



EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Golden Graham 1 State Com

#722H

OH

Plan: Plan #0.1

Standard Planning Report

12 October, 2018

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 12 2018

RECEIVED



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 83 NME)
Site: Golden Graham 1 State Com
Well: #722H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #722H
TVD Reference: KB = 25 @ 2966.0usft
MD Reference: KB = 25 @ 2966.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

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	#722H			
Well Position	+N/-S	-19.0 usft	Northing: 387,475.00 usft	Latitude: 32° 3' 53.716 N
	+E/-W	563.0 usft	Easting: 630,594.00 usft	Longitude: 104° 2' 42.703 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 2,941.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/11/2018	7.02	59.82	47,661.59619995

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	0.32

Plan Survey Tool Program	Date 10/12/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	20,057.0	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	
3,071.2	1.42	164.90	3,071.2	-0.9	0.2	2.00	2.00	0.00	164.90	
9,333.2	1.42	164.90	9,331.3	-151.1	40.8	0.00	0.00	0.00	0.00	
9,404.4	0.00	0.01	9,402.5	-152.0	41.0	2.00	-2.00	0.00	180.00	KOP(GG 1 SC #722H)
10,154.4	90.00	0.09	9,880.0	325.5	41.7	12.00	12.00	0.01	0.09	
20,057.0	90.00	0.09	9,880.0	10,228.0	57.0	0.00	0.00	0.00	0.00	PBHL(GG 1 SC #722)



