

Anadarko Petroleum Corp.

Weld County, CO (NAD 83)

Sec. 26-T3N-R68W

DOUTHIT 40C-27HZ

Plan A

Plan: Rev A0 Permit

Sperry Drilling Services

Proposal Report

08 April, 2014

Well Coordinates: 1,316,248.21 N, 3,150,387.52 E (40° 12' 00.88" N, 104° 57' 41.80" W)

Ground Level: 4,942.00 usft

Local Coordinate Origin:

Centered on Well DOUTHIT 40C-27HZ

Viewing Datum:

RKB = 17' @ 4959.00usft (Drilling Rig)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 5000.1 Build: 70

HALLIBURTON

Project: Weld County, CO (NAD 83)
 Site: Sec. 26-T3N-R68W
 Well: DOUTHIT 40C-27HZ
 Wellbore: Plan A
 Design: Rev A0 Permit

Anadarko Petroleum Corp.



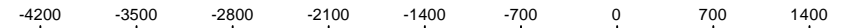
SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|---------|----------|-------|--------|---------|----------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 2000.00 | 0.00 | 0.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 2729.82 | 14.60 | 136.57 | 2721.95 | -67.14 | 63.57 | 2.00 | 136.57 | -63.58 | |
| 4 | 6771.89 | 14.60 | 136.57 | 6633.57 | -806.84 | 763.90 | 0.00 | 0.00 | -764.04 | |
| 5 | 7774.03 | 90.24 | 270.01 | 7294.00 | -932.20 | 197.25 | 10.00 | 132.46 | -197.41 | DOUTHIT 40C-27HZ_CP |
| 6 | 13294.40 | 90.24 | 270.01 | 7271.00 | -931.63 | -5323.08 | 0.00 | 0.00 | 5322.92 | DOUTHIT 40C-27HZ_BHL |

