

Job Number: 700004483-WT-WT  
 Company: BOPCO  
 Lease/Well: Poker Lake Unit # 325H  
 Location: Eddy County  
 Rig Name: Latshaw Drilling # 3  
 RKB: 22  
 G.L. or M.S.L.: ☐

State/Country: NM  
 Declination: 7.66  
 Grid: 7.42  
 File name: C:\DOCUME~1\DD\DESKTOP\4483.SVY  
 Date/Time: 10-Jan-12 / 10:36  
 Curve Name: SURVEYS

## SURVEYS

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 325.22  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | CLOSURE<br>Distance<br>FT | Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|---------------------------|------------------|-------------------------------|
| GYRODATA TIE-IN         |                      |                           |                           |           |           |                           |                           |                  |                               |
| 6967.00                 | .96                  | 204.22                    | 6965.55                   | -78.55    | -21.87    | -52.04                    | 81.54                     | 195.56           | .00                           |
| 7095.00                 | .97                  | 214.14                    | 7093.53                   | -80.42    | -22.92    | -52.98                    | 83.63                     | 195.91           | .13                           |
| 7126.00                 | 1.06                 | 220.29                    | 7124.53                   | -80.86    | -23.25    | -53.15                    | 84.14                     | 196.04           | .46                           |
| 7157.00                 | 1.49                 | 312.31                    | 7155.52                   | -80.81    | -23.73    | -52.83                    | 84.22                     | 196.37           | 6.00                          |
| 7188.00                 | 5.63                 | 332.18                    | 7186.46                   | -79.19    | -24.74    | -50.93                    | 82.97                     | 197.35           | 13.74                         |
| 7219.00                 | 8.62                 | 341.05                    | 7217.21                   | -75.65    | -26.21    | -47.18                    | 80.06                     | 199.11           | 10.25                         |
| 7250.00                 | 10.38                | 337.98                    | 7247.79                   | -70.86    | -28.01    | -42.23                    | 76.20                     | 201.57           | 5.91                          |
| 7281.00                 | 13.45                | 333.49                    | 7278.12                   | -65.04    | -30.67    | -35.93                    | 71.91                     | 205.24           | 10.34                         |
| 7312.00                 | 17.85                | 332.97                    | 7307.96                   | -57.58    | -34.44    | -27.65                    | 67.09                     | 210.88           | 14.20                         |
| 7344.00                 | 22.34                | 333.26                    | 7338.00                   | -47.78    | -39.40    | -16.77                    | 61.93                     | 219.51           | 14.03                         |
| 7375.00                 | 25.50                | 333.30                    | 7366.34                   | -36.55    | -45.05    | -4.32                     | 58.02                     | 230.95           | 10.19                         |
| 7406.00                 | 27.79                | 332.18                    | 7394.04                   | -24.20    | -51.43    | 9.46                      | 56.83                     | 244.80           | 7.56                          |

30-015-39392

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 7437.00                 | 29.63                | 332.00                    | 7421.23                   | -11.04    | -58.40    | 24.24                     | 59.43          | 259.30           | 5.94                          |
| 7468.00                 | 31.66                | 333.76                    | 7447.90                   | 3.03      | -65.59    | 39.90                     | 65.66          | 272.64           | 7.16                          |
| 7499.00                 | 33.59                | 333.85                    | 7474.01                   | 18.02     | -72.97    | 56.43                     | 75.16          | 283.87           | 6.23                          |
| 7532.00                 | 36.93                | 332.79                    | 7500.95                   | 35.04     | -81.53    | 75.28                     | 88.74          | 293.26           | 10.29                         |
| 7563.00                 | 42.03                | 332.97                    | 7524.87                   | 52.58     | -90.51    | 94.81                     | 104.67         | 300.15           | 16.46                         |
| 7595.00                 | 47.04                | 332.97                    | 7547.67                   | 72.56     | -100.70   | 117.04                    | 124.12         | 305.77           | 15.66                         |
| 7626.00                 | 52.06                | 332.79                    | 7567.78                   | 93.55     | -111.46   | 140.42                    | 145.51         | 310.01           | 16.20                         |
| 7657.00                 | 56.37                | 332.00                    | 7585.90                   | 115.83    | -123.11   | 165.36                    | 169.03         | 313.25           | 14.06                         |
| 7688.00                 | 61.55                | 332.00                    | 7601.88                   | 139.27    | -135.58   | 191.73                    | 194.36         | 315.77           | 16.71                         |
| 7719.00                 | 67.36                | 332.53                    | 7615.25                   | 164.02    | -148.58   | 219.47                    | 221.31         | 317.83           | 18.81                         |
| 7750.00                 | 73.25                | 333.58                    | 7625.69                   | 190.03    | -161.80   | 248.37                    | 249.58         | 319.59           | 19.27                         |
| 7781.00                 | 78.52                | 333.49                    | 7633.25                   | 216.93    | -175.19   | 278.11                    | 278.84         | 321.08           | 17.00                         |
| 7813.00                 | 82.66                | 333.67                    | 7638.48                   | 245.20    | -189.24   | 309.34                    | 309.73         | 322.34           | 12.95                         |
| 7844.00                 | 85.03                | 333.23                    | 7641.80                   | 272.77    | -203.01   | 339.84                    | 340.02         | 323.34           | 7.77                          |
| 7875.00                 | 87.32                | 333.32                    | 7643.87                   | 300.39    | -216.92   | 370.46                    | 370.53         | 324.17           | 7.39                          |
| 7907.00                 | 87.85                | 333.14                    | 7645.22                   | 328.94    | -231.32   | 402.12                    | 402.13         | 324.88           | 1.75                          |
| 7938.00                 | 88.72                | 332.97                    | 7646.14                   | 356.56    | -245.36   | 432.82                    | 432.82         | 325.47           | 2.86                          |
| 7969.00                 | 89.08                | 333.23                    | 7646.74                   | 384.20    | -259.38   | 463.52                    | 463.56         | 325.98           | 1.43                          |
| 8015.00                 | 91.80                | 334.20                    | 7646.39                   | 425.44    | -279.75   | 509.01                    | 509.17         | 326.67           | 6.28                          |
| 8116.00                 | 91.28                | 332.88                    | 7643.67                   | 515.82    | -324.74   | 608.91                    | 609.53         | 327.81           | 1.40                          |
| 8180.00                 | 91.19                | 333.93                    | 7642.29                   | 573.04    | -353.38   | 672.24                    | 673.24         | 328.34           | 1.65                          |
| 8243.00                 | 89.43                | 330.07                    | 7641.95                   | 628.65    | -382.95   | 734.78                    | 736.10         | 328.65           | 6.73                          |
| 8339.00                 | 90.13                | 323.83                    | 7642.32                   | 709.07    | -435.28   | 830.69                    | 832.02         | 328.46           | 6.54                          |
| 8435.00                 | 92.42                | 322.60                    | 7640.18                   | 785.93    | -492.75   | 926.60                    | 927.63         | 327.91           | 2.71                          |
| 8532.00                 | 92.24                | 321.98                    | 7636.24                   | 862.61    | -552.03   | 1023.39                   | 1024.12        | 327.38           | .67                           |
| 8628.00                 | 92.15                | 321.63                    | 7632.56                   | 938.00    | -611.35   | 1119.15                   | 1119.64        | 326.91           | .38                           |
| 8723.00                 | 93.47                | 323.56                    | 7627.91                   | 1013.37   | -668.98   | 1213.93                   | 1214.27        | 326.57           | 2.46                          |
| 8817.00                 | 91.89                | 324.35                    | 7623.51                   | 1089.29   | -724.23   | 1307.80                   | 1308.07        | 326.38           | 1.88                          |
| 8912.00                 | 90.04                | 324.62                    | 7621.91                   | 1166.60   | -779.41   | 1402.78                   | 1403.01        | 326.25           | 1.97                          |
| 9008.00                 | 89.96                | 322.51                    | 7621.91                   | 1243.83   | -836.42   | 1498.73                   | 1498.90        | 326.08           | 2.20                          |
| 9104.00                 | 93.30                | 322.33                    | 7619.18                   | 1319.87   | -894.93   | 1594.57                   | 1594.67        | 325.86           | 3.48                          |
| 9200.00                 | 93.12                | 322.51                    | 7613.80                   | 1395.83   | -953.39   | 1690.30                   | 1690.35        | 325.67           | .26                           |
| 9295.00                 | 91.98                | 324.44                    | 7609.58                   | 1472.09   | -1009.87  | 1785.16                   | 1785.19        | 325.55           | 2.36                          |
| 9391.00                 | 92.07                | 323.12                    | 7606.19                   | 1549.49   | -1066.56  | 1881.06                   | 1881.08        | 325.46           | 1.38                          |