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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
3,071.2	1.42	164.90	3,071.2	-0.9	0.2	-0.9	2.00	2.00	0.00
3,100.0	1.42	164.90	3,100.0	-1.5	0.4	-1.5	0.00	0.00	0.00
3,200.0	1.42	164.90	3,200.0	-3.9	1.1	-3.9	0.00	0.00	0.00
3,300.0	1.42	164.90	3,299.9	-6.3	1.7	-6.3	0.00	0.00	0.00
3,400.0	1.42	164.90	3,399.9	-8.7	2.4	-8.7	0.00	0.00	0.00
3,500.0	1.42	164.90	3,499.9	-11.1	3.0	-11.1	0.00	0.00	0.00
3,600.0	1.42	164.90	3,599.8	-13.5	3.7	-13.5	0.00	0.00	0.00
3,700.0	1.42	164.90	3,699.8	-15.9	4.3	-15.9	0.00	0.00	0.00
3,800.0	1.42	164.90	3,799.8	-18.3	4.9	-18.3	0.00	0.00	0.00
3,900.0	1.42	164.90	3,899.7	-20.7	5.6	-20.7	0.00	0.00	0.00
4,000.0	1.42	164.90	3,999.7	-23.1	6.2	-23.1	0.00	0.00	0.00
4,100.0	1.42	164.90	4,099.7	-25.5	6.9	-25.5	0.00	0.00	0.00
4,200.0	1.42	164.90	4,199.6	-27.9	7.5	-27.9	0.00	0.00	0.00
4,300.0	1.42	164.90	4,299.6	-30.3	8.2	-30.3	0.00	0.00	0.00
4,400.0	1.42	164.90	4,399.6	-32.7	8.8	-32.7	0.00	0.00	0.00
4,500.0	1.42	164.90	4,499.6	-35.1	9.5	-35.1	0.00	0.00	0.00
4,600.0	1.42	164.90	4,599.5	-37.5	10.1	-37.5	0.00	0.00	0.00
4,700.0	1.42	164.90	4,699.5	-39.9	10.8	-39.9	0.00	0.00	0.00
4,800.0	1.42	164.90	4,799.5	-42.3	11.4	-42.3	0.00	0.00	0.00
4,900.0	1.42	164.90	4,899.4	-44.7	12.1	-44.7	0.00	0.00	0.00
5,000.0	1.42	164.90	4,999.4	-47.1	12.7	-47.1	0.00	0.00	0.00
5,100.0	1.42	164.90	5,099.4	-49.5	13.4	-49.5	0.00	0.00	0.00
5,200.0	1.42	164.90	5,199.3	-51.9	14.0	-51.9	0.00	0.00	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)
5,300.0	1.42	164.90	5,299.3	-54.3	14.7	-54.3	0.00	0.00	0.00
5,400.0	1.42	164.90	5,399.3	-56.7	15.3	-56.7	0.00	0.00	0.00
5,500.0	1.42	164.90	5,499.2	-59.1	16.0	-59.1	0.00	0.00	0.00
5,600.0	1.42	164.90	5,599.2	-61.5	16.6	-61.5	0.00	0.00	0.00
5,700.0	1.42	164.90	5,699.2	-63.9	17.2	-63.8	0.00	0.00	0.00
5,800.0	1.42	164.90	5,799.1	-66.3	17.9	-66.2	0.00	0.00	0.00
5,900.0	1.42	164.90	5,899.1	-68.7	18.5	-68.6	0.00	0.00	0.00
6,000.0	1.42	164.90	5,999.1	-71.1	19.2	-71.0	0.00	0.00	0.00
6,100.0	1.42	164.90	6,099.1	-73.5	19.8	-73.4	0.00	0.00	0.00
6,200.0	1.42	164.90	6,199.0	-75.9	20.5	-75.8	0.00	0.00	0.00
6,300.0	1.42	164.90	6,299.0	-78.3	21.1	-78.2	0.00	0.00	0.00
6,400.0	1.42	164.90	6,399.0	-80.7	21.8	-80.6	0.00	0.00	0.00
6,500.0	1.42	164.90	6,498.9	-83.1	22.4	-83.0	0.00	0.00	0.00
6,600.0	1.42	164.90	6,598.9	-85.5	23.1	-85.4	0.00	0.00	0.00