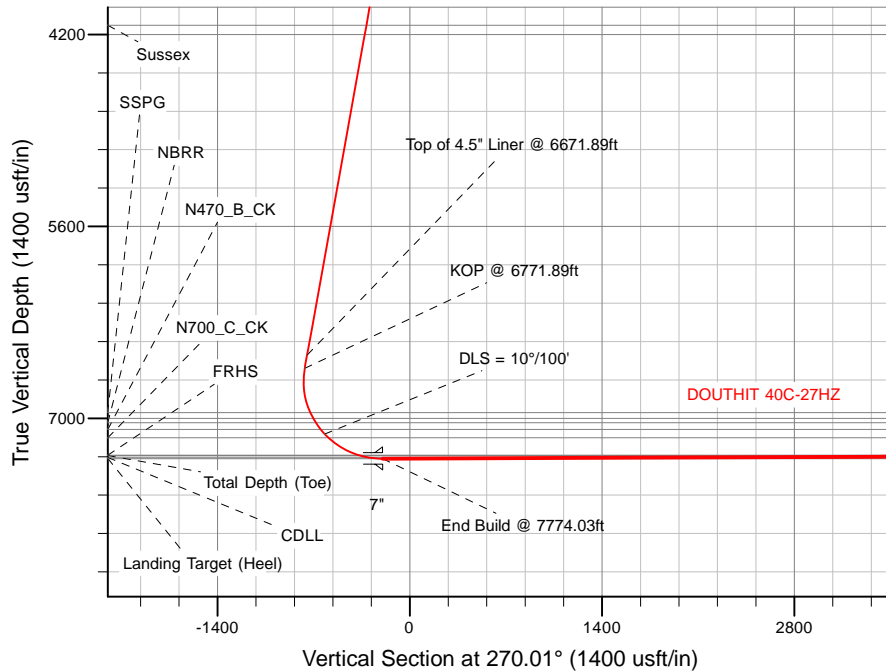
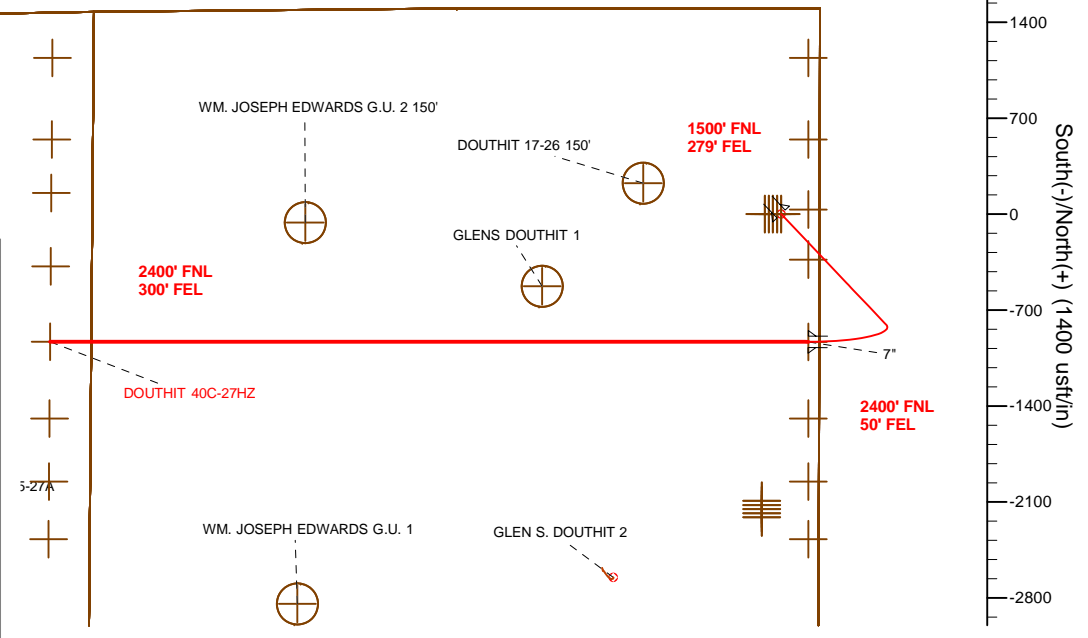
WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Polygon |
|----------------------|---------|---------|----------|------------------|-------------------|---------|
| DOUTHIT 40C-27HZ_SEC | 0.00 | 0.00 | 0.00 | 40° 12' 0.882 N | 104° 57' 41.803 W | Polygon |
| DOUTHIT 40C-27HZ_SHL | 0.00 | 0.00 | 0.00 | 40° 12' 0.882 N | 104° 57' 41.803 W | Polygon |
| DOUTHIT 40C-27HZ_BHL | 7271.00 | -931.63 | -5323.08 | 40° 11' 51.670 N | 104° 58' 50.401 W | Point |
| DOUTHIT 40C-27HZ_CP | 7294.00 | -932.20 | 197.25 | 40° 11' 51.670 N | 104° 57' 39.261 W | Point |

West(-)/East(+) (1400 usft/in)



South(-)/North(+) (1400 usft/in)



| TVD | MD | Notes |
|---------|---------|-------------------------------|
| 6536.79 | 6671.89 | Top of 4.5" Liner @ 6671.89ft |
| 6633.56 | 6771.89 | KOP @ 6771.89ft |

| WELL DETAILS: DOUTHIT 40C-27HZ | |
|---|----------------|
| Ground Level: | 4942.00 |
| RKB = 17' @ 4959.00usft (Drilling Rig) | |
| Plan: Rev A0 Permit (DOUTHIT 40C-27HZ/Plan A) | |
| Created By: Clint Eshelman | Date: 4/8/2014 |
| Reviewed: | Date: |

