



Gyroscopic Survey Report
for
K.P. KAUFFMAN CO. INC
1675 BROADWAY SUITE 2800
DENVER, CO 80202

| | |
|--------------------|--|
| Well Location | WELD COUNTY, CO |
| Well Name | SIDNEY STREAR # 6 |
| Rig Number | FMC |
| Survey Date | 5/14/2014 |
| Latitude | 40.1182380°N |
| Longitude | 104.8698760°W |
| North Reference | True North |
| Grid Correction | None |
| Depth Reference | GROUND LEVEL (4985.00 ft) |
| Calculation Method | Minimum Curvature |
| Section (VS) Ref | 0.00N (ft), 0.00E (ft), 235.36Azim (deg) |
| Definitive Survey | SIDNEY STREAR # 6 |
| Operator(s) | C JAQUES |

Well Notes

Well Name: SIDNEY STREAR # 6
Survey: SIDNEY STREAR # 6
Survey Date: 5/14/2014

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Invalid | 0.00 | 0.00 |
| 100.14 | 0.66 | 140.37 | 100.14 | -0.05 | -0.45 | 0.37 | 0.66 | 0.58 | 140.37 |
| 125.94 | 0.56 | 150.33 | 125.94 | -0.05 | -0.67 | 0.53 | 0.56 | 0.85 | 141.84 |
| 150.05 | 0.39 | 170.73 | 150.04 | -0.01 | -0.86 | 0.60 | 0.99 | 1.04 | 145.00 |
| 175.41 | 0.35 | 174.84 | 175.41 | 0.07 | -1.02 | 0.62 | 0.21 | 1.19 | 148.66 |
| 200.88 | 0.33 | 179.94 | 200.88 | 0.15 | -1.17 | 0.63 | 0.13 | 1.33 | 151.79 |
| 225.54 | 0.32 | 184.81 | 225.53 | 0.23 | -1.31 | 0.62 | 0.13 | 1.45 | 154.60 |
| 250.80 | 0.23 | 217.34 | 250.80 | 0.33 | -1.42 | 0.58 | 0.69 | 1.53 | 157.60 |
| 275.43 | 0.22 | 219.54 | 275.42 | 0.42 | -1.49 | 0.52 | 0.05 | 1.58 | 160.67 |
| 300.63 | 0.19 | 208.82 | 300.63 | 0.50 | -1.57 | 0.47 | 0.19 | 1.64 | 163.24 |
| 325.84 | 0.20 | 210.09 | 325.83 | 0.58 | -1.65 | 0.43 | 0.04 | 1.70 | 165.37 |
| 350.73 | 0.22 | 221.69 | 350.72 | 0.67 | -1.72 | 0.38 | 0.18 | 1.76 | 167.65 |
| 375.95 | 0.24 | 213.28 | 375.94 | 0.76 | -1.80 | 0.32 | 0.15 | 1.83 | 170.03 |
| 400.79 | 0.24 | 223.53 | 400.78 | 0.86 | -1.88 | 0.25 | 0.17 | 1.90 | 172.37 |
