439.99 | 113.29S | 665.66E | ==> | -656.96 | |
| 4600.00 | 10.40 | 99.660 | 4538.34 | 116.31S | 683.45E | ==> | -674.52 | |
| 4700.00 | 10.40 | 99.660 | 4636.70 | 119.34S | 701.25E | ==> | -692.09 | |
| 4800.00 | 10.40 | 99.660 | 4735.06 | 122.37S | 719.04E | ==> | -709.65 | |
| 4900.00 | 10.40 | 99.660 | 4833.42 | 125.40S | 736.84E | ==> | -727.21 | |
| 5000.00 | 10.40 | 99.660 | 4931.77 | 128.43S | 754.63E | ==> | -744.77 | |
| 5100.00 | 10.40 | 99.660 | 5030.13 | 131.46S | 772.43E | ==> | -762.33 | |
| 5200.00 | 10.40 | 99.660 | 5128.49 | 134.49S | 790.22E | ==> | -779.90 | |
| 5300.00 | 10.40 | 99.660 | 5226.84 | 137.51S | 808.02E | ==> | -797.46 | |
| 5400.00 | 10.40 | 99.660 | 5325.20 | 140.54S | 825.81E | ==> | -815.02 | |
| 5500.00 | 10.40 | 99.660 | 5423.56 | 143.57S | 843.61E | ==> | -832.58 | |
| 5600.00 | 10.40 | 99.660 | 5521.92 | 146.60S | 861.40E | ==> | -850.15 | |
| 5700.00 | 10.40 | 99.660 | 5620.27 | 149.63S | 879.19E | ==> | -867.71 | |
| 5800.00 | 10.40 | 99.660 | 5718.63 | 152.66S | 896.99E | ==> | -885.27 | |
| 5900.00 | 10.40 | 99.660 | 5816.99 | 155.68S | 914.78E | ==> | -902.83 | |
| 6000.00 | 10.40 | 99.660 | 5915.35 | 158.71S | 932.58E | ==> | -920.40 | |
| 6100.00 | 10.40 | 99.660 | 6013.70 | 161.74S | 950.37E | ==> | -937.96 | |
| 6200.00 | 10.40 | 99.660 | 6112.06 | 164.77S | 968.17E | ==> | -955.52 | |
| 6300.00 | 10.40 | 99.660 | 6210.42 | 167.80S | 985.96E | ==> | -973.08 | |
| 6400.00 | 10.40 | 99.660 | 6308.78 | 170.83S | 1003.76E | ==> | -990.64 | |
| 6500.00 | 10.40 | 99.660 | 6407.13 | 173.86S | 1021.55E | ==> | -1008.21 | |
| 6600.00 | 10.40 | 99.660 | 6505.49 | 176.88S | 1039.35E | ==> | -1025.77 | |
| 6700.00 | 2.43 | 139.310 | 6604.68 | 180.00S | 1050.65E | 10.00 | -1036.84 | |
| 6800.00 | 8.63 | 257.140 | 6704.33 | 183.29S | 1044.70E | 10.00 | -1030.70 | |
| 6900.00 | 18.52 | 263.920 | 6801.42 | 186.65S | 1021.53E | 10.00 | -1007.36 | |
| 7000.00 | 28.49 | 266.050 | 6893.01 | 189.98S | 981.84E | 10.00 | -967.54 | |
| 7100.00 | 38.47 | 267.140 | 6976.31 | 193.19S | 926.84E | 10.00 | -912.45 | |
| 7200.00 | 48.46 | 267.830 | 7048.80 | 196.17S | 858.21E | 10.00 | -843.76 | |
| 7300.00 | 58.45 | 268.330 | 7108.27 | 198.83S | 778.01E | 10.00 | -763.56 | |
| 7400.00 | 68.44 | 268.740 | 7152.91 | 201.10S | 688.70E | 10.00 | -674.29 | 7.0in Intermediate Casing |
| 7483.00 | 76.74 | 269.040 | 7177.72 | 202.63S | 609.59E | 10.00 | -595.25 | |
| 7500.00 | 78.44 | 269.100 | 7181.38 | 202.90S | 592.99E | 10.00 | -578.66 | |
| 7600.00 | 88.43 | 269.420 | 7192.80 | 204.18S | 493.78E | 10.00 | -479.58 | |
| 7700.00 | 90.34 | 269.490 | 7192.52 | 205.08S | 393.79E | ==> | -379.73 | |
| 7800.00 | 90.34 | 269.490 | 7191.93 | 205.98S | 293.79E | ==> | -279.89 | |
| 7900.00 | 90.34 | 269.490 | 7191.34 | 206.87S | 193.80E | ==> | -180.05 | |
| 8000.00 | 90.34 | 269.490 | 7190.74 | 207.77S | 93.80E | ==> | -80.20 | |
| 8100.00 | 90.34 | 269.490 | 7190.15 | 208.66S | 6.19W | ==> | 19.64 | |
| 8200.00 | 90.34 | 269.490 | 7189.56 | 209.56S | 106.18W | ==> | 119.48 | |
| 8300.00 | 90.34 | 269.490 | 7188.97 | 210.46S | 206.18W | ==> | 219.33 | |
| 8400.00 | 90.34 | 269.490 | 7188.37 | 211.35S | 306.17W | ==> | 319.17 | |
| 8500.00 | 90.34 | 269.490 | 7187.78 | 212.25S | 406.17W | ==> | 419.02 | |
| 8600.00 | 90.34 | 269.490 | 7187.19 | 213.14S | 506.16W | ==> | 518.86 | |
| 8700.00 | 90.34 | 269.490 | 7186.60 | 214.04S | 606.16W | ==> | 618.70 | |
| 8800.00 | 90.34 | 269.490 | 7186.00 | 214.93S | 706.15W | ==> | 718.55 | |
| 8900.00 | 90.34 | 269.490 | 7185.41 | 215.83S | 806.14W | ==> | 818.39 | |
| 9000.00 | 90.34 | 269.490 | 7184.82 | 216.73S | 906.14W | ==> | 918.23 | |
| 9100.00 | 90.34 | 269.490 | 7184.23 | 217.62S | 1006.13W | ==> | 1018.08 | |
| 9200.00 | 90.34 | 269.490 | 7183.63 | 218.52S | 1106.13W | ==> | 1117.92 | |
| 9300.00 | 90.34 | 269.490 | 7183.04 | 219.41S | 1206.12W | ==> | 1217.76 | |