6,700.0	1.42	164.90	6,698.9	-87.9	23.7	-87.8	0.00	0.00	0.00
6,800.0	1.42	164.90	6,798.8	-90.3	24.4	-90.2	0.00	0.00	0.00
6,900.0	1.42	164.90	6,898.8	-92.7	25.0	-92.6	0.00	0.00	0.00
7,000.0	1.42	164.90	6,998.8	-95.1	25.7	-95.0	0.00	0.00	0.00
7,100.0	1.42	164.90	7,098.7	-97.5	26.3	-97.4	0.00	0.00	0.00
7,200.0	1.42	164.90	7,198.7	-99.9	27.0	-99.8	0.00	0.00	0.00
7,300.0	1.42	164.90	7,298.7	-102.3	27.6	-102.2	0.00	0.00	0.00
7,400.0	1.42	164.90	7,398.7	-104.7	28.3	-104.6	0.00	0.00	0.00
7,500.0	1.42	164.90	7,498.6	-107.1	28.9	-107.0	0.00	0.00	0.00
7,600.0	1.42	164.90	7,598.6	-109.5	29.5	-109.4	0.00	0.00	0.00
7,700.0	1.42	164.90	7,698.6	-111.9	30.2	-111.8	0.00	0.00	0.00
7,800.0	1.42	164.90	7,798.5	-114.3	30.8	-114.2	0.00	0.00	0.00
7,900.0	1.42	164.90	7,898.5	-116.7	31.5	-116.6	0.00	0.00	0.00
8,000.0	1.42	164.90	7,998.5	-119.1	32.1	-119.0	0.00	0.00	0.00
8,100.0	1.42	164.90	8,098.4	-121.5	32.8	-121.4	0.00	0.00	0.00
8,200.0	1.42	164.90	8,198.4	-123.9	33.4	-123.8	0.00	0.00	0.00
8,300.0	1.42	164.90	8,298.4	-126.3	34.1	-126.2	0.00	0.00	0.00
8,400.0	1.42	164.90	8,398.3	-128.7	34.7	-128.6	0.00	0.00	0.00
8,500.0	1.42	164.90	8,498.3	-131.1	35.4	-130.9	0.00	0.00	0.00
8,600.0	1.42	164.90	8,598.3	-133.5	36.0	-133.3	0.00	0.00	0.00
8,700.0	1.42	164.90	8,698.3	-135.9	36.7	-135.7	0.00	0.00	0.00
8,800.0	1.42	164.90	8,798.2	-138.3	37.3	-138.1	0.00	0.00	0.00
8,900.0	1.42	164.90	8,898.2	-140.7	38.0	-140.5	0.00	0.00	0.00
9,000.0	1.42	164.90	8,998.2	-143.1	38.6	-142.9	0.00	0.00	0.00
9,100.0	1.42	164.90	9,098.1	-145.5	39.3	-145.3	0.00	0.00	0.00
9,200.0	1.42	164.90	9,198.1	-147.9	39.9	-147.7	0.00	0.00	0.00
9,300.0	1.42	164.90	9,298.1	-150.3	40.6	-150.1	0.00	0.00	0.00
9,333.2	1.42	164.90	9,331.3	-151.1	40.8	-150.9	0.00	0.00	0.00
9,404.4	0.00	0.01	9,402.5	-152.0	41.0	-151.8	2.00	-2.00	0.00
KOP(GG 1 SC #722H)									
9,425.0	2.47	0.09	9,423.0	-151.6	41.0	-151.3	12.00	12.00	0.00
9,450.0	5.47	0.09	9,448.0	-149.8	41.0	-149.6	12.00	12.00	0.00
9,475.0	8.47	0.09	9,472.8	-146.8	41.0	-146.6	12.00	12.00	0.00
9,500.0	11.47	0.09	9,497.4	-142.5	41.0	-142.2	12.00	12.00	0.00
9,525.0	14.47	0.09	9,521.8	-136.9	41.0	-136.6	12.00	12.00	0.00
9,550.0	17.47	0.09	9,545.8	-130.0	41.0	-129.8	12.00	12.00	0.00
9,575.0	20.47	0.09	9,569.4	-121.9	41.0	-121.6	12.00	12.00	0.00
9,600.0	23.47	0.09	9,592.6	-112.5	41.1	-112.3	12.00	12.00	0.00
9,625.0	26.47	0.09	9,615.3	-102.0	41.1	-101.7	12.00	12.00	0.00