| 425.98 | 0.19 | 231.46 | 425.97 | 0.95 | -1.94 | 0.18 | 0.25 | 1.95 | 174.64 |
| 450.11 | 0.18 | 236.19 | 450.10 | 1.03 | -1.99 | 0.12 | 0.07 | 1.99 | 176.55 |
| 475.83 | 0.15 | 235.40 | 475.82 | 1.11 | -2.03 | 0.06 | 0.10 | 2.03 | 178.38 |
| 501.15 | 0.17 | 225.17 | 501.14 | 1.18 | -2.08 | 0.00 | 0.13 | 2.08 | 179.92 |
| 525.25 | 0.21 | 251.47 | 525.25 | 1.26 | -2.12 | -0.06 | 0.39 | 2.12 | 181.73 |
| 550.60 | 0.16 | 246.99 | 550.59 | 1.34 | -2.15 | -0.14 | 0.19 | 2.15 | 183.76 |
| 575.59 | 0.20 | 248.87 | 575.58 | 1.41 | -2.18 | -0.22 | 0.16 | 2.19 | 185.65 |
| 600.98 | 0.15 | 246.50 | 600.97 | 1.49 | -2.21 | -0.29 | 0.21 | 2.22 | 187.44 |
| 625.23 | 0.17 | 258.27 | 625.22 | 1.55 | -2.23 | -0.35 | 0.16 | 2.25 | 189.01 |
| 650.68 | 0.14 | 273.43 | 650.67 | 1.61 | -2.23 | -0.42 | 0.21 | 2.27 | 190.70 |
| 676.12 | 0.16 | 250.94 | 676.11 | 1.67 | -2.24 | -0.49 | 0.24 | 2.29 | 192.23 |
| 701.61 | 0.18 | 252.98 | 701.60 | 1.75 | -2.26 | -0.56 | 0.09 | 2.33 | 193.83 |
| 725.47 | 0.15 | 242.15 | 725.46 | 1.81 | -2.29 | -0.62 | 0.17 | 2.37 | 195.19 |
| 750.96 | 0.22 | 185.83 | 750.95 | 1.88 | -2.35 | -0.66 | 0.72 | 2.44 | 195.60 |
| 775.06 | 0.16 | 271.03 | 775.05 | 1.94 | -2.40 | -0.70 | 1.08 | 2.50 | 196.18 |
| 800.11 | 0.07 | 245.88 | 800.10 | 1.98 | -2.40 | -0.74 | 0.42 | 2.52 | 197.20 |
| 825.38 | 0.15 | 294.52 | 825.37 | 2.01 | -2.40 | -0.79 | 0.45 | 2.52 | 198.17 |
| 850.14 | 0.28 | 281.86 | 850.13 | 2.07 | -2.37 | -0.87 | 0.57 | 2.53 | 200.25 |
| 875.51 | 0.17 | 262.98 | 875.50 | 2.14 | -2.36 | -0.97 | 0.51 | 2.56 | 202.39 |
| 900.66 | 0.13 | 266.92 | 900.65 | 2.20 | -2.37 | -1.04 | 0.18 | 2.59 | 203.69 |
| 925.96 | 0.36 | 94.67 | 925.95 | 2.16 | -2.38 | -0.99 | 1.93 | 2.57 | 202.58 |
| 951.27 | 0.44 | 269.71 | 951.26 | 2.18 | -2.38 | -1.01 | 3.16 | 2.59 | 202.89 |