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 5105.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 266.300 degrees
Bottom hole distance is 3753.07 Feet on azimuth 266.30 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 23-Jun-2015



SYSDRILL
Well Design Combined Report
Wellbore: LITZENBERGER 10 (PWB)



| Interpolated Wellpath | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|--------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | All Station Comments |
| 9400.00 | 90.34 | 269.490 | 7182.45 | 220.31S | 1306.11W | ==> | 1317.61 | |
| 9500.00 | 90.34 | 269.490 | 7181.86 | 221.20S | 1406.11W | ==> | 1417.45 | |
| 9600.00 | 90.34 | 269.490 | 7181.27 | 222.10S | 1506.10W | ==> | 1517.30 | |
| 9700.00 | 90.34 | 269.490 | 7180.67 | 223.00S | 1606.10W | ==> | 1617.14 | |
| 9800.00 | 90.34 | 269.490 | 7180.08 | 223.89S | 1706.09W | ==> | 1716.98 | |
| 9900.00 | 90.34 | 269.490 | 7179.49 | 224.79S | 1806.09W | ==> | 1816.83 | |
| 10000.00 | 90.34 | 269.490 | 7178.90 | 225.68S | 1906.08W | ==> | 1916.67 | |
| 10100.00 | 90.34 | 269.490 | 7178.30 | 226.58S | 2006.07W | ==> | 2016.51 | |
| 10200.00 | 90.34 | 269.490 | 7177.71 | 227.47S | 2106.07W | ==> | 2116.36 | |
| 10300.00 | 90.34 | 269.490 | 7177.12 | 228.37S | 2206.06W | ==> | 2216.20 | |
| 10400.00 | 90.34 | 269.490 | 7176.53 | 229.27S | 2306.06W | ==> | 2316.04 | |
| 10500.00 | 90.34 | 269.490 | 7175.93 | 230.16S | 2406.05W | ==> | 2415.89 | |
| 10600.00 | 90.34 | 269.490 | 7175.34 | 231.06S | 2506.05W | ==> | 2515.73 | |
| 10700.00 | 90.34 | 269.490 | 7174.75 | 231.95S | 2606.04W | ==> | 2615.58 | |
| 10800.00 | 90.34 | 269.490 | 7174.16 | 232.85S | 2706.03W | ==> | 2715.42 | |
| 10900.00 | 90.34 | 269.490 | 7173.56 | 233.74S | 2806.03W | ==> | 2815.26 | |
| 11000.00 | 90.34 | 269.490 | 7172.97 | 234.64S | 2906.02W | ==> | 2915.11 | |
| 11100.00 | 90.34 | 269.490 | 7172.38 | 235.54S | 3006.02W | ==> | 3014.95 | |
| 11200.00 | 90.34 | 269.490 | 7171.79 | 236.43S | 3106.01W | ==> | 3114.79 | |
| 11300.00 | 90.34 | 269.490 | 7171.19 | 237.33S | 3206.01W | ==> | 3214.64 | |
| 11400.00 | 90.34 | 269.490 | 7170.60 | 238.22S | 3306.00W | ==> | 3314.48 | |
| 11500.00 | 90.34 | 269.490 | 7170.01 | 239.12S | 3405.99W | ==> | 3414.32 | |
| 11600.00 | 90.34 | 269.490 | 7169.42 | 240.01S | 3505.99W | ==> | 3514.17 | |
| 11700.00 | 90.34 | 269.490 | 7168.83 | 240.91S | 3605.98W | ==> | 3614.01 | |
| 11800.00 | 90.34 | 269.490 | 7168.23 | 241.81S | 3705.98W | ==> | 3713.86 | |
| 11839.28 | 90.34 | 269.490 | 7168.00 | 242.16S | 3745.25W | ==> | 3753.07 | 4 1/2in Production Liner |

