



EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Golden Graham 1 State Com

#701H

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 12 2018

OH

30-015-45322

RECEIVED

Plan: Plan #0.1

Standard Planning Report

12 October, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 2965.0usft
MD Reference: KB = 25 @ 2965.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site Golden Graham 1 State Com

Site Position: Northing: 387,494.00 usft Latitude: 32° 3' 53.919 N
From: Map Easting: 630,031.00 usft Longitude: 104° 2' 49.246 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.15 °

Well #701H

Well Position +N/-S 0.0 usft Northing: 387,494.00 usft Latitude: 32° 3' 53.919 N
 +E/-W 0.0 usft Easting: 630,031.00 usft Longitude: 104° 2' 49.246 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 2,940.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/11/2018	7.02	59.82	47,661.44111014

Design Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	358.02

Plan Survey Tool Program Date 10/12/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	19,802.7	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,194.8	3.90	245.84	3,194.6	-2.7	-6.0	2.00	2.00	0.00	245.84	
8,969.4	3.90	245.84	8,955.9	-163.3	-364.0	0.00	0.00	0.00	0.00	
9,164.1	0.00	0.00	9,150.5	-166.0	-370.0	2.00	-2.00	0.00	180.00	KOP(GG 1 SC #701H
9,914.1	90.00	0.10	9,628.0	311.5	-369.2	12.00	12.00	0.01	0.10	
19,802.7	90.00	0.10	9,628.0	10,200.0	-352.0	0.00	0.00	0.00	0.00	PBHL(GG 1 SC #701H



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Planned Survey

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	245.84	3,100.0	-0.7	-1.6	-0.7	2.00	2.00	0.00
3,194.8	3.90	245.84	3,194.6	-2.7	-6.0	-2.5	2.00	2.00	0.00
3,200.0	3.90	245.84	3,199.8	-2.9	-6.4	-2.6	0.00	0.00	0.00
3,300.0	3.90	245.84	3,299.6	-5.6	-12.6	-5.2	0.00	0.00	0.00
3,400.0	3.90	245.84	3,399.4	-8.4	-18.8	-7.8	0.00	0.00	0.00
3,500.0	3.90	245.84	3,499.1	-11.2	-25.0	-10.3	0.00	0.00	0.00
3,600.0	3.90	245.84	3,598.9	-14.0	-31.2	-12.9	0.00	0.00	0.00
3,700.0	3.90	245.84	3,698.7	-16.8	-37.4	-15.5	0.00	0.00	0.00
3,800.0	3.90	245.84	3,798.5	-19.5	-43.6	-18.0	0.00	0.00	0.00
3,900.0	3.90	245.84	3,898.2	-22.3	-49.8	-20.6	0.00	0.00	0.00
4,000.0	3.90	245.84	3,998.0	-25.1	-55.9	-23.2	0.00	0.00	0.00
4,100.0	3.90	245.84	4,097.8	-27.9	-62.1	-25.7	0.00	0.00	0.00
4,200.0	3.90	245.84	4,197.5	-30.7	-68.3	-28.3	0.00	0.00	0.00
4,300.0	3.90	245.84	4,297.3	-33.4	-74.5	-30.9	0.00	0.00	0.00
4,400.0	3.90	245.84	4,397.1	-36.2	-80.7	-33.4	0.00	0.00	0.00
4,500.0	3.90	245.84	4,496.8	-39.0	-86.9	-36.0	0.00	0.00	0.00
4,600.0	3.90	245.84	4,596.6	-41.8	-93.1	-38.5	0.00	0.00	0.00
4,700.0	3.90	245.84	4,696.4	-44.6	-99.3	-41.1	0.00	0.00	0.00
4,800.0	3.90	245.84	4,796.1	-47.3	-105.5	-43.7	0.00	0.00	0.00
4,900.0	3.90	245.84	4,895.9	-50.1	-111.7	-46.2	0.00	0.00	0.00
5,000.0	3.90	245.84	4,995.7	-52.9	-117.9	-48.8	0.00	0.00	0.00
5,100.0	3.90	245.84	5,095.4	-55.7	-124.1	-51.4	0.00	0.00	0.00
5,200.0	3.90	245.84	5,195.2	-58.5	-130.3	-53.9	0.00	0.00	0.00



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Planned Survey

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)
5,300.0	3.90	245.84	5,295.0	-61.3	-136.5	-56.5	0.00	0.00	0.00
5,400.0	3.90	245.84	5,394.8	-64.0	-142.7	-59.1	0.00	0.00	0.00
5,500.0	3.90	245.84	5,494.5	-66.8	-148.9	-61.6	0.00	0.00	0.00
5,600.0	3.90	245.84	5,594.3	-69.6	-155.1	-64.2	0.00	0.00	0.00
5,700.0	3.90	245.84	5,694.1	-72.4	-161.3	-66.8	0.00	0.00	0.00
5,800.0	3.90	245.84	5,793.8	-75.2	-167.5	-69.3	0.00	0.00	0.00
5,900.0	3.90	245.84	5,893.6	-77.9	-173.7	-71.9	0.00	0.00	0.00
6,000.0	3.90	245.84	5,993.4	-80.7	-179.9	-74.5	0.00	0.00	0.00
6,100.0	3.90	245.84	6,093.1	-83.5	-186.1	-77.0	0.00	0.00	0.00
6,200.0	3.90	245.84	6,192.9	-86.3	-192.3	-79.6	0.00	0.00	0.00
6,300.0	3.90	245.84	6,292.7	-89.1	-198.5	-82.2	0.00	0.00	0.00
6,400.0	3.90	245.84	6,392.4	-91.8	-204.7	-84.7	0.00	0.00	0.00
6,500.0	3.90	245.84	6,492.2	-94.6	-210.9	-87.3	0.00	0.00	0.00
6,600.0	3.90	245.84	6,592.0	-97.4	-217.1	-89.9	0.00	0.00	0.00
6,700.0	3.90	245.84	6,691.8	-100.2	-223.3	-92.4	0.00	0.00	0.00
6,800.0	3.90	245.84	6,791.5	-103.0	-229.5	-95.0	0.00	0.00	0.00
6,900.0	3.90	245.84	6,891.3	-105.7	-235.7	-97.6	0.00	0.00	0.00
7,000.0	3.90	245.84	6,991.1	-108.5	-241.9	-100.1	0.00	0.00	0.00
7,100.0	3.90	245.84	7,090.8	-111.3	-248.1	-102.7	0.00	0.00	0.00
7,200.0	3.90	245.84	7,190.6	-114.1	-254.3	-105.2	0.00	0.00	0.00
7,300.0	3.90	245.84	7,290.4	-116.9	-260.5	-107.8	0.00	0.00	0.00
7,400.0	3.90	245.84	7,390.1	-119.6	-266.7	-110.4	0.00	0.00	0.00
7,500.0	3.90	245.84	7,489.9	-122.4	-272.9	-112.9	0.00	0.00	0.00
7,600.0	3.90	245.84	7,589.7	-125.2	-279.1	-115.5	0.00	0.00	0.00
7,700.0	3.90	245.84	7,689.4	-128.0	-285.3	-118.1	0.00	0.00	0.00
7,800.0	3.90	245.84	7,789.2	-130.8	-291.5	-120.6	0.00	0.00	0.00
7,900.0	3.90	245.84	7,889.0	-133.6	-297.7	-123.2	0.00	0.00	0.00
8,000.0	3.90	245.84	7,988.7	-136.3	-303.9	-125.8	0.00	0.00	0.00
8,100.0	3.90	245.84	8,088.5	-139.1	-310.1	-128.3	0.00	0.00	0.00
8,200.0	3.90	245.84	8,188.3	-141.9	-316.3	-130.9	0.00	0.00	0.00
8,300.0	3.90	245.84	8,288.1	-144.7	-322.5	-133.5	0.00	0.00	0.00
8,400.0	3.90	245.84	8,387.8	-147.5	-328.7	-136.0	0.00	0.00	0.00
8,500.0	3.90	245.84	8,487.6	-150.2	-334.9	-138.6	0.00	0.00	0.00
8,600.0	3.90	245.84	8,587.4	-153.0	-341.1	-141.2	0.00	0.00	0.00
8,700.0	3.90	245.84	8,687.1	-155.8	-347.3	-143.7	0.00	0.00	0.00
8,800.0	3.90	245.84	8,786.9	-158.6	-353.5	-146.3	0.00	0.00	0.00
8,900.0	3.90	245.84	8,886.7	-161.4	-359.7	-148.9	0.00	0.00	0.00
8,969.4	3.90	245.84	8,955.9	-163.3	-364.0	-150.6	0.00	0.00	0.00
9,000.0	3.28	245.84	8,986.4	-164.1	-365.7	-151.4	2.00	-2.00	0.00
9,100.0	1.28	245.84	9,086.4	-165.7	-369.3	-152.9	2.00	-2.00	0.00
9,164.1	0.00	0.00	9,150.5	-166.0	-370.0	-153.1	2.00	-2.00	0.00
KOP(GG 1 SC #701H)									
9,175.0	1.30	0.10	9,161.4	-165.9	-370.0	-153.0	12.00	12.00	0.00
9,200.0	4.30	0.10	9,186.3	-164.7	-370.0	-151.8	12.00	12.00	0.00
9,225.0	7.30	0.10	9,211.2	-162.1	-370.0	-149.3	12.00	12.00	0.00
9,250.0	10.30	0.10	9,235.9	-158.3	-370.0	-145.4	12.00	12.00	0.00
9,275.0	13.30	0.10	9,260.4	-153.2	-370.0	-140.3	12.00	12.00	0.00
9,300.0	16.30	0.10	9,284.5	-146.8	-370.0	-134.0	12.00	12.00	0.00
9,325.0	19.30	0.10	9,308.3	-139.2	-370.0	-126.3	12.00	12.00	0.00
9,350.0	22.30	0.10	9,331.7	-130.3	-369.9	-117.4	12.00	12.00	0.00
9,375.0	25.30	0.10	9,354.6	-120.2	-369.9	-107.4	12.00	12.00	0.00
9,400.0	28.30	0.10	9,376.9	-108.9	-369.9	-96.1	12.00	12.00	0.00
9,425.0	31.30	0.10	9,398.6	-96.5	-369.9	-83.7	12.00	12.00	0.00



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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)
9,450.0	34.30	0.10	9,419.6	-83.0	-369.9	-70.1	12.00	12.00	0.00
9,475.0	37.30	0.10	9,439.9	-68.3	-369.8	-55.5	12.00	12.00	0.00
9,500.0	40.30	0.10	9,459.3	-52.7	-369.8	-39.9	12.00	12.00	0.00
9,525.0	43.30	0.10	9,478.0	-36.0	-369.8	-23.2	12.00	12.00	0.00
9,550.0	46.30	0.10	9,495.7	-18.4	-369.7	-5.6	12.00	12.00	0.00
9,575.0	49.30	0.10	9,512.5	0.1	-369.7	12.9	12.00	12.00	0.00
9,600.0	52.30	0.10	9,528.3	19.5	-369.7	32.2	12.00	12.00	0.00
9,625.0	55.30	0.10	9,543.1	39.7	-369.6	52.4	12.00	12.00	0.00
9,650.0	58.30	0.10	9,556.7	60.6	-369.6	73.3	12.00	12.00	0.00
9,675.0	61.30	0.10	9,569.3	82.2	-369.6	94.9	12.00	12.00	0.00
9,700.0	64.30	0.10	9,580.7	104.4	-369.5	117.1	12.00	12.00	0.00
9,725.0	67.30	0.10	9,591.0	127.2	-369.5	139.9	12.00	12.00	0.00
9,726.0	67.43	0.10	9,591.4	128.2	-369.5	140.9	12.00	12.00	0.00
FTP(GG 1 SC #701H)									
9,750.0	70.30	0.10	9,600.0	150.5	-369.5	163.2	12.00	12.00	0.00
9,775.0	73.30	0.10	9,607.8	174.3	-369.4	186.9	12.00	12.00	0.00
9,800.0	76.30	0.10	9,614.4	198.4	-369.4	211.0	12.00	12.00	0.00
9,825.0	79.30	0.10	9,619.7	222.8	-369.3	235.4	12.00	12.00	0.00
9,850.0	82.30	0.10	9,623.7	247.5	-369.3	260.1	12.00	12.00	0.00
9,875.0	85.30	0.10	9,626.4	272.4	-369.2	284.9	12.00	12.00	0.00
9,900.0	88.30	0.10	9,627.8	297.3	-369.2	309.9	12.00	12.00	0.00
9,914.1	90.00	0.10	9,628.0	311.5	-369.2	324.0	12.00	12.00	0.00
10,000.0	90.00	0.10	9,628.0	397.3	-369.0	409.8	0.00	0.00	0.00
10,100.0	90.00	0.10	9,628.0	497.3	-368.8	509.7	0.00	0.00	0.00
10,200.0	90.00	0.10	9,628.0	597.3	-368.7	609.7	0.00	0.00	0.00
10,300.0	90.00	0.10	9,628.0	697.3	-368.5	709.6	0.00	0.00	0.00
10,400.0	90.00	0.10	9,628.0	797.3	-368.3	809.6	0.00	0.00	0.00
10,500.0	90.00	0.10	9,628.0	897.3	-368.2	909.5	0.00	0.00	0.00
10,600.0	90.00	0.10	9,628.0	997.3	-368.0	1,009.4	0.00	0.00	0.00
10,700.0	90.00	0.10	9,628.0	1,097.3	-367.8	1,109.4	0.00	0.00	0.00
10,800.0	90.00	0.10	9,628.0	1,197.3	-367.6	1,209.3	0.00	0.00	0.00
10,900.0	90.00	0.10	9,628.0	1,297.3	-367.5	1,309.2	0.00	0.00	0.00
11,000.0	90.00	0.10	9,628.0	1,397.3	-367.3	1,409.2	0.00	0.00	0.00
11,100.0	90.00	0.10	9,628.0	1,497.3	-367.1	1,509.1	0.00	0.00	0.00
11,200.0	90.00	0.10	9,628.0	1,597.3	-366.9	1,609.0	0.00	0.00	0.00
11,300.0	90.00	0.10	9,628.0	1,697.3	-366.8	1,709.0	0.00	0.00	0.00
11,400.0	90.00	0.10	9,628.0	1,797.3	-366.6	1,808.9	0.00	0.00	0.00
11,500.0	90.00	0.10	9,628.0	1,897.3	-366.4	1,908.8	0.00	0.00	0.00
11,600.0	90.00	0.10	9,628.0	1,997.3	-366.2	2,008.8	0.00	0.00	0.00
11,700.0	90.00	0.10	9,628.0	2,097.3	-366.1	2,108.7	0.00	0.00	0.00
11,800.0	90.00	0.10	9,628.0	2,197.3	-365.9	2,208.6	0.00	0.00	0.00
11,900.0	90.00	0.10	9,628.0	2,297.3	-365.7	2,308.6	0.00	0.00	0.00
12,000.0	90.00	0.10	9,628.0	2,397.3	-365.5	2,408.5	0.00	0.00	0.00
12,100.0	90.00	0.10	9,628.0	2,497.3	-365.4	2,508.4	0.00	0.00	0.00
12,200.0	90.00	0.10	9,628.0	2,597.3	-365.2	2,608.4	0.00	0.00	0.00
12,300.0	90.00	0.10	9,628.0	2,697.3	-365.0	2,708.3	0.00	0.00	0.00
12,400.0	90.00	0.10	9,628.0	2,797.3	-364.9	2,808.2	0.00	0.00	0.00
12,500.0	90.00	0.10	9,628.0	2,897.3	-364.7	2,908.2	0.00	0.00	0.00
12,600.0	90.00	0.10	9,628.0	2,997.3	-364.5	3,008.1	0.00	0.00	0.00
12,700.0	90.00	0.10	9,628.0	3,097.3	-364.3	3,108.0	0.00	0.00	0.00
12,800.0	90.00	0.10	9,628.0	3,197.3	-364.2	3,208.0	0.00	0.00	0.00
12,900.0	90.00	0.10	9,628.0	3,297.3	-364.0	3,307.9	0.00	0.00	0.00
13,000.0	90.00	0.10	9,628.0	3,397.3	-363.8	3,407.8	0.00	0.00	0.00
13,100.0	90.00	0.10	9,628.0	3,497.3	-363.6	3,507.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Eddy County, NM (NAD 83 NME)
 Site: Golden Graham 1 State Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 2965.0usft
 MD Reference: KB = 25 @ 2965.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

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)
13,200.0	90.00	0.10	9,628.0	3,597.3	-363.5	3,607.7	0.00	0.00	0.00
13,300.0	90.00	0.10	9,628.0	3,697.3	-363.3	3,707.6	0.00	0.00	0.00
13,400.0	90.00	0.10	9,628.0	3,797.3	-363.1	3,807.6	0.00	0.00	0.00
13,500.0	90.00	0.10	9,628.0	3,897.3	-362.9	3,907.5	0.00	0.00	0.00
13,600.0	90.00	0.10	9,628.0	3,997.3	-362.8	4,007.5	0.00	0.00	0.00
13,700.0	90.00	0.10	9,628.0	4,097.3	-362.6	4,107.4	0.00	0.00	0.00
13,800.0	90.00	0.10	9,628.0	4,197.3	-362.4	4,207.3	0.00	0.00	0.00
13,900.0	90.00	0.10	9,628.0	4,297.3	-362.2	4,307.3	0.00	0.00	0.00
14,000.0	90.00	0.10	9,628.0	4,397.3	-362.1	4,407.2	0.00	0.00	0.00
14,100.0	90.00	0.10	9,628.0	4,497.3	-361.9	4,507.1	0.00	0.00	0.00
14,200.0	90.00	0.10	9,628.0	4,597.3	-361.7	4,607.1	0.00	0.00	0.00
14,300.0	90.00	0.10	9,628.0	4,697.3	-361.6	4,707.0	0.00	0.00	0.00
14,400.0	90.00	0.10	9,628.0	4,797.3	-361.4	4,806.9	0.00	0.00	0.00
14,500.0	90.00	0.10	9,628.0	4,897.3	-361.2	4,906.9	0.00	0.00	0.00
14,600.0	90.00	0.10	9,628.0	4,997.3	-361.0	5,006.8	0.00	0.00	0.00
14,700.0	90.00	0.10	9,628.0	5,097.3	-360.9	5,106.7	0.00	0.00	0.00
14,800.0	90.00	0.10	9,628.0	5,197.3	-360.7	5,206.7	0.00	0.00	0.00
14,900.0	90.00	0.10	9,628.0	5,297.3	-360.5	5,306.6	0.00	0.00	0.00
15,000.0	90.00	0.10	9,628.0	5,397.3	-360.3	5,406.5	0.00	0.00	0.00
15,100.0	90.00	0.10	9,628.0	5,497.3	-360.2	5,506.5	0.00	0.00	0.00
15,200.0	90.00	0.10	9,628.0	5,597.3	-360.0	5,606.4	0.00	0.00	0.00
15,300.0	90.00	0.10	9,628.0	5,697.3	-359.8	5,706.3	0.00	0.00	0.00
15,400.0	90.00	0.10	9,628.0	5,797.3	-359.6	5,806.3	0.00	0.00	0.00
15,500.0	90.00	0.10	9,628.0	5,897.3	-359.5	5,906.2	0.00	0.00	0.00
15,600.0	90.00	0.10	9,628.0	5,997.3	-359.3	6,006.1	0.00	0.00	0.00
15,700.0	90.00	0.10	9,628.0	6,097.3	-359.1	6,106.1	0.00	0.00	0.00
15,800.0	90.00	0.10	9,628.0	6,197.3	-359.0	6,206.0	0.00	0.00	0.00
15,900.0	90.00	0.10	9,628.0	6,297.3	-358.8	6,305.9	0.00	0.00	0.00
16,000.0	90.00	0.10	9,628.0	6,397.3	-358.6	6,405.9	0.00	0.00	0.00
16,100.0	90.00	0.10	9,628.0	6,497.3	-358.4	6,505.8	0.00	0.00	0.00
16,200.0	90.00	0.10	9,628.0	6,597.3	-358.3	6,605.7	0.00	0.00	0.00
16,300.0	90.00	0.10	9,628.0	6,697.3	-358.1	6,705.7	0.00	0.00	0.00
16,400.0	90.00	0.10	9,628.0	6,797.3	-357.9	6,805.6	0.00	0.00	0.00
16,500.0	90.00	0.10	9,628.0	6,897.3	-357.7	6,905.5	0.00	0.00	0.00
16,600.0	90.00	0.10	9,628.0	6,997.3	-357.6	7,005.5	0.00	0.00	0.00
16,700.0	90.00	0.10	9,628.0	7,097.3	-357.4	7,105.4	0.00	0.00	0.00
16,800.0	90.00	0.10	9,628.0	7,197.3	-357.2	7,205.4	0.00	0.00	0.00
16,900.0	90.00	0.10	9,628.0	7,297.3	-357.0	7,305.3	0.00	0.00	0.00
17,000.0	90.00	0.10	9,628.0	7,397.3	-356.9	7,405.2	0.00	0.00	0.00
17,100.0	90.00	0.10	9,628.0	7,497.3	-356.7	7,505.2	0.00	0.00	0.00
17,200.0	90.00	0.10	9,628.0	7,597.3	-356.5	7,605.1	0.00	0.00	0.00
17,300.0	90.00	0.10	9,628.0	7,697.3	-356.3	7,705.0	0.00	0.00	0.00
17,400.0	90.00	0.10	9,628.0	7,797.3	-356.2	7,805.0	0.00	0.00	0.00
17,500.0	90.00	0.10	9,628.0	7,897.3	-356.0	7,904.9	0.00	0.00	0.00
17,600.0	90.00	0.10	9,628.0	7,997.3	-355.8	8,004.8	0.00	0.00	0.00
17,700.0	90.00	0.10	9,628.0	8,097.3	-355.7	8,104.8	0.00	0.00	0.00
17,800.0	90.00	0.10	9,628.0	8,197.3	-355.5	8,204.7	0.00	0.00	0.00
17,900.0	90.00	0.10	9,628.0	8,297.3	-355.3	8,304.6	0.00	0.00	0.00
18,000.0	90.00	0.10	9,628.0	8,397.3	-355.1	8,404.6	0.00	0.00	0.00
18,100.0	90.00	0.10	9,628.0	8,497.3	-355.0	8,504.5	0.00	0.00	0.00
18,200.0	90.00	0.10	9,628.0	8,597.3	-354.8	8,604.4	0.00	0.00	0.00
18,300.0	90.00	0.10	9,628.0	8,697.3	-354.6	8,704.4	0.00	0.00	0.00
18,400.0	90.00	0.10	9,628.0	8,797.3	-354.4	8,804.3	0.00	0.00	0.00
18,500.0	90.00	0.10	9,628.0	8,897.3	-354.3	8,904.2	0.00	0.00	0.00



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

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)
18,600.0	90.00	0.10	9,628.0	8,997.3	-354.1	9,004.2	0.00	0.00	0.00
18,700.0	90.00	0.10	9,628.0	9,097.3	-353.9	9,104.1	0.00	0.00	0.00
18,800.0	90.00	0.10	9,628.0	9,197.3	-353.7	9,204.0	0.00	0.00	0.00
18,900.0	90.00	0.10	9,628.0	9,297.3	-353.6	9,304.0	0.00	0.00	0.00
19,000.0	90.00	0.10	9,628.0	9,397.3	-353.4	9,403.9	0.00	0.00	0.00
19,100.0	90.00	0.10	9,628.0	9,497.3	-353.2	9,503.8	0.00	0.00	0.00
19,200.0	90.00	0.10	9,628.0	9,597.3	-353.0	9,603.8	0.00	0.00	0.00
19,300.0	90.00	0.10	9,628.0	9,697.3	-352.9	9,703.7	0.00	0.00	0.00
19,400.0	90.00	0.10	9,628.0	9,797.3	-352.7	9,803.6	0.00	0.00	0.00
19,500.0	90.00	0.10	9,628.0	9,897.3	-352.5	9,903.6	0.00	0.00	0.00
19,600.0	90.00	0.10	9,628.0	9,997.3	-352.4	10,003.5	0.00	0.00	0.00
19,700.0	90.00	0.10	9,628.0	10,097.3	-352.2	10,103.4	0.00	0.00	0.00
19,802.7	90.00	0.10	9,628.0	10,200.0	-352.0	10,206.1	0.00	0.00	0.00

PBHL(GG 1 SC #701H)

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(GG 1 SC #701H) - plan hits target center - Point	0.00	0.00	9,150.5	-166.0	-370.0	387,328.00	629,661.00	32° 3' 52.286 N	104° 2' 53.551 W
PBHL(GG 1 SC #701H) - plan hits target center - Point	0.00	0.00	9,628.0	10,200.0	-352.0	397,694.00	629,679.00	32° 5' 34.869 N	104° 2' 53.023 W
FTP(GG 1 SC #701H) - plan misses target center by 39.3usft at 9726.0usft MD (9591.4 TVD, 128.2 N, -369.5 E) - Point	0.00	0.00	9,628.0	114.0	-370.0	387,608.00	629,661.00	32° 3' 55.056 N	104° 2' 53.542 W



Eddy County, NM (NAD 83 NME)
Golden Graham 1 State Com #701H
Plan #0.1

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Ceodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #701H

KB = 75 @ 2963.0' Dufft 7940.0

North 387494.00 Easting 836031.00 Latitude 32° 2' 53.919 N Longitude 104° 2' 49.246 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSoc1	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3194.8	3.90	245.84	3194.8	-2.7	-6.0	2.00	245.84	-2.5	
4	8909.4	3.90	245.84	8955.9	-103.3	-384.0	0.00	0.00	-150.0	
5	9184.1	0.00	0.00	9150.3	-166.0	-370.0	2.00	160.00	-153.1	KOP(GG 1 SC #701H)
6	9914.1	90.00	0.10	9828.0	311.5	-369.2	12.00	0.10	324.0	
7	19802.7	90.00	0.10	9828.0	10200.0	-352.0	0.00	0.00	10208.1	PBI(LGG 1 SC #701H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/S	+E/W	North	East
KOP(GG 1 SC #701H)	9150.3	-166.0	-370.0	287328.00	829661.00
F1P(DG 1 SC #701H)	9828.0	311.5	-369.2	287620.00	829661.00
PBI(LGG 1 SC #701H)	9828.0	10200.0	-352.0	287484.00	829679.00