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9,650.0	29.47	0.09	9,637.4	-90.2	41.1	-90.0	12.00	12.00	0.00
9,675.0	32.47	0.09	9,658.8	-77.4	41.1	-77.1	12.00	12.00	0.00
9,700.0	35.47	0.09	9,679.5	-63.4	41.1	-63.2	12.00	12.00	0.00
9,725.0	38.47	0.09	9,699.5	-48.4	41.2	-48.1	12.00	12.00	0.00
9,750.0	41.47	0.09	9,718.7	-32.3	41.2	-32.1	12.00	12.00	0.00
9,775.0	44.47	0.09	9,737.0	-15.3	41.2	-15.1	12.00	12.00	0.00
9,800.0	47.47	0.09	9,754.3	2.7	41.2	2.9	12.00	12.00	0.00
9,825.0	50.47	0.09	9,770.7	21.5	41.3	21.8	12.00	12.00	0.00
9,850.0	53.47	0.09	9,786.1	41.2	41.3	41.5	12.00	12.00	0.00
9,875.0	56.47	0.09	9,800.5	61.7	41.3	61.9	12.00	12.00	0.00
9,900.0	59.47	0.09	9,813.8	82.9	41.4	83.1	12.00	12.00	0.00
9,925.0	62.47	0.09	9,825.9	104.7	41.4	105.0	12.00	12.00	0.00
9,950.0	65.47	0.09	9,836.9	127.2	41.4	127.4	12.00	12.00	0.00
9,967.6	67.58	0.09	9,843.9	143.4	41.5	143.6	12.00	12.00	0.00
FTP(GG 1 SC #722H)									
9,975.0	68.47	0.09	9,846.6	150.2	41.5	150.4	12.00	12.00	0.00
10,000.0	71.47	0.09	9,855.2	173.7	41.5	173.9	12.00	12.00	0.00
10,025.0	74.47	0.09	9,862.5	197.6	41.5	197.8	12.00	12.00	0.00
10,050.0	77.47	0.09	9,868.6	221.8	41.6	222.1	12.00	12.00	0.00
10,075.0	80.47	0.09	9,873.4	246.4	41.6	246.6	12.00	12.00	0.00
10,100.0	83.47	0.09	9,876.9	271.1	41.7	271.4	12.00	12.00	0.00
10,125.0	86.47	0.09	9,879.1	296.0	41.7	296.3	12.00	12.00	0.00
10,150.0	89.47	0.09	9,879.9	321.0	41.7	321.2	12.00	12.00	0.00
10,154.4	90.00	0.09	9,880.0	325.5	41.7	325.7	12.00	12.00	0.00
10,200.0	90.00	0.09	9,880.0	371.0	41.8	371.2	0.00	0.00	0.00
10,300.0	90.00	0.09	9,880.0	471.0	42.0	471.2	0.00	0.00	0.00
10,400.0	90.00	0.09	9,880.0	571.0	42.1	571.2	0.00	0.00	0.00
10,500.0	90.00	0.09	9,880.0	671.0	42.3	671.2	0.00	0.00	0.00
10,600.0	90.00	0.09	9,880.0	771.0	42.4	771.2	0.00	0.00	0.00
10,700.0	90.00	0.09	9,880.0	871.0	42.6	871.2	0.00	0.00	0.00
10,800.0	90.00	0.09	9,880.0	971.0	42.7	971.2	0.00	0.00	0.00
10,900.0	90.00	0.09	9,880.0	1,071.0	42.9	1,071.2	0.00	0.00	0.00
11,000.0	90.00	0.09	9,880.0	1,171.0	43.0	1,171.2	0.00	0.00	0.00
11,100.0	90.00	0.09	9,880.0	1,271.0	43.2	1,271.2	0.00	0.00	0.00
11,200.0	90.00	0.09	9,880.0	1,371.0	43.3	1,371.2	0.00	0.00	0.00
11,300.0	90.00	0.09	9,880.0	1,471.0	43.5	1,471.2	0.00	0.00	0.00
11,400.0	90.00	0.09	9,880.0	1,571.0	43.7	1,571.2	0.00	0.00	0.00
11,500.0	90.00	0.09	9,880.0	1,671.0	43.8	1,671.2	0.00	0.00	0.00