Survey Report

| Well Name: | | SIDNEY STREAR # 6 | | | | | | | |
|---------------------|------------|-------------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| Survey: | | SIDNEY STREAR # 6 | | | | | | | |
| Survey Date: | | 5/14/2014 | | | | | | | |
| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
| 975.34 | 0.39 | 263.79 | 975.33 | 2.33 | -2.39 | -1.18 | 0.29 | 2.67 | 206.25 |
| 1000.18 | 0.47 | 292.59 | 1000.17 | 2.46 | -2.36 | -1.36 | 0.91 | 2.73 | 209.85 |
| 1025.44 | 0.49 | 287.42 | 1025.43 | 2.58 | -2.29 | -1.55 | 0.20 | 2.77 | 214.13 |
| 1050.78 | 0.51 | 292.41 | 1050.77 | 2.71 | -2.22 | -1.76 | 0.18 | 2.83 | 218.46 |
| 1076.07 | 0.41 | 295.47 | 1076.05 | 2.81 | -2.14 | -1.95 | 0.40 | 2.89 | 222.34 |
| 1100.18 | 0.51 | 292.10 | 1100.17 | 2.92 | -2.06 | -2.12 | 0.44 | 2.96 | 225.89 |
| 1125.45 | 0.54 | 296.86 | 1125.43 | 3.04 | -1.96 | -2.33 | 0.20 | 3.05 | 229.94 |
| 1150.34 | 0.60 | 297.73 | 1150.33 | 3.15 | -1.85 | -2.55 | 0.24 | 3.15 | 234.07 |
| 1175.76 | 0.66 | 299.73 | 1175.74 | 3.28 | -1.72 | -2.80 | 0.26 | 3.28 | 238.48 |
| 1200.93 | 0.56 | 308.35 | 1200.91 | 3.37 | -1.57 | -3.02 | 0.55 | 3.40 | 242.55 |
| 1225.12 | 0.76 | 293.75 | 1225.10 | 3.49 | -1.43 | -3.26 | 1.09 | 3.56 | 246.29 |
| 1250.87 | 0.88 | 297.71 | 1250.85 | 3.67 | -1.27 | -3.59 | 0.50 | 3.81 | 250.51 |
| 1275.26 | 0.84 | 293.08 | 1275.24 | 3.86 | -1.11 | -3.92 | 0.31 | 4.07 | 254.15 |
| 1300.53 | 0.92 | 298.47 | 1300.50 | 4.05 | -0.94 | -4.27 | 0.44 | 4.37 | 257.54 |
| 1325.91 | 0.84 | 296.88 | 1325.88 | 4.23 | -0.76 | -4.61 | 0.35 | 4.67 | 260.62 |
| 1351.01 | 0.85 | 298.18 | 1350.98 | 4.40 | -0.59 | -4.94 | 0.10 | 4.97 | 263.17 |
| 1375.06 | 0.88 | 299.46 | 1375.03 | 4.56 | -0.42 | -5.26 | 0.13 | 5.27 | 265.47 |
| 1400.60 | 0.92 | 300.16 | 1400.55 | 4.73 | -0.22 | -5.60 | 0.16 | 5.61 | 267.77 |
| 1426.04 | 0.77 | 302.44 | 1426.00 | 4.89 | -0.02 | -5.92 | 0.59 | 5.92 | 269.77 |
| 1451.11 | 0.84 | 302.45 | 1451.06 | 5.02 | 0.16 | -6.22 | 0.26 | 6.22 | 271.51 |
| 1475.40 | 0.89 | 303.59 | 1475.35 | 5.16 | 0.36 | -6.53 | 0.26 | 6.54 | 273.19 |
| 1500.94 | 0.77 | 305.17 | 1500.88 | 5.30 | 0.57 | -6.83 | 0.51 | 6.86 | 274.79 |
| 1525.26 | 0.86 | 297.30 | 1525.20 | 5.44 | 0.75 | -7.13 | 0.61 | 7.17 | 276.01 |
| 1550.85 | 0.84 | 298.65 | 1550.79 | 5.61 | 0.93 | -7.46 | 0.14 | 7.52 | 277.09 |
| 1576.15 | 0.77 | 297.61 | 1576.09 | 5.78 | 1.10 | -7.78 | 0.26 | 7.85 | 278.02 |
| 1600.38 | 0.89 | 288.86 | 1600.32 | 5.96 | 1.23 | -8.10 | 0.72 | 8.19 | 278.65 |
| 1626.06 | 0.77 | 291.35 | 1625.99 | 6.18 | 1.36 | -8.45 | 0.48 | 8.56 | 279.15 |
| 1651.29 | 0.75 | 290.65 | 1651.23 | 6.37 | 1.48 | -8.76 | 0.11 | 8.89 | 279.59 |
| 1676.14 | 0.80 | 290.67 | 1676.07 | 6.56 | 1.60 | -9.08 | 0.22 | 9.22 | 279.99 |
| 1700.22 | 0.74 | 286.18 | 1700.15 | 6.75 | 1.70 | -9.38 | 0.37 | 9.54 | 280.28 |
| 1725.85 | 0.71 | 284.34 | 1725.77 | 6.96 | 1.79 | -9.70 | 0.13 | 9.86 | 280.44 |
| 1751.20 | 0.80 | 276.05 | 1751.12 | 7.20 | 1.84 | -10.03 | 0.55 | 10.19 | 280.43 |
| 1775.27 | 0.74 | 273.96 | 1775.20 | 7.45 | 1.87 | -10.35 | 0.28 | 10.51 | 280.26 |
| 1800.91 | 0.71 | 270.81 | 1800.83 | 7.71 | 1.89 | -10.67 | 0.18 | 10.84 | 280.03 |
| 1825.49 | 0.62 | 276.81 | 1825.41 | 7.93 | 1.90 | -10.96 | 0.47 | 11.12 | 279.86 |
| 1850.54 | 0.66 | 271.02 | 1850.45 | 8.15 | 1.92 | -11.23 | 0.29 | 11.40 | 279.72 |