Plan Report for DOUTHIT 40C-27HZ - Rev A0 Permit

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|--|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|----------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DOUTHIT 40C-27HZ_SEC - DOUTHIT 40C-27HZ_SHL | | | | | | | | | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,076.00 | 0.00 | 0.00 | 1,076.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fox Hills Base | | | | | | | | | | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,126.00 | 0.00 | 0.00 | 1,126.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 5/8" | | | | | | | | | | |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Nudge @ 2000.00ft | | | | | | | | | | |
| 2,100.00 | 2.00 | 136.57 | 2,099.98 | -1.27 | 1.20 | -1.20 | 2.00 | 2.00 | 0.00 | 136.57 |
| 2,200.00 | 4.00 | 136.57 | 2,199.84 | -5.07 | 4.80 | -4.80 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,300.00 | 6.00 | 136.57 | 2,299.45 | -11.40 | 10.79 | -10.79 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,400.00 | 8.00 | 136.57 | 2,398.70 | -20.25 | 19.17 | -19.17 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,500.00 | 10.00 | 136.57 | 2,497.47 | -31.60 | 29.92 | -29.92 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,600.00 | 12.00 | 136.57 | 2,595.62 | -45.46 | 43.04 | -43.04 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,700.00 | 14.00 | 136.57 | 2,693.06 | -61.79 | 58.51 | -58.52 | 2.00 | 2.00 | 0.00 | 0.00 |
| 2,729.82 | 14.60 | 136.57 | 2,721.95 | -67.14 | 63.57 | -63.58 | 2.00 | 2.00 | 0.00 | 0.00 |
| End Nudge @ 2729.82ft | | | | | | | | | | |
| 2,800.00 | 14.60 | 136.57 | 2,789.87 | -79.99 | 75.73 | -75.74 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 14.60 | 136.57 | 2,886.64 | -98.29 | 93.05 | -93.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 14.60 | 136.57 | 2,983.41 | -116.59 | 110.38 | -110.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 14.60 | 136.57 | 3,080.18 | -134.89 | 127.71 | -127.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 14.60 | 136.57 | 3,176.96 | -153.19 | 145.03 | -145.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 14.60 | 136.57 | 3,273.73 | -171.49 | 162.36 | -162.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 14.60 | 136.57 | 3,370.50 | -189.79 | 179.68 | -179.72 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 14.60 | 136.57 | 3,467.27 | -208.09 | 197.01 | -197.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 14.60 | 136.57 | 3,564.05 | -226.39 | 214.34 | -214.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 14.60 | 136.57 | 3,660.82 | -244.69 | 231.66 | -231.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,731.19 | 14.60 | 136.57 | 3,691.00 | -250.39 | 237.07 | -237.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | | |
| 3,800.00 | 14.60 | 136.57 | 3,757.59 | -262.99 | 248.99 | -249.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 14.60 | 136.57 | 3,854.36 | -281.29 | 266.31 | -266.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 14.60 | 136.57 | 3,951.14 | -299.59 | 283.64 | -283.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 14.60 | 136.57 | 4,047.91 | -317.89 | 300.97 | -301.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,186.90 | 14.60 | 136.57 | 4,132.00 | -333.79 | 316.02 | -316.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | | |
| 4,200.00 | 14.60 | 136.57 | 4,144.68 | -336.19 | 318.29 | -318.35 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 14.60 | 136.57 | 4,241.45 | -354.49 | 335.62 | -335.68 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 14.60 | 136.57 | 4,338.23 | -372.79 | 352.94 | -353.01 | 0.00 | 0.00 | 0.00 | 0.00 |