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 9486.00                 | 91.10                | 323.56                    | 7603.56                   | 1625.67   | -1123.26  | 1975.98                   | 1975.98        | 325.36           | 1.12                          |
| 9581.00                 | 92.24                | 323.30                    | 7600.79                   | 1701.93   | -1179.83  | 2070.89                   | 2070.89        | 325.27           | 1.23                          |
| 9676.00                 | 91.45                | 322.77                    | 7597.73                   | 1777.80   | -1236.93  | 2165.77                   | 2165.77        | 325.17           | 1.00                          |
| 9769.00                 | 90.75                | 323.12                    | 7595.95                   | 1852.00   | -1292.96  | 2258.68                   | 2258.68        | 325.08           | .84                           |
| 9866.00                 | 91.19                | 324.53                    | 7594.30                   | 1930.29   | -1350.20  | 2355.63                   | 2355.64        | 325.03           | 1.52                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 9960.00                 | 89.69                | 323.65                    | 7593.58                   | 2006.42   | -1405.33  | 2449.61                   | 2449.63        | 324.99           | 1.85                          |
| 10055.00                | 91.45                | 325.50                    | 7592.64                   | 2083.82   | -1460.39  | 2544.59                   | 2544.61        | 324.98           | 2.69                          |
| 10150.00                | 89.96                | 325.85                    | 7591.47                   | 2162.27   | -1513.95  | 2639.57                   | 2639.59        | 325.00           | 1.61                          |
| 10246.00                | 90.04                | 325.10                    | 7591.47                   | 2241.36   | -1568.36  | 2735.57                   | 2735.59        | 325.02           | .79                           |
| 10340.00                | 91.45                | 324.08                    | 7590.24                   | 2317.96   | -1622.82  | 2829.56                   | 2829.58        | 325.00           | 1.85                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 10435.00                | 90.84                | 325.02                    | 7588.35                   | 2395.33   | -1677.91  | 2924.53                   | 2924.55        | 324.99           | 1.18                          |
| 10530.00                | 89.78                | 326.24                    | 7587.83                   | 2473.74   | -1731.54  | 3019.52                   | 3019.54        | 325.01           | 1.70                          |
| 10625.00                | 90.75                | 325.45                    | 7587.39                   | 2552.36   | -1784.87  | 3114.51                   | 3114.53        | 325.03           | 1.32                          |
| 10721.00                | 90.57                | 325.58                    | 7586.29                   | 2631.48   | -1839.22  | 3210.51                   | 3210.52        | 325.05           | .23                           |
| 10816.00                | 89.25                | 326.15                    | 7586.44                   | 2710.11   | -1892.53  | 3305.50                   | 3305.51        | 325.07           | 1.51                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 10911.00                | 91.63                | 325.84                    | 7585.71                   | 2788.86   | -1945.66  | 3400.48                   | 3400.49        | 325.10           | 2.53                          |
| 11007.00                | 90.66                | 326.23                    | 7583.79                   | 2868.46   | -1999.28  | 3496.45                   | 3496.45        | 325.12           | 1.09                          |
| 11103.00                | 91.10                | 325.79                    | 7582.31                   | 2948.05   | -2052.94  | 3592.43                   | 3592.43        | 325.15           | .65                           |
| 11198.00                | 90.04                | 326.11                    | 7581.37                   | 3026.76   | -2106.13  | 3687.41                   | 3687.41        | 325.17           | 1.17                          |
| 11294.00                | 91.71                | 325.63                    | 7579.90                   | 3106.21   | -2159.98  | 3783.39                   | 3783.39        | 325.19           | 1.81                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 11388.00                | 90.31                | 325.36                    | 7578.25                   | 3183.66   | -2213.22  | 3877.37                   | 3877.37        | 325.19           | 1.52                          |
| 11484.00                | 90.48                | 324.91                    | 7577.58                   | 3262.42   | -2268.10  | 3973.37                   | 3973.37        | 325.19           | .50                           |
| 11579.00                | 91.45                | 324.67                    | 7575.98                   | 3340.03   | -2322.87  | 4068.35                   | 4068.36        | 325.18           | 1.05                          |
| 11676.00                | 90.66                | 325.02                    | 7574.20                   | 3419.32   | -2378.71  | 4165.33                   | 4165.34        | 325.17           | .89                           |
| 11770.00                | 91.98                | 324.27                    | 7572.03                   | 3495.97   | -2433.08  | 4259.30                   | 4259.30        | 325.16           | 1.61                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 11867.00                | 88.81                | 324.78                    | 7571.36                   | 3574.95   | -2489.37  | 4356.28                   | 4356.28        | 325.15           | 3.31                          |
| 11962.00                | 89.69                | 324.96                    | 7572.61                   | 3652.64   | -2544.03  | 4451.27                   | 4451.27        | 325.14           | .95                           |
| 12058.00                | 91.28                | 324.48                    | 7571.80                   | 3731.00   | -2599.47  | 4547.26                   | 4547.26        | 325.13           | 1.73                          |
| 12154.00                | 90.48                | 324.53                    | 7570.32                   | 3809.15   | -2655.21  | 4643.24                   | 4643.25        | 325.12           | .83                           |
| 12250.00                | 91.19                | 324.26                    | 7568.92                   | 3887.19   | -2711.09  | 4739.22                   | 4739.23        | 325.11           | .79                           |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 12344.00                | 91.10                | 323.62                    | 7567.04                   | 3963.17   | -2766.41  | 4833.18                   | 4833.19        | 325.08           | .69                           |
| 12440.00                | 90.66                | 323.87                    | 7565.57                   | 4040.57   | -2823.18  | 4929.13                   | 4929.15        | 325.06           | .53                           |
| 12535.00                | 92.33                | 322.66                    | 7563.09                   | 4116.68   | -2879.97  | 5024.04                   | 5024.07        | 325.02           | 2.17                          |
| 12631.00                | 91.63                | 323.07                    | 7559.77                   | 4193.16   | -2937.89  | 5119.90                   | 5119.94        | 324.98           | .84                           |