Survey Report

| Well Name: | | SIDNEY STREAR # 6 | | | | | | | |
|---------------------|------------|-------------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| Survey: | | SIDNEY STREAR # 6 | | | | | | | |
| Survey Date: | | 5/14/2014 | | | | | | | |
| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
| 1876.24 | 0.64 | 268.23 | 1876.15 | 8.39 | 1.92 | -11.53 | 0.13 | 11.68 | 279.47 |
| 1900.77 | 0.58 | 268.48 | 1900.69 | 8.61 | 1.91 | -11.79 | 0.25 | 11.94 | 279.22 |
| 1926.20 | 0.51 | 265.07 | 1926.11 | 8.82 | 1.90 | -12.03 | 0.33 | 12.18 | 278.98 |
| 1950.82 | 0.48 | 255.62 | 1950.73 | 9.01 | 1.87 | -12.24 | 0.35 | 12.38 | 278.67 |
| 1975.47 | 0.35 | 243.61 | 1975.38 | 9.18 | 1.81 | -12.40 | 0.63 | 12.53 | 278.29 |
| 2000.02 | 0.45 | 236.89 | 1999.93 | 9.35 | 1.72 | -12.55 | 0.46 | 12.67 | 277.82 |
| 2025.22 | 0.55 | 229.42 | 2025.13 | 9.57 | 1.59 | -12.72 | 0.49 | 12.82 | 277.12 |
| 2050.67 | 0.57 | 221.70 | 2050.58 | 9.81 | 1.41 | -12.90 | 0.31 | 12.98 | 276.26 |
| 2076.22 | 0.49 | 223.04 | 2076.12 | 10.04 | 1.24 | -13.06 | 0.31 | 13.12 | 275.42 |
| 2100.55 | 0.85 | 198.69 | 2100.46 | 10.29 | 0.99 | -13.19 | 1.83 | 13.23 | 274.30 |
| 2126.17 | 0.96 | 208.51 | 2126.07 | 10.63 | 0.62 | -13.35 | 0.74 | 13.37 | 272.68 |
| 2150.16 | 0.80 | 207.23 | 2150.06 | 10.96 | 0.30 | -13.53 | 0.66 | 13.53 | 271.27 |
| 2175.80 | 0.82 | 210.36 | 2175.70 | 11.28 | -0.02 | -13.70 | 0.19 | 13.70 | 269.93 |
| 2200.35 | 0.79 | 200.85 | 2200.24 | 11.58 | -0.33 | -13.85 | 0.55 | 13.85 | 268.65 |
| 2226.22 | 0.88 | 187.67 | 2226.11 | 11.86 | -0.69 | -13.94 | 0.81 | 13.96 | 267.17 |
| 2250.73 | 0.83 | 189.37 | 2250.62 | 12.11 | -1.05 | -13.99 | 0.22 | 14.03 | 265.71 |