Plan Report for DOUTHIT 40C-27HZ - Rev A0 Permit

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|---|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|----------------------------|
| 4,500.00 | 14.60 | 136.57 | 4,435.00 | -391.09 | 370.27 | -370.34 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 14.60 | 136.57 | 4,531.77 | -409.39 | 387.60 | -387.67 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 14.60 | 136.57 | 4,628.54 | -427.69 | 404.92 | -405.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 14.60 | 136.57 | 4,725.32 | -445.99 | 422.25 | -422.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 14.60 | 136.57 | 4,822.09 | -464.29 | 439.57 | -439.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 14.60 | 136.57 | 4,918.86 | -482.59 | 456.90 | -456.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 14.60 | 136.57 | 5,015.63 | -500.89 | 474.23 | -474.31 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 14.60 | 136.57 | 5,112.41 | -519.19 | 491.55 | -491.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 14.60 | 136.57 | 5,209.18 | -537.49 | 508.88 | -508.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 14.60 | 136.57 | 5,305.95 | -555.79 | 526.21 | -526.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 14.60 | 136.57 | 5,402.72 | -574.09 | 543.53 | -543.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 14.60 | 136.57 | 5,499.50 | -592.39 | 560.86 | -560.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 14.60 | 136.57 | 5,596.27 | -610.69 | 578.18 | -578.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 14.60 | 136.57 | 5,693.04 | -628.99 | 595.51 | -595.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 14.60 | 136.57 | 5,789.81 | -647.29 | 612.84 | -612.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 14.60 | 136.57 | 5,886.59 | -665.59 | 630.16 | -630.28 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 14.60 | 136.57 | 5,983.36 | -683.89 | 647.49 | -647.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 14.60 | 136.57 | 6,080.13 | -702.19 | 664.81 | -664.94 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 14.60 | 136.57 | 6,176.90 | -720.49 | 682.14 | -682.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 14.60 | 136.57 | 6,273.68 | -738.79 | 699.47 | -699.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 14.60 | 136.57 | 6,370.45 | -757.09 | 716.79 | -716.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 14.60 | 136.57 | 6,467.22 | -775.39 | 734.12 | -734.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,671.89 | 14.60 | 136.57 | 6,536.79 | -788.54 | 746.57 | -746.71 | 0.00 | 0.00 | 0.00 | 0.00 |
| Top of 4.5" Liner @ 6671.89ft | | | | | | | | | | |
| 6,700.00 | 14.60 | 136.57 | 6,563.99 | -793.69 | 751.44 | -751.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,771.89 | 14.60 | 136.57 | 6,633.56 | -806.84 | 763.90 | -764.04 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP @ 6771.89ft | | | | | | | | | | |