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 5105.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 266.300 degrees
Bottom hole distance is 3753.07 Feet on azimuth 266.30 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 23-Jun-2015



SYSDRILL
Well Design Combined Report
Wellbore: LITZENBERGER 10 (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] |
| 12 1/4 | 25.00 | 25.00 | 0.00N | 0.00E | 500.00 | 500.00 | 0.00N | 0.00E |
| 8 3/4 | 500.00 | 500.00 | 0.00N | 0.00E | 7483.00 | 7177.72 | 202.63S | 609.59E |
| 6 1/8 | 7483.00 | 7177.72 | 202.63S | 609.59E | 11839.28 | 7168.00 | 242.16S | 3745.25W |

| 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 | 25.00 | 25.00 | 0.00N | 0.00E | 500.00 | 500.00 | 0.00N | 0.00E |
| 7.0in Intermediate Casing | 25.00 | 25.00 | 0.00N | 0.00E | 7483.00 | 7177.72 | 202.63S | 609.59E |
| 4 1/2in Production Liner | 6717.00 | 6621.67 | 180.55S | 1050.87E | 11839.28 | 7168.00 | 242.16S | 3745.25W |

| Targets | | | | | | | |
|--------------------|-----------|----------|---------|-------------|---------------|------------|------------|
| Name | North[ft] | East[ft] | TVD[ft] | Latitude | Longitude | Northing | Easting |
| LITZENBERGER 10 LP | 204.36S | 609.71E | 7178.00 | 40.24176000 | -105.01923000 | 1331278.80 | 3134211.30 |
| LITZENBERGER 10 BH | 242.16S | 3745.25W | 7168.00 | 40.24172000 | -105.03483000 | 1331241.01 | 3129856.54 |

| Survey Tool Program | | | | | | |
|---------------------|-------------|----------|---------|-------------|------------------------------|--|
| Reference | Survey Name | MD[ft] | TVD[ft] | Survey Tool | Error Model | |
| 391529 | Planned | 11839.28 | 7168.00 | ISCWSA MWD | Rev 3 + Fixed Rig + Rotating | |

| Notes |
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SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: LITZENBERGER 10 (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 |
| LITZENBERGER 10 (PWB) | 19-Jun-2015 | 19-Jun-2015 |

| Well | | |
|-----------------|---------------|--------------|
| Name | Government ID | Last Revised |
| LITZENBERGER 10 | | 16-Jun-2015 |

| Slot | | | | | | |
|-----------------|-------------|---------------|---------------|--------------|-------|-------|
| Name | Latitude | Longitude | Grid Northing | Grid Easting | North | East |
| LITZENBERGER 10 | 40.24233000 | -105.02141000 | 1331483.1524 | 3133601.6223 | 0.00N | 0.00E |

| Installation | | | | | | |
|------------------------------|----------------------------------|-----------------------------------|--------------|--------------|--|-----------------|
| Name | Installation Position (Latitude) | Installation Position (Longitude) | Easting | Northing | Coord System Name | North Alignment |
| Litzenberger Pad - Finalized | 40.24233000 | -105.02141000 | 3133601.6223 | 1331483.1524 | CO83-NF on NORTH AMERICAN DATUM 1983 datum | Grid |