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 12726.00                | 89.08                | 324.48                    | 7559.19                   | 4269.79   | -2994.03  | 5214.86                   | 5214.91        | 324.96           | 3.07                          |
| 12822.00                | 88.37                | 325.20                    | 7561.32                   | 4348.25   | -3049.30  | 5310.83                   | 5310.89        | 324.96           | 1.05                          |
| 12918.00                | 89.08                | 324.40                    | 7563.46                   | 4426.68   | -3104.62  | 5406.80                   | 5406.86        | 324.96           | 1.11                          |
| 13012.00                | 89.87                | 323.64                    | 7564.32                   | 4502.74   | -3159.84  | 5500.78                   | 5500.84        | 324.94           | 1.17                          |
| 13108.00                | 90.92                | 324.63                    | 7563.66                   | 4580.54   | -3216.08  | 5596.76                   | 5596.83        | 324.93           | 1.50                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 13204.00                | 89.69                | 327.95                    | 7563.15                   | 4660.38   | -3269.35  | 5692.72                   | 5692.79        | 324.95           | 3.69                          |
| 13300.00                | 90.40                | 326.01                    | 7563.07                   | 4740.87   | -3321.66  | 5788.67                   | 5788.72        | 324.98           | 2.15                          |
| 13396.00                | 88.81                | 322.18                    | 7563.73                   | 4818.61   | -3377.95  | 5884.63                   | 5884.69        | 324.97           | 4.32                          |
| 13491.00                | 91.28                | 322.68                    | 7563.66                   | 4893.90   | -3435.87  | 5979.51                   | 5979.59        | 324.93           | 2.65                          |
| 13587.00                | 89.69                | 320.10                    | 7562.85                   | 4968.91   | -3495.76  | 6075.28                   | 6075.39        | 324.87           | 3.16                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 13682.00                | 89.87                | 323.34                    | 7563.21                   | 5043.47   | -3554.61  | 6170.09                   | 6170.24        | 324.82           | 3.42                          |
| 13777.00                | 90.66                | 323.80                    | 7562.77                   | 5119.90   | -3611.02  | 6265.05                   | 6265.21        | 324.81           | .96                           |
| 13873.00                | 90.04                | 325.19                    | 7562.18                   | 5198.05   | -3666.77  | 6361.04                   | 6361.21        | 324.80           | 1.59                          |
| 13969.00                | 91.10                | 327.11                    | 7561.23                   | 5277.77   | -3720.24  | 6457.01                   | 6457.17        | 324.82           | 2.28                          |
| 14063.00                | 89.96                | 325.35                    | 7560.36                   | 5355.90   | -3772.49  | 6550.99                   | 6551.13        | 324.84           | 2.23                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 14158.00                | 91.10                | 327.46                    | 7559.48                   | 5435.02   | -3825.05  | 6645.96                   | 6646.09        | 324.86           | 2.52                          |
| 14254.00                | 91.28                | 327.00                    | 7557.49                   | 5515.73   | -3877.00  | 6741.88                   | 6741.99        | 324.90           | .51                           |
| 14349.00                | 93.39                | 328.29                    | 7553.62                   | 5595.91   | -3927.79  | 6836.71                   | 6836.79        | 324.93           | 2.60                          |
| 14381.00                | 93.65                | 328.44                    | 7551.65                   | 5623.10   | -3944.54  | 6868.60                   | 6868.67        | 324.95           | .94                           |
| Straight line to TD.    |                      |                           |                           |           |           |                           |                |                  |                               |
| 14441.00                | 93.65                | 328.44                    | 7547.83                   | 5674.12   | -3975.88  | 6928.38                   | 6928.44        | 324.98           | .00                           |

# A Gyrodata Directional Survey

for

**BOPCO LP**

**Lease: POKER LAKE UNIT      Well: 325H, 5" DRILLPIPE**  
**Location: LATSHAW # 3, EDDY COUNTY, NEW MEXICO**

Job Number: MD1211GDM516

Run Date: 16 Dec 2011

Surveyor: Michael Hattar

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 32.204214 deg. N    Longitude: 103.874064 deg. W

Azimuth Correction:

Gyro: -0.24000 deg to Grid North

Depth Reference: Rotary Table

Rotary Table Elevation: 23.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

# A Gyrodata Directional Survey

BOPCO LP

Lease: POKER LAKE UNIT Well: 325H, 5" DRILLPIPE

Location: LATSHAW # 3, EDDY COUNTY, NEW MEXICO

Job Number: MD1211GDM516

| MEASURED<br>DEPTH<br>feet                                                                                  | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| -----                                                                                                      |              |                 |                                        |                           |                                       |                                   |
| 0 TO 7000 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5" DRILL PIPE                                    |              |                 |                                        |                           |                                       |                                   |
| ALL MEASURED DEPTHS AND COORDINATES ARE REFERENCED TO LATSHAW DRILLING RIG # 3 AND R.K.B. HEIGHT OF 23 FT. |              |                 |                                        |                           |                                       |                                   |
| -----                                                                                                      |              |                 |                                        |                           |                                       |                                   |
| 100.00                                                                                                     | 0.38         | 146.70          | 0.38                                   | 100.00                    | 0.3 146.7                             | 0.28 S 0.18 E                     |
| 200.00                                                                                                     | 0.46         | 130.40          | 0.14                                   | 200.00                    | 1.1 140.6                             | 0.81 S 0.67 E                     |
| 300.00                                                                                                     | 0.64         | 141.41          | 0.21                                   | 299.99                    | 2.0 138.8                             | 1.51 S 1.32 E                     |
| 400.00                                                                                                     | 0.53         | 144.52          | 0.11                                   | 399.99                    | 3.0 140.1                             | 2.32 S 1.94 E                     |
| 500.00                                                                                                     | 0.60         | 165.12          | 0.21                                   | 499.98                    | 4.0 143.8                             | 3.21 S 2.34 E                     |
| 600.00                                                                                                     | 1.03         | 158.92          | 0.44                                   | 599.97                    | 5.3 148.4                             | 4.55 S 2.80 E                     |
| 700.00                                                                                                     | 1.68         | 170.09          | 0.70                                   | 699.94                    | 7.6 153.7                             | 6.83 S 3.38 E                     |
| 800.00                                                                                                     | 2.37         | 176.68          | 0.73                                   | 799.88                    | 11.0 160.1                            | 10.34 S 3.75 E                    |
| 893.70                                                                                                     | 2.60         | 181.65          | 0.34                                   | 893.49                    | 14.9 165.2                            | 14.40 S 3.80 E                    |
| 987.00                                                                                                     | 2.80         | 184.99          | 0.27                                   | 986.69                    | 19.1 169.3                            | 18.79 S 3.54 E                    |
| 1080.30                                                                                                    | 2.77         | 189.29          | 0.23                                   | 1079.88                   | 23.5 172.7                            | 23.28 S 2.98 E                    |
| 1173.50                                                                                                    | 2.29         | 195.54          | 0.59                                   | 1172.99                   | 27.4 175.6                            | 27.30 S 2.12 E                    |
| 1266.80                                                                                                    | 2.24         | 198.34          | 0.13                                   | 1266.21                   | 30.8 178.1                            | 30.82 S 1.04 E                    |
| 1360.10                                                                                                    | 2.27         | 196.17          | 0.10                                   | 1359.44                   | 34.3 180.1                            | 34.33 S 0.05 W                    |
| 1453.30                                                                                                    | 2.17         | 191.96          | 0.21                                   | 1452.57                   | 37.8 181.4                            | 37.83 S 0.92 W                    |
| 1546.60                                                                                                    | 1.82         | 191.13          | 0.38                                   | 1545.82                   | 41.0 182.2                            | 41.01 S 1.58 W                    |
| 1639.90                                                                                                    | 1.05         | 196.09          | 0.84                                   | 1639.09                   | 43.3 182.8                            | 43.29 S 2.10 W                    |

# A Gyrodata Directional Survey

BOPCO LP

Lease: POKER LAKE UNIT Well: 325H, 5" DRILLPIPE

Location: LATSHAW # 3, EDDY COUNTY, NEW MEXICO

Job Number: MD1211GDM516

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 1733.20                   | 0.70         | 206.73          | 0.41                                   | 1732.38                   | 44.7 183.3                            | 44.62 S 2.59 W                    |
| 1826.40                   | 0.64         | 205.51          | 0.07                                   | 1825.57                   | 45.7 183.9                            | 45.59 S 3.07 W                    |
| 1919.70                   | 0.56         | 171.14          | 0.39                                   | 1918.86                   | 46.6 184.0                            | 46.52 S 3.23 W                    |
| 2013.00                   | 0.77         | 171.22          | 0.23                                   | 2012.16                   | 47.7 183.7                            | 47.59 S 3.06 W                    |
| 2106.20                   | 0.90         | 163.38          | 0.19                                   | 2105.35                   | 49.0 183.2                            | 48.91 S 2.76 W                    |
| 2199.50                   | 0.72         | 140.01          | 0.40                                   | 2198.64                   | 50.1 182.5                            | 50.06 S 2.17 W                    |
| 2292.80                   | 0.58         | 158.07          | 0.26                                   | 2291.93                   | 51.0 181.8                            | 50.94 S 1.62 W                    |
| 2386.00                   | 0.66         | 162.34          | 0.10                                   | 2385.13                   | 51.9 181.4                            | 51.89 S 1.28 W                    |
| 2479.30                   | 0.68         | 167.29          | 0.07                                   | 2478.42                   | 53.0 181.1                            | 52.95 S 0.99 W                    |
| 2572.60                   | 1.00         | 176.58          | 0.37                                   | 2571.71                   | 54.3 180.9                            | 54.30 S 0.82 W                    |
| 2665.80                   | 0.95         | 183.52          | 0.14                                   | 2664.90                   | 55.9 180.8                            | 55.88 S 0.82 W                    |
| 2759.10                   | 0.19         | 158.67          | 0.84                                   | 2758.19                   | 56.8 180.8                            | 56.80 S 0.81 W                    |
| 2852.40                   | 0.02         | 146.40          | 0.18                                   | 2851.49                   | 57.0 180.8                            | 56.95 S 0.75 W                    |
| 2945.70                   | 0.11         | 279.06          | 0.13                                   | 2944.79                   | 57.0 180.8                            | 56.95 S 0.83 W                    |
| 3038.90                   | 0.20         | 9.24            | 0.25                                   | 3037.99                   | 56.8 180.9                            | 56.78 S 0.89 W                    |
| 3132.20                   | 0.80         | 73.45           | 0.79                                   | 3131.29                   | 56.4 180.2                            | 56.43 S 0.24 W                    |
| 3225.50                   | 1.21         | 88.29           | 0.52                                   | 3224.57                   | 56.2 178.6                            | 56.22 S 1.37 E                    |
| 3318.70                   | 0.74         | 98.95           | 0.54                                   | 3317.76                   | 56.4 177.0                            | 56.28 S 2.95 E                    |
| 3412.00                   | 1.28         | 108.58          | 0.60                                   | 3411.05                   | 56.9 175.4                            | 56.71 S 4.53 E                    |
| 3505.30                   | 2.15         | 117.50          | 0.97                                   | 3504.30                   | 58.3 173.0                            | 57.85 S 7.07 E                    |
| 3598.60                   | 2.27         | 126.93          | 0.41                                   | 3597.53                   | 60.6 170.4                            | 59.77 S 10.10 E                   |
| 3691.80                   | 1.48         | 139.52          | 0.95                                   | 3690.68                   | 63.0 168.7                            | 61.79 S 12.36 E                   |