| 2275.00 | 0.70 | 206.24 | 2274.89 | 12.36 | -1.36 | -14.09 | 1.06 | 14.15 | 264.50 |
| 2300.02 | 0.52 | 216.57 | 2299.91 | 12.60 | -1.59 | -14.22 | 0.82 | 14.31 | 263.64 |
| 2325.02 | 0.58 | 214.70 | 2324.90 | 12.83 | -1.78 | -14.36 | 0.22 | 14.47 | 262.93 |
| 2350.80 | 0.61 | 225.09 | 2350.68 | 13.09 | -1.98 | -14.53 | 0.44 | 14.67 | 262.23 |
| 2376.13 | 0.53 | 216.44 | 2376.01 | 13.33 | -2.17 | -14.70 | 0.47 | 14.86 | 261.59 |
| 2401.21 | 0.60 | 221.14 | 2401.09 | 13.57 | -2.36 | -14.85 | 0.33 | 15.04 | 260.96 |
| 2425.46 | 0.67 | 230.84 | 2425.34 | 13.83 | -2.55 | -15.05 | 0.53 | 15.26 | 260.39 |
| 2450.20 | 0.41 | 243.48 | 2450.08 | 14.06 | -2.68 | -15.24 | 1.12 | 15.47 | 260.03 |
| 2475.09 | 0.26 | 281.98 | 2474.97 | 14.19 | -2.71 | -15.37 | 1.07 | 15.61 | 260.01 |
| 2501.19 | 0.36 | 303.93 | 2501.07 | 14.26 | -2.65 | -15.50 | 0.59 | 15.73 | 260.30 |
| 2525.62 | 0.51 | 290.77 | 2525.50 | 14.35 | -2.57 | -15.67 | 0.74 | 15.88 | 260.69 |
| 2550.45 | 0.57 | 301.53 | 2550.32 | 14.46 | -2.46 | -15.88 | 0.48 | 16.07 | 261.18 |
| 2575.46 | 0.45 | 285.59 | 2575.34 | 14.58 | -2.37 | -16.08 | 0.75 | 16.25 | 261.61 |
| 2600.53 | 0.49 | 292.60 | 2600.40 | 14.70 | -2.30 | -16.27 | 0.28 | 16.43 | 261.94 |
| 2626.00 | 0.49 | 296.91 | 2625.88 | 14.81 | -2.21 | -16.47 | 0.14 | 16.62 | 262.34 |
| 2650.48 | 0.35 | 313.56 | 2650.35 | 14.87 | -2.11 | -16.61 | 0.74 | 16.75 | 262.75 |
| 2675.13 | 0.55 | 302.78 | 2675.00 | 14.93 | -2.00 | -16.77 | 0.89 | 16.89 | 263.20 |
| 2701.39 | 0.61 | 314.40 | 2701.26 | 15.01 | -1.83 | -16.98 | 0.50 | 17.08 | 263.84 |
| 2726.04 | 0.50 | 298.44 | 2725.91 | 15.08 | -1.69 | -17.17 | 0.78 | 17.25 | 264.38 |
| 2751.10 | 0.46 | 308.64 | 2750.97 | 15.16 | -1.57 | -17.34 | 0.37 | 17.41 | 264.82 |