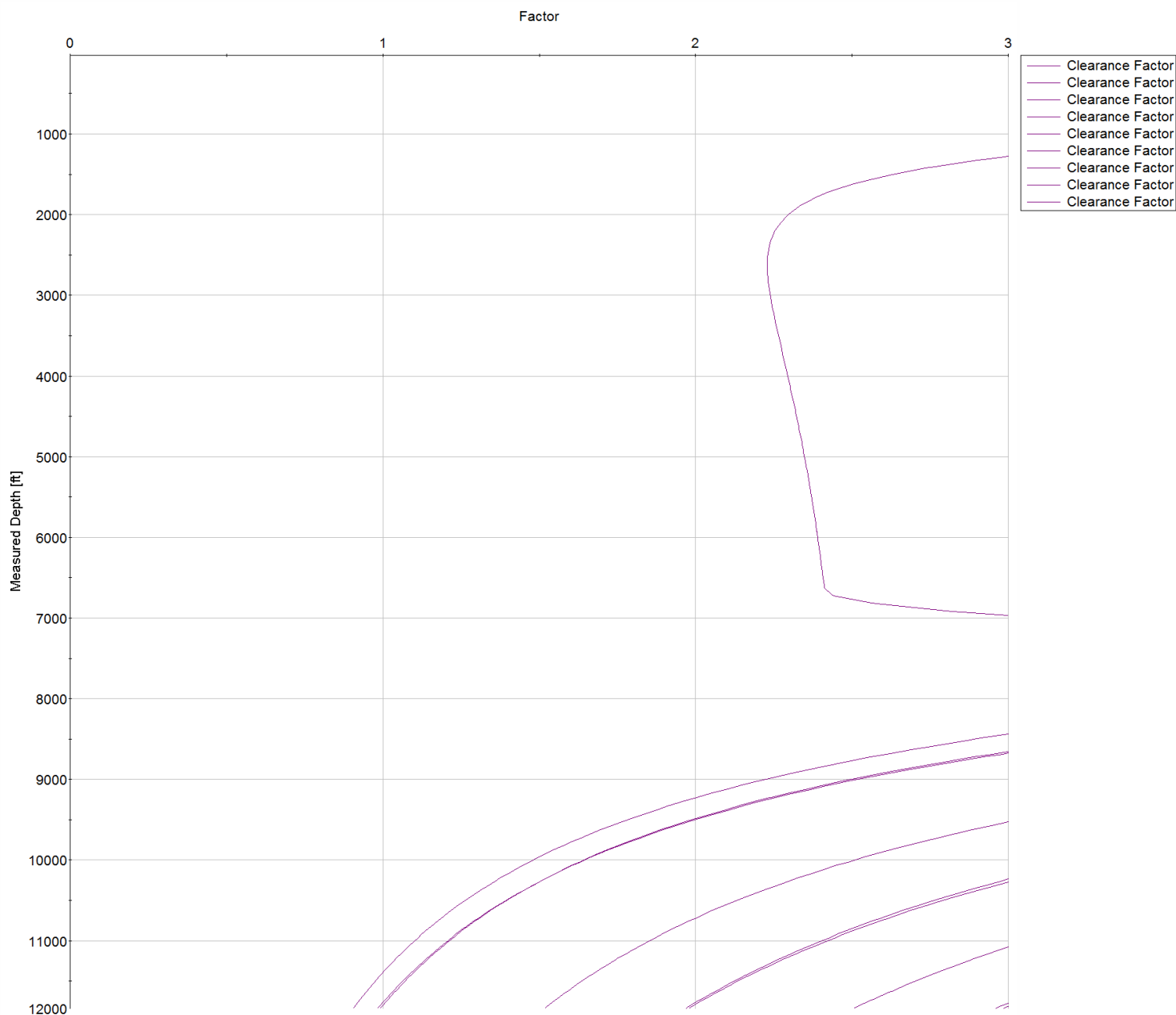
| Clearance Summary | | | | | | | |
|-------------------|-----------------|---------|--------------------|-------------------------|----------------|------------------|------------------|
| Offset WellName | Separation [ft] | MD[ft] | Diverging From[ft] | Ellipse Separation [ft] | Ellipse MD[ft] | Clearance Factor | Clearance MD[ft] |
| LITZENBERGER 11 | 13.96 | 500.72 | 7619.07 | -26.04 | 11839.28 | 0.91 | 11839.28 |
| LITZENBERGER 13 | 24.63 | 702.50 | 702.50 | 19.88 | 730.38 | 1.97 | 11839.28 |
| LITZENBERGER 12 | 27.92 | 500.72 | 500.72 | -2.69 | 11839.28 | 0.99 | 11839.28 |
| LITZENBERGER 14 | 29.07 | 500.72 | 7619.07 | 25.42 | 484.32 | 2.51 | 11839.28 |
| LITZENBERGER 15 | 37.81 | 500.72 | 500.72 | 34.15 | 484.32 | 2.96 | 11839.28 |
| LITZENBERGER 9 | 44.67 | 500.72 | 11836.02 | -5.67 | 11839.28 | 0.98 | 11839.28 |
| LITZENBERGER 16 | 51.43 | 500.72 | 11839.28 | 47.78 | 484.32 | 3.90 | 11839.28 |
| LITZENBERGER 8 | 58.63 | 500.72 | 7619.07 | 54.97 | 484.32 | 1.52 | 11839.28 |