# A Gyrodata Directional Survey

BOPCO LP

Lease: POKER LAKE UNIT Well: 325H, 5" DRILLPIPE

Location: LATSHAW # 3, EDDY COUNTY, NEW MEXICO

Job Number: MD1211GDM516

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 3785.10                   | 0.14         | 229.88          | 1.59                                   | 3783.97                   | 64.1 168.3                            | 62.78 S 13.05 E                   |
| 3878.40                   | 0.29         | 289.24          | 0.27                                   | 3877.27                   | 64.1 168.5                            | 62.78 S 12.74 E                   |
| 3971.60                   | 0.27         | 292.43          | 0.03                                   | 3970.47                   | 63.8 168.9                            | 62.62 S 12.32 E                   |
| 4064.90                   | 0.25         | 288.18          | 0.03                                   | 4063.77                   | 63.6 169.2                            | 62.47 S 11.92 E                   |
| 4158.20                   | 0.23         | 293.00          | 0.03                                   | 4157.07                   | 63.4 169.5                            | 62.33 S 11.55 E                   |
| 4251.40                   | 0.23         | 283.02          | 0.04                                   | 4250.27                   | 63.2 169.8                            | 62.22 S 11.20 E                   |
| 4344.70                   | 0.26         | 278.51          | 0.04                                   | 4343.57                   | 63.1 170.1                            | 62.14 S 10.81 E                   |
| 4438.00                   | 0.45         | 266.30          | 0.22                                   | 4436.87                   | 63.0 170.6                            | 62.14 S 10.23 E                   |
| 4531.30                   | 0.53         | 268.72          | 0.09                                   | 4530.16                   | 62.9 171.4                            | 62.17 S 9.44 E                    |
| 4624.50                   | 0.65         | 269.45          | 0.13                                   | 4623.36                   | 62.8 172.2                            | 62.18 S 8.48 E                    |
| 4717.80                   | 0.85         | 268.16          | 0.22                                   | 4716.65                   | 62.6 173.3                            | 62.21 S 7.26 E                    |
| 4811.10                   | 0.92         | 265.55          | 0.09                                   | 4809.94                   | 62.6 174.7                            | 62.29 S 5.82 E                    |
| 4904.30                   | 0.92         | 263.30          | 0.04                                   | 4903.13                   | 62.6 176.0                            | 62.44 S 4.33 E                    |
| 4997.60                   | 0.88         | 262.69          | 0.04                                   | 4996.41                   | 62.7 177.4                            | 62.61 S 2.87 E                    |
| 5090.90                   | 0.88         | 262.48          | 0.00                                   | 5089.70                   | 62.8 178.7                            | 62.80 S 1.45 E                    |
| 5184.10                   | 0.85         | 264.88          | 0.05                                   | 5182.89                   | 63.0 180.0                            | 62.95 S 0.05 E                    |
| 5277.40                   | 0.88         | 275.10          | 0.17                                   | 5276.18                   | 63.0 181.2                            | 62.95 S 1.35 W                    |
| 5370.70                   | 0.95         | 273.30          | 0.08                                   | 5369.47                   | 62.9 182.6                            | 62.84 S 2.83 W                    |
| 5463.90                   | 0.91         | 269.85          | 0.07                                   | 5462.66                   | 63.0 184.0                            | 62.80 S 4.35 W                    |
| 5557.20                   | 0.75         | 266.07          | 0.18                                   | 5555.95                   | 63.1 185.2                            | 62.85 S 5.70 W                    |
| 5650.50                   | 0.64         | 257.00          | 0.17                                   | 5649.24                   | 63.4 186.2                            | 63.01 S 6.81 W                    |

# A Gyrodata Directional Survey

BOPCO LP

Lease: POKER LAKE UNIT Well: 325H, 5" DRILLPIPE

Location: LATSHAW # 3, EDDY COUNTY, NEW MEXICO

Job Number: MD1211GDM516

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 5743.80                   | 0.54         | 248.00          | 0.15                                   | 5742.54                   | 63.8 187.0                            | 63.29 S 7.73 W                    |
| 5837.00                   | 0.58         | 232.60          | 0.17                                   | 5835.73                   | 64.3 187.6                            | 63.74 S 8.51 W                    |
| 5930.30                   | 0.81         | 223.39          | 0.27                                   | 5929.03                   | 65.2 188.2                            | 64.50 S 9.34 W                    |
| 6023.60                   | 0.89         | 221.34          | 0.09                                   | 6022.32                   | 66.3 188.9                            | 65.53 S 10.27 W                   |
| 6116.80                   | 1.14         | 228.62          | 0.30                                   | 6115.50                   | 67.7 189.7                            | 66.68 S 11.44 W                   |
| 6210.10                   | 1.23         | 233.63          | 0.15                                   | 6208.78                   | 69.1 190.8                            | 67.89 S 12.95 W                   |
| 6303.40                   | 1.25         | 235.08          | 0.04                                   | 6302.06                   | 70.6 191.9                            | 69.07 S 14.59 W                   |
| 6396.60                   | 1.21         | 228.79          | 0.15                                   | 6395.24                   | 72.1 192.9                            | 70.30 S 16.16 W                   |
| 6489.90                   | 1.05         | 226.13          | 0.18                                   | 6488.52                   | 73.7 193.8                            | 71.54 S 17.52 W                   |
| 6583.20                   | 0.97         | 215.96          | 0.21                                   | 6581.80                   | 75.1 194.3                            | 72.77 S 18.60 W                   |
| 6676.50                   | 1.02         | 212.50          | 0.08                                   | 6675.09                   | 76.6 194.7                            | 74.11 S 19.51 W                   |
| 6769.70                   | 1.00         | 210.92          | 0.04                                   | 6768.28                   | 78.2 195.1                            | 75.51 S 20.37 W                   |
| 6863.00                   | 1.01         | 203.51          | 0.14                                   | 6861.56                   | 79.8 195.3                            | 76.96 S 21.12 W                   |
| 6925.00                   | 0.95         | 207.21          | 0.14                                   | 6923.55                   | 80.8 195.5                            | 77.92 S 21.57 W                   |
| 6967.00                   | 0.96         | 204.22          | 0.12                                   | 6965.55                   | 81.5 195.6                            | 78.55 S 21.87 W                   |