11,600.0	90.00	0.09	9,880.0	1,771.0	44.0	1,771.2	0.00	0.00	0.00
11,700.0	90.00	0.09	9,880.0	1,871.0	44.1	1,871.2	0.00	0.00	0.00
11,800.0	90.00	0.09	9,880.0	1,971.0	44.3	1,971.2	0.00	0.00	0.00
11,900.0	90.00	0.09	9,880.0	2,071.0	44.4	2,071.2	0.00	0.00	0.00
12,000.0	90.00	0.09	9,880.0	2,171.0	44.6	2,171.2	0.00	0.00	0.00
12,100.0	90.00	0.09	9,880.0	2,271.0	44.7	2,271.2	0.00	0.00	0.00
12,200.0	90.00	0.09	9,880.0	2,371.0	44.9	2,371.2	0.00	0.00	0.00
12,300.0	90.00	0.09	9,880.0	2,471.0	45.0	2,471.2	0.00	0.00	0.00
12,400.0	90.00	0.09	9,880.0	2,571.0	45.2	2,571.2	0.00	0.00	0.00
12,500.0	90.00	0.09	9,880.0	2,671.0	45.4	2,671.2	0.00	0.00	0.00
12,600.0	90.00	0.09	9,880.0	2,771.0	45.5	2,771.2	0.00	0.00	0.00
12,700.0	90.00	0.09	9,880.0	2,871.0	45.7	2,871.2	0.00	0.00	0.00
12,800.0	90.00	0.09	9,880.0	2,971.0	45.8	2,971.2	0.00	0.00	0.00
12,900.0	90.00	0.09	9,880.0	3,071.0	46.0	3,071.2	0.00	0.00	0.00
13,000.0	90.00	0.09	9,880.0	3,171.0	46.1	3,171.2	0.00	0.00	0.00
13,100.0	90.00	0.09	9,880.0	3,271.0	46.3	3,271.2	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: #722H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #722H
TVD Reference: KB = 25 @ 2966.0usft
MD Reference: KB = 25 @ 2966.0usft
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	0.09	9,880.0	3,371.0	46.4	3,371.2	0.00	0.00	0.00
13,300.0	90.00	0.09	9,880.0	3,471.0	46.6	3,471.2	0.00	0.00	0.00
13,400.0	90.00	0.09	9,880.0	3,571.0	46.7	3,571.2	0.00	0.00	0.00
13,500.0	90.00	0.09	9,880.0	3,671.0	46.9	3,671.2	0.00	0.00	0.00
13,600.0	90.00	0.09	9,880.0	3,771.0	47.0	3,771.2	0.00	0.00	0.00
13,700.0	90.00	0.09	9,880.0	3,871.0	47.2	3,871.2	0.00	0.00	0.00
13,800.0	90.00	0.09	9,880.0	3,971.0	47.4	3,971.2	0.00	0.00	0.00
13,900.0	90.00	0.09	9,880.0	4,071.0	47.5	4,071.2	0.00	0.00	0.00
14,000.0	90.00	0.09	9,880.0	4,171.0	47.7	4,171.2	0.00	0.00	0.00
14,100.0	90.00	0.09	9,880.0	4,271.0	47.8	4,271.2	0.00	0.00	0.00
14,200.0	90.00	0.09	9,880.0	4,371.0	48.0	4,371.2	0.00	0.00	0.00
14,300.0	90.00	0.09	9,880.0	4,471.0	48.1	4,471.2	0.00	0.00	0.00
14,400.0	90.00	0.09	9,880.0	4,571.0	48.3	4,571.2	0.00	0.00	0.00
14,500.0	90.00	0.09	9,880.0	4,671.0	48.4	4,671.2	0.00	0.00	0.00
14,600.0	90.00	0.09	9,880.0	4,771.0	48.6	4,771.2	0.00	0.00	0.00
14,700.0	90.00	0.09	9,880.0	4,871.0	48.7	4,871.2	0.00	0.00	0.00
14,800.0	90.00	0.09	9,880.0	4,971.0	48.9	4,971.2	0.00	0.00	0.00