| 6,800.00 | 12.86 | 145.92 | 6,660.87 | -812.01 | 768.09 | -768.23 | 10.00 | -6.16 | 33.27 | 132.46 |
| 6,900.00 | 11.08 | 194.90 | 6,758.93 | -830.56 | 771.87 | -772.01 | 10.00 | -1.78 | 48.98 | 123.37 |
| 7,000.00 | 16.67 | 230.76 | 6,856.15 | -848.97 | 758.25 | -758.40 | 10.00 | 5.59 | 35.85 | 75.33 |
| 7,100.00 | 25.11 | 246.14 | 6,949.56 | -866.66 | 727.67 | -727.82 | 10.00 | 8.44 | 15.39 | 40.41 |
| 7,108.24 | 25.85 | 246.97 | 6,957.00 | -868.07 | 724.42 | -724.57 | 10.00 | 9.02 | 10.05 | 25.99 |
| SSPG | | | | | | | | | | |
| 7,193.56 | 33.75 | 253.51 | 7,031.00 | -882.10 | 684.50 | -684.65 | 10.00 | 9.26 | 7.66 | 25.24 |
| NBRR | | | | | | | | | | |
| 7,200.00 | 34.36 | 253.89 | 7,036.34 | -883.11 | 681.04 | -681.19 | 10.00 | 9.43 | 5.93 | 19.55 |
| 7,254.66 | 39.55 | 256.72 | 7,080.00 | -891.40 | 649.26 | -649.41 | 10.00 | 9.51 | 5.17 | 19.24 |
| N470_B_CK | | | | | | | | | | |
| 7,300.00 | 43.91 | 258.62 | 7,113.83 | -897.82 | 619.78 | -619.94 | 10.00 | 9.60 | 4.21 | 16.98 |
| DLS = 10°/100' | | | | | | | | | | |
| 7,338.97 | 47.67 | 260.04 | 7,141.00 | -902.98 | 592.34 | -592.49 | 10.00 | 9.66 | 3.62 | 15.55 |
| N700_C_CK | | | | | | | | | | |
| 7,400.00 | 53.59 | 261.94 | 7,179.70 | -910.33 | 545.75 | -545.91 | 10.00 | 9.71 | 3.12 | 14.57 |
| 7,500.00 | 63.35 | 264.51 | 7,231.93 | -920.28 | 461.21 | -461.37 | 10.00 | 9.76 | 2.57 | 13.36 |
| 7,596.77 | 72.83 | 266.61 | 7,268.00 | -927.16 | 371.81 | -371.97 | 10.00 | 9.80 | 2.17 | 12.01 |
| FRHS | | | | | | | | | | |
| 7,600.00 | 73.15 | 266.67 | 7,268.95 | -927.34 | 368.72 | -368.88 | 10.00 | 9.81 | 2.03 | 11.22 |
| 7,681.12 | 81.11 | 268.26 | 7,287.00 | -930.81 | 289.78 | -289.95 | 10.00 | 9.82 | 1.96 | 11.20 |
| CDLL | | | | | | | | | | |
| 7,700.00 | 82.97 | 268.62 | 7,289.62 | -931.32 | 271.09 | -271.25 | 10.00 | 9.82 | 1.90 | 10.85 |
| 7,774.03 | 90.24 | 270.01 | 7,294.00 | -932.20 | 197.25 | -197.41 | 10.00 | 9.82 | 1.87 | 10.80 |
| End Build @ 7774.03ft - Landing Target (Heel) - 7" - DOUTHIT 40C-27HZ_CP | | | | | | | | | | |
| 7,800.00 | 90.24 | 270.01 | 7,293.89 | -932.20 | 171.28 | -171.44 | 0.00 | 0.00 | 0.00 | 10.72 |
| 7,900.00 | 90.24 | 270.01 | 7,293.48 | -932.19 | 71.28 | -71.44 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.24 | 270.01 | 7,293.06 | -932.18 | -28.72 | 28.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.24 | 270.01 | 7,292.64 | -932.17 | -128.72 | 128.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.24 | 270.01 | 7,292.23 | -932.16 | -228.72 | 228.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.24 | 270.01 | 7,291.81 | -932.15 | -328.72 | 328.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.24 | 270.01 | 7,291.39 | -932.14 | -428.72 | 428.56 | 0.00 | 0.00 | 0.00 | 0.00 |