| LITZENBERGER 17 | 63.93 | 500.72 | 7619.07 | 60.28 | 484.32 | 4.30 | 11839.28 |
| LITZENBERGER 7 | 72.58 | 500.72 | 11836.70 | 68.93 | 484.32 | 1.98 | 11839.28 |
| LITZENBERGER 18 | 76.93 | 500.72 | 500.72 | 73.28 | 484.32 | 4.92 | 11839.28 |
| Kintz #2 | 76.98 | 1374.47 | 9047.31 | 67.42 | 1374.47 | 7.96 | 1419.36 |
| LITZENBERGER 6 | 89.33 | 500.72 | 500.72 | 85.68 | 484.32 | 2.98 | 11839.28 |
| LITZENBERGER 19 | 92.90 | 500.72 | 500.72 | 89.24 | 484.32 | 5.93 | 11839.28 |
| LITZENBERGER 5 | 103.29 | 500.72 | 11836.02 | 99.63 | 484.32 | 3.32 | 11839.28 |
| LITZENBERGER 20 | 106.39 | 500.72 | 11839.28 | 102.74 | 484.32 | 6.18 | 11839.28 |
| LITZENBERGER 4 | 117.25 | 500.72 | 11836.02 | 113.59 | 484.32 | 3.96 | 11839.28 |
| LITZENBERGER 21 | 119.99 | 500.72 | 500.72 | 116.33 | 484.32 | 6.88 | 11839.28 |
| LITZENBERGER 3 | 134.00 | 500.72 | 500.72 | 130.34 | 484.32 | 4.97 | 11839.28 |
| LITZENBERGER 22 | 136.41 | 500.72 | 500.72 | 132.75 | 484.32 | 7.92 | 11839.28 |
| Kintz #1 | 139.95 | 1439.56 | 7946.36 | 123.59 | 1484.97 | 5.30 | 7981.04 |



