



Lea County, NM (NAD 27 NME)

Tour Bus 23 State #702H

H&P 415

Plan #1



Azimuths to Grid North
True North: -0.47°
Magnetic North: 8.62°

Magnetic Field
Strength: 4823.9 nT
Dip Angle: 80.25°
Date: 8/18/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.62°
To convert a Magnetic Direction to a True Direction, Add 7.15° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #702H

Ground Level: 3480.0
KB = 25 @ 3815.0usft (H&P 415)
Northing 504418.00 Easting 773381.00 Latitude 32° 23' 1.137 N Longitude 103° 26' 51.907 W

SECTION DETAILS

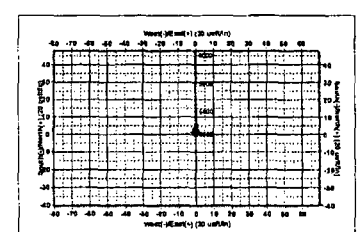