Plan Report for DOUTHIT 40C-27HZ - Rev A0 Permit

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | Toolface Azimuth (°) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|----------------------|
| 8,500.00 | 90.24 | 270.01 | 7,290.98 | -932.13 | -528.72 | 528.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.24 | 270.01 | 7,290.56 | -932.12 | -628.72 | 628.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.24 | 270.01 | 7,290.14 | -932.11 | -728.71 | 728.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.24 | 270.01 | 7,289.73 | -932.10 | -828.71 | 828.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.24 | 270.01 | 7,289.31 | -932.09 | -928.71 | 928.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.24 | 270.01 | 7,288.89 | -932.08 | -1,028.71 | 1,028.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.24 | 270.01 | 7,288.48 | -932.06 | -1,128.71 | 1,128.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.24 | 270.01 | 7,288.06 | -932.05 | -1,228.71 | 1,228.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.24 | 270.01 | 7,287.64 | -932.04 | -1,328.71 | 1,328.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.24 | 270.01 | 7,287.23 | -932.03 | -1,428.71 | 1,428.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.24 | 270.01 | 7,286.81 | -932.02 | -1,528.71 | 1,528.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.24 | 270.01 | 7,286.39 | -932.01 | -1,628.71 | 1,628.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.24 | 270.01 | 7,285.98 | -932.00 | -1,728.71 | 1,728.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.24 | 270.01 | 7,285.56 | -931.99 | -1,828.71 | 1,828.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.24 | 270.01 | 7,285.14 | -931.98 | -1,928.70 | 1,928.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.24 | 270.01 | 7,284.73 | -931.97 | -2,028.70 | 2,028.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.24 | 270.01 | 7,284.31 | -931.96 | -2,128.70 | 2,128.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.24 | 270.01 | 7,283.89 | -931.95 | -2,228.70 | 2,228.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.24 | 270.01 | 7,283.48 | -931.94 | -2,328.70 | 2,328.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.24 | 270.01 | 7,283.06 | -931.93 | -2,428.70 | 2,428.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.24 | 270.01 | 7,282.64 | -931.92 | -2,528.70 | 2,528.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.24 | 270.01 | 7,282.23 | -931.91 | -2,628.70 | 2,628.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.24 | 270.01 | 7,281.81 | -931.90 | -2,728.70 | 2,728.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.24 | 270.01 | 7,281.39 | -931.89 | -2,828.70 | 2,828.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.24 | 270.01 | 7,280.98 | -931.88 | -2,928.70 | 2,928.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.24 | 270.01 | 7,280.56 | -931.87 | -3,028.69 | 3,028.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.24 | 270.01 | 7,280.14 | -931.86 | -3,128.69 | 3,128.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.24 | 270.01 | 7,279.73 | -931.85 | -3,228.69 | 3,228.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.24 | 270.01 | 7,279.31 | -931.84 | -3,328.69 | 3,328.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.24 | 270.01 | 7,278.89 | -931.83 | -3,428.69 | 3,428.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.24 | 270.01 | 7,278.48 | -931.82 | -3,528.69 | 3,528.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.24 | 270.01 | 7,278.06 | -931.81 | -3,628.69 | 3,628.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.24 | 270.01 | 7,277.64 | -931.80 | -3,728.69 | 3,728.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.24 | 270.01 | 7,277.23 | -931.79 | -3,828.69 | 3,828.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.24 | 270.01 | 7,276.81 | -931.78 | -3,928.69 | 3,928.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.24 | 270.01 | 7,276.39 | -931.76 | -4,028.69 | 4,028.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.24 | 270.01 | 7,275.98 | -931.75 | -4,128.69 | 4,128.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.24 | 270.01 | 7,275.56 | -931.74 | -4,228.68 | 4,228.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.24 | 270.01 | 7,275.14 | -931.73 | -4,328.68 | 4,328.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.24 | 270.01 | 7,274.73 | -931.72 | -4,428.68 | 4,428.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.24 | 270.01 | 7,274.31 | -931.71 | -4,528.68 | 4,528.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.24 | 270.01 | 7,273.89 | -931.70 | -4,628.68 | 4,628.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.24 | 270.01 | 7,273.48 | -931.69 | -4,728.68 | 4,728.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.24 | 270.01 | 7,273.06 | -931.68 | -4,828.68 | 4,828.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.24 | 270.01 | 7,272.64 | -931.67 | -4,928.68 | 4,928.52 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.24 | 270.01 | 7,272.23 | -931.66 | -5,028.68 | 5,028.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.24 | 270.01 | 7,271.81 | -931.65 | -5,128.68 | 5,128.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.24 | 270.01 | 7,271.39 | -931.64 | -5,228.68 | 5,228.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13,294.40 | 90.24 | 270.01 | 7,271.00 | -931.63 | -5,323.07 | 5,322.91 | 0.00 | 0.00 | 0.00 | 0.00 |

TD Well @ 13294.40ft - Total Depth (Toe) - DOUTHIT 40C-27HZ_BHL

Plan Report for DOUTHIT 40C-27HZ - Rev A0 Permit**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 2,000.00 | 2,000.00 | 0.00 | 0.00 | Begin Nudge @ 2000.00ft |
| 2,729.82 | 2,721.95 | -67.14 | 63.57 | End Nudge @ 2729.82ft |
| 6,671.89 | 6,536.79 | -788.54 | 746.57 | Top of 4.5" Liner @ 6671.89ft |
| 6,771.89 | 6,633.56 | -806.84 | 763.90 | KOP @ 6771.89ft |
| 7,300.00 | 7,113.83 | -897.82 | 619.78 | DLS = 10°/100' |
| 7,774.03 | 7,294.00 | -932.20 | 197.25 | End Build @ 7774.03ft |
| 13,294.40 | 7,271.00 | -931.63 | -5,323.07 | TD Well @ 13294.40ft |

Vertical Section Information

| Angle Type | Target | Azimuth (°) | Origin Type | Origin | | Start TVD (usft) |
|---------------|----------------------|----------------|----------------|-----------------|-----------------|------------------------|
| | | | | +N/_S (usft) | +E/-W (usft) | |
| User | No Target (Freehand) | 270.01 | Slot | 0.00 | 0.00 | 0.00 |