Survey Report

Well Name: SIDNEY STREAR # 6
Survey: SIDNEY STREAR # 6
Survey Date: 5/14/2014

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| 2775.94 | 0.45 | 304.36 | 2775.81 | 15.23 | -1.45 | -17.50 | 0.15 | 17.56 | 265.25 |
| 2800.60 | 0.48 | 334.86 | 2800.46 | 15.24 | -1.31 | -17.62 | 1.00 | 17.67 | 265.76 |
| 2826.59 | 0.40 | 322.59 | 2826.46 | 15.23 | -1.14 | -17.72 | 0.48 | 17.76 | 266.33 |
| 2850.84 | 0.43 | 312.36 | 2850.70 | 15.25 | -1.01 | -17.84 | 0.33 | 17.87 | 266.76 |
| 2875.64 | 0.32 | 327.22 | 2875.50 | 15.27 | -0.89 | -17.95 | 0.58 | 17.97 | 267.16 |
| 2900.47 | 0.34 | 332.57 | 2900.33 | 15.26 | -0.77 | -18.02 | 0.15 | 18.03 | 267.57 |
| 2926.47 | 0.36 | 331.31 | 2926.34 | 15.24 | -0.63 | -18.09 | 0.11 | 18.10 | 268.02 |
| 2951.65 | 0.49 | 320.54 | 2951.52 | 15.24 | -0.47 | -18.20 | 0.58 | 18.21 | 268.51 |
| 2976.03 | 0.40 | 326.34 | 2975.89 | 15.25 | -0.32 | -18.31 | 0.42 | 18.32 | 268.99 |
| 3000.80 | 0.48 | 299.99 | 3000.66 | 15.29 | -0.20 | -18.45 | 0.86 | 18.45 | 269.38 |
| 3025.75 | 0.46 | 297.07 | 3025.61 | 15.39 | -0.10 | -18.63 | 0.11 | 18.63 | 269.69 |
| 3050.01 | 0.28 | 315.02 | 3049.87 | 15.44 | -0.01 | -18.76 | 0.90 | 18.76 | 269.95 |
| 3075.68 | 0.43 | 308.08 | 3075.53 | 15.48 | 0.09 | -18.88 | 0.60 | 18.88 | 270.27 |
| 3100.58 | 0.46 | 302.90 | 3100.44 | 15.55 | 0.20 | -19.03 | 0.20 | 19.03 | 270.60 |
| 3125.05 | 0.45 | 279.86 | 3124.90 | 15.65 | 0.27 | -19.21 | 0.74 | 19.21 | 270.80 |
| 3151.14 | 0.62 | 292.37 | 3150.99 | 15.80 | 0.34 | -19.44 | 0.80 | 19.44 | 271.00 |
| 3176.05 | 0.49 | 306.79 | 3175.90 | 15.91 | 0.46 | -19.65 | 0.76 | 19.66 | 271.33 |
| 3200.88 | 0.39 | 287.33 | 3200.73 | 16.00 | 0.54 | -19.82 | 0.73 | 19.83 | 271.58 |
| 3226.07 | 0.44 | 296.68 | 3225.93 | 16.10 | 0.61 | -19.99 | 0.34 | 20.00 | 271.76 |
| 3250.14 | 0.54 | 293.39 | 3250.00 | 16.20 | 0.70 | -20.18 | 0.42 | 20.19 | 271.99 |
| 3275.82 | 0.64 | 285.61 | 3275.68 | 16.36 | 0.79 | -20.43 | 0.50 | 20.44 | 272.21 |
| 3300.28 | 0.62 | 297.71 | 3300.13 | 16.51 | 0.89 | -20.67 | 0.55 | 20.69 | 272.45 |
| 3325.92 | 0.43 | 293.00 | 3325.77 | 16.62 | 0.99 | -20.89 | 0.75 | 20.91 | 272.71 |
| 3350.24 | 0.62 | 304.33 | 3350.09 | 16.72 | 1.10 | -21.08 | 0.89 | 21.11 | 272.98 |
| 3375.76 | 0.64 | 293.26 | 3375.60 | 16.84 | 1.23 | -21.32 | 0.48 | 21.36 | 273.31 |
| 3400.08 | 0.47 | 309.03 | 3399.93 | 16.94 | 1.35 | -21.53 | 0.93 | 21.57 | 273.59 |
| 3426.14 | 0.44 | 297.06 | 3425.98 | 17.02 | 1.46 | -21.70 | 0.38 | 21.75 | 273.85 |
| 3450.31 | 0.59 | 300.78 | 3450.16 | 17.12 | 1.57 | -21.89 | 0.64 | 21.94 | 274.10 |
| 3476.04 | 0.71 | 284.51 | 3475.88 | 17.28 | 1.67 | -22.15 | 0.85 | 22.22 | 274.32 |
| 3500.54 | 0.85 | 293.24 | 3500.38 | 17.47 | 1.78 | -22.47 | 0.75 | 22.54 | 274.54 |
| 3525.00 | 0.79 | 334.81 | 3524.84 | 17.54 | 2.01 | -22.71 | 2.39 | 22.79 | 275.06 |
| 3550.34 | 0.65 | 336.70 | 3550.17 | 17.48 | 2.30 | -22.84 | 0.57 | 22.95 | 275.75 |
| 3576.19 | 0.53 | 296.42 | 3576.02 | 17.51 | 2.49 | -23.00 | 1.63 | 23.14 | 276.17 |
| 3600.81 | 0.78 | 288.98 | 3600.64 | 17.67 | 2.59 | -23.26 | 1.07 | 23.40 | 276.36 |
| 3625.49 | 1.11 | 322.05 | 3625.32 | 17.78 | 2.84 | -23.57 | 2.55 | 23.74 | 276.86 |
| 3651.39 | 1.00 | 309.04 | 3651.21 | 17.86 | 3.18 | -23.90 | 1.02 | 24.11 | 277.57 |

