

| | | | | | |
|------|----------------------|-------|---------------------------|-----------|---------------------------|
| WELL | Hittle Cattle 12-14H | FIELD | CO, Mesa Co. (NAD83UTM13) | STRUCTURE | Encana 01-10S-96W (PL1NW) |
|------|----------------------|-------|---------------------------|-----------|---------------------------|

| | | | | | | | |
|---|----------------------------------|--|--|---|---|--|---|
| Magnetic Parameters Model: BGQM 2011 | Dip: 65.496° Mag Dec: 10.331° | Date: August 30, 2011 FS: S2040.3mT | Surface Location Lat: N 39 13 24.960 Lon: W 106 3 34.038 | NAD83 UTM Zone 13N US Feet Northing: 14258670.78 BUS Easting: 773905.54 BUS | Grid Conv: -1.93575901° Scale Fact: 1.00045896 | Miscellaneous Sht: Hittle Cattle 12-14H Plan: RD ors 30-Aug-11 | TVD Ref: RKB(6031ft above MSL) Srv Date: August 30, 2011 |
|---|----------------------------------|--|--|---|---|--|---|

Surface Location

Northing: 14258670.78 Easting: 773905.54

| Target Name | Shape | Major Axis | N(+)S(-) | E(+)W(-) | TVD | YSec | N(+)S(-) | E(+)W(-) |
|-------------------------|-------|------------|----------|----------|---------|---------|----------|----------|
| Hittle Cattle 12-14H TD | Point | 0.00 | 39.20 | -108.06 | 7453.00 | 9746.86 | -9728.04 | 605.46 |

Quality Control
Date Drawn: September 09, 2011 01:12:25 PM
Drawn by: Current User
Checked by:
Client OK:

Proposal

| Critical Point | MD | INCL | AZIM | TVD | YSEC | N(+)S(-) | E(+)W(-) | DLS |
|-------------------------|----------|-------|--------|---------|---------|----------|----------|------|
| HC 12-14H SHL | 0.00 | 0.00 | 129.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP, Build 1 DLS | 500.00 | 0.00 | 129.45 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ohio Creek (Top Km) | 1213.85 | 7.14 | 129.45 | 1212.00 | 30.29 | -28.22 | 34.29 | 1.00 |
| Hold | 1509.64 | 10.10 | 129.45 | 1504.43 | 60.52 | -56.37 | 68.52 | 1.00 |
| Williams Fork Fm | 1532.57 | 10.10 | 129.45 | 1527.00 | 63.26 | -58.93 | 71.62 | 0.00 |
| Top Gas | 3071.40 | 10.10 | 129.45 | 3042.00 | 247.27 | -230.33 | 279.94 | 0.00 |
| Coal Ridge (Paludal) | 3695.06 | 10.10 | 129.45 | 3656.00 | 321.85 | -299.79 | 364.36 | 0.00 |
| Rollins Ss (Hes Fm) | 3978.45 | 10.10 | 129.45 | 3935.00 | 355.74 | -331.36 | 402.73 | 0.00 |
| Cozzette Ss | 4268.95 | 10.10 | 129.45 | 4221.00 | 390.47 | -363.72 | 442.05 | 0.00 |
| Corcoran Ss | 4452.79 | 10.10 | 129.45 | 4402.00 | 412.46 | -384.19 | 466.94 | 0.00 |
| Buck Tongue | 5175.99 | 10.10 | 129.45 | 5114.00 | 498.94 | -464.75 | 564.84 | 0.00 |
| Castlegate | 5713.31 | 10.10 | 129.45 | 5643.00 | 563.19 | -524.59 | 637.58 | 0.00 |
| Mancos B | 5982.48 | 10.10 | 129.45 | 5908.00 | 595.37 | -554.57 | 674.02 | 0.00 |
| Blue Gate | 6041.40 | 10.10 | 129.45 | 5966.00 | 602.42 | -561.14 | 681.99 | 0.00 |
| Prairie Canyon | 6343.07 | 10.10 | 129.45 | 6263.00 | 638.49 | -594.74 | 722.83 | 0.00 |
| KOP, Build & Turn 6 DLS | 6909.90 | 10.10 | 129.45 | 6821.06 | 706.27 | -657.87 | 799.56 | 0.00 |
| Niobrara Fm | 7352.88 | 33.59 | 169.53 | 7231.00 | 857.12 | -805.70 | 852.76 | 6.00 |
| Landing Point | 8332.68 | 91.50 | 182.00 | 7665.03 | 1687.80 | -1635.79 | 888.06 | 6.00 |
| Horizontal Target | Infinity | | | 7669.00 | | | | |
| Hittle Cattle 12-14H TD | 16432.68 | 91.50 | 182.00 | 7453.00 | 9746.91 | -9728.09 | 605.47 | 0.00 |

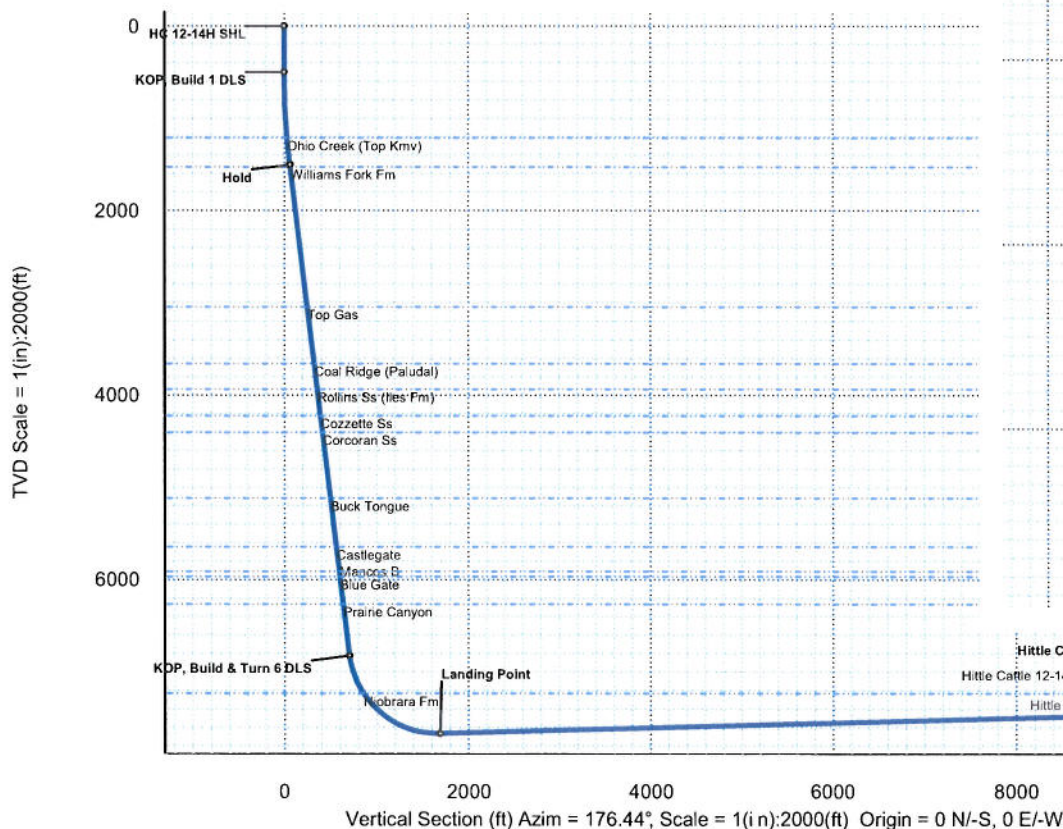
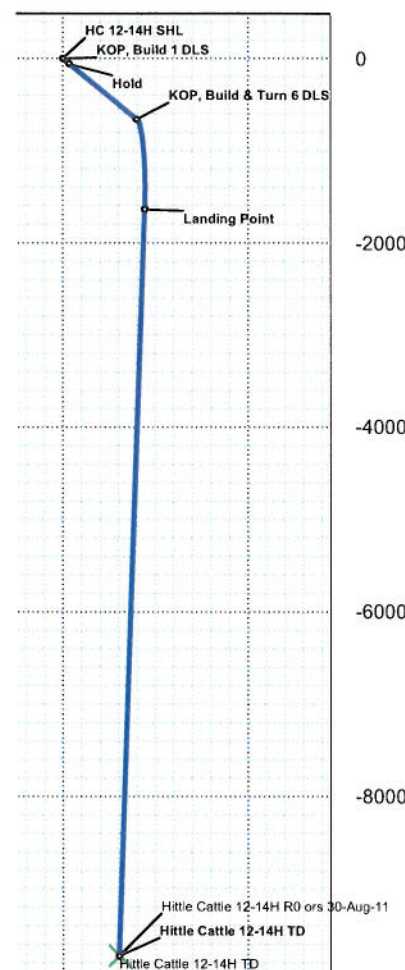


Rev0



Grid North
Tot Corr (M->G 12.2665°)
Mag Dec (10.331°)
Grid Conv (-1.93575901°)

<<< W Scale = 1(in):2000(ft) E >>>
0 2000



<<< S Scale = 1(in):2000(ft) N >>>

Hittle Cattle 12-14H R0 ors 30-Aug-11 Proposal Report

(Def Plan)

Report Date: August 31, 2011 - 01:49 PM
 Client: EnCana Oil & Gas (USA) Inc.
 Field: CO, Mesa County (NAD 83 UTM 13) EnCana 2010
 Structure / Slot: Encana 01-10S-96W (PL1NW Pad) / Hittle Cattle 12-14H
 Well: Hittle Cattle 12-14H
 Borehole: Original Hole
 UWI / API#: Unknown / Unknown
 Survey Name: Hittle Cattle 12-14H R0 ors 30-Aug-11
 Survey Date: August 30, 2011
 Tort / AHD / DDI / ERD Ratio: 95.463 ° / 10123.959 ft / 6.316 / 1.321
 Coordinate Reference System: NAD83 UTM Zone 13N, US Feet
 Location Lat / Long: N 39° 13' 24.96000", W 108° 3' 34.03802"
 Location Grid N/E Y/X: N 14258670.785 ftUS, E 773905.538 ftUS
 CRS Grid Convergence Angle: -1.93575901 °
 Grid Scale Factor: 1.00045898

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 176.439 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 6031.000 ft above MSL
 Seabed / Ground Elevation: 6009.000 ft above MSL
 Magnetic Declination: 10.331 °
 Total Field Strength: 52040.304 nT
 Magnetic Dip Angle: 65.496 °
 Declination Date: August 30, 2011
 Magnetic Declination Model: BGGM 2011
 North Reference: Grid North
 Grid Convergence Used: -1.936 °
 Total Corr Mag North->Grid North: 12.266 °
 Local Coord Referenced To: Well Head

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS ("/100ft) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitude (E/W ° ' ") |
|----------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| Tie-In | 0.00 | 0.00 | 129.45 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| Marker MudLine | 22.00 | 0.00 | 129.45 | 22.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| | 100.00 | 0.00 | 129.45 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| | 200.00 | 0.00 | 129.45 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| | 300.00 | 0.00 | 129.45 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| | 400.00 | 0.00 | 129.45 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| KOP | 500.00 | 0.00 | 129.45 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14258670.78 | 773905.54 | N 39 13 24.96 | W 108 3 34.04 |
| | 600.00 | 1.00 | 129.45 | 599.99 | 0.60 | -0.55 | 0.67 | 1.00 | 14258670.23 | 773906.21 | N 39 13 24.95 | W 108 3 34.03 |
| | 700.00 | 2.00 | 129.45 | 699.96 | 2.38 | -2.22 | 2.70 | 1.00 | 14258668.57 | 773908.23 | N 39 13 24.94 | W 108 3 34.00 |
| | 800.00 | 3.00 | 129.45 | 799.86 | 5.36 | -4.99 | 6.06 | 1.00 | 14258665.79 | 773911.60 | N 39 13 24.91 | W 108 3 33.96 |
| | 900.00 | 4.00 | 129.45 | 899.68 | 9.52 | -8.87 | 10.78 | 1.00 | 14258661.91 | 773916.32 | N 39 13 24.88 | W 108 3 33.90 |
| | 1000.00 | 5.00 | 129.45 | 999.37 | 14.87 | -13.85 | 16.84 | 1.00 | 14258656.93 | 773922.38 | N 39 13 24.83 | W 108 3 33.82 |
| | 1100.00 | 6.00 | 129.45 | 1098.90 | 21.41 | -19.94 | 24.24 | 1.00 | 14258650.83 | 773929.79 | N 39 13 24.77 | W 108 3 33.72 |
| | 1200.00 | 7.00 | 129.45 | 1198.26 | 29.13 | -27.13 | 32.98 | 1.00 | 14258643.64 | 773938.53 | N 39 13 24.70 | W 108 3 33.61 |
| | 1300.00 | 8.00 | 129.45 | 1297.40 | 38.03 | -35.43 | 43.06 | 1.00 | 14258635.34 | 773948.62 | N 39 13 24.62 | W 108 3 33.48 |
| | 1400.00 | 9.00 | 129.45 | 1396.30 | 48.12 | -44.82 | 54.47 | 1.00 | 14258625.95 | 773960.03 | N 39 13 24.54 | W 108 3 33.33 |
| EOC #1 (3D-S) | 1500.00 | 10.00 | 129.45 | 1494.93 | 59.37 | -55.31 | 67.22 | 1.00 | 14258615.45 | 773972.79 | N 39 13 24.44 | W 108 3 33.16 |
| | 1509.64 | 10.10 | 129.45 | 1504.43 | 60.52 | -56.37 | 68.52 | 1.00 | 14258614.38 | 773974.09 | N 39 13 24.43 | W 108 3 33.14 |
| | 1600.00 | 10.10 | 129.45 | 1593.38 | 71.33 | -66.44 | 80.75 | 0.00 | 14258604.32 | 773986.32 | N 39 13 24.33 | W 108 3 32.98 |
| | 1700.00 | 10.10 | 129.45 | 1691.84 | 83.28 | -77.58 | 94.29 | 0.00 | 14258593.17 | 773999.87 | N 39 13 24.23 | W 108 3 32.81 |
| | 1800.00 | 10.10 | 129.45 | 1790.29 | 95.24 | -88.72 | 107.82 | 0.00 | 14258582.03 | 774013.41 | N 39 13 24.12 | W 108 3 32.63 |
| | 1900.00 | 10.10 | 129.45 | 1888.74 | 107.20 | -99.85 | 121.36 | 0.00 | 14258570.89 | 774026.95 | N 39 13 24.01 | W 108 3 32.45 |
| | 2000.00 | 10.10 | 129.45 | 1987.19 | 119.16 | -110.99 | 134.90 | 0.00 | 14258559.74 | 774040.50 | N 39 13 23.91 | W 108 3 32.28 |
| | 2100.00 | 10.10 | 129.45 | 2085.64 | 131.12 | -122.13 | 148.43 | 0.00 | 14258548.60 | 774054.04 | N 39 13 23.80 | W 108 3 32.10 |
| | 2200.00 | 10.10 | 129.45 | 2184.09 | 143.07 | -133.27 | 161.97 | 0.00 | 14258537.46 | 774067.58 | N 39 13 23.70 | W 108 3 31.92 |
| | 2300.00 | 10.10 | 129.45 | 2282.54 | 155.03 | -144.41 | 175.51 | 0.00 | 14258526.31 | 774081.13 | N 39 13 23.59 | W 108 3 31.75 |
| | 2400.00 | 10.10 | 129.45 | 2380.99 | 166.99 | -155.55 | 189.05 | 0.00 | 14258515.17 | 774094.67 | N 39 13 23.49 | W 108 3 31.57 |
| | 2500.00 | 10.10 | 129.45 | 2479.45 | 178.95 | -166.68 | 202.58 | 0.00 | 14258504.02 | 774108.21 | N 39 13 23.38 | W 108 3 31.39 |
| | 2600.00 | 10.10 | 129.45 | 2577.90 | 190.90 | -177.82 | 216.12 | 0.00 | 14258492.88 | 774121.76 | N 39 13 23.28 | W 108 3 31.22 |
| | 2700.00 | 10.10 | 129.45 | 2676.35 | 202.86 | -188.96 | 229.66 | 0.00 | 14258481.74 | 774135.30 | N 39 13 23.17 | W 108 3 31.04 |
| | 2800.00 | 10.10 | 129.45 | 2774.80 | 214.82 | -200.10 | 243.20 | 0.00 | 14258470.59 | 774148.84 | N 39 13 23.06 | W 108 3 30.86 |
| | 2900.00 | 10.10 | 129.45 | 2873.25 | 226.78 | -211.24 | 256.73 | 0.00 | 14258459.45 | 774162.39 | N 39 13 22.96 | W 108 3 30.69 |
| | 3000.00 | 10.10 | 129.45 | 2971.70 | 238.74 | -222.38 | 270.27 | 0.00 | 14258448.31 | 774175.93 | N 39 13 22.85 | W 108 3 30.51 |
| | 3100.00 | 10.10 | 129.45 | 3070.15 | 250.69 | -233.51 | 283.81 | 0.00 | 14258437.16 | 774189.47 | N 39 13 22.75 | W 108 3 30.33 |
| | 3200.00 | 10.10 | 129.45 | 3168.61 | 262.65 | -244.65 | 297.34 | 0.00 | 14258426.02 | 774203.02 | N 39 13 22.64 | W 108 3 30.16 |
| | 3300.00 | 10.10 | 129.45 | 3267.06 | 274.61 | -255.79 | 310.88 | 0.00 | 14258414.88 | 774216.56 | N 39 13 22.54 | W 108 3 29.98 |
| | 3400.00 | 10.10 | 129.45 | 3365.51 | 286.57 | -266.93 | 324.42 | 0.00 | 14258403.73 | 774230.11 | N 39 13 22.43 | W 108 3 29.80 |
| | 3500.00 | 10.10 | 129.45 | 3463.96 | 298.52 | -278.07 | 337.96 | 0.00 | 14258392.59 | 774243.65 | N 39 13 22.33 | W 108 3 29.63 |
| | 3600.00 | 10.10 | 129.45 | 3562.41 | 310.48 | -289.21 | 351.49 | 0.00 | 14258381.45 | 774257.19 | N 39 13 22.22 | W 108 3 29.45 |
| | 3700.00 | 10.10 | 129.45 | 3660.86 | 322.44 | -300.34 | 365.03 | 0.00 | 14258370.30 | 774270.74 | N 39 13 22.12 | W 108 3 29.27 |
| | 3800.00 | 10.10 | 129.45 | 3759.31 | 334.40 | -311.48 | 378.57 | 0.00 | 14258359.16 | 774284.28 | N 39 13 22.01 | W 108 3 29.10 |
| | 3900.00 | 10.10 | 129.45 | 3857.77 | 346.35 | -322.62 | 392.11 | 0.00 | 14258348.02 | 774297.82 | N 39 13 21.90 | W 108 3 28.92 |
| | 4000.00 | 10.10 | 129.45 | 3956.22 | 358.31 | -333.76 | 405.64 | 0.00 | 14258336.87 | 774311.37 | N 39 13 21.80 | W 108 3 28.74 |
| | 4100.00 | 10.10 | 129.45 | 4054.67 | 370.27 | -344.90 | 419.18 | 0.00 | 14258325.73 | 774324.91 | N 39 13 21.69 | W 108 3 28.57 |
| | 4200.00 | 10.10 | 129.45 | 4153.12 | 382.23 | -356.04 | 432.72 | 0.00 | 14258314.59 | 774338.45 | N 39 13 21.59 | W 108 3 28.39 |
| | 4300.00 | 10.10 | 129.45 | 4251.57 | 394.19 | -367.17 | 446.25 | 0.00 | 14258303.44 | 774352.00 | N 39 13 21.48 | W 108 3 28.21 |
| | 4400.00 | 10.10 | 129.45 | 4350.02 | 406.14 | -378.31 | 459.79 | 0.00 | 14258292.30 | 774365.54 | N 39 13 21.38 | W 108 3 28.04 |
| | 4500.00 | 10.10 | 129.45 | 4448.47 | 418.10 | -389.45 | 473.33 | 0.00 | 14258281.16 | 774379.08 | N 39 13 21.27 | W 108 3 27.86 |
| | 4600.00 | 10.10 | 129.45 | 4546.93 | 430.06 | -400.59 | 486.87 | 0.00 | 14258270.01 | 774392.63 | N 39 13 21.17 | W 108 3 27.68 |
| | 4700.00 | 10.10 | 129.45 | 4645.38 | 442.02 | -411.73 | 500.40 | 0.00 | 14258258.87 | 774406.17 | N 39 13 21.06 | W 108 3 27.51 |
| | 4800.00 | 10.10 | 129.45 | 4743.83 | 453.97 | -422.87 | 513.94 | 0.00 | 14258247.73 | 774419.71 | N 39 13 20.95 | W 108 3 27.33 |
| | 4900.00 | 10.10 | 129.45 | 4842.28 | 465.93 | -434.00 | 527.48 | 0.00 | 14258236.58 | 774433.26 | N 39 13 20.85 | W 108 3 27.15 |
| | 5000.00 | 10.10 | 129.45 | 4940.73 | 477.89 | -445.14 | 541.02 | 0.00 | 14258225.44 | 774446.80 | N 39 13 20.74 | W 108 3 26.98 |
| | 5100.00 | 10.10 | 129.45 | 5039.18 | 489.85 | -456.28 | 554.55 | 0.00 | 14258214.30 | 774460.34 | N 39 13 20.64 | W 108 3 26.80 |
| | 5200.00 | 10.10 | 129.45 | 5137.63 | 501.81 | -467.42 | 568.09 | 0.00 | 14258203.15 | 774473.89 | N 39 13 20.53 | W 108 3 26.62 |
| | 5300.00 | 10.10 | 129.45 | 5236.09 | 513.76 | -478.56 | 581.63 | 0.00 | 14258192.01 | 774487.43 | N 39 13 20.43 | W 108 3 26.45 |
| 5400.00 | 10.10 | 129.45 | 5334.54 | 525.72 | -489.70 | 595.16 | 0.00 | 14258180.87 | 774500.97 | N 39 13 20.32 | W 108 3 26.27 | |
| 5500.00 | 10.10 | 129.45 | 5432.99 | 537.68 | -500.83 | 608.70 | 0.00 | 14258169.72 | 774514.52 | N 39 13 20.22 | W 108 3 26.09 | |
| 5600.00 | 10.10 | 129.45 | 5531.44 | 549.64 | -511.97 | 622.24 | 0.00 | 14258158.58 | 774528.06 | N 39 13 20.11 | W 108 3 25.92 | |
| 5700.00 | 10.10 | 129.45 | 5629.89 | 561.59 | -523.11 | 635.78 | 0.00 | 14258147.43 | 774541.60 | N 39 13 20.00 | W 108 3 25.74 | |
| 5800.00 | 10.10 | 129.45 | 5728.34 | 573.55 | -534.25 | 649.31 | 0.00 | 14258136.29 | 774555.15 | N 39 13 19.90 | W 108 3 25.56 | |
| 5900.00 | 10.10 | 129.45 | 5826.79 | 585.51 | -545.39 | 662.85 | 0.00 | 14258125.15 | 774568.69 | N 39 13 19.79 | W 108 3 25.39 | |
| 6000.00 | 10.10 | 129.45 | 5925.25 | 597.47 | -556.53 | 676.39 | 0.00 | 14258114.00 | 774582.23 | N 39 13 19.69 | W 108 3 25.21 | |
| 6100.00 | 10.10 | 129.45 | 6023.70 | 609.43 | -567.66 | 689.93 | 0.00 | 14258102.86 | 774595.78 | N 39 13 19.58 | W 108 3 25.03 | |
| 6200.00 | 10.10 | 129.45 | 6122.15 | 621.38 | -578.80 | 703.46 | 0.00 | 14258091.72 | 774609.32 | N 39 13 19.48 | W 108 3 24.86 | |
| 6300.00 | 10.10 | 129.45 | 6220.60 | 633.34 | -589.94 | 717.00 | 0.00 | 14258080.57 | 774622.87 | N 39 13 19.37 | W 108 3 24.68 | |
| 6400.00 | 10.10 | 129.45 | 6319.05 | 645.30 | -601.08 | 730.54 | 0.00 | 14258069.43 | 774636.41 | N 39 13 19.27 | W 108 3 24.50 | |
| 6500.00 | 10.10 | 129.45 | 6417.50 | 657.26 | -612.22 | 744.07 | 0.00 | 14258058.29 | 774649.95 | N 39 13 19.16 | W 108 3 24.33 | |
| 6600.00 | 10.10 | 129.45 | 6515.95 | 669.21 | -623.36 | 757.61 | 0.00 | 14258047.14 | 774663.50 | N 39 13 19.06 | W 108 3 24.15 | |
| 6700.00 | 10.10 | 129.45 | 6614.41 | 681.17 | -634.49 | 771.15 | 0.00 | 14258036.00 | 774677.04 | N 39 13 18.95 | W 108 3 23.97 | |
| 6800.00 | 10.10 | 129.45 | 6712.86 | 693.13 | -645.63 | 784.69 | 0.00 | 14258024.86 | 774690.58 | | | |

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS (%/100ft) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitude (E/W ° ' ") |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| | 7800.00 | 59.88 | 177.10 | 7534.98 | 1179.18 | -1126.34 | 885.62 | 6.00 | 14257543.93 | 774791.57 | N 39 13 14.13 | W 108 3 22.31 |
| | 7900.00 | 65.81 | 178.16 | 7580.60 | 1268.10 | -1215.20 | 889.28 | 6.00 | 14257455.03 | 774795.23 | N 39 13 13.25 | W 108 3 22.22 |
| | 8000.00 | 71.74 | 179.12 | 7616.78 | 1361.20 | -1308.35 | 891.48 | 6.00 | 14257361.84 | 774797.42 | N 39 13 12.33 | W 108 3 22.16 |
| | 8100.00 | 77.68 | 180.02 | 7643.14 | 1457.47 | -1404.76 | 892.18 | 6.00 | 14257265.38 | 774798.13 | N 39 13 11.38 | W 108 3 22.11 |
| | 8200.00 | 83.62 | 180.89 | 7659.39 | 1555.85 | -1503.39 | 891.40 | 6.00 | 14257166.71 | 774797.34 | N 39 13 10.41 | W 108 3 22.07 |
| | 8300.00 | 89.56 | 181.73 | 7665.34 | 1655.27 | -1603.14 | 889.12 | 6.00 | 14257066.92 | 774795.06 | N 39 13 9.42 | W 108 3 22.06 |
| EOC #2 | 8332.68 | 91.50 | 182.00 | 7665.03 | 1687.80 | -1635.79 | 888.06 | 6.00 | 14257034.24 | 774794.00 | N 39 13 9.10 | W 108 3 22.06 |
| | 8400.00 | 91.50 | 182.00 | 7663.27 | 1754.78 | -1703.05 | 885.71 | 0.00 | 14256966.95 | 774791.65 | N 39 13 8.43 | W 108 3 22.06 |
| | 8500.00 | 91.50 | 182.00 | 7660.65 | 1854.28 | -1802.96 | 882.22 | 0.00 | 14256867.00 | 774788.16 | N 39 13 7.44 | W 108 3 22.06 |
| | 8600.00 | 91.50 | 182.00 | 7658.04 | 1953.77 | -1902.86 | 878.73 | 0.00 | 14256767.05 | 774784.67 | N 39 13 6.46 | W 108 3 22.06 |
| | 8700.00 | 91.50 | 182.00 | 7655.42 | 2053.27 | -2002.77 | 875.24 | 0.00 | 14256667.10 | 774781.18 | N 39 13 5.47 | W 108 3 22.06 |
| | 8800.00 | 91.50 | 182.00 | 7652.80 | 2152.76 | -2102.67 | 871.75 | 0.00 | 14256567.15 | 774777.69 | N 39 13 4.48 | W 108 3 22.07 |
| | 8900.00 | 91.50 | 182.00 | 7650.18 | 2252.26 | -2202.58 | 868.27 | 0.00 | 14256467.20 | 774774.20 | N 39 13 3.49 | W 108 3 22.07 |
| | 9000.00 | 91.50 | 182.00 | 7647.56 | 2351.75 | -2302.48 | 864.78 | 0.00 | 14256367.25 | 774770.71 | N 39 13 2.50 | W 108 3 22.07 |
| | 9100.00 | 91.50 | 182.00 | 7644.95 | 2451.25 | -2402.39 | 861.29 | 0.00 | 14256267.30 | 774767.22 | N 39 13 1.52 | W 108 3 22.07 |
| | 9200.00 | 91.50 | 182.00 | 7642.33 | 2550.74 | -2502.29 | 857.80 | 0.00 | 14256167.35 | 774763.73 | N 39 13 0.53 | W 108 3 22.07 |
| | 9300.00 | 91.50 | 182.00 | 7639.71 | 2650.24 | -2602.20 | 854.31 | 0.00 | 14256067.40 | 774760.24 | N 39 12 59.54 | W 108 3 22.07 |
| | 9400.00 | 91.50 | 182.00 | 7637.09 | 2749.73 | -2702.10 | 850.82 | 0.00 | 14255967.45 | 774756.75 | N 39 12 58.55 | W 108 3 22.07 |
| | 9500.00 | 91.50 | 182.00 | 7634.48 | 2849.23 | -2802.01 | 847.33 | 0.00 | 14255867.50 | 774753.26 | N 39 12 57.56 | W 108 3 22.08 |
| | 9600.00 | 91.50 | 182.00 | 7631.86 | 2948.72 | -2901.91 | 843.84 | 0.00 | 14255767.55 | 774749.77 | N 39 12 56.58 | W 108 3 22.08 |
| | 9700.00 | 91.50 | 182.00 | 7629.24 | 3048.22 | -3001.81 | 840.36 | 0.00 | 14255667.60 | 774746.28 | N 39 12 55.59 | W 108 3 22.08 |
| | 9800.00 | 91.50 | 182.00 | 7626.62 | 3147.71 | -3101.72 | 836.87 | 0.00 | 14255567.65 | 774742.79 | N 39 12 54.60 | W 108 3 22.08 |
| | 9900.00 | 91.50 | 182.00 | 7624.01 | 3247.21 | -3201.62 | 833.38 | 0.00 | 14255467.70 | 774739.30 | N 39 12 53.61 | W 108 3 22.08 |
| | 10000.00 | 91.50 | 182.00 | 7621.39 | 3346.71 | -3301.53 | 829.89 | 0.00 | 14255367.75 | 774735.81 | N 39 12 52.62 | W 108 3 22.08 |
| | 10100.00 | 91.50 | 182.00 | 7618.77 | 3446.20 | -3401.43 | 826.40 | 0.00 | 14255267.80 | 774732.32 | N 39 12 51.64 | W 108 3 22.08 |
| | 10200.00 | 91.50 | 182.00 | 7616.15 | 3545.70 | -3501.34 | 822.91 | 0.00 | 14255167.85 | 774728.83 | N 39 12 50.65 | W 108 3 22.09 |
| | 10300.00 | 91.50 | 182.00 | 7613.53 | 3645.19 | -3601.24 | 819.42 | 0.00 | 14255067.90 | 774725.34 | N 39 12 49.66 | W 108 3 22.09 |
| | 10400.00 | 91.50 | 182.00 | 7610.92 | 3744.69 | -3701.15 | 815.93 | 0.00 | 14254967.94 | 774721.84 | N 39 12 48.67 | W 108 3 22.09 |
| | 10500.00 | 91.50 | 182.00 | 7608.30 | 3844.18 | -3801.05 | 812.45 | 0.00 | 14254867.99 | 774718.35 | N 39 12 47.68 | W 108 3 22.09 |
| | 10600.00 | 91.50 | 182.00 | 7605.68 | 3943.68 | -3900.96 | 808.96 | 0.00 | 14254768.04 | 774714.86 | N 39 12 46.70 | W 108 3 22.09 |
| | 10700.00 | 91.50 | 182.00 | 7603.06 | 4043.17 | -4000.86 | 805.47 | 0.00 | 14254668.09 | 774711.37 | N 39 12 45.71 | W 108 3 22.09 |
| | 10800.00 | 91.50 | 182.00 | 7600.45 | 4142.67 | -4100.77 | 801.98 | 0.00 | 14254568.14 | 774707.88 | N 39 12 44.72 | W 108 3 22.10 |
| | 10900.00 | 91.50 | 182.00 | 7597.83 | 4242.16 | -4200.67 | 798.49 | 0.00 | 14254468.19 | 774704.39 | N 39 12 43.73 | W 108 3 22.10 |
| | 11000.00 | 91.50 | 182.00 | 7595.21 | 4341.66 | -4300.58 | 795.00 | 0.00 | 14254368.24 | 774700.90 | N 39 12 42.74 | W 108 3 22.10 |
| | 11100.00 | 91.50 | 182.00 | 7592.59 | 4441.15 | -4400.48 | 791.51 | 0.00 | 14254268.29 | 774697.41 | N 39 12 41.76 | W 108 3 22.10 |
| | 11200.00 | 91.50 | 182.00 | 7589.98 | 4540.65 | -4500.39 | 788.02 | 0.00 | 14254168.34 | 774693.92 | N 39 12 40.77 | W 108 3 22.10 |
| | 11300.00 | 91.50 | 182.00 | 7587.36 | 4640.14 | -4600.29 | 784.54 | 0.00 | 14254068.39 | 774690.43 | N 39 12 39.78 | W 108 3 22.10 |
| | 11400.00 | 91.50 | 182.00 | 7584.74 | 4739.64 | -4700.20 | 781.05 | 0.00 | 14253968.44 | 774686.94 | N 39 12 38.79 | W 108 3 22.10 |
| | 11500.00 | 91.50 | 182.00 | 7582.12 | 4839.13 | -4800.10 | 777.56 | 0.00 | 14253868.49 | 774683.45 | N 39 12 37.80 | W 108 3 22.11 |
| | 11600.00 | 91.50 | 182.00 | 7579.50 | 4938.63 | -4900.01 | 774.07 | 0.00 | 14253768.54 | 774679.96 | N 39 12 36.82 | W 108 3 22.11 |
| | 11700.00 | 91.50 | 182.00 | 7576.89 | 5038.12 | -4999.91 | 770.58 | 0.00 | 14253668.59 | 774676.47 | N 39 12 35.83 | W 108 3 22.11 |
| | 11800.00 | 91.50 | 182.00 | 7574.27 | 5137.62 | -5099.82 | 767.09 | 0.00 | 14253568.64 | 774672.98 | N 39 12 34.84 | W 108 3 22.11 |
| | 11900.00 | 91.50 | 182.00 | 7571.65 | 5237.11 | -5199.72 | 763.60 | 0.00 | 14253468.69 | 774669.49 | N 39 12 33.85 | W 108 3 22.11 |
| | 12000.00 | 91.50 | 182.00 | 7569.03 | 5336.61 | -5299.63 | 760.11 | 0.00 | 14253368.74 | 774666.00 | N 39 12 32.86 | W 108 3 22.11 |
| | 12100.00 | 91.50 | 182.00 | 7566.42 | 5436.10 | -5399.53 | 756.63 | 0.00 | 14253268.79 | 774662.51 | N 39 12 31.88 | W 108 3 22.11 |
| | 12200.00 | 91.50 | 182.00 | 7563.80 | 5535.60 | -5499.44 | 753.14 | 0.00 | 14253168.84 | 774659.02 | N 39 12 30.89 | W 108 3 22.12 |
| | 12300.00 | 91.50 | 182.00 | 7561.18 | 5635.09 | -5599.34 | 749.65 | 0.00 | 14253068.89 | 774655.53 | N 39 12 29.90 | W 108 3 22.12 |
| | 12400.00 | 91.50 | 182.00 | 7558.56 | 5734.59 | -5699.25 | 746.16 | 0.00 | 14252968.94 | 774652.04 | N 39 12 28.91 | W 108 3 22.12 |
| | 12500.00 | 91.50 | 182.00 | 7555.95 | 5834.08 | -5799.15 | 742.67 | 0.00 | 14252868.98 | 774648.55 | N 39 12 27.92 | W 108 3 22.12 |
| | 12600.00 | 91.50 | 182.00 | 7553.33 | 5933.58 | -5899.06 | 739.18 | 0.00 | 14252769.03 | 774645.06 | N 39 12 26.94 | W 108 3 22.12 |
| | 12700.00 | 91.50 | 182.00 | 7550.71 | 6033.07 | -5998.96 | 735.69 | 0.00 | 14252669.08 | 774641.57 | N 39 12 25.95 | W 108 3 22.12 |
| | 12800.00 | 91.50 | 182.00 | 7548.09 | 6132.57 | -6098.86 | 732.20 | 0.00 | 14252569.13 | 774638.08 | N 39 12 24.96 | W 108 3 22.12 |
| | 12900.00 | 91.50 | 182.00 | 7545.47 | 6232.07 | -6198.77 | 728.72 | 0.00 | 14252469.18 | 774634.59 | N 39 12 23.97 | W 108 3 22.13 |
| | 13000.00 | 91.50 | 182.00 | 7542.86 | 6331.56 | -6298.67 | 725.23 | 0.00 | 14252369.23 | 774631.10 | N 39 12 22.98 | W 108 3 22.13 |
| | 13100.00 | 91.50 | 182.00 | 7540.24 | 6431.06 | -6398.58 | 721.74 | 0.00 | 14252269.28 | 774627.61 | N 39 12 22.00 | W 108 3 22.13 |
| | 13200.00 | 91.50 | 182.00 | 7537.62 | 6530.55 | -6498.48 | 718.25 | 0.00 | 14252169.33 | 774624.12 | N 39 12 21.01 | W 108 3 22.13 |
| | 13300.00 | 91.50 | 182.00 | 7535.00 | 6630.05 | -6598.39 | 714.76 | 0.00 | 14252069.38 | 774620.62 | N 39 12 20.02 | W 108 3 22.13 |
| | 13400.00 | 91.50 | 182.00 | 7532.39 | 6729.54 | -6698.29 | 711.27 | 0.00 | 14251969.43 | 774617.13 | N 39 12 19.03 | W 108 3 22.13 |
| | 13500.00 | 91.50 | 182.00 | 7529.77 | 6829.04 | -6798.20 | 707.78 | 0.00 | 14251869.48 | 774613.64 | N 39 12 18.04 | W 108 3 22.14 |
| | 13600.00 | 91.50 | 182.00 | 7527.15 | 6928.53 | -6898.10 | 704.29 | 0.00 | 14251769.53 | 774610.15 | N 39 12 17.06 | W 108 3 22.14 |
| | 13700.00 | 91.50 | 182.00 | 7524.53 | 7028.03 | -6998.01 | 700.81 | 0.00 | 14251669.58 | 774606.66 | N 39 12 16.07 | W 108 3 22.14 |
| | 13800.00 | 91.50 | 182.00 | 7521.92 | 7127.52 | -7097.91 | 697.32 | 0.00 | 14251569.63 | 774603.17 | N 39 12 15.08 | W 108 3 22.14 |
| | 13900.00 | 91.50 | 182.00 | 7519.30 | 7227.02 | -7197.82 | 693.83 | 0.00 | 14251469.68 | 774599.68 | N 39 12 14.09 | W 108 3 22.14 |
| | 14000.00 | 91.50 | 182.00 | 7516.68 | 7326.51 | -7297.72 | 690.34 | 0.00 | 14251369.73 | 774596.19 | N 39 12 13.10 | W 108 3 22.14 |
| | 14100.00 | 91.50 | 182.00 | 7514.06 | 7426.01 | -7397.63 | 686.85 | 0.00 | 14251269.78 | 774592.70 | N 39 12 12.12 | W 108 3 22.14 |
| | 14200.00 | 91.50 | 182.00 | 7511.44 | 7525.50 | -7497.53 | 683.36 | 0.00 | 14251169.83 | 774589.21 | N 39 12 11.13 | W 108 3 22.15 |
| | 14300.00 | 91.50 | 182.00 | 7508.83 | 7625.00 | -7597.44 | 679.87 | 0.00 | 14251069.88 | 774585.72 | N 39 12 10.14 | W 108 3 22.15 |
| | 14400.00 | 91.50 | 182.00 | 7506.21 | 7724.49 | -7697.34 | 676.38 | 0.00 | 14250969.93 | 774582.23 | N 39 12 9.15 | W 108 3 22.15 |
| | 14500.00 | 91.50 | 182.00 | 7503.59 | 7823.99 | -7797.25 | 672.90 | 0.00 | 14250869.97 | 774578.74 | N 39 12 8.16 | W 108 3 22.15 |
| | 14600.00 | 91.50 | 182.00 | 7500.97 | 7923.48 | -7897.15 | 669.41 | 0.00 | 14250770.02 | 774575.25 | N 39 12 7.17 | W 108 3 22.15 |
| | 14700.00 | 91.50 | 182.00 | 7498.36 | 8022.98 | -7997.06 | 665.92 | 0.00 | 14250670.07 | 774571.76 | N 39 12 6.19 | W 108 3 22.15 |
| | 14800.00 | 91.50 | 182.00 | 7495.74 | 8122.47 | -8096.96 | 662.43 | 0.00 | 14250570.12 | 774568.27 | N 39 12 5.20 | W 108 3 22.15 |
| | 14900.00 | 91.50 | 182.00 | 7493.12 | 8221.97 | -8196.87 | 658.94 | 0.00 | 14250470.17 | 774564.78 | N 39 12 4.21 | W 108 3 22.16 |
| | 15000.00 | 91.50 | 182.00 | 7490.50 | 8321.46 | -8296.77 | 655.45 | 0.00 | 14250370.22 | 774561.29 | N 39 12 3.22 | W 108 3 22.16 |
| | 15100.00 | 91.50 | 182.00 | 7487.89 | 8420.96 | -8396.68 | 651.96 | 0.00</ | | | | |