14,900.0	90.00	0.09	9,880.0	5,071.0	49.1	5,071.2	0.00	0.00	0.00
15,000.0	90.00	0.09	9,880.0	5,171.0	49.2	5,171.2	0.00	0.00	0.00
15,100.0	90.00	0.09	9,880.0	5,271.0	49.4	5,271.2	0.00	0.00	0.00
15,200.0	90.00	0.09	9,880.0	5,371.0	49.5	5,371.2	0.00	0.00	0.00
15,300.0	90.00	0.09	9,880.0	5,471.0	49.7	5,471.2	0.00	0.00	0.00
15,400.0	90.00	0.09	9,880.0	5,571.0	49.8	5,571.2	0.00	0.00	0.00
15,500.0	90.00	0.09	9,880.0	5,671.0	50.0	5,671.2	0.00	0.00	0.00
15,600.0	90.00	0.09	9,880.0	5,771.0	50.1	5,771.2	0.00	0.00	0.00
15,700.0	90.00	0.09	9,880.0	5,871.0	50.3	5,871.2	0.00	0.00	0.00
15,800.0	90.00	0.09	9,880.0	5,971.0	50.4	5,971.2	0.00	0.00	0.00
15,900.0	90.00	0.09	9,880.0	6,071.0	50.6	6,071.2	0.00	0.00	0.00
16,000.0	90.00	0.09	9,880.0	6,171.0	50.7	6,171.2	0.00	0.00	0.00
16,100.0	90.00	0.09	9,880.0	6,271.0	50.9	6,271.2	0.00	0.00	0.00
16,200.0	90.00	0.09	9,880.0	6,371.0	51.1	6,371.2	0.00	0.00	0.00
16,300.0	90.00	0.09	9,880.0	6,471.0	51.2	6,471.2	0.00	0.00	0.00
16,400.0	90.00	0.09	9,880.0	6,571.0	51.4	6,571.2	0.00	0.00	0.00
16,500.0	90.00	0.09	9,880.0	6,671.0	51.5	6,671.2	0.00	0.00	0.00
16,600.0	90.00	0.09	9,880.0	6,771.0	51.7	6,771.2	0.00	0.00	0.00
16,700.0	90.00	0.09	9,880.0	6,871.0	51.8	6,871.2	0.00	0.00	0.00
16,800.0	90.00	0.09	9,880.0	6,971.0	52.0	6,971.2	0.00	0.00	0.00
16,900.0	90.00	0.09	9,880.0	7,071.0	52.1	7,071.2	0.00	0.00	0.00
17,000.0	90.00	0.09	9,880.0	7,171.0	52.3	7,171.2	0.00	0.00	0.00
17,100.0	90.00	0.09	9,880.0	7,271.0	52.4	7,271.2	0.00	0.00	0.00
17,200.0	90.00	0.09	9,880.0	7,371.0	52.6	7,371.2	0.00	0.00	0.00
17,300.0	90.00	0.09	9,880.0	7,471.0	52.8	7,471.2	0.00	0.00	0.00
17,400.0	90.00	0.09	9,880.0	7,571.0	52.9	7,571.2	0.00	0.00	0.00
17,500.0	90.00	0.09	9,880.0	7,671.0	53.1	7,671.2	0.00	0.00	0.00
17,600.0	90.00	0.09	9,880.0	7,771.0	53.2	7,771.2	0.00	0.00	0.00
17,700.0	90.00	0.09	9,880.0	7,871.0	53.4	7,871.2	0.00	0.00	0.00
17,800.0	90.00	0.09	9,880.0	7,971.0	53.5	7,971.2	0.00	0.00	0.00
17,900.0	90.00	0.09	9,880.0	8,071.0	53.7	8,071.2	0.00	0.00	0.00
18,000.0	90.00	0.09	9,880.0	8,171.0	53.8	8,171.2	0.00	0.00	0.00
18,100.0	90.00	0.09	9,880.0	8,271.0	54.0	8,271.2	0.00	0.00	0.00
18,200.0	90.00	0.09	9,880.0	8,371.0	54.1	8,371.2	0.00	0.00	0.00
18,300.0	90.00	0.09	9,880.0	8,471.0	54.3	8,471.2	0.00	0.00	0.00
18,400.0	90.00	0.09	9,880.0	8,571.0	54.4	8,571.2	0.00	0.00	0.00
18,500.0	90.00	0.09	9,880.0	8,671.0	54.6	8,671.2	0.00	0.00	0.00