Final Station Closure: Distance: 81.54 ft Az: 195.56 deg.

GAMMA-RAY

# PATHFINDER

2" = 100'

FEET MD

| COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API No.: 30-015-39392                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API WELL No.: 30-015-39392 |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------|---------|-------|------------------|---------|-------|--------------|---------|-------|-----------------|---------|-------|--------|------|-------|---------|---|------|-------|------|------|---------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|---------|------|------|--|--|--|---------|------|------|--|--|--|---------|------|------|--|--|--|---------|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------|--|--|----------------|---------|-------|-------|---|------|---|------|------|-------|------|-------|--|--|--|--|--|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WELL LOCATION<br>940' FNL 2250' FWL<br>X:642,055' Y:438,315' NAD27<br>SEC:022 TWP:24S RANGE:30E                                                                         | OTHER SERVICES<br><br>DIRECTIONAL<br>ROP |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DEPTH REF. : ROTARY TABLE<br>ELEVATION : 22.00 ft (ROTARY TABLE - GROUND LEVEL)<br>ALTITUDE : 3383.00 ft (GROUND LEVEL - MEAN SEA LEVEL)                                |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| <table border="1"> <thead> <tr> <th colspan="3">BOREHOLE RECORD</th> <th colspan="3">DEVIATION RECORD</th> </tr> <tr> <th>HOLE SIZE in</th> <th>FROM ft</th> <th>TO ft</th> <th>INCLINATION deg</th> <th>FROM ft</th> <th>TO ft</th> </tr> </thead> <tbody> <tr> <td>12 1/4</td> <td>0</td> <td>7011</td> <td>00 - 30</td> <td>0</td> <td>7437</td> </tr> <tr> <td>8 3/4</td> <td>7011</td> <td>8075</td> <td>30 - 62</td> <td>7437</td> <td>7688</td> </tr> <tr> <td>6 1/8</td> <td>8075</td> <td>14441</td> <td>62 - 90</td> <td>7688</td> <td>7969</td> </tr> <tr> <td></td> <td></td> <td></td> <td>90 - 94</td> <td>7969</td> <td>8723</td> </tr> <tr> <td></td> <td></td> <td></td> <td>94 - 90</td> <td>8723</td> <td>8912</td> </tr> <tr> <td></td> <td></td> <td></td> <td>90 +/-3</td> <td>8912</td> <td>14441</td> </tr> <tr> <td colspan="3"> <table border="1"> <thead> <tr> <th colspan="3">CASING RECORD</th> </tr> <tr> <th>CASING SIZE in</th> <th>FROM ft</th> <th>TO ft</th> </tr> </thead> <tbody> <tr> <td>9 5/8</td> <td>0</td> <td>7011</td> </tr> <tr> <td>7</td> <td>7011</td> <td>8075</td> </tr> <tr> <td>5 1/2</td> <td>8075</td> <td>14441</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> </td> <td colspan="3">           DRILLING Co.: LATSHAW<br/>           RIG : 3<br/>           LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS<br/>           SPUD DATE : 06-DEC-11<br/>           LWD START DATE : 07-DEC-11 DEPTH : 1300 ft<br/>           LWD END DATE : 09-JAN-11 DEPTH : 14441 ft<br/>           TOTAL DEPTH : 14441 ft         </td> </tr> </tbody> </table> |                                                                                                                                                                         |                                          | BOREHOLE RECORD  |         |       | DEVIATION RECORD |         |       | HOLE SIZE in | FROM ft | TO ft | INCLINATION deg | FROM ft | TO ft | 12 1/4 | 0    | 7011  | 00 - 30 | 0 | 7437 | 8 3/4 | 7011 | 8075 | 30 - 62 | 7437 | 7688 | 6 1/8                                                                                                                                                                                                                         | 8075 | 14441 | 62 - 90 | 7688 | 7969 |  |  |  | 90 - 94 | 7969 | 8723 |  |  |  | 94 - 90 | 8723 | 8912 |  |  |  | 90 +/-3 | 8912 | 14441 | <table border="1"> <thead> <tr> <th colspan="3">CASING RECORD</th> </tr> <tr> <th>CASING SIZE in</th> <th>FROM ft</th> <th>TO ft</th> </tr> </thead> <tbody> <tr> <td>9 5/8</td> <td>0</td> <td>7011</td> </tr> <tr> <td>7</td> <td>7011</td> <td>8075</td> </tr> <tr> <td>5 1/2</td> <td>8075</td> <td>14441</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |  | CASING RECORD |  |  | CASING SIZE in | FROM ft | TO ft | 9 5/8 | 0 | 7011 | 7 | 7011 | 8075 | 5 1/2 | 8075 | 14441 |  |  |  |  |  |  |  |  |  | DRILLING Co.: LATSHAW<br>RIG : 3<br>LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS<br>SPUD DATE : 06-DEC-11<br>LWD START DATE : 07-DEC-11 DEPTH : 1300 ft<br>LWD END DATE : 09-JAN-11 DEPTH : 14441 ft<br>TOTAL DEPTH : 14441 ft |  |  |
| BOREHOLE RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          | DEVIATION RECORD |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| HOLE SIZE in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FROM ft                                                                                                                                                                 | TO ft                                    | INCLINATION deg  | FROM ft | TO ft |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 12 1/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                                                                                                                                                       | 7011                                     | 00 - 30          | 0       | 7437  |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 8 3/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7011                                                                                                                                                                    | 8075                                     | 30 - 62          | 7437    | 7688  |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 6 1/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8075                                                                                                                                                                    | 14441                                    | 62 - 90          | 7688    | 7969  |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          | 90 - 94          | 7969    | 8723  |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          | 94 - 90          | 8723    | 8912  |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          | 90 +/-3          | 8912    | 14441 |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| <table border="1"> <thead> <tr> <th colspan="3">CASING RECORD</th> </tr> <tr> <th>CASING SIZE in</th> <th>FROM ft</th> <th>TO ft</th> </tr> </thead> <tbody> <tr> <td>9 5/8</td> <td>0</td> <td>7011</td> </tr> <tr> <td>7</td> <td>7011</td> <td>8075</td> </tr> <tr> <td>5 1/2</td> <td>8075</td> <td>14441</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                         |                                          | CASING RECORD    |         |       | CASING SIZE in   | FROM ft | TO ft | 9 5/8        | 0       | 7011  | 7               | 7011    | 8075  | 5 1/2  | 8075 | 14441 |         |   |      |       |      |      |         |      |      | DRILLING Co.: LATSHAW<br>RIG : 3<br>LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS<br>SPUD DATE : 06-DEC-11<br>LWD START DATE : 07-DEC-11 DEPTH : 1300 ft<br>LWD END DATE : 09-JAN-11 DEPTH : 14441 ft<br>TOTAL DEPTH : 14441 ft |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| CASING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                         |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| CASING SIZE in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FROM ft                                                                                                                                                                 | TO ft                                    |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 9 5/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                                                                                                                                                                       | 7011                                     |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7011                                                                                                                                                                    | 8075                                     |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
| 5 1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8075                                                                                                                                                                    | 14441                                    |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                          |                  |         |       |                  |         |       |              |         |       |                 |         |       |        |      |       |         |   |      |       |      |      |         |      |      |                                                                                                                                                                                                                               |      |       |         |      |      |  |  |  |         |      |      |  |  |  |         |      |      |  |  |  |         |      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |               |  |  |                |         |       |       |   |      |   |      |      |       |      |       |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                               |  |  |