Survey tool program

| From (usft) | To (usft) | Survey/Plan | Survey Tool |
|----------------|--------------|---------------|-------------|
| 0.00 | 7,774.03 | Rev A0 Permit | MWD |
| 7,774.03 | 13,294.40 | Rev A0 Permit | MWD |

Casing Details

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
|-----------------------------|-----------------------------|--------|---------------------------|-------------------------|
| 1,126.00 | 1,126.00 | 9 5/8" | 9-5/8 | 13-1/2 |
| 7,774.03 | 7,294.00 | 7" | 7 | 8-3/4 |

Formation Details

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------------|-----------------------------|-----------------------|-----------|------------|-------------------------|
| 1,076.00 | 1,076.00 | Fox Hills Base | | 0.00 | |
| 3,731.19 | 3,691.00 | Parkman | | 0.00 | |
| 4,186.90 | 4,132.00 | Sussex | | 0.00 | |
| 7,108.24 | 6,957.00 | SSPG | | 0.00 | |
| 7,193.56 | 7,031.00 | NBRR | | 0.00 | |
| 7,254.66 | 7,080.00 | N470_B_CK | | 0.00 | |
| 7,338.97 | 7,141.00 | N700_C_CK | | 0.00 | |
| 7,596.77 | 7,268.00 | FRHS | | 0.00 | |
| 7,681.12 | 7,287.00 | CDLL | | 0.00 | |
| 7,774.03 | 7,294.00 | Landing Target (Heel) | | 0.00 | |
| 13,294.40 | 7,271.00 | Total Depth (Toe) | | 0.00 | |

Plan Report for DOUTHIT 40C-27HZ - Rev A0 Permit

Targets associated with this wellbore

| Target Name | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Shape |
|----------------------|---------------|-----------------|-----------------|---------|
| DOUTHIT 40C-27HZ_SEC | 0.00 | 0.00 | 0.00 | Polygon |
| DOUTHIT 40C-27HZ_SHL | 0.00 | 0.00 | 0.00 | Point |
| DOUTHIT 40C-27HZ_BHL | 7,271.00 | -931.63 | -5,323.08 | Point |
| DOUTHIT 40C-27HZ_CP | 7,294.00 | -932.20 | 197.25 | Point |

Directional Difficulty Index

| | | | |
|-------------------------------------|----------------|-------------------------------|-----------------------------|
| Average Dogleg over Survey: | 0.00 °/100usft | Maximum Dogleg over Survey: | 0.00 °/100usft at 0.00 usft |
| Net Tortousity applicable to Plans: | 0.00 °/100usft | Directional Difficulty Index: | 6.358 |

Audit Info

North Reference Sheet for Sec. 26-T3N-R68W - DOUTHIT 40C-27HZ - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.
Vertical Depths are relative to RKB = 17' @ 4959.00usft (Drilling Rig). Northing and Easting are relative to DOUTHIT 40C-27HZ
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 -105.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 47' 0.000 N°
False Easting: 3,000,000.00usft, False Northing: 1,000,000.00usft, Scale Reduction: 0.99995723

Grid Coordinates of Well: 1,316,248.21 usft N, 3,150,387.52 usft E
Geographical Coordinates of Well: 40° 12' 00.88" N, 104° 57' 41.80" W
Grid Convergence at Surface is: 0.35°

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,294.40usft
the Bottom Hole Displacement is 5,403.99usft in the Direction of 260.07° (True).

Magnetic Convergence at surface is: -8.27° (8 April 2014, , BGGM2013)

Magnetic Model: BGGM2013
Date: 08-Apr-14
Declination: 8.62°
Inclination/Dip: 66.75°
Field Strength: 52627

Grid North is 0.35° East of True North (Grid Convergence)
Magnetic North is 8.62° East of True North (Magnetic Declination)
Magnetic North is 8.27° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.35°
To convert a Magnetic Direction to a True Direction, Add 8.62° East
To convert a Magnetic Direction to a Grid Direction, Add 8.27°