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: LITZENBERGER 10 (PWB)



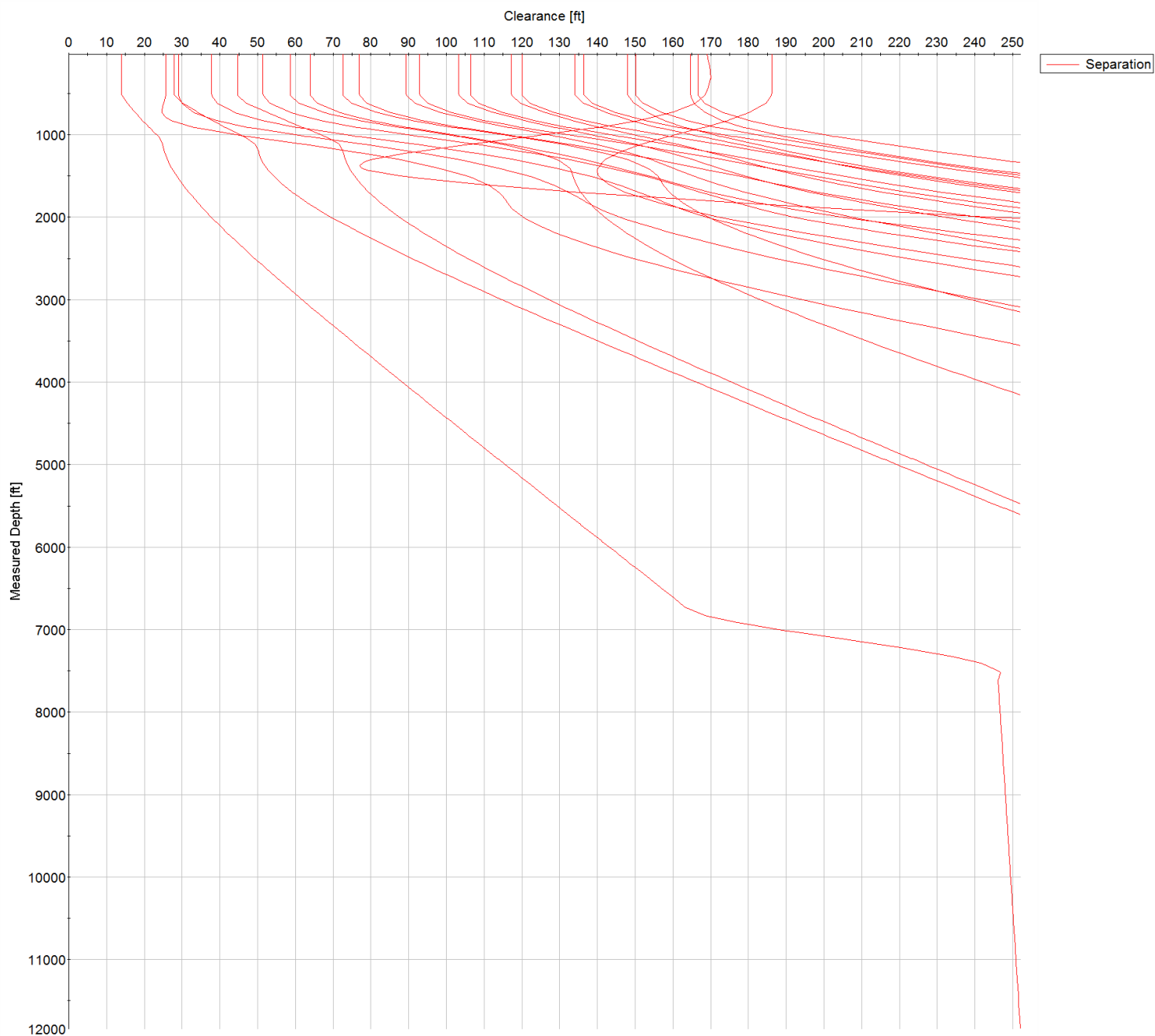
| Clearance Summary | | | | | | | |
|-------------------|-----------------|----------|--------------------|-------------------------|----------------|------------------|------------------|
| Offset WellName | Separation [ft] | MD[ft] | Diverging From[ft] | Ellipse Separation [ft] | Ellipse MD[ft] | Clearance Factor | Clearance MD[ft] |
| LITZENBERGER 2 | 147.96 | 500.72 | 11836.02 | 144.30 | 484.32 | 5.16 | 11839.28 |
| LITZENBERGER 23 | 150.14 | 500.72 | 500.72 | 146.48 | 484.32 | 7.98 | 11839.28 |
| LITZENBERGER 1 | 164.70 | 500.72 | 11836.02 | 160.98 | 498.00 | 5.94 | 11839.28 |
| LITZENBERGER 24 | 166.67 | 500.72 | 500.72 | 162.93 | 500.00 | 8.83 | 11839.28 |
| Billings #2A-18H | 3230.96 | 10073.16 | 10073.16 | 2837.00 | 10097.18 | 8.20 | 10097.18 |
| Billings #2B-18H | 3576.91 | 11839.28 | 11839.28 | 3185.15 | 11799.76 | 9.12 | 10219.87 |



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 5105.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 266.300 degrees
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 23-Jun-2015



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