Survey Report

Well Name: SIDNEY STREAR # 6
Survey: SIDNEY STREAR # 6
Survey Date: 5/14/2014

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| 3675.68 | 0.68 | 284.82 | 3675.50 | 18.01 | 3.35 | -24.20 | 1.96 | 24.43 | 277.88 |
| 3700.44 | 0.18 | 348.23 | 3700.26 | 18.09 | 3.42 | -24.35 | 2.49 | 24.59 | 278.00 |
| 3725.06 | 0.38 | 190.15 | 3724.88 | 18.13 | 3.38 | -24.37 | 2.25 | 24.61 | 277.89 |
| 3750.91 | 0.88 | 195.71 | 3750.73 | 18.35 | 3.10 | -24.44 | 1.92 | 24.64 | 277.24 |
| 3775.17 | 0.61 | 172.20 | 3774.99 | 18.55 | 2.80 | -24.47 | 1.66 | 24.63 | 276.52 |
| 3801.09 | 0.45 | 126.24 | 3800.90 | 18.58 | 2.60 | -24.37 | 1.69 | 24.51 | 276.09 |
| 3825.71 | 0.74 | 174.75 | 3825.52 | 18.62 | 2.39 | -24.28 | 2.25 | 24.40 | 275.61 |
| 3851.16 | 1.11 | 187.42 | 3850.97 | 18.87 | 1.98 | -24.30 | 1.66 | 24.38 | 274.65 |
| 3876.69 | 1.21 | 178.64 | 3876.50 | 19.18 | 1.46 | -24.32 | 0.80 | 24.37 | 273.44 |
| 3900.58 | 1.29 | 169.29 | 3900.38 | 19.43 | 0.95 | -24.27 | 0.91 | 24.28 | 272.23 |
| 3926.13 | 1.17 | 157.53 | 3925.92 | 19.60 | 0.42 | -24.11 | 1.09 | 24.12 | 271.01 |
| 3950.48 | 1.37 | 189.19 | 3950.27 | 19.85 | -0.09 | -24.06 | 2.95 | 24.06 | 269.78 |
| 3975.93 | 1.55 | 193.22 | 3975.72 | 20.32 | -0.73 | -24.19 | 0.82 | 24.20 | 268.27 |
| 4001.58 | 0.94 | 172.79 | 4001.35 | 20.67 | -1.28 | -24.24 | 2.90 | 24.28 | 266.99 |
| 4025.42 | 1.29 | 170.56 | 4025.19 | 20.88 | -1.73 | -24.18 | 1.46 | 24.24 | 265.90 |
| 4050.80 | 1.36 | 205.02 | 4050.56 | 21.26 | -2.29 | -24.26 | 3.10 | 24.36 | 264.61 |
| 4075.14 | 1.64 | 184.59 | 4074.90 | 21.73 | -2.90 | -24.41 | 2.46 | 24.58 | 263.23 |
| 4100.75 | 1.33 | 168.95 | 4100.49 | 22.08 | -3.55 | -24.38 | 1.98 | 24.64 | 261.71 |
| 4126.07 | 0.68 | 199.65 | 4125.81 | 22.32 | -3.98 | -24.37 | 3.25 | 24.70 | 260.72 |
| 4150.34 | 1.00 | 185.67 | 4150.09 | 22.57 | -4.33 | -24.44 | 1.56 | 24.82 | 259.95 |
| 4175.45 | 1.19 | 174.87 | 4175.18 | 22.84 | -4.81 | -24.44 | 1.12 | 24.91 | 258.87 |
| 4200.93 | 1.18 | 176.95 | 4200.66 | 23.11 | -5.33 | -24.40 | 0.18 | 24.98 | 257.67 |
| 4225.07 | 1.22 | 178.12 | 4224.80 | 23.38 | -5.84 | -24.38 | 0.20 | 25.07 | 256.53 |
| 4250.49 | 1.18 | 180.15 | 4250.21 | 23.67 | -6.37 | -24.37 | 0.22 | 25.19 | 255.35 |
| 4275.47 | 1.23 | 180.14 | 4275.19 | 23.97 | -6.90 | -24.37 | 0.19 | 25.33 | 254.20 |
| 4300.83 | 1.07 | 179.40 | 4300.54 | 24.26 | -7.40 | -24.37 | 0.65 | 25.47 | 253.10 |
| 4325.15 | 1.36 | 188.78 | 4324.86 | 24.59 | -7.92 | -24.41 | 1.45 | 25.67 | 252.04 |
| 4350.56 | 1.54 | 179.52 | 4350.26 | 24.99 | -8.56 | -24.46 | 1.17 | 25.91 | 250.72 |
| 4375.19 | 1.35 | 179.86 | 4374.88 | 25.34 | -9.18 | -24.45 | 0.77 | 26.12 | 249.43 |
| 4400.62 | 1.38 | 188.48 | 4400.30 | 25.72 | -9.78 | -24.50 | 0.81 | 26.38 | 248.24 |
| 4426.19 | 1.46 | 193.00 | 4425.86 | 26.17 | -10.40 | -24.62 | 0.54 | 26.72 | 247.09 |
| 4451.01 | 1.35 | 200.05 | 4450.68 | 26.64 | -10.98 | -24.79 | 0.83 | 27.11 | 246.10 |
| 4475.97 | 1.47 | 202.91 | 4475.63 | 27.15 | -11.55 | -25.01 | 0.57 | 27.55 | 245.21 |
| 4500.91 | 2.07 | 199.16 | 4500.55 | 27.78 | -12.27 | -25.28 | 2.45 | 28.11 | 244.11 |
| 4525.20 | 1.99 | 195.48 | 4524.83 | 28.46 | -13.09 | -25.54 | 0.63 | 28.70 | 242.86 |
| 4551.01 | 1.85 | 203.76 | 4550.63 | 29.15 | -13.90 | -25.83 | 1.20 | 29.33 | 241.71 |

