



## **COG Operating LLC**

**Eddy Co., NM  
Myox 28 State Com  
704H**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**25 March, 2019**



# **NABORS**



# Nabors Drilling Solutions Planning Report



Database: RyanUSA\_32Bit  
Company: COG Operating LLC  
Project: Eddy Co., NM  
Site: Myox 28 State Com  
Well: 704H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:

Well 704H  
RT=30 @ 2990.00ft (Nabors 894)  
RT=30 @ 2990.00ft (Nabors 894)  
Grid  
Minimum Curvature

Project: Eddy Co., NM

Map System: US State Plane 1927 (Exact solution)  
Geo Datum: NAD 1927 (NADCON CONUS)  
Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site: Myox 28 State Com

Site Position:  
From: Lat/Long Northing: 402,893.686 usft Latitude: 32° 6' 26.746200 N  
Position Uncertainty: 0.00 ft Easting: 576,570.363 usft Longitude: 104° 5' 9.742200 W  
Slot Radius: 13-3/16 " Grid Convergence: 0.13 °

Well: 704H  
Well Position +N/-S -6.39 ft Northing: 402,887.300 usft Latitude: 32° 6' 26.692733 N  
+E/-W -429.86 ft Easting: 576,140.500 usft Longitude: 104° 5' 14.740201 W  
Position Uncertainty 2.00 ft Wellhead Elevation: Ground Level: 2,960.00 ft

Wellbore: Wellbore #1

Magnetics: Model Name Sample Date Declination Dip Angle Field Strength  
HDGM\_FILE 3/25/2019 7.00 59.80 47,876.10000000

Design: Design #1

Audit Notes:

Version:

Phase: PLAN

Tie On Depth: 0.00

Vertical Section:

Depth From (TVD) +N/-S +E/-W Direction  
(ft) (ft) (ft) (°)  
0.00 0.00 0.00 183.54

Plan Survey Tool Program Date: 3/25/2019

| Depth From (ft) | Depth To (ft) | Survey (Wellbore)       | Tool Name                   | Remarks |
|-----------------|---------------|-------------------------|-----------------------------|---------|
| 1 0.00          | 19,339.02     | Design #1 (Wellbore #1) | MWD+HRGM<br>OWSG MWD + HRGM |         |

Plan Sections

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |            |
| 4,500.00            | 0.00            | 0.00        | 4,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |            |
| 4,940.28            | 8.81            | 261.55      | 4,938.55            | -4.96      | -33.40     | 2.00                  | 2.00                 | 0.00                | 261.55  |            |
| 8,954.79            | 8.81            | 261.55      | 8,905.74            | -95.29     | -641.28    | 0.00                  | 0.00                 | 0.00                | 0.00    |            |
| 8,959.51            | 8.90            | 261.55      | 8,910.40            | -95.40     | -642.00    | 2.00                  | 2.00                 | 0.05                | 0.21    |            |
| 9,702.68            | 90.42           | 179.53      | 9,372.00            | -576.76    | -710.18    | 12.00                 | 10.97                | -11.04              | -82.05  |            |
| 19,339.02           | 90.42           | 179.53      | 9,302.00            | -10,212.52 | -631.30    | 0.00                  | 0.00                 | 0.00                | 0.00    | 704H - BHL |



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Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well 704H  
TVD Reference: RT=30 @ 2990.00ft (Nabors 894)  
MD Reference: RT=30 @ 2990.00ft (Nabors 894)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00              | 0.00            | 0.00        | 100.00              | 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                |
| 300.00              | 0.00            | 0.00        | 300.00              | 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                |
| 500.00              | 0.00            | 0.00        | 500.00              | 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                |
| 700.00              | 0.00            | 0.00        | 700.00              | 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                |
| 900.00              | 0.00            | 0.00        | 900.00              | 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                |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 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                |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 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                |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 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                |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 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                |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00            | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00            | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00            | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00            | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00            | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,600.00            | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00            | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00            | 0.00            | 0.00        | 2,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00            | 0.00            | 0.00        | 2,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00            | 0.00            | 0.00        | 3,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00            | 0.00            | 0.00        | 3,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00            | 0.00            | 0.00        | 3,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00            | 0.00            | 0.00        | 3,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00            | 0.00            | 0.00        | 3,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00            | 0.00            | 0.00        | 3,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00            | 0.00            | 0.00        | 3,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,700.00            | 0.00            | 0.00        | 3,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,800.00            | 0.00            | 0.00        | 3,800.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,900.00            | 0.00            | 0.00        | 3,900.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,000.00            | 0.00            | 0.00        | 4,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,100.00            | 0.00            | 0.00        | 4,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00            | 0.00            | 0.00        | 4,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,300.00            | 0.00            | 0.00        | 4,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,400.00            | 0.00            | 0.00        | 4,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,500.00            | 0.00            | 0.00        | 4,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00            | 2.00            | 261.55      | 4,599.98            | -0.26      | -1.73      | 0.36                  | 0.00                  | 0.00                 | 0.00                |
| 4,700.00            | 4.00            | 261.55      | 4,699.84            | -1.03      | -6.90      | 1.45                  | 2.00                  | 2.00                 | 0.00                |
| 4,800.00            | 6.00            | 261.55      | 4,799.45            | -2.31      | -15.52     | 3.26                  | 2.00                  | 2.00                 | 0.00                |
| 4,900.00            | 8.00            | 261.55      | 4,898.70            | -4.10      | -27.58     | 5.79                  | 2.00                  | 2.00                 | 0.00                |
| 4,940.28            | 8.81            | 261.55      | 4,938.55            | -4.96      | -33.40     | 7.01                  | 2.00                  | 2.00                 | 0.00                |
| 5,000.00            | 8.81            | 261.55      | 4,997.57            | -6.31      | -42.44     | 8.91                  | 0.00                  | 0.00                 | 0.00                |
| 5,100.00            | 8.81            | 261.55      | 5,096.39            | -8.56      | -57.58     | 12.09                 | 0.00                  | 0.00                 | 0.00                |
| 5,200.00            | 8.81            | 261.55      | 5,195.21            | -10.81     | -72.73     | 15.27                 | 0.00                  | 0.00                 | 0.00                |



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Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference:  
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Survey Calculation Method:

Well 704H  
RT=30 @ 2990.00ft (Nabors 894)  
RT=30 @ 2990.00ft (Nabors 894)  
Grid  
Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | N/S (ft) | E/W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|----------|----------|-----------------------|-----------------------|----------------------|---------------------|
| 5,300.00            | 8.81            | 261.55      | 5,294.03            | -13.06   | -87.87   | 18.45                 | 0.00                  | 0.00                 | 0.00                |
| 5,400.00            | 8.81            | 261.55      | 5,392.85            | -15.31   | -103.01  | 21.63                 | 0.00                  | 0.00                 | 0.00                |
| 5,500.00            | 8.81            | 261.55      | 5,491.67            | -17.56   | -118.15  | 24.81                 | 0.00                  | 0.00                 | 0.00                |
| 5,600.00            | 8.81            | 261.55      | 5,590.49            | -19.81   | -133.30  | 27.99                 | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 8.81            | 261.55      | 5,689.31            | -22.06   | -148.44  | 31.17                 | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 8.81            | 261.55      | 5,788.14            | -24.31   | -163.58  | 34.35                 | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 8.81            | 261.55      | 5,886.96            | -26.56   | -178.72  | 37.53                 | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 8.81            | 261.55      | 5,985.78            | -28.81   | -193.86  | 40.71                 | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 8.81            | 261.55      | 6,084.60            | -31.06   | -209.01  | 43.89                 | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 8.81            | 261.55      | 6,183.42            | -33.31   | -224.15  | 47.07                 | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 8.81            | 261.55      | 6,282.24            | -35.56   | -239.29  | 50.25                 | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 8.81            | 261.55      | 6,381.06            | -37.81   | -254.43  | 53.43                 | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 8.81            | 261.55      | 6,479.88            | -40.06   | -269.57  | 56.61                 | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 8.81            | 261.55      | 6,578.71            | -42.31   | -284.72  | 59.79                 | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 8.81            | 261.55      | 6,677.53            | -44.56   | -299.86  | 62.97                 | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 8.81            | 261.55      | 6,776.35            | -46.81   | -315.00  | 66.15                 | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 8.81            | 261.55      | 6,875.17            | -49.06   | -330.14  | 69.33                 | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 8.81            | 261.55      | 6,973.99            | -51.31   | -345.29  | 72.51                 | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 8.81            | 261.55      | 7,072.81            | -53.56   | -360.43  | 75.69                 | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 8.81            | 261.55      | 7,171.63            | -55.81   | -375.57  | 78.87                 | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 8.81            | 261.55      | 7,270.46            | -58.06   | -390.71  | 82.05                 | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 8.81            | 261.55      | 7,369.28            | -60.31   | -405.85  | 85.23                 | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 8.81            | 261.55      | 7,468.10            | -62.56   | -421.00  | 88.41                 | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 8.81            | 261.55      | 7,566.92            | -64.81   | -436.14  | 91.60                 | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 8.81            | 261.55      | 7,665.74            | -67.06   | -451.28  | 94.78                 | 0.00                  | 0.00                 | 0.00                |
| 7,800.00            | 8.81            | 261.55      | 7,764.56            | -69.31   | -466.42  | 97.96                 | 0.00                  | 0.00                 | 0.00                |
| 7,900.00            | 8.81            | 261.55      | 7,863.38            | -71.56   | -481.56  | 101.14                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00            | 8.81            | 261.55      | 7,962.20            | -73.81   | -496.71  | 104.32                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00            | 8.81            | 261.55      | 8,061.03            | -76.06   | -511.85  | 107.50                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00            | 8.81            | 261.55      | 8,159.85            | -78.31   | -526.99  | 110.68                | 0.00                  | 0.00                 | 0.00                |
| 8,300.00            | 8.81            | 261.55      | 8,258.67            | -80.56   | -542.13  | 113.86                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00            | 8.81            | 261.55      | 8,357.49            | -82.81   | -557.28  | 117.04                | 0.00                  | 0.00                 | 0.00                |
| 8,500.00            | 8.81            | 261.55      | 8,456.31            | -85.06   | -572.42  | 120.22                | 0.00                  | 0.00                 | 0.00                |
| 8,600.00            | 8.81            | 261.55      | 8,555.13            | -87.31   | -587.56  | 123.40                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00            | 8.81            | 261.55      | 8,653.95            | -89.56   | -602.70  | 126.58                | 0.00                  | 0.00                 | 0.00                |
| 8,800.00            | 8.81            | 261.55      | 8,752.78            | -91.81   | -617.84  | 129.76                | 0.00                  | 0.00                 | 0.00                |
| 8,900.00            | 8.81            | 261.55      | 8,851.60            | -94.06   | -632.99  | 132.94                | 0.00                  | 0.00                 | 0.00                |
| 8,954.79            | 8.81            | 261.55      | 8,905.74            | -95.29   | -641.28  | 134.68                | 0.00                  | 0.00                 | 0.00                |
| 8,959.51            | 8.90            | 261.55      | 8,910.40            | -95.40   | -642.00  | 134.83                | 2.00                  | 2.00                 | 0.05                |
| 8,975.00            | 9.34            | 250.13      | 8,925.70            | -96.00   | -644.37  | 135.58                | 12.00                 | 2.83                 | -73.71              |
| 9,000.00            | 10.71           | 234.70      | 8,950.32            | -98.04   | -648.17  | 137.84                | 12.00                 | 5.46                 | -61.71              |
| 9,025.00            | 12.64           | 223.32      | 8,974.81            | -101.37  | -651.94  | 141.40                | 12.00                 | 7.75                 | -45.50              |
| 9,050.00            | 14.93           | 215.15      | 8,999.09            | -105.99  | -655.68  | 146.25                | 12.00                 | 9.15                 | -32.70              |
| 9,075.00            | 17.43           | 209.19      | 9,023.10            | -111.90  | -659.36  | 152.37                | 12.00                 | 10.01                | -23.85              |
| 9,100.00            | 20.07           | 204.71      | 9,046.77            | -119.06  | -662.98  | 159.74                | 12.00                 | 10.54                | -17.90              |
| 9,125.00            | 22.79           | 201.25      | 9,070.04            | -127.47  | -666.53  | 168.36                | 12.00                 | 10.89                | -13.84              |
| 9,150.00            | 25.57           | 198.50      | 9,092.85            | -137.11  | -670.00  | 178.18                | 12.00                 | 11.13                | -11.00              |
| 9,175.00            | 28.39           | 196.26      | 9,115.12            | -147.93  | -673.37  | 189.20                | 12.00                 | 11.29                | -8.96               |
| 9,200.00            | 31.25           | 194.40      | 9,136.81            | -159.92  | -676.65  | 201.36                | 12.00                 | 11.41                | -7.45               |
| 9,225.00            | 34.12           | 192.82      | 9,157.85            | -173.04  | -679.82  | 214.66                | 12.00                 | 11.51                | -6.32               |
| 9,250.00            | 37.02           | 191.46      | 9,178.18            | -187.26  | -682.87  | 229.03                | 12.00                 | 11.58                | -5.44               |
| 9,275.00            | 39.93           | 190.27      | 9,197.75            | -202.53  | -685.80  | 244.46                | 12.00                 | 11.63                | -4.76               |
| 9,300.00            | 42.84           | 189.22      | 9,216.51            | -218.82  | -688.59  | 260.89                | 12.00                 | 11.67                | -4.21               |
| 9,325.00            | 45.77           | 188.28      | 9,234.40            | -236.08  | -691.25  | 278.27                | 12.00                 | 11.71                | -3.77               |



# Nabors Drilling Solutions

## Planning Report



Database: RyanUSA\_32Bit  
Company: COG Operating LLC  
Project: Eddy Co., NM  
Site: Myox 28 State Com  
Well: 704H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:

Well 704H  
RT=30 @ 2990.00ft (Nabors 894)  
RT=30 @ 2990.00ft (Nabors 894)  
Grid  
Minimum Curvature

### Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 704H - FTP                |                    |                |                           |               |               |                             |                             |                            |                           |
| 9,350.00                  | 48.70              | 187.42         | 9,251.37                  | -254.26       | -693.75       | 296.58                      | 12.00                       | 11.74                      | -3.41                     |
| 9,375.00                  | 51.64              | 186.64         | 9,267.38                  | -273.31       | -696.10       | 315.74                      | 12.00                       | 11.76                      | -3.12                     |
| 9,400.00                  | 54.59              | 185.92         | 9,282.38                  | -293.18       | -698.28       | 335.71                      | 12.00                       | 11.78                      | -2.88                     |
| 9,425.00                  | 57.54              | 185.26         | 9,296.34                  | -313.82       | -700.30       | 356.43                      | 12.00                       | 11.79                      | -2.67                     |
| 9,450.00                  | 60.49              | 184.63         | 9,309.21                  | -335.17       | -702.15       | 377.86                      | 12.00                       | 11.81                      | -2.50                     |
| 9,475.00                  | 63.44              | 184.04         | 9,320.96                  | -357.17       | -703.81       | 399.92                      | 12.00                       | 11.82                      | -2.36                     |
| 9,500.00                  | 66.40              | 183.48         | 9,331.55                  | -379.77       | -705.30       | 422.56                      | 12.00                       | 11.83                      | -2.24                     |
| 9,525.00                  | 69.36              | 182.94         | 9,340.97                  | -402.89       | -706.59       | 445.72                      | 12.00                       | 11.83                      | -2.14                     |
| 9,550.00                  | 72.32              | 182.43         | 9,349.17                  | -426.47       | -707.70       | 469.33                      | 12.00                       | 11.84                      | -2.06                     |
| 9,575.00                  | 75.28              | 181.93         | 9,356.15                  | -450.46       | -708.61       | 493.32                      | 12.00                       | 11.85                      | -1.99                     |
| 9,600.00                  | 78.24              | 181.44         | 9,361.87                  | -474.78       | -709.33       | 517.64                      | 12.00                       | 11.85                      | -1.94                     |
| 9,625.00                  | 81.21              | 180.97         | 9,366.33                  | -499.37       | -709.84       | 542.22                      | 12.00                       | 11.85                      | -1.90                     |
| 9,650.00                  | 84.17              | 180.50         | 9,369.51                  | -524.17       | -710.16       | 566.98                      | 12.00                       | 11.86                      | -1.87                     |
| 9,675.00                  | 87.13              | 180.04         | 9,371.41                  | -549.09       | -710.28       | 591.87                      | 12.00                       | 11.86                      | -1.85                     |
| 9,700.00                  | 90.10              | 179.58         | 9,372.01                  | -574.08       | -710.20       | 616.80                      | 12.00                       | 11.86                      | -1.84                     |
| 9,702.68                  | 90.42              | 179.53         | 9,372.00                  | -576.76       | -710.18       | 619.47                      | 12.00                       | 11.86                      | -1.84                     |
| 9,800.00                  | 90.42              | 179.53         | 9,371.29                  | -674.07       | -709.38       | 716.56                      | 0.00                        | 0.00                       | 0.00                      |
| 9,900.00                  | 90.42              | 179.53         | 9,370.56                  | -774.07       | -708.56       | 816.31                      | 0.00                        | 0.00                       | 0.00                      |
| 10,000.00                 | 90.42              | 179.53         | 9,369.84                  | -874.06       | -707.74       | 916.06                      | 0.00                        | 0.00                       | 0.00                      |
| 10,100.00                 | 90.42              | 179.53         | 9,369.11                  | -974.06       | -706.92       | 1,015.82                    | 0.00                        | 0.00                       | 0.00                      |
| 10,200.00                 | 90.42              | 179.53         | 9,368.39                  | -1,074.05     | -706.11       | 1,115.57                    | 0.00                        | 0.00                       | 0.00                      |
| 10,300.00                 | 90.42              | 179.53         | 9,367.66                  | -1,174.04     | -705.29       | 1,215.32                    | 0.00                        | 0.00                       | 0.00                      |
| 10,400.00                 | 90.42              | 179.53         | 9,366.93                  | -1,274.04     | -704.47       | 1,315.08                    | 0.00                        | 0.00                       | 0.00                      |
| 10,500.00                 | 90.42              | 179.53         | 9,366.21                  | -1,374.03     | -703.65       | 1,414.83                    | 0.00                        | 0.00                       | 0.00                      |
| 10,600.00                 | 90.42              | 179.53         | 9,365.48                  | -1,474.03     | -702.83       | 1,514.58                    | 0.00                        | 0.00                       | 0.00                      |
| 10,700.00                 | 90.42              | 179.53         | 9,364.75                  | -1,574.02     | -702.01       | 1,614.33                    | 0.00                        | 0.00                       | 0.00                      |
| 10,800.00                 | 90.42              | 179.53         | 9,364.03                  | -1,674.01     | -701.19       | 1,714.09                    | 0.00                        | 0.00                       | 0.00                      |
| 10,900.00                 | 90.42              | 179.53         | 9,363.30                  | -1,774.01     | -700.38       | 1,813.84                    | 0.00                        | 0.00                       | 0.00                      |
| 11,000.00                 | 90.42              | 179.53         | 9,362.57                  | -1,874.00     | -699.56       | 1,913.59                    | 0.00                        | 0.00                       | 0.00                      |
| 11,100.00                 | 90.42              | 179.53         | 9,361.85                  | -1,974.00     | -698.74       | 2,013.35                    | 0.00                        | 0.00                       | 0.00                      |
| 11,200.00                 | 90.42              | 179.53         | 9,361.12                  | -2,073.99     | -697.92       | 2,113.10                    | 0.00                        | 0.00                       | 0.00                      |
| 11,300.00                 | 90.42              | 179.53         | 9,360.39                  | -2,173.98     | -697.10       | 2,212.85                    | 0.00                        | 0.00                       | 0.00                      |
| 11,400.00                 | 90.42              | 179.53         | 9,359.67                  | -2,273.98     | -696.28       | 2,312.61                    | 0.00                        | 0.00                       | 0.00                      |
| 11,500.00                 | 90.42              | 179.53         | 9,358.94                  | -2,373.97     | -695.47       | 2,412.36                    | 0.00                        | 0.00                       | 0.00                      |
| 11,600.00                 | 90.42              | 179.53         | 9,358.22                  | -2,473.97     | -694.65       | 2,512.11                    | 0.00                        | 0.00                       | 0.00                      |
| 11,700.00                 | 90.42              | 179.53         | 9,357.49                  | -2,573.96     | -693.83       | 2,611.86                    | 0.00                        | 0.00                       | 0.00                      |
| 11,800.00                 | 90.42              | 179.53         | 9,356.76                  | -2,673.95     | -693.01       | 2,711.62                    | 0.00                        | 0.00                       | 0.00                      |
| 11,900.00                 | 90.42              | 179.53         | 9,356.04                  | -2,773.95     | -692.19       | 2,811.37                    | 0.00                        | 0.00                       | 0.00                      |
| 12,000.00                 | 90.42              | 179.53         | 9,355.31                  | -2,873.94     | -691.37       | 2,911.12                    | 0.00                        | 0.00                       | 0.00                      |
| 12,100.00                 | 90.42              | 179.53         | 9,354.58                  | -2,973.94     | -690.55       | 3,010.88                    | 0.00                        | 0.00                       | 0.00                      |
| 12,200.00                 | 90.42              | 179.53         | 9,353.86                  | -3,073.93     | -689.74       | 3,110.63                    | 0.00                        | 0.00                       | 0.00                      |
| 12,300.00                 | 90.42              | 179.53         | 9,353.13                  | -3,173.92     | -688.92       | 3,210.38                    | 0.00                        | 0.00                       | 0.00                      |
| 12,400.00                 | 90.42              | 179.53         | 9,352.40                  | -3,273.92     | -688.10       | 3,310.14                    | 0.00                        | 0.00                       | 0.00                      |
| 12,500.00                 | 90.42              | 179.53         | 9,351.68                  | -3,373.91     | -687.28       | 3,409.89                    | 0.00                        | 0.00                       | 0.00                      |
| 12,600.00                 | 90.42              | 179.53         | 9,350.95                  | -3,473.91     | -686.46       | 3,509.64                    | 0.00                        | 0.00                       | 0.00                      |
| 12,700.00                 | 90.42              | 179.53         | 9,350.23                  | -3,573.90     | -685.64       | 3,609.39                    | 0.00                        | 0.00                       | 0.00                      |
| 12,800.00                 | 90.42              | 179.53         | 9,349.50                  | -3,673.89     | -684.82       | 3,709.15                    | 0.00                        | 0.00                       | 0.00                      |
| 12,900.00                 | 90.42              | 179.53         | 9,348.77                  | -3,773.89     | -684.01       | 3,808.90                    | 0.00                        | 0.00                       | 0.00                      |
| 13,000.00                 | 90.42              | 179.53         | 9,348.05                  | -3,873.88     | -683.19       | 3,908.65                    | 0.00                        | 0.00                       | 0.00                      |
| 13,100.00                 | 90.42              | 179.53         | 9,347.32                  | -3,973.88     | -682.37       | 4,008.41                    | 0.00                        | 0.00                       | 0.00                      |
| 13,200.00                 | 90.42              | 179.53         | 9,346.59                  | -4,073.87     | -681.55       | 4,108.16                    | 0.00                        | 0.00                       | 0.00                      |
| 13,300.00                 | 90.42              | 179.53         | 9,345.87                  | -4,173.86     | -680.73       | 4,207.91                    | 0.00                        | 0.00                       | 0.00                      |



Nabors Drilling Solutions  
Planning Report



Database: RyanUSA\_32Bit  
Company: COG Operating LLC  
Project: Eddy Co., NM  
Site: Myox 28 State Com  
Well: 704H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey/Calculation Method:

Well 704H  
RT=30 @ 2990.00ft (Nabors 894)  
RT=30 @ 2990.00ft (Nabors 894)  
Grid  
Minimum Curvature

Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 13,400.00                 | 90.42              | 179.53         | 9,345.14                  | -4,273.86     | -679.91       | 4,307.67                    | 0.00                        | 0.00                       | 0.00                      |
| 13,500.00                 | 90.42              | 179.53         | 9,344.41                  | -4,373.85     | -679.09       | 4,407.42                    | 0.00                        | 0.00                       | 0.00                      |
| 13,600.00                 | 90.42              | 179.53         | 9,343.69                  | -4,473.85     | -678.28       | 4,507.17                    | 0.00                        | 0.00                       | 0.00                      |
| 13,700.00                 | 90.42              | 179.53         | 9,342.96                  | -4,573.84     | -677.46       | 4,606.93                    | 0.00                        | 0.00                       | 0.00                      |
| 13,800.00                 | 90.42              | 179.53         | 9,342.24                  | -4,673.83     | -676.64       | 4,706.68                    | 0.00                        | 0.00                       | 0.00                      |
| 13,900.00                 | 90.42              | 179.53         | 9,341.51                  | -4,773.83     | -675.82       | 4,806.43                    | 0.00                        | 0.00                       | 0.00                      |
| 14,000.00                 | 90.42              | 179.53         | 9,340.78                  | -4,873.82     | -675.00       | 4,906.18                    | 0.00                        | 0.00                       | 0.00                      |
| 14,100.00                 | 90.42              | 179.53         | 9,340.06                  | -4,973.82     | -674.18       | 5,005.94                    | 0.00                        | 0.00                       | 0.00                      |
| 14,200.00                 | 90.42              | 179.53         | 9,339.33                  | -5,073.81     | -673.37       | 5,105.69                    | 0.00                        | 0.00                       | 0.00                      |
| 14,300.00                 | 90.42              | 179.53         | 9,338.60                  | -5,173.80     | -672.55       | 5,205.44                    | 0.00                        | 0.00                       | 0.00                      |
| 14,400.00                 | 90.42              | 179.53         | 9,337.88                  | -5,273.80     | -671.73       | 5,305.20                    | 0.00                        | 0.00                       | 0.00                      |
| 14,500.00                 | 90.42              | 179.53         | 9,337.15                  | -5,373.79     | -670.91       | 5,404.95                    | 0.00                        | 0.00                       | 0.00                      |
| 14,600.00                 | 90.42              | 179.53         | 9,336.42                  | -5,473.79     | -670.09       | 5,504.70                    | 0.00                        | 0.00                       | 0.00                      |
| 14,700.00                 | 90.42              | 179.53         | 9,335.70                  | -5,573.78     | -669.27       | 5,604.46                    | 0.00                        | 0.00                       | 0.00                      |
| 14,800.00                 | 90.42              | 179.53         | 9,334.97                  | -5,673.77     | -668.45       | 5,704.21                    | 0.00                        | 0.00                       | 0.00                      |
| 14,900.00                 | 90.42              | 179.53         | 9,334.24                  | -5,773.77     | -667.64       | 5,803.96                    | 0.00                        | 0.00                       | 0.00                      |
| 15,000.00                 | 90.42              | 179.53         | 9,333.52                  | -5,873.76     | -666.82       | 5,903.71                    | 0.00                        | 0.00                       | 0.00                      |
| 15,100.00                 | 90.42              | 179.53         | 9,332.79                  | -5,973.76     | -666.00       | 6,003.47                    | 0.00                        | 0.00                       | 0.00                      |
| 15,200.00                 | 90.42              | 179.53         | 9,332.07                  | -6,073.75     | -665.18       | 6,103.22                    | 0.00                        | 0.00                       | 0.00                      |
| 15,300.00                 | 90.42              | 179.53         | 9,331.34                  | -6,173.75     | -664.36       | 6,202.97                    | 0.00                        | 0.00                       | 0.00                      |
| 15,400.00                 | 90.42              | 179.53         | 9,330.61                  | -6,273.74     | -663.54       | 6,302.73                    | 0.00                        | 0.00                       | 0.00                      |
| 15,500.00                 | 90.42              | 179.53         | 9,329.89                  | -6,373.73     | -662.72       | 6,402.48                    | 0.00                        | 0.00                       | 0.00                      |
| 15,600.00                 | 90.42              | 179.53         | 9,329.16                  | -6,473.73     | -661.91       | 6,502.23                    | 0.00                        | 0.00                       | 0.00                      |
| 15,700.00                 | 90.42              | 179.53         | 9,328.43                  | -6,573.72     | -661.09       | 6,601.99                    | 0.00                        | 0.00                       | 0.00                      |
| 15,800.00                 | 90.42              | 179.53         | 9,327.71                  | -6,673.72     | -660.27       | 6,701.74                    | 0.00                        | 0.00                       | 0.00                      |
| 15,900.00                 | 90.42              | 179.53         | 9,326.98                  | -6,773.71     | -659.45       | 6,801.49                    | 0.00                        | 0.00                       | 0.00                      |
| 16,000.00                 | 90.42              | 179.53         | 9,326.25                  | -6,873.70     | -658.63       | 6,901.24                    | 0.00                        | 0.00                       | 0.00                      |
| 16,100.00                 | 90.42              | 179.53         | 9,325.53                  | -6,973.70     | -657.81       | 7,001.00                    | 0.00                        | 0.00                       | 0.00                      |
| 16,200.00                 | 90.42              | 179.53         | 9,324.80                  | -7,073.69     | -656.99       | 7,100.75                    | 0.00                        | 0.00                       | 0.00                      |
| 16,300.00                 | 90.42              | 179.53         | 9,324.08                  | -7,173.69     | -656.18       | 7,200.50                    | 0.00                        | 0.00                       | 0.00                      |
| 16,400.00                 | 90.42              | 179.53         | 9,323.35                  | -7,273.68     | -655.36       | 7,300.26                    | 0.00                        | 0.00                       | 0.00                      |
| 16,500.00                 | 90.42              | 179.53         | 9,322.62                  | -7,373.67     | -654.54       | 7,400.01                    | 0.00                        | 0.00                       | 0.00                      |
| 16,600.00                 | 90.42              | 179.53         | 9,321.90                  | -7,473.67     | -653.72       | 7,499.76                    | 0.00                        | 0.00                       | 0.00                      |
| 16,700.00                 | 90.42              | 179.53         | 9,321.17                  | -7,573.66     | -652.90       | 7,599.52                    | 0.00                        | 0.00                       | 0.00                      |
| 16,800.00                 | 90.42              | 179.53         | 9,320.44                  | -7,673.66     | -652.08       | 7,699.27                    | 0.00                        | 0.00                       | 0.00                      |
| 16,900.00                 | 90.42              | 179.53         | 9,319.72                  | -7,773.65     | -651.27       | 7,799.02                    | 0.00                        | 0.00                       | 0.00                      |
| 17,000.00                 | 90.42              | 179.53         | 9,318.99                  | -7,873.64     | -650.45       | 7,898.77                    | 0.00                        | 0.00                       | 0.00                      |
| 17,100.00                 | 90.42              | 179.53         | 9,318.26                  | -7,973.64     | -649.63       | 7,998.53                    | 0.00                        | 0.00                       | 0.00                      |
| 17,200.00                 | 90.42              | 179.53         | 9,317.54                  | -8,073.63     | -648.81       | 8,098.28                    | 0.00                        | 0.00                       | 0.00                      |
| 17,300.00                 | 90.42              | 179.53         | 9,316.81                  | -8,173.63     | -647.99       | 8,198.03                    | 0.00                        | 0.00                       | 0.00                      |
| 17,400.00                 | 90.42              | 179.53         | 9,316.09                  | -8,273.62     | -647.17       | 8,297.79                    | 0.00                        | 0.00                       | 0.00                      |
| 17,500.00                 | 90.42              | 179.53         | 9,315.36                  | -8,373.61     | -646.35       | 8,397.54                    | 0.00                        | 0.00                       | 0.00                      |
| 17,600.00                 | 90.42              | 179.53         | 9,314.63                  | -8,473.61     | -645.54       | 8,497.29                    | 0.00                        | 0.00                       | 0.00                      |
| 17,700.00                 | 90.42              | 179.53         | 9,313.91                  | -8,573.60     | -644.72       | 8,597.05                    | 0.00                        | 0.00                       | 0.00                      |
| 17,800.00                 | 90.42              | 179.53         | 9,313.18                  | -8,673.60     | -643.90       | 8,696.80                    | 0.00                        | 0.00                       | 0.00                      |
| 17,900.00                 | 90.42              | 179.53         | 9,312.45                  | -8,773.59     | -643.08       | 8,796.55                    | 0.00                        | 0.00                       | 0.00                      |
| 18,000.00                 | 90.42              | 179.53         | 9,311.73                  | -8,873.58     | -642.26       | 8,896.30                    | 0.00                        | 0.00                       | 0.00                      |
| 18,100.00                 | 90.42              | 179.53         | 9,311.00                  | -8,973.58     | -641.44       | 8,996.06                    | 0.00                        | 0.00                       | 0.00                      |
| 18,200.00                 | 90.42              | 179.53         | 9,310.27                  | -9,073.57     | -640.62       | 9,095.81                    | 0.00                        | 0.00                       | 0.00                      |
| 18,300.00                 | 90.42              | 179.53         | 9,309.55                  | -9,173.57     | -639.81       | 9,195.56                    | 0.00                        | 0.00                       | 0.00                      |
| 18,400.00                 | 90.42              | 179.53         | 9,308.82                  | -9,273.56     | -638.99       | 9,295.32                    | 0.00                        | 0.00                       | 0.00                      |
| 18,500.00                 | 90.42              | 179.53         | 9,308.09                  | -9,373.55     | -638.17       | 9,395.07                    | 0.00                        | 0.00                       | 0.00                      |
| 18,600.00                 | 90.42              | 179.53         | 9,307.37                  | -9,473.55     | -637.35       | 9,494.82                    | 0.00                        | 0.00                       | 0.00                      |
| 18,700.00                 | 90.42              | 179.53         | 9,306.64                  | -9,573.54     | -636.53       | 9,594.58                    | 0.00                        | 0.00                       | 0.00                      |



# Nabors Drilling Solutions

Planning Report



Database: RyanUSA\_32Bit  
Company: COG Operating LLC  
Project: Eddy Co., NM  
Site: Myox 28 State Com  
Well: 704H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well 704H  
TVD Reference: RT=30 @ 2990.00ft (Nabors 894)  
MD Reference: RT=30 @ 2990.00ft (Nabors 894)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 18,800.00           | 90.42           | 179.53      | 9,305.92            | -9,673.54  | -635.71    | 9,694.33              | 0.00                  | 0.00                 | 0.00                |
| 18,900.00           | 90.42           | 179.53      | 9,305.19            | -9,773.53  | -634.89    | 9,794.08              | 0.00                  | 0.00                 | 0.00                |
| 19,000.00           | 90.42           | 179.53      | 9,304.46            | -9,873.52  | -634.08    | 9,893.83              | 0.00                  | 0.00                 | 0.00                |
| 19,100.00           | 90.42           | 179.53      | 9,303.74            | -9,973.52  | -633.26    | 9,993.59              | 0.00                  | 0.00                 | 0.00                |
| 19,200.00           | 90.42           | 179.53      | 9,303.01            | -10,073.51 | -632.44    | 10,093.34             | 0.00                  | 0.00                 | 0.00                |
| 19,209.03           | 90.42           | 179.53      | 9,302.94            | -10,082.54 | -632.37    | 10,102.34             | 0.00                  | 0.00                 | 0.00                |
| 704H - LTP          |                 |             |                     |            |            |                       |                       |                      |                     |
| 19,300.00           | 90.42           | 179.53      | 9,302.28            | -10,173.51 | -631.62    | 10,193.09             | 0.00                  | 0.00                 | 0.00                |
| 19,339.02           | 90.42           | 179.53      | 9,302.00            | -10,212.52 | -631.30    | 10,232.01             | 0.00                  | 0.00                 | 0.00                |
| 704H - BHL          |                 |             |                     |            |            |                       |                       |                      |                     |

## Design Targets

| Target Name | hit/miss target                                                                                         | Dip Angle (°) | Dip Dir (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude           | Longitude           |
|-------------|---------------------------------------------------------------------------------------------------------|---------------|-------------|----------|------------|------------|-----------------|----------------|--------------------|---------------------|
| 704H - BHL  | - plan hits target center<br>- Point                                                                    | 0.00          | 0.00        | 9,302.00 | -10,212.52 | -631.30    | 392,674.800     | 575,509.200    | 32° 4' 45.638916 N | 104° 5' 22.348481 W |
| 704H - LTP  | - plan misses target center by 1.96ft at 19209.03ft MD (9302.94 TVD, -10082.54 N, -632.37 E)<br>- Point | 0.00          | 0.00        | 9,303.00 | -10,082.52 | -630.40    | 392,804.800     | 575,510.100    | 32° 4' 46.925444 N | 104° 5' 22.334606 W |
| 704H - FTP  | - plan misses target center by 197.14ft at 9325.00ft MD (9234.40 TVD, -236.08 N, -691.25 E)<br>- Point  | 0.00          | 0.00        | 9,372.00 | -95.40     | -703.00    | 402,791.900     | 575,437.500    | 32° 6' 25.764406 N | 104° 5' 22.916188 W |

## Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name                | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|---------------------|-----------|---------|-------------------|
| 695.00              | 695.00              | TOS                 |           |         |                   |
| 2,254.00            | 2,254.00            | BOS (Fletcher)      |           |         |                   |
| 2,459.00            | 2,459.00            | LMAR (Top Delaware) |           |         |                   |
| 2,493.00            | 2,493.00            | BLCN                |           |         |                   |
| 3,341.00            | 3,341.00            | CYCN                |           |         |                   |
| 4,555.00            | 4,555.00            | BYCN                |           |         |                   |
| 6,155.05            | 6,139.00            | Bone Sprg (BSGL)    |           |         |                   |
| 6,496.07            | 6,476.00            | U Avalon Sh         |           |         |                   |
| 6,714.65            | 6,692.00            | L Avalon Sh         |           |         |                   |
| 7,104.24            | 7,077.00            | FBSG_sand           |           |         |                   |
| 7,858.12            | 7,822.00            | SBSG_sand           |           |         |                   |
| 8,292.24            | 8,251.00            | SBSG_sand_Base      |           |         |                   |
| 8,987.48            | 8,938.00            | TBSG_sand           |           |         |                   |
| 9,422.52            | 9,295.00            | WFMP                |           |         |                   |

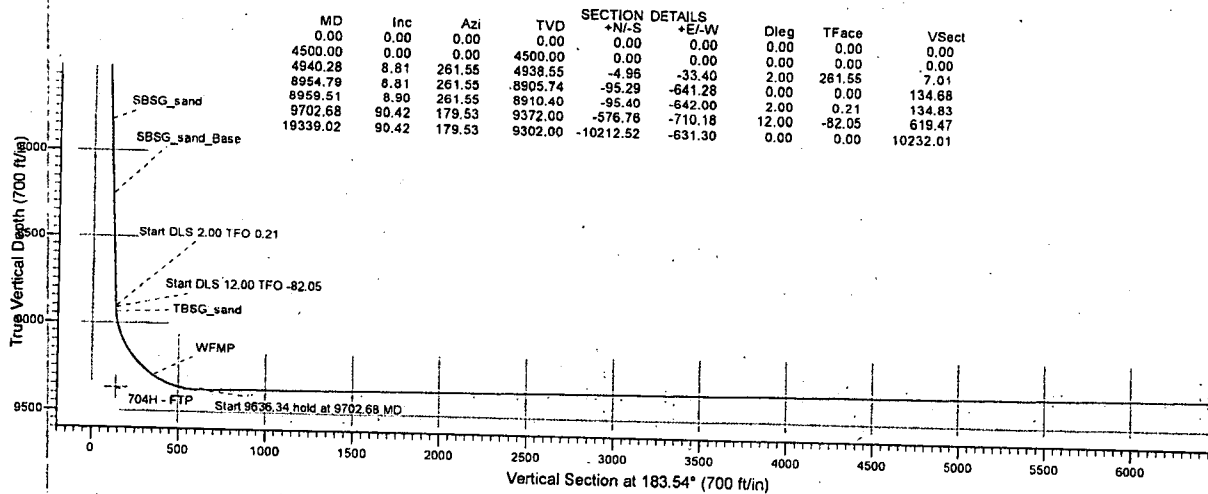
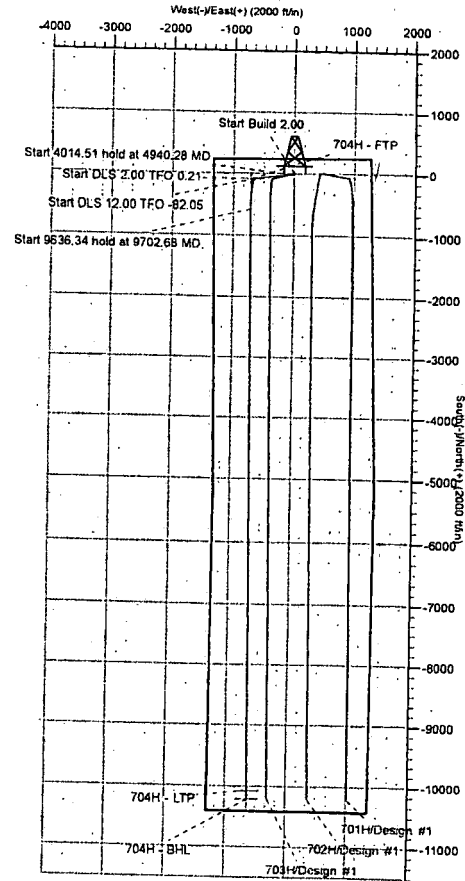
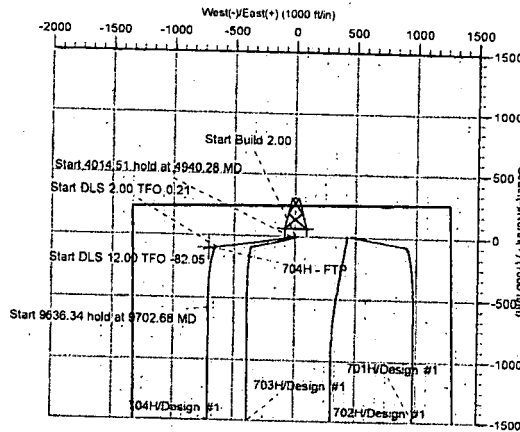
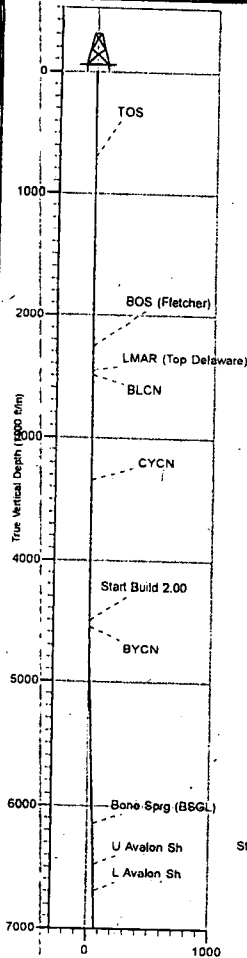


Project: Eddy Co., NM  
Site: Myox 28 State Com  
Well: 704H  
Wellbore: Wellbore #1  
Design: Design #1  
Northing: 402887.300  
Easting: 576140.500  
Rig: Nabors 894



Azimuths to Grid North  
True North: -0.13°  
Magnetic North: 6.87°

Magnetic Field  
Strength: 47876.1nT  
Dip Angle: 59.80°  
Date: 3/25/2019  
Model: HDGM\_FILE



| MD       | Inc   | Azi    | TVD     | SECTION DETAILS |         | Dleg  | TFace  | VSect    |
|----------|-------|--------|---------|-----------------|---------|-------|--------|----------|
|          |       |        |         | +N/-S           | +E/-W   |       |        |          |
| 0.00     | 0.00  | 0.00   | 0.00    | 0.00            | 0.00    | 0.00  | 0.00   | 0.00     |
| 4500.00  | 0.00  | 0.00   | 4500.00 | 0.00            | 0.00    | 0.00  | 0.00   | 0.00     |
| 4940.28  | 8.81  | 261.55 | 4938.55 | -4.96           | -33.40  | 2.00  | 261.55 | 7.01     |
| 8954.79  | 8.81  | 261.55 | 8905.74 | -95.29          | -641.28 | 0.00  | 0.00   | 134.68   |
| 8959.51  | 8.90  | 261.55 | 8910.40 | -95.40          | -642.00 | 2.00  | 0.21   | 134.83   |
| 9702.68  | 90.42 | 179.53 | 9372.00 | -576.76         | -710.18 | 12.00 | -82.05 | 619.47   |
| 19339.02 | 90.42 | 179.53 | 9302.00 | -10212.52       | -631.30 | 0.00  | 0.00   | 10232.01 |