GAMMA-RAY

# PATHFINDER

2" = 100'  
FEET TVD

|                                                                                                                                                                    |                                                                                                                                                                         |       |                                                                                                                                                                                                                                         |         |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|
| COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API No.: 30-015-39392 | COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API WELL No.: 30-015-39392 |       |                                                                                                                                                                                                                                         |         |       |
|                                                                                                                                                                    | WELL LOCATION<br>940' FNL      2250' FWL<br>X:642,055' Y:438,315' NAD27<br>SEC:022      TWP:24S      RANGE:30E                                                          |       | OTHER SERVICE<br><br>DIRECTIONAL<br>ROP                                                                                                                                                                                                 |         |       |
|                                                                                                                                                                    | DEPTH REF. : ROTARY TABLE<br>ELEVATION : 22.00 ft (ROTARY TABLE - GROUND LEVEL)<br>ALTITUDE : 3383.00 ft (GROUND LEVEL - MEAN SEA LEVEL)                                |       |                                                                                                                                                                                                                                         |         |       |
| BOREHOLE RECORD                                                                                                                                                    |                                                                                                                                                                         |       | DEVIATION RECORD                                                                                                                                                                                                                        |         |       |
| HOLE SIZE in                                                                                                                                                       | FROM ft                                                                                                                                                                 | TO ft | INCLINATION deg                                                                                                                                                                                                                         | FROM ft | TO ft |
| 12 1/4                                                                                                                                                             | 0                                                                                                                                                                       | 7011  | 00 - 30                                                                                                                                                                                                                                 | 0       | 7437  |
| 8 3/4                                                                                                                                                              | 7011                                                                                                                                                                    | 8075  | 30 - 62                                                                                                                                                                                                                                 | 7437    | 7688  |
| 6 1/8                                                                                                                                                              | 8075                                                                                                                                                                    | 14441 | 62 - 90                                                                                                                                                                                                                                 | 7688    | 7969  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 90 - 94                                                                                                                                                                                                                                 | 7969    | 8723  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 94 - 90                                                                                                                                                                                                                                 | 8723    | 8912  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 90 +/-3                                                                                                                                                                                                                                 | 8912    | 14441 |
| CASING RECORD                                                                                                                                                      |                                                                                                                                                                         |       |                                                                                                                                                                                                                                         |         |       |
| CASING SIZE in                                                                                                                                                     | FROM ft                                                                                                                                                                 | TO ft |                                                                                                                                                                                                                                         |         |       |
| 9 5/8                                                                                                                                                              | 0                                                                                                                                                                       | 7011  |                                                                                                                                                                                                                                         |         |       |
| 7                                                                                                                                                                  | 7011                                                                                                                                                                    | 8075  |                                                                                                                                                                                                                                         |         |       |
| 5 1/2                                                                                                                                                              | 8075                                                                                                                                                                    | 14441 |                                                                                                                                                                                                                                         |         |       |
|                                                                                                                                                                    |                                                                                                                                                                         |       |                                                                                                                                                                                                                                         |         |       |
|                                                                                                                                                                    |                                                                                                                                                                         |       |                                                                                                                                                                                                                                         |         |       |
|                                                                                                                                                                    |                                                                                                                                                                         |       |                                                                                                                                                                                                                                         |         |       |
|                                                                                                                                                                    |                                                                                                                                                                         |       | DRILLING Co.: LATSHAW<br>RIG : 3<br>LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS<br>SPUD DATE : 06-DEC-11<br>LWD START DATE : 07-DEC-11      DEPTH : 1300 ft<br>LWD END DATE : 09-JAN-11      DEPTH : 14441 ft<br>TOTAL DEPTH : 14441 ft |         |       |

GAMMA-RAY

# PATHFINDER

5" = 100'  
FEET TVD

COMPANY : BOPCO, L.P.  
WELL : POKER LAKE UNIT #325H  
FIELD : POKER LAKE NW (DELAWARE)  
COUNTY : EDDY  
STATE : NM  
COUNTRY : USA  
API No.: 30-015-39392

COMPANY : BOPCO, L.P.

WELL : POKER LAKE UNIT #325H

FIELD : POKER LAKE NW (DELAWARE)

COUNTY : EDDY

STATE : NM

COUNTRY : USA

API WELL No.: 30-015-39392

WELL LOCATION

940' FNL      2250' FWL

X:642,055' Y:438,315' NAD27

SEC: 022

TWP: 24S

RANGE: 30E

OTHER SERVICES

DIRECTIONAL  
ROP

DEPTH REF. : ROTARY TABLE

ELEVATION : 22.00 ft (ROTARY TABLE - GROUND LEVEL)

ALTITUDE : 3383.00 ft (GROUND LEVEL - MEAN SEA LEVEL)

## BOREHOLE RECORD

## DEVIATION RECORD

| HOLE SIZE     | in | FROM | ft | TO    | ft | INCLINATION | deg | FROM | ft | TO    | ft |
|---------------|----|------|----|-------|----|-------------|-----|------|----|-------|----|
| 12 1/4        |    | 0    |    | 7011  |    | 00 - 30     |     | 0    |    | 7437  |    |
| 8 3/4         |    | 7011 |    | 8075  |    | 30 - 62     |     | 7437 |    | 7688  |    |
| 6 1/8         |    | 8075 |    | 14441 |    | 62 - 90     |     | 7688 |    | 7969  |    |
|               |    |      |    |       |    | 90 - 94     |     | 7969 |    | 8723  |    |
|               |    |      |    |       |    | 94 - 90     |     | 8723 |    | 8912  |    |
|               |    |      |    |       |    | 90 +/-3     |     | 8912 |    | 14441 |    |
| CASING RECORD |    |      |    |       |    |             |     |      |    |       |    |
| CASING SIZE   | in | FROM | ft | TO    | ft |             |     |      |    |       |    |
| 9 5/8         |    | 0    |    | 7011  |    |             |     |      |    |       |    |
| 7             |    | 7011 |    | 8075  |    |             |     |      |    |       |    |
| 5 1/2         |    | 8075 |    | 14441 |    |             |     |      |    |       |    |
|               |    |      |    |       |    |             |     |      |    |       |    |
|               |    |      |    |       |    |             |     |      |    |       |    |
|               |    |      |    |       |    |             |     |      |    |       |    |
|               |    |      |    |       |    |             |     |      |    |       |    |

DRILLING Co.: LATSHAW

RIG : 3

LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS

SPUD DATE : 06-DEC-11

LWD START DATE : 07-DEC-11 DEPTH : 1300 ft

LWD END DATE : 09-JAN-11 DEPTH : 14441 ft

TOTAL DEPTH : 14441 ft

GAMMA-RAY

# PATHFINDER

5" = 100'

FEET MD

|                                                                                                                                                                    |                                                                                                                                                                         |       |                                                                                                                                                                                                                                     |                                          |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------|--|
| COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API No.: 30-015-39392 | COMPANY : BOPCO, L.P.<br>WELL : POKER LAKE UNIT #325H<br>FIELD : POKER LAKE NW (DELAWARE)<br>COUNTY : EDDY<br>STATE : NM<br>COUNTRY : USA<br>API WELL No.: 30-015-39392 |       |                                                                                                                                                                                                                                     |                                          |       |  |
|                                                                                                                                                                    | WELL LOCATION<br>940' FNL      2250' FWL<br>X:642,055' Y:438,315' NAD27<br>SEC:022      TWP:24S      RANGE:30E                                                          |       |                                                                                                                                                                                                                                     | OTHER SERVICES<br><br>DIRECTIONAL<br>ROP |       |  |
|                                                                                                                                                                    | DEPTH REF. : ROTARY TABLE<br>ELEVATION : 22.00 ft (ROTARY TABLE - GROUND LEVEL)<br>ALTITUDE : 3383.00 ft (GROUND LEVEL - MEAN SEA LEVEL)                                |       |                                                                                                                                                                                                                                     |                                          |       |  |
| BOREHOLE RECORD                                                                                                                                                    |                                                                                                                                                                         |       | DEVIATION RECORD                                                                                                                                                                                                                    |                                          |       |  |
| HOLE SIZE in                                                                                                                                                       | FROM ft                                                                                                                                                                 | TO ft | INCLINATION deg                                                                                                                                                                                                                     | FROM ft                                  | TO ft |  |
| 12 1/4                                                                                                                                                             | 0                                                                                                                                                                       | 7011  | 00 - 30                                                                                                                                                                                                                             | 0                                        | 7437  |  |
| 8 3/4                                                                                                                                                              | 7011                                                                                                                                                                    | 8075  | 30 - 62                                                                                                                                                                                                                             | 7437                                     | 7688  |  |
| 6 1/8                                                                                                                                                              | 8075                                                                                                                                                                    | 14441 | 62 - 90                                                                                                                                                                                                                             | 7688                                     | 7969  |  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 90 - 94                                                                                                                                                                                                                             | 7969                                     | 8723  |  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 94 - 90                                                                                                                                                                                                                             | 8723                                     | 8912  |  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | 90 +/-3                                                                                                                                                                                                                             | 8912                                     | 14441 |  |
| CASING RECORD                                                                                                                                                      |                                                                                                                                                                         |       |                                                                                                                                                                                                                                     |                                          |       |  |
| CASING SIZE in                                                                                                                                                     | FROM ft                                                                                                                                                                 | TO ft |                                                                                                                                                                                                                                     |                                          |       |  |
| 9 5/8                                                                                                                                                              | 0                                                                                                                                                                       | 7011  |                                                                                                                                                                                                                                     |                                          |       |  |
| 7                                                                                                                                                                  | 7011                                                                                                                                                                    | 8075  |                                                                                                                                                                                                                                     |                                          |       |  |
| 5 1/2                                                                                                                                                              | 8075                                                                                                                                                                    | 14441 |                                                                                                                                                                                                                                     |                                          |       |  |
|                                                                                                                                                                    |                                                                                                                                                                         |       | DRILLING Co.: LATSHAW<br>RIG : 3<br>LWD UNIT No.: TRAILER DISTRICT : WEST TEXAS<br>SPUD DATE : 06-DEC-11<br>LWD START DATE : 07-DEC-11    DEPTH : 1300 ft<br>LWD END DATE : 09-JAN-11    DEPTH : 14441 ft<br>TOTAL DEPTH : 14441 ft |                                          |       |  |