Planning Report

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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	0.09	9,880.0	8,771.0	54.8	8,771.2	0.00	0.00	0.00
18,700.0	90.00	0.09	9,880.0	8,871.0	54.9	8,871.2	0.00	0.00	0.00
18,800.0	90.00	0.09	9,880.0	8,971.0	55.1	8,971.2	0.00	0.00	0.00
18,900.0	90.00	0.09	9,880.0	9,071.0	55.2	9,071.2	0.00	0.00	0.00
19,000.0	90.00	0.09	9,880.0	9,171.0	55.4	9,171.2	0.00	0.00	0.00
19,100.0	90.00	0.09	9,880.0	9,271.0	55.5	9,271.2	0.00	0.00	0.00
19,200.0	90.00	0.09	9,880.0	9,371.0	55.7	9,371.2	0.00	0.00	0.00
19,300.0	90.00	0.09	9,880.0	9,471.0	55.8	9,471.2	0.00	0.00	0.00
19,400.0	90.00	0.09	9,880.0	9,571.0	56.0	9,571.2	0.00	0.00	0.00
19,500.0	90.00	0.09	9,880.0	9,671.0	56.1	9,671.2	0.00	0.00	0.00
19,600.0	90.00	0.09	9,880.0	9,771.0	56.3	9,771.2	0.00	0.00	0.00
19,700.0	90.00	0.09	9,880.0	9,871.0	56.4	9,871.2	0.00	0.00	0.00
19,800.0	90.00	0.09	9,880.0	9,971.0	56.6	9,971.2	0.00	0.00	0.00
19,900.0	90.00	0.09	9,880.0	10,071.0	56.8	10,071.2	0.00	0.00	0.00
20,000.0	90.00	0.09	9,880.0	10,171.0	56.9	10,171.2	0.00	0.00	0.00
20,057.0	90.00	0.09	9,880.0	10,228.0	57.0	10,228.2	0.00	0.00	0.00

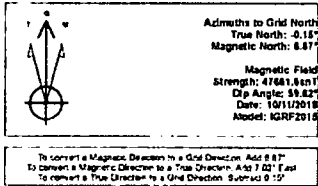
PBHL(GG 1 SC #722H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(GG 1 SC #722H)	0.00	0.01	9,402.5	-152.0	41.0	387,323.00	630,635.00	32° 3' 52.210 N	104° 2' 42.232 W
- hit/miss target									
- plan hits target center									
- Point									
FTP(GG 1 SC #722H)	0.00	0.01	9,880.0	128.0	41.0	387,603.00	630,635.00	32° 3' 54.981 N	104° 2' 42.223 W
- plan misses target center by 39.3usft at 9967.6usft MD (9843.9 TVD, 143.4 N, 41.5 E)									
- Point									
PBHL(GG 1 SC #722H)	0.00	0.00	9,880.0	10,228.0	57.0	397,703.00	630,651.00	32° 5' 34.932 N	104° 2' 41.723 W
- plan hits target center									
- Point									



Eddy County, NM (NAD 83 NME)
Golden Graham 1 State Com #722H
Plan #0.1



PROJECT DETAILS: Eddy County, NM (NAD 83 NME)
Geodetic 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: #722H			
KB = 25 @ 2966.0m	2941.0		
Northing	Eastng	Latitude	Longitude
387475.00	830594.00	32° 2' 53.716 N	104° 2' 42.703 W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl	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	3071.2	1.42	184.90	3071.2	-0.9	0.2	2.00	184.90	-0.9	
4	9333.2	1.42	184.90	9331.3	-151.1	40.8	0.00	0.00	-150.9	
5	9404.4	0.00	0.00	9402.3	-152.0	41.0	2.00	180.00	-151.8	KOP(GG 1 SC #722H)
6	10154.4	90.00	0.00	9880.0	325.5	41.7	12.00	0.00	325.7	
7	20057.0	90.00	0.00	9880.0	10228.0	57.0	0.00	0.00	10228.2	PBHL(GG 1 SC #722H)

WELLBORE TARGET DETAILS (MAP COORDINATES)					
Name	TVD	+N/S	+E/W	Northing	Eastng
KOP(GG 1 SC #722H)	9402.3	-152.0	41.0	387523.00	830618.00
P1(PGG 1 SC #722H)	9880.0	128.0	41.0	387633.00	830619.00
PBHL(GG 1 SC #722H)	9880.0	10228.0	57.0	397701.00	830611.00