Well Name: SIDNEY STREAR # 6
Survey: SIDNEY STREAR # 6
Survey Date: 5/14/2014

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | DLS 7100ft | Closure Distance ft | Closure Direction deg |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------|---------------------------|-----------------------------|
| 4575.29 | 1.89 | 204.83 | 4574.90 | 29.83 | -14.63 | -26.15 | 0.25 | 29.97 | 240.79 |
| 4600.26 | 1.82 | 205.87 | 4599.86 | 30.53 | -15.36 | -26.50 | 0.34 | 30.63 | 239.91 |
| 4625.79 | 1.81 | 194.25 | 4625.37 | 31.19 | -16.11 | -26.78 | 1.44 | 31.25 | 238.97 |
| 4651.17 | 1.59 | 207.80 | 4650.74 | 31.80 | -16.81 | -27.04 | 1.80 | 31.84 | 238.13 |
| 4675.92 | 2.01 | 208.10 | 4675.48 | 32.49 | -17.49 | -27.40 | 1.70 | 32.51 | 237.44 |
| 4700.24 | 1.78 | 206.05 | 4699.78 | 33.20 | -18.21 | -27.77 | 0.99 | 33.21 | 236.75 |
| 4725.47 | 1.91 | 188.82 | 4724.99 | 33.83 | -18.97 | -28.00 | 2.25 | 33.83 | 235.88 |
| 4739.02 | 1.82 | 194.65 | 4738.54 | 34.14 | -19.41 | -28.09 | 1.54 | 34.14 | 235.36 |