

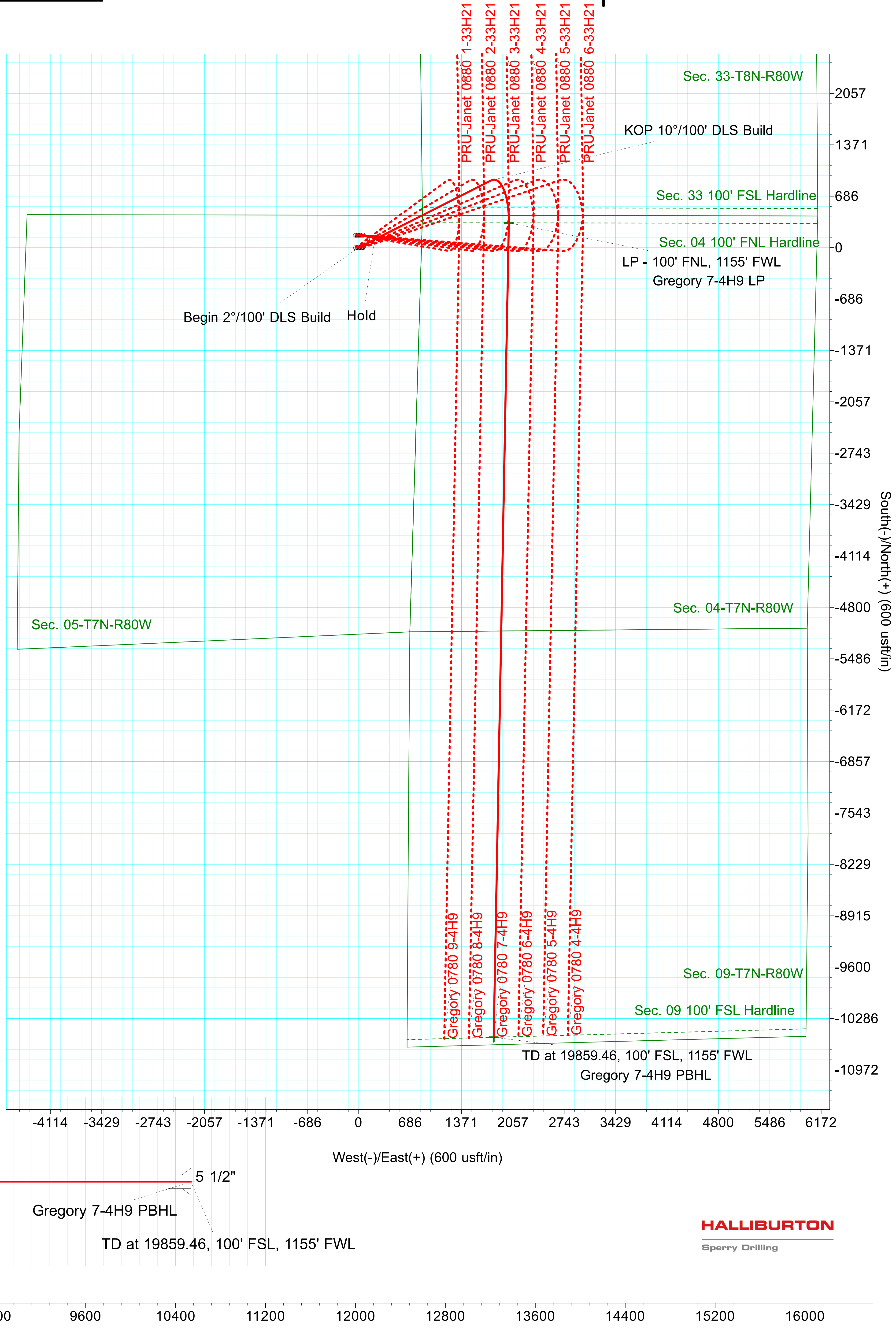
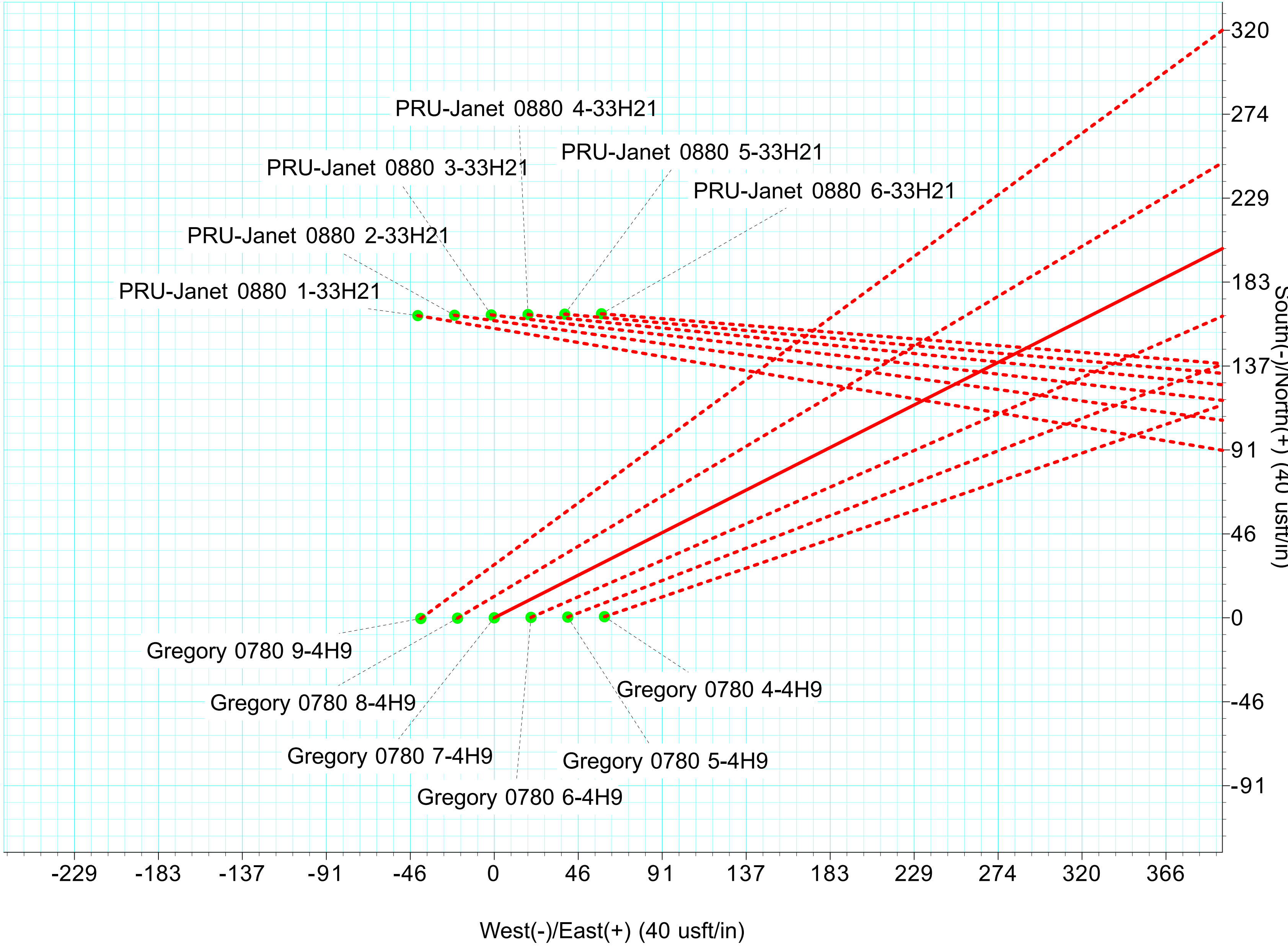
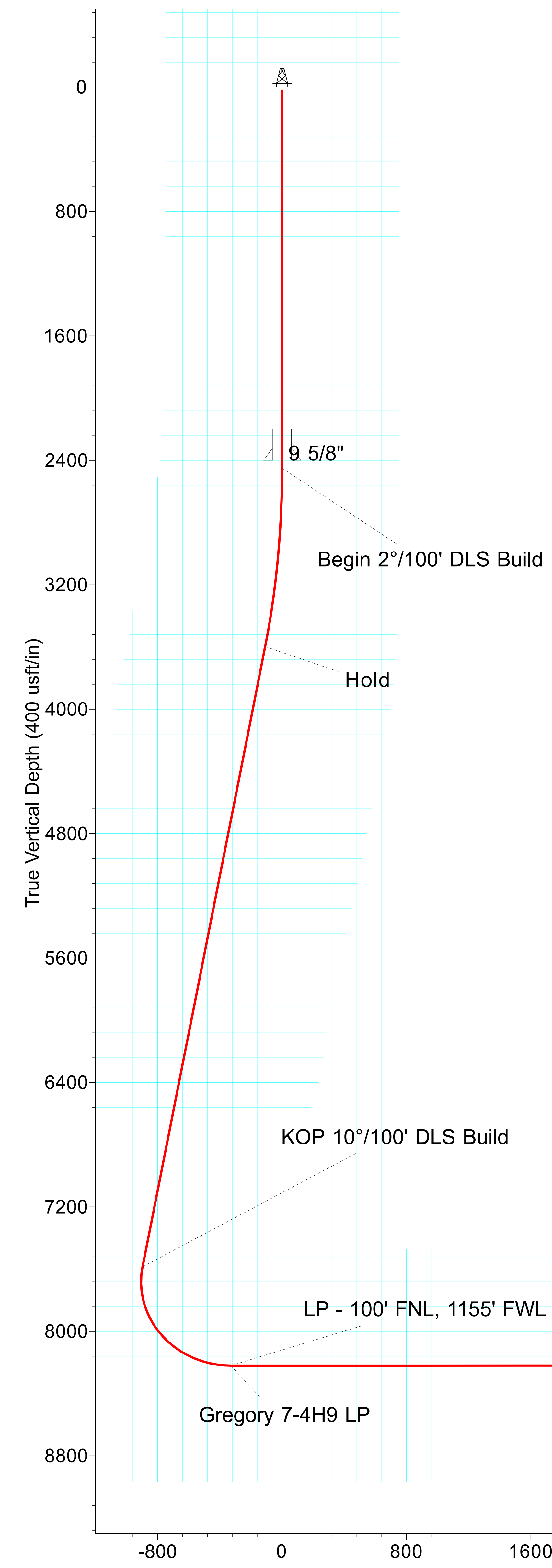
Company: D90 Energy, LLC
 Well Name: Gregory 0780 7-4H9
 County: Jackson County, CO
 Rig: Ironhand 118
 Wellbore: OWB_
 Plan: P1
 Created By: B Hand
 Job #:

PROJECT DETAILS: Jackson County, CO
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level
 Date: 12:53, June 15 2022

WELL DETAILS: Gregory 0780 7-4H9
 Ground Level: 8097.25
 RKB = 23.5' @ 8120.75usft (Ironhand 118)
 +N/-S: 0.00 +E/-W: 0.00 Northing: 1467751.42 Easting: 2752819.41 Latitude: 40.613969 Longitude: -106.390335

T
M
 Azimuths to True North
 Magnetic North: 8.61°
 Magnetic Field
 Strength: 51925.6snT
 Dip Angle: 66.59°
 Date: 6/15/2022
 Model: BGGM2022

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Ddeg | TFace | Vsect | Annotation |
|-----|----------|-------|--------|---------|-----------|---------|-------|--------|----------|-------------------------------------|
| 1 | 23.50 | 0.00 | 0.00 | 23.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 2450.00 | 0.00 | 0.00 | 2450.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Begin 2°/100' DLS Build |
| 3 | 3630.72 | 23.61 | 63.10 | 3597.58 | 108.52 | 213.94 | 2.00 | 63.10 | -108.52 | Hold |
| 4 | 7982.70 | 23.61 | 63.10 | 7585.13 | 897.13 | 1768.69 | 0.00 | 0.00 | -897.13 | KOP 10°/100' DLS Build |
| 5 | 8990.95 | 90.00 | 181.06 | 8220.00 | 329.91 | 2003.35 | 10.00 | 115.94 | -329.91 | LP - 100' FNL, 1155' FWL |
| 6 | 19859.46 | 90.00 | 181.06 | 8220.00 | -10536.73 | 1801.45 | 0.00 | 0.00 | 10536.73 | TD at 19859.46, 100' FSL, 1155' FWL |



Vertical Section at 180.00° (400 usft/in)



Ironhand 118

D90 Energy, LLC

Jackson County, CO Sec. 05-T7N-R80W

API#

Gregory 0780 7-4H9

433' FNL, 837' FEL

OWB_

Plan: P1

Sperry Drilling Services

Combo Report

15 June, 2022

Well Coordinates: 40.613969
-106.390335

North American Datum 1983
Colorado Northern Zone
1,467,751.42 N
2,752,819.41 E

Ground Level: 8,097.25 usft

Geodetic Scale Factor Applied

Local Coordinate Origin:

Centered on Well Gregory 0780 7-4H9

Viewing Datum:

RKB = 23.5' @ 8120.75usft (Ironhand 118)

TVDs to System:

N

North Reference:

True

Unit System:

Midcon

Geodetic Scale Factor Applied

Version: 5000.15 Build: 91F

Report Version: Midcon Combo v1.15

HALLIBURTON

Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates | | Map Coordinates | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------|-----------------|------------------|-----------------------|-------------------|----------------|-----------------|----------------|-------------------------|-------------------------|--------------------|-------------------------|
| | | | | Northing (usft) | Easting (usft) | Northing (usft) | Easting (usft) | | | | |
| 23.50 | 0.00 | 0.00 | 23.50 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | 9 5/8" |
| 2,450.00 | 0.00 | 0.00 | 2,450.00 | 0.00 N | 0.00 E | 1,467,751.42 | 2,752,819.41 | 0.00 | 0.00 | 0.00 | Begin 2"/100' DLS Build |
| 2,500.00 | 1.00 | 63.10 | 2,500.00 | 0.20 N | 0.39 E | 1,467,751.61 | 2,752,819.80 | 2.00 | -0.20 | 63.10 | |
| 2,600.00 | 3.00 | 63.10 | 2,599.93 | 1.78 N | 3.50 E | 1,467,753.16 | 2,752,822.93 | 2.00 | -1.78 | 0.00 | |
| 2,700.00 | 5.00 | 63.10 | 2,699.68 | 4.93 N | 9.72 E | 1,467,756.25 | 2,752,829.18 | 2.00 | -4.93 | 0.00 | |
| 2,800.00 | 7.00 | 63.10 | 2,799.13 | 9.66 N | 19.04 E | 1,467,760.89 | 2,752,838.55 | 2.00 | -9.66 | 0.00 | |
| 2,900.00 | 9.00 | 63.10 | 2,898.15 | 15.95 N | 31.46 E | 1,467,767.06 | 2,752,851.02 | 2.00 | -15.95 | 0.00 | |
| 3,000.00 | 11.00 | 63.10 | 2,996.63 | 23.81 N | 46.94 E | 1,467,774.76 | 2,752,866.59 | 2.00 | -23.81 | 0.00 | |
| 3,100.00 | 13.00 | 63.10 | 3,094.44 | 33.21 N | 65.48 E | 1,467,783.97 | 2,752,885.22 | 2.00 | -33.21 | 0.00 | |
| 3,200.00 | 15.00 | 63.10 | 3,191.46 | 44.16 N | 87.06 E | 1,467,794.70 | 2,752,906.90 | 2.00 | -44.16 | 0.00 | |
| 3,300.00 | 17.00 | 63.10 | 3,287.58 | 56.63 N | 111.64 E | 1,467,806.92 | 2,752,931.61 | 2.00 | -56.63 | 0.00 | |
| 3,400.00 | 19.00 | 63.10 | 3,382.68 | 70.60 N | 139.20 E | 1,467,820.62 | 2,752,959.30 | 2.00 | -70.60 | 0.00 | |

Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates | | Map Coordinates | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------|-----------------|------------------|-----------------------|-------------------|----------------|-----------------|----------------|-------------------------|-------------------------|--------------------|----------|
| | | | | Northing (usft) | Easting (usft) | Northing (usft) | Easting (usft) | | | | |
| 3,500.00 | 21.00 | 63.10 | 3,476.65 | 86.07 N | 169.70 E | 1,467,835.78 | 2,752,989.96 | 2.00 | -86.07 | 0.00 | |
| 3,600.00 | 23.00 | 63.10 | 3,569.36 | 103.02 N | 203.10 E | 1,467,852.39 | 2,753,023.53 | 2.00 | -103.02 | 0.00 | |
| 3,630.72 | 23.61 | 63.10 | 3,597.58 | 108.52 N | 213.94 E | 1,467,857.78 | 2,753,034.43 | 2.00 | -108.52 | 0.00 | Hold |
| 3,700.00 | 23.61 | 63.10 | 3,661.05 | 121.07 N | 238.69 E | 1,467,870.09 | 2,753,059.30 | 0.00 | -121.07 | 0.00 | |
| 3,800.00 | 23.61 | 63.10 | 3,752.68 | 139.19 N | 274.42 E | 1,467,887.85 | 2,753,095.21 | 0.00 | -139.19 | 0.00 | |
| 3,900.00 | 23.61 | 63.10 | 3,844.31 | 157.31 N | 310.14 E | 1,467,905.61 | 2,753,131.11 | 0.00 | -157.31 | 0.00 | |
| 4,000.00 | 23.61 | 63.10 | 3,935.93 | 175.43 N | 345.87 E | 1,467,923.37 | 2,753,167.01 | 0.00 | -175.43 | 0.00 | |
| 4,100.00 | 23.61 | 63.10 | 4,027.56 | 193.55 N | 381.59 E | 1,467,941.13 | 2,753,202.92 | 0.00 | -193.55 | 0.00 | |
| 4,200.00 | 23.61 | 63.10 | 4,119.18 | 211.68 N | 417.32 E | 1,467,958.89 | 2,753,238.82 | 0.00 | -211.68 | 0.00 | |
| 4,300.00 | 23.61 | 63.10 | 4,210.81 | 229.80 N | 453.04 E | 1,467,976.65 | 2,753,274.73 | 0.00 | -229.80 | 0.00 | |
| 4,400.00 | 23.61 | 63.10 | 4,302.44 | 247.92 N | 488.77 E | 1,467,994.41 | 2,753,310.63 | 0.00 | -247.92 | 0.00 | |
| 4,500.00 | 23.61 | 63.10 | 4,394.06 | 266.04 N | 524.49 E | 1,468,012.17 | 2,753,346.54 | 0.00 | -266.04 | 0.00 | |
| 4,600.00 | 23.61 | 63.10 | 4,485.69 | 284.16 N | 560.22 E | 1,468,029.93 | 2,753,382.44 | 0.00 | -284.16 | 0.00 | |
| 4,700.00 | 23.61 | 63.10 | 4,577.32 | 302.28 N | 595.94 E | 1,468,047.69 | 2,753,418.35 | 0.00 | -302.28 | 0.00 | |
| 4,800.00 | 23.61 | 63.10 | 4,668.94 | 320.40 N | 631.67 E | 1,468,065.45 | 2,753,454.25 | 0.00 | -320.40 | 0.00 | |
| 4,900.00 | 23.61 | 63.10 | 4,760.57 | 338.52 N | 667.39 E | 1,468,083.22 | 2,753,490.15 | 0.00 | -338.52 | 0.00 | |
| 5,000.00 | 23.61 | 63.10 | 4,852.19 | 356.64 N | 703.12 E | 1,468,100.98 | 2,753,526.06 | 0.00 | -356.64 | 0.00 | |
| 5,100.00 | 23.61 | 63.10 | 4,943.82 | 374.76 N | 738.84 E | 1,468,118.74 | 2,753,561.96 | 0.00 | -374.76 | 0.00 | |
| 5,200.00 | 23.61 | 63.10 | 5,035.45 | 392.88 N | 774.57 E | 1,468,136.50 | 2,753,597.87 | 0.00 | -392.88 | 0.00 | |
| 5,300.00 | 23.61 | 63.10 | 5,127.07 | 411.00 N | 810.29 E | 1,468,154.26 | 2,753,633.77 | 0.00 | -411.00 | 0.00 | |
| 5,400.00 | 23.61 | 63.10 | 5,218.70 | 429.12 N | 846.02 E | 1,468,172.02 | 2,753,669.68 | 0.00 | -429.12 | 0.00 | |
| 5,500.00 | 23.61 | 63.10 | 5,310.33 | 447.24 N | 881.74 E | 1,468,189.78 | 2,753,705.58 | 0.00 | -447.24 | 0.00 | |
| 5,600.00 | 23.61 | 63.10 | 5,401.95 | 465.37 N | 917.47 E | 1,468,207.54 | 2,753,741.48 | 0.00 | -465.37 | 0.00 | |
| 5,700.00 | 23.61 | 63.10 | 5,493.58 | 483.49 N | 953.19 E | 1,468,225.30 | 2,753,777.39 | 0.00 | -483.49 | 0.00 | |
| 5,800.00 | 23.61 | 63.10 | 5,585.20 | 501.61 N | 988.92 E | 1,468,243.06 | 2,753,813.29 | 0.00 | -501.61 | 0.00 | |
| 5,900.00 | 23.61 | 63.10 | 5,676.83 | 519.73 N | 1,024.64 E | 1,468,260.82 | 2,753,849.20 | 0.00 | -519.73 | 0.00 | |
| 6,000.00 | 23.61 | 63.10 | 5,768.46 | 537.85 N | 1,060.37 E | 1,468,278.58 | 2,753,885.10 | 0.00 | -537.85 | 0.00 | |
| 6,100.00 | 23.61 | 63.10 | 5,860.08 | 555.97 N | 1,096.10 E | 1,468,296.34 | 2,753,921.01 | 0.00 | -555.97 | 0.00 | |
| 6,200.00 | 23.61 | 63.10 | 5,951.71 | 574.09 N | 1,131.82 E | 1,468,314.10 | 2,753,956.91 | 0.00 | -574.09 | 0.00 | |
| 6,300.00 | 23.61 | 63.10 | 6,043.34 | 592.21 N | 1,167.55 E | 1,468,331.86 | 2,753,992.82 | 0.00 | -592.21 | 0.00 | |
| 6,400.00 | 23.61 | 63.10 | 6,134.96 | 610.33 N | 1,203.27 E | 1,468,349.63 | 2,754,028.72 | 0.00 | -610.33 | 0.00 | |
| 6,500.00 | 23.61 | 63.10 | 6,226.59 | 628.45 N | 1,239.00 E | 1,468,367.39 | 2,754,064.62 | 0.00 | -628.45 | 0.00 | |
| 6,600.00 | 23.61 | 63.10 | 6,318.21 | 646.57 N | 1,274.72 E | 1,468,385.15 | 2,754,100.53 | 0.00 | -646.57 | 0.00 | |
| 6,700.00 | 23.61 | 63.10 | 6,409.84 | 664.69 N | 1,310.45 E | 1,468,402.91 | 2,754,136.43 | 0.00 | -664.69 | 0.00 | |
| 6,800.00 | 23.61 | 63.10 | 6,501.47 | 682.81 N | 1,346.17 E | 1,468,420.67 | 2,754,172.34 | 0.00 | -682.81 | 0.00 | |
| 6,900.00 | 23.61 | 63.10 | 6,593.09 | 700.93 N | 1,381.90 E | 1,468,438.43 | 2,754,208.24 | 0.00 | -700.93 | 0.00 | |
| 7,000.00 | 23.61 | 63.10 | 6,684.72 | 719.06 N | 1,417.62 E | 1,468,456.19 | 2,754,244.15 | 0.00 | -719.06 | 0.00 | |

Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates | | Map Coordinates | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------------|--------------------|------------------------|-----------------------------|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|--------------------------|--------------------------|
| | | | | Northing (usft) | Easting (usft) | Northing (usft) | Easting (usft) | | | | |
| 7,100.00 | 23.61 | 63.10 | 6,776.34 | 737.18 N | 1,453.35 E | 1,468,473.95 | 2,754,280.05 | 0.00 | -737.18 | 0.00 | |
| 7,200.00 | 23.61 | 63.10 | 6,867.97 | 755.30 N | 1,489.07 E | 1,468,491.71 | 2,754,315.95 | 0.00 | -755.30 | 0.00 | |
| 7,300.00 | 23.61 | 63.10 | 6,959.60 | 773.42 N | 1,524.80 E | 1,468,509.47 | 2,754,351.86 | 0.00 | -773.42 | 0.00 | |
| 7,400.00 | 23.61 | 63.10 | 7,051.22 | 791.54 N | 1,560.52 E | 1,468,527.23 | 2,754,387.76 | 0.00 | -791.54 | 0.00 | |
| 7,500.00 | 23.61 | 63.10 | 7,142.85 | 809.66 N | 1,596.25 E | 1,468,544.99 | 2,754,423.67 | 0.00 | -809.66 | 0.00 | |
| 7,600.00 | 23.61 | 63.10 | 7,234.48 | 827.78 N | 1,631.97 E | 1,468,562.75 | 2,754,459.57 | 0.00 | -827.78 | 0.00 | |
| 7,700.00 | 23.61 | 63.10 | 7,326.10 | 845.90 N | 1,667.70 E | 1,468,580.51 | 2,754,495.48 | 0.00 | -845.90 | 0.00 | |
| 7,800.00 | 23.61 | 63.10 | 7,417.73 | 864.02 N | 1,703.42 E | 1,468,598.28 | 2,754,531.38 | 0.00 | -864.02 | 0.00 | |
| 7,900.00 | 23.61 | 63.10 | 7,509.35 | 882.14 N | 1,739.15 E | 1,468,616.04 | 2,754,567.28 | 0.00 | -882.14 | 0.00 | |
| 7,982.70 | 23.61 | 63.10 | 7,585.13 | 897.13 N | 1,768.69 E | 1,468,630.72 | 2,754,596.98 | 0.00 | -897.13 | 0.00 | KOP 10°/100' DLS Build |
| 8,000.00 | 22.91 | 67.11 | 7,601.02 | 900.01 N | 1,774.88 E | 1,468,633.54 | 2,754,603.20 | 10.00 | -900.01 | 115.94 | |
| 8,100.00 | 21.13 | 93.58 | 7,693.95 | 906.47 N | 1,810.90 E | 1,468,639.64 | 2,754,639.27 | 10.00 | -906.47 | 112.26 | |
| 8,200.00 | 23.65 | 119.20 | 7,786.63 | 895.53 N | 1,846.48 E | 1,468,628.35 | 2,754,674.75 | 10.00 | -895.53 | 87.66 | |
| 8,300.00 | 29.37 | 137.74 | 7,876.23 | 867.52 N | 1,880.57 E | 1,468,600.00 | 2,754,708.55 | 10.00 | -867.52 | 63.90 | |
| 8,400.00 | 36.83 | 150.03 | 7,960.03 | 823.30 N | 1,912.12 E | 1,468,555.46 | 2,754,739.65 | 10.00 | -823.30 | 47.26 | |
| 8,500.00 | 45.17 | 158.49 | 8,035.50 | 764.19 N | 1,940.17 E | 1,468,496.08 | 2,754,767.11 | 10.00 | -764.19 | 36.94 | |
| 8,600.00 | 53.97 | 164.75 | 8,100.33 | 692.01 N | 1,963.86 E | 1,468,423.67 | 2,754,790.08 | 10.00 | -692.01 | 30.53 | |
| 8,700.00 | 63.02 | 169.73 | 8,152.56 | 608.95 N | 1,982.49 E | 1,468,340.42 | 2,754,807.87 | 10.00 | -608.95 | 26.45 | |
| 8,800.00 | 72.23 | 173.96 | 8,190.59 | 517.52 N | 1,995.48 E | 1,468,248.87 | 2,754,819.94 | 10.00 | -517.52 | 23.84 | |
| 8,900.00 | 81.52 | 177.76 | 8,213.28 | 420.51 N | 2,002.44 E | 1,468,151.79 | 2,754,825.93 | 10.00 | -420.51 | 22.23 | |
| 8,990.95 | 90.00 | 181.06 | 8,220.00 | 329.91 N | 2,003.35 E | 1,468,061.19 | 2,754,825.93 | 10.00 | -329.91 | 21.36 | LP - 100' FNL, 1155' FWL |
| 9,000.00 | 90.00 | 181.06 | 8,220.00 | 320.86 N | 2,003.19 E | 1,468,052.14 | 2,754,825.67 | 0.00 | -320.86 | 0.00 | |
| 9,100.00 | 90.00 | 181.06 | 8,220.00 | 220.87 N | 2,001.33 E | 1,467,952.18 | 2,754,822.81 | 0.00 | -220.87 | 0.00 | |
| 9,200.00 | 90.00 | 181.06 | 8,220.00 | 120.89 N | 1,999.47 E | 1,467,852.23 | 2,754,819.95 | 0.00 | -120.89 | 0.00 | |
| 9,300.00 | 90.00 | 181.06 | 8,220.00 | 20.91 N | 1,997.61 E | 1,467,752.27 | 2,754,817.09 | 0.00 | -20.91 | 0.00 | |
| 9,400.00 | 90.00 | 181.06 | 8,220.00 | 79.07 S | 1,995.76 E | 1,467,652.31 | 2,754,814.23 | 0.00 | 79.07 | 0.00 | |
| 9,500.00 | 90.00 | 181.06 | 8,220.00 | 179.06 S | 1,993.90 E | 1,467,552.36 | 2,754,811.36 | 0.00 | 179.06 | 0.00 | |
| 9,600.00 | 90.00 | 181.06 | 8,220.00 | 279.04 S | 1,992.04 E | 1,467,452.40 | 2,754,808.50 | 0.00 | 279.04 | 0.00 | |
| 9,700.00 | 90.00 | 181.06 | 8,220.00 | 379.02 S | 1,990.18 E | 1,467,352.44 | 2,754,805.64 | 0.00 | 379.02 | 0.00 | |
| 9,800.00 | 90.00 | 181.06 | 8,220.00 | 479.00 S | 1,988.33 E | 1,467,252.49 | 2,754,802.78 | 0.00 | 479.00 | 0.00 | |
| 9,900.00 | 90.00 | 181.06 | 8,220.00 | 578.99 S | 1,986.47 E | 1,467,152.53 | 2,754,799.92 | 0.00 | 578.99 | 0.00 | |
| 10,000.00 | 90.00 | 181.06 | 8,220.00 | 678.97 S | 1,984.61 E | 1,467,052.57 | 2,754,797.06 | 0.00 | 678.97 | 0.00 | |
| 10,100.00 | 90.00 | 181.06 | 8,220.00 | 778.95 S | 1,982.75 E | 1,466,952.62 | 2,754,794.20 | 0.00 | 778.95 | 0.00 | |
| 10,200.00 | 90.00 | 181.06 | 8,220.00 | 878.94 S | 1,980.89 E | 1,466,852.66 | 2,754,791.33 | 0.00 | 878.94 | 0.00 | |
| 10,300.00 | 90.00 | 181.06 | 8,220.00 | 978.92 S | 1,979.04 E | 1,466,752.70 | 2,754,788.47 | 0.00 | 978.92 | 0.00 | |
| 10,400.00 | 90.00 | 181.06 | 8,220.00 | 1,078.90 S | 1,977.18 E | 1,466,652.75 | 2,754,785.61 | 0.00 | 1,078.90 | 0.00 | |
| 10,500.00 | 90.00 | 181.06 | 8,220.00 | 1,178.88 S | 1,975.32 E | 1,466,552.79 | 2,754,782.75 | 0.00 | 1,178.88 | 0.00 | |

Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates | | Map Coordinates | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------------|--------------------|------------------------|-----------------------------|--------------------|-------------------|--------------------|-------------------|-------------------------------|-------------------------------|--------------------------|----------|
| | | | | Northing (usft) | Easting (usft) | Northing (usft) | Easting (usft) | | | | |
| 10,600.00 | 90.00 | 181.06 | 8,220.00 | 1,278.87 S | 1,973.46 E | 1,466,452.83 | 2,754,779.89 | 0.00 | 1,278.87 | 0.00 | |
| 10,700.00 | 90.00 | 181.06 | 8,220.00 | 1,378.85 S | 1,971.61 E | 1,466,352.88 | 2,754,777.03 | 0.00 | 1,378.85 | 0.00 | |
| 10,800.00 | 90.00 | 181.06 | 8,220.00 | 1,478.83 S | 1,969.75 E | 1,466,252.92 | 2,754,774.17 | 0.00 | 1,478.83 | 0.00 | |
| 10,900.00 | 90.00 | 181.06 | 8,220.00 | 1,578.82 S | 1,967.89 E | 1,466,152.96 | 2,754,771.30 | 0.00 | 1,578.82 | 0.00 | |
| 11,000.00 | 90.00 | 181.06 | 8,220.00 | 1,678.80 S | 1,966.03 E | 1,466,053.01 | 2,754,768.44 | 0.00 | 1,678.80 | 0.00 | |
| 11,100.00 | 90.00 | 181.06 | 8,220.00 | 1,778.78 S | 1,964.18 E | 1,465,953.05 | 2,754,765.58 | 0.00 | 1,778.78 | 0.00 | |
| 11,200.00 | 90.00 | 181.06 | 8,220.00 | 1,878.76 S | 1,962.32 E | 1,465,853.09 | 2,754,762.72 | 0.00 | 1,878.76 | 0.00 | |
| 11,300.00 | 90.00 | 181.06 | 8,220.00 | 1,978.75 S | 1,960.46 E | 1,465,753.14 | 2,754,759.86 | 0.00 | 1,978.75 | 0.00 | |
| 11,400.00 | 90.00 | 181.06 | 8,220.00 | 2,078.73 S | 1,958.60 E | 1,465,653.18 | 2,754,757.00 | 0.00 | 2,078.73 | 0.00 | |
| 11,500.00 | 90.00 | 181.06 | 8,220.00 | 2,178.71 S | 1,956.74 E | 1,465,553.22 | 2,754,754.14 | 0.00 | 2,178.71 | 0.00 | |
| 11,600.00 | 90.00 | 181.06 | 8,220.00 | 2,278.69 S | 1,954.89 E | 1,465,453.27 | 2,754,751.28 | 0.00 | 2,278.69 | 0.00 | |
| 11,700.00 | 90.00 | 181.06 | 8,220.00 | 2,378.68 S | 1,953.03 E | 1,465,353.31 | 2,754,748.41 | 0.00 | 2,378.68 | 0.00 | |
| 11,800.00 | 90.00 | 181.06 | 8,220.00 | 2,478.66 S | 1,951.17 E | 1,465,253.35 | 2,754,745.55 | 0.00 | 2,478.66 | 0.00 | |
| 11,900.00 | 90.00 | 181.06 | 8,220.00 | 2,578.64 S | 1,949.31 E | 1,465,153.40 | 2,754,742.69 | 0.00 | 2,578.64 | 0.00 | |
| 12,000.00 | 90.00 | 181.06 | 8,220.00 | 2,678.63 S | 1,947.46 E | 1,465,053.44 | 2,754,739.83 | 0.00 | 2,678.63 | 0.00 | |
| 12,100.00 | 90.00 | 181.06 | 8,220.00 | 2,778.61 S | 1,945.60 E | 1,464,953.48 | 2,754,736.97 | 0.00 | 2,778.61 | 0.00 | |
| 12,200.00 | 90.00 | 181.06 | 8,220.00 | 2,878.59 S | 1,943.74 E | 1,464,853.53 | 2,754,734.11 | 0.00 | 2,878.59 | 0.00 | |
| 12,300.00 | 90.00 | 181.06 | 8,220.00 | 2,978.57 S | 1,941.88 E | 1,464,753.57 | 2,754,731.25 | 0.00 | 2,978.57 | 0.00 | |
| 12,400.00 | 90.00 | 181.06 | 8,220.00 | 3,078.56 S | 1,940.03 E | 1,464,653.61 | 2,754,728.38 | 0.00 | 3,078.56 | 0.00 | |
| 12,500.00 | 90.00 | 181.06 | 8,220.00 | 3,178.54 S | 1,938.17 E | 1,464,553.66 | 2,754,725.52 | 0.00 | 3,178.54 | 0.00 | |
| 12,600.00 | 90.00 | 181.06 | 8,220.00 | 3,278.52 S | 1,936.31 E | 1,464,453.70 | 2,754,722.66 | 0.00 | 3,278.52 | 0.00 | |
| 12,700.00 | 90.00 | 181.06 | 8,220.00 | 3,378.50 S | 1,934.45 E | 1,464,353.74 | 2,754,719.80 | 0.00 | 3,378.50 | 0.00 | |
| 12,800.00 | 90.00 | 181.06 | 8,220.00 | 3,478.49 S | 1,932.59 E | 1,464,253.79 | 2,754,716.94 | 0.00 | 3,478.49 | 0.00 | |
| 12,900.00 | 90.00 | 181.06 | 8,220.00 | 3,578.47 S | 1,930.74 E | 1,464,153.83 | 2,754,714.08 | 0.00 | 3,578.47 | 0.00 | |
| 13,000.00 | 90.00 | 181.06 | 8,220.00 | 3,678.45 S | 1,928.88 E | 1,464,053.87 | 2,754,711.22 | 0.00 | 3,678.45 | 0.00 | |
| 13,100.00 | 90.00 | 181.06 | 8,220.00 | 3,778.44 S | 1,927.02 E | 1,463,953.91 | 2,754,708.35 | 0.00 | 3,778.44 | 0.00 | |
| 13,200.00 | 90.00 | 181.06 | 8,220.00 | 3,878.42 S | 1,925.16 E | 1,463,853.96 | 2,754,705.49 | 0.00 | 3,878.42 | 0.00 | |
| 13,300.00 | 90.00 | 181.06 | 8,220.00 | 3,978.40 S | 1,923.31 E | 1,463,754.00 | 2,754,702.63 | 0.00 | 3,978.40 | 0.00 | |
| 13,400.00 | 90.00 | 181.06 | 8,220.00 | 4,078.38 S | 1,921.45 E | 1,463,654.04 | 2,754,699.77 | 0.00 | 4,078.38 | 0.00 | |
| 13,500.00 | 90.00 | 181.06 | 8,220.00 | 4,178.37 S | 1,919.59 E | 1,463,554.09 | 2,754,696.91 | 0.00 | 4,178.37 | 0.00 | |
| 13,600.00 | 90.00 | 181.06 | 8,220.00 | 4,278.35 S | 1,917.73 E | 1,463,454.13 | 2,754,694.05 | 0.00 | 4,278.35 | 0.00 | |
| 13,700.00 | 90.00 | 181.06 | 8,220.00 | 4,378.33 S | 1,915.88 E | 1,463,354.17 | 2,754,691.19 | 0.00 | 4,378.33 | 0.00 | |
| 13,800.00 | 90.00 | 181.06 | 8,220.00 | 4,478.31 S | 1,914.02 E | 1,463,254.22 | 2,754,688.32 | 0.00 | 4,478.31 | 0.00 | |
| 13,900.00 | 90.00 | 181.06 | 8,220.00 | 4,578.30 S | 1,912.16 E | 1,463,154.26 | 2,754,685.46 | 0.00 | 4,578.30 | 0.00 | |
| 14,000.00 | 90.00 | 181.06 | 8,220.00 | 4,678.28 S | 1,910.30 E | 1,463,054.30 | 2,754,682.60 | 0.00 | 4,678.28 | 0.00 | |
| 14,100.00 | 90.00 | 181.06 | 8,220.00 | 4,778.26 S | 1,908.45 E | 1,462,954.35 | 2,754,679.74 | 0.00 | 4,778.26 | 0.00 | |



Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates | | Map Coordinates | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------|-----------------|------------------|-----------------------|-------------------|----------------|-----------------|----------------|-------------------------|-------------------------|--------------------|----------|
| | | | | Northing (usft) | Easting (usft) | Northing (usft) | Easting (usft) | | | | |
| 14,200.00 | 90.00 | 181.06 | 8,220.00 | 4,878.25 S | 1,906.59 E | 1,462,854.39 | 2,754,676.88 | 0.00 | 4,878.25 | 0.00 | |
| 14,300.00 | 90.00 | 181.06 | 8,220.00 | 4,978.23 S | 1,904.73 E | 1,462,754.43 | 2,754,674.02 | 0.00 | 4,978.23 | 0.00 | |
| 14,400.00 | 90.00 | 181.06 | 8,220.00 | 5,078.21 S | 1,902.87 E | 1,462,654.48 | 2,754,671.16 | 0.00 | 5,078.21 | 0.00 | |
| 14,500.00 | 90.00 | 181.06 | 8,220.00 | 5,178.19 S | 1,901.01 E | 1,462,554.52 | 2,754,668.30 | 0.00 | 5,178.19 | 0.00 | |
| 14,600.00 | 90.00 | 181.06 | 8,220.00 | 5,278.18 S | 1,899.16 E | 1,462,454.56 | 2,754,665.43 | 0.00 | 5,278.18 | 0.00 | |
| 14,700.00 | 90.00 | 181.06 | 8,220.00 | 5,378.16 S | 1,897.30 E | 1,462,354.61 | 2,754,662.57 | 0.00 | 5,378.16 | 0.00 | |
| 14,800.00 | 90.00 | 181.06 | 8,220.00 | 5,478.14 S | 1,895.44 E | 1,462,254.65 | 2,754,659.71 | 0.00 | 5,478.14 | 0.00 | |
| 14,900.00 | 90.00 | 181.06 | 8,220.00 | 5,578.12 S | 1,893.58 E | 1,462,154.69 | 2,754,656.85 | 0.00 | 5,578.12 | 0.00 | |
| 15,000.00 | 90.00 | 181.06 | 8,220.00 | 5,678.11 S | 1,891.73 E | 1,462,054.74 | 2,754,653.99 | 0.00 | 5,678.11 | 0.00 | |
| 15,100.00 | 90.00 | 181.06 | 8,220.00 | 5,778.09 S | 1,889.87 E | 1,461,954.78 | 2,754,651.13 | 0.00 | 5,778.09 | 0.00 | |
| 15,200.00 | 90.00 | 181.06 | 8,220.00 | 5,878.07 S | 1,888.01 E | 1,461,854.82 | 2,754,648.27 | 0.00 | 5,878.07 | 0.00 | |
| 15,300.00 | 90.00 | 181.06 | 8,220.00 | 5,978.06 S | 1,886.15 E | 1,461,754.87 | 2,754,645.40 | 0.00 | 5,978.06 | 0.00 | |
| 15,400.00 | 90.00 | 181.06 | 8,220.00 | 6,078.04 S | 1,884.30 E | 1,461,654.91 | 2,754,642.54 | 0.00 | 6,078.04 | 0.00 | |
| 15,500.00 | 90.00 | 181.06 | 8,220.00 | 6,178.02 S | 1,882.44 E | 1,461,554.95 | 2,754,639.68 | 0.00 | 6,178.02 | 0.00 | |
| 15,600.00 | 90.00 | 181.06 | 8,220.00 | 6,278.00 S | 1,880.58 E | 1,461,455.00 | 2,754,636.82 | 0.00 | 6,278.00 | 0.00 | |
| 15,700.00 | 90.00 | 181.06 | 8,220.00 | 6,377.99 S | 1,878.72 E | 1,461,355.04 | 2,754,633.96 | 0.00 | 6,377.99 | 0.00 | |
| 15,800.00 | 90.00 | 181.06 | 8,220.00 | 6,477.97 S | 1,876.86 E | 1,461,255.08 | 2,754,631.10 | 0.00 | 6,477.97 | 0.00 | |
| 15,900.00 | 90.00 | 181.06 | 8,220.00 | 6,577.95 S | 1,875.01 E | 1,461,155.13 | 2,754,628.24 | 0.00 | 6,577.95 | 0.00 | |
| 16,000.00 | 90.00 | 181.06 | 8,220.00 | 6,677.94 S | 1,873.15 E | 1,461,055.17 | 2,754,625.37 | 0.00 | 6,677.94 | 0.00 | |
| 16,100.00 | 90.00 | 181.06 | 8,220.00 | 6,777.92 S | 1,871.29 E | 1,460,955.21 | 2,754,622.51 | 0.00 | 6,777.92 | 0.00 | |
| 16,200.00 | 90.00 | 181.06 | 8,220.00 | 6,877.90 S | 1,869.43 E | 1,460,855.26 | 2,754,619.65 | 0.00 | 6,877.90 | 0.00 | |
| 16,300.00 | 90.00 | 181.06 | 8,220.00 | 6,977.88 S | 1,867.58 E | 1,460,755.30 | 2,754,616.79 | 0.00 | 6,977.88 | 0.00 | |
| 16,400.00 | 90.00 | 181.06 | 8,220.00 | 7,077.87 S | 1,865.72 E | 1,460,655.34 | 2,754,613.93 | 0.00 | 7,077.87 | 0.00 | |
| 16,500.00 | 90.00 | 181.06 | 8,220.00 | 7,177.85 S | 1,863.86 E | 1,460,555.39 | 2,754,611.07 | 0.00 | 7,177.85 | 0.00 | |
| 16,600.00 | 90.00 | 181.06 | 8,220.00 | 7,277.83 S | 1,862.00 E | 1,460,455.43 | 2,754,608.21 | 0.00 | 7,277.83 | 0.00 | |
| 16,700.00 | 90.00 | 181.06 | 8,220.00 | 7,377.81 S | 1,860.15 E | 1,460,355.47 | 2,754,605.35 | 0.00 | 7,377.81 | 0.00 | |
| 16,800.00 | 90.00 | 181.06 | 8,220.00 | 7,477.80 S | 1,858.29 E | 1,460,255.52 | 2,754,602.48 | 0.00 | 7,477.80 | 0.00 | |
| 16,900.00 | 90.00 | 181.06 | 8,220.00 | 7,577.78 S | 1,856.43 E | 1,460,155.56 | 2,754,599.62 | 0.00 | 7,577.78 | 0.00 | |
| 17,000.00 | 90.00 | 181.06 | 8,220.00 | 7,677.76 S | 1,854.57 E | 1,460,055.60 | 2,754,596.76 | 0.00 | 7,677.76 | 0.00 | |
| 17,100.00 | 90.00 | 181.06 | 8,220.00 | 7,777.75 S | 1,852.71 E | 1,459,955.65 | 2,754,593.90 | 0.00 | 7,777.75 | 0.00 | |
| 17,200.00 | 90.00 | 181.06 | 8,220.00 | 7,877.73 S | 1,850.86 E | 1,459,855.69 | 2,754,591.04 | 0.00 | 7,877.73 | 0.00 | |
| 17,300.00 | 90.00 | 181.06 | 8,220.00 | 7,977.71 S | 1,849.00 E | 1,459,755.73 | 2,754,588.18 | 0.00 | 7,977.71 | 0.00 | |
| 17,400.00 | 90.00 | 181.06 | 8,220.00 | 8,077.69 S | 1,847.14 E | 1,459,655.77 | 2,754,585.32 | 0.00 | 8,077.69 | 0.00 | |
| 17,500.00 | 90.00 | 181.06 | 8,220.00 | 8,177.68 S | 1,845.28 E | 1,459,555.82 | 2,754,582.45 | 0.00 | 8,177.68 | 0.00 | |
| 17,600.00 | 90.00 | 181.06 | 8,220.00 | 8,277.66 S | 1,843.43 E | 1,459,455.86 | 2,754,579.59 | 0.00 | 8,277.66 | 0.00 | |
| 17,700.00 | 90.00 | 181.06 | 8,220.00 | 8,377.64 S | 1,841.57 E | 1,459,355.90 | 2,754,576.73 | 0.00 | 8,377.64 | 0.00 | |
| 17,800.00 | 90.00 | 181.06 | 8,220.00 | 8,477.62 S | 1,839.71 E | 1,459,255.95 | 2,754,573.87 | 0.00 | 8,477.62 | 0.00 | |

Plan Report for Gregory 0780 7-4H9 - P1

| Measured Depth (usft) | Inclination (°) | True Azimuth (°) | Vertical Depth (usft) | Local Coordinates (usft) | | Map Coordinates (usft) | | Dogleg Rate (°/100usft) | Vertical Section (usft) | Toolface Angle (°) | Comments |
|-----------------------|-----------------|------------------|-----------------------|--------------------------|------------|------------------------|--------------|-------------------------|-------------------------|--------------------|-------------------------------------|
| | | | | Northing | Easting | Northing | Easting | | | | |
| 17,900.00 | 90.00 | 181.06 | 8,220.00 | 8,577.61 S | 1,837.85 E | 1,459,155.99 | 2,754,571.01 | 0.00 | 8,577.61 | 0.00 | |
| 18,000.00 | 90.00 | 181.06 | 8,220.00 | 8,677.59 S | 1,836.00 E | 1,459,056.03 | 2,754,568.15 | 0.00 | 8,677.59 | 0.00 | |
| 18,100.00 | 90.00 | 181.06 | 8,220.00 | 8,777.57 S | 1,834.14 E | 1,458,956.08 | 2,754,565.29 | 0.00 | 8,777.57 | 0.00 | |
| 18,200.00 | 90.00 | 181.06 | 8,220.00 | 8,877.56 S | 1,832.28 E | 1,458,856.12 | 2,754,562.42 | 0.00 | 8,877.56 | 0.00 | |
| 18,300.00 | 90.00 | 181.06 | 8,220.00 | 8,977.54 S | 1,830.42 E | 1,458,756.16 | 2,754,559.56 | 0.00 | 8,977.54 | 0.00 | |
| 18,400.00 | 90.00 | 181.06 | 8,220.00 | 9,077.52 S | 1,828.56 E | 1,458,656.21 | 2,754,556.70 | 0.00 | 9,077.52 | 0.00 | |
| 18,500.00 | 90.00 | 181.06 | 8,220.00 | 9,177.50 S | 1,826.71 E | 1,458,556.25 | 2,754,553.84 | 0.00 | 9,177.50 | 0.00 | |
| 18,600.00 | 90.00 | 181.06 | 8,220.00 | 9,277.49 S | 1,824.85 E | 1,458,456.29 | 2,754,550.98 | 0.00 | 9,277.49 | 0.00 | |
| 18,700.00 | 90.00 | 181.06 | 8,220.00 | 9,377.47 S | 1,822.99 E | 1,458,356.34 | 2,754,548.12 | 0.00 | 9,377.47 | 0.00 | |
| 18,800.00 | 90.00 | 181.06 | 8,220.00 | 9,477.45 S | 1,821.13 E | 1,458,256.38 | 2,754,545.26 | 0.00 | 9,477.45 | 0.00 | |
| 18,900.00 | 90.00 | 181.06 | 8,220.00 | 9,577.43 S | 1,819.28 E | 1,458,156.42 | 2,754,542.39 | 0.00 | 9,577.43 | 0.00 | |
| 19,000.00 | 90.00 | 181.06 | 8,220.00 | 9,677.42 S | 1,817.42 E | 1,458,056.47 | 2,754,539.53 | 0.00 | 9,677.42 | 0.00 | |
| 19,100.00 | 90.00 | 181.06 | 8,220.00 | 9,777.40 S | 1,815.56 E | 1,457,956.51 | 2,754,536.67 | 0.00 | 9,777.40 | 0.00 | |
| 19,200.00 | 90.00 | 181.06 | 8,220.00 | 9,877.38 S | 1,813.70 E | 1,457,856.55 | 2,754,533.81 | 0.00 | 9,877.38 | 0.00 | |
| 19,300.00 | 90.00 | 181.06 | 8,220.00 | 9,977.37 S | 1,811.85 E | 1,457,756.60 | 2,754,530.95 | 0.00 | 9,977.37 | 0.00 | |
| 19,400.00 | 90.00 | 181.06 | 8,220.00 | 10,077.35 S | 1,809.99 E | 1,457,656.64 | 2,754,528.09 | 0.00 | 10,077.35 | 0.00 | |
| 19,500.00 | 90.00 | 181.06 | 8,220.00 | 10,177.33 S | 1,808.13 E | 1,457,556.68 | 2,754,525.23 | 0.00 | 10,177.33 | 0.00 | |
| 19,600.00 | 90.00 | 181.06 | 8,220.00 | 10,277.31 S | 1,806.27 E | 1,457,456.73 | 2,754,522.37 | 0.00 | 10,277.31 | 0.00 | |
| 19,700.00 | 90.00 | 181.06 | 8,220.00 | 10,377.30 S | 1,804.41 E | 1,457,356.77 | 2,754,519.50 | 0.00 | 10,377.30 | 0.00 | |
| 19,800.00 | 90.00 | 181.06 | 8,220.00 | 10,477.28 S | 1,802.56 E | 1,457,256.81 | 2,754,516.64 | 0.00 | 10,477.28 | 0.00 | |
| 19,859.46 | 90.00 | 181.06 | 8,220.00 | 10,536.73 S | 1,801.45 E | 1,457,197.38 | 2,754,514.94 | 0.00 | 10,536.73 | 0.00 | TD at 19859.46, 100' FSL, 1155' FWL |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 2,450.00 | 2,450.00 | 0.00 | 0.00 | Begin 2°/100' DLS Build |
| 3,630.72 | 3,597.58 | 108.52 | 213.94 | Hold |
| 7,982.70 | 7,585.13 | 897.13 | 1,768.69 | KOP 10°/100' DLS Build |
| 8,990.95 | 8,220.00 | 329.91 | 2,003.35 | LP - 100' FNL, 1155' FWL |
| 19,859.46 | 8,220.00 | -10,536.73 | 1,801.45 | TD at 19859.46, 100' FSL, 1155' FWL |

Plan Report for Gregory 0780 7-4H9 - P1

Vertical Section Information

| Angle Type | Target | Azimuth (°) | Origin Type | Origin +N/-S (usft) | Origin +E/-W (usft) | Start TVD (usft) |
|------------|----------------------|-------------|-------------|---------------------|---------------------|------------------|
| User | No Target (Freehand) | 180.00 | Slot | 0.00 | 0.00 | 23.50 |

Survey tool program

| From (usft) | To (usft) | Survey/Plan | Survey Tool |
|-------------|-----------|-------------|-------------|
| 23.50 | 19,859.46 | P1 | 3_MWD+HRGM |

Casing Details

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|--------|---------------------|-------------------|
| 2,400.00 | 2,400.00 | 9 5/8" | 9-5/8 | 12-1/4 |
| 19,859.46 | 8,220.00 | 5 1/2" | 5-1/2 | 8-3/4 |

Design Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Gregory 7-4H9 LP (100' FNL, 1155' FWL) | 0.00 | 0.00 | 8,220.00 | 329.91 | 2,003.35 | 1,468,061.19 | 2,754,825.93 | 40.614874 | -106.383119 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Gregory 7-4H9 PBHL (100' FSL, 1155' FWL) | 0.00 | 0.00 | 8,220.00 | -10,536.73 | 1,801.46 | 1,457,197.38 | 2,754,514.95 | 40.585047 | -106.383849 |
| - plan misses target center by 0.01usft at 19859.46usft MD (8220.00 TVD, -10536.73 N, 1801.45 E) | | | | | | | | | |
| - Point | | | | | | | | | |

Directional Difficulty Index

| | | | |
|-------------------------------------|----------------|-------------------------------|----------------------------------|
| Average Dogleg over Survey: | 0.63 °/100usft | Maximum Dogleg over Survey: | 10.00 °/100usft at 8,992.92 usft |
| Net Tortousity applicable to Plans: | 0.63 °/100usft | Directional Difficulty Index: | 6.843 |

Plan Report for Gregory 0780 7-4H9 - P1

Audit Info

North Reference Sheet for Sec. 05-T7N-R80W - Gregory 0780 7-4H9 - OWB_

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB = 23.5' @ 8120.75usft (Ironhand 118). Northing and Easting are relative to Gregory 0780 7-4H9

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.500000°, Longitude Origin:0.000000°, Latitude Origin:40.783333°

False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 0.99997690

Grid Coordinates of Well: 1,467,751.42 usft N, 2,752,819.41 usft E

Geographical Coordinates of Well: 40.613969, -106.390335

Grid Convergence at Surface is: -0.58°

Based upon Minimum Curvature type calculations, at a Measured Depth of 19,859.46usft

the Bottom Hole Displacement is 10,689.61usft in the Direction of 170.30° (True).

Magnetic Convergence at surface is: -9.18° (15 June 2022, , BGGM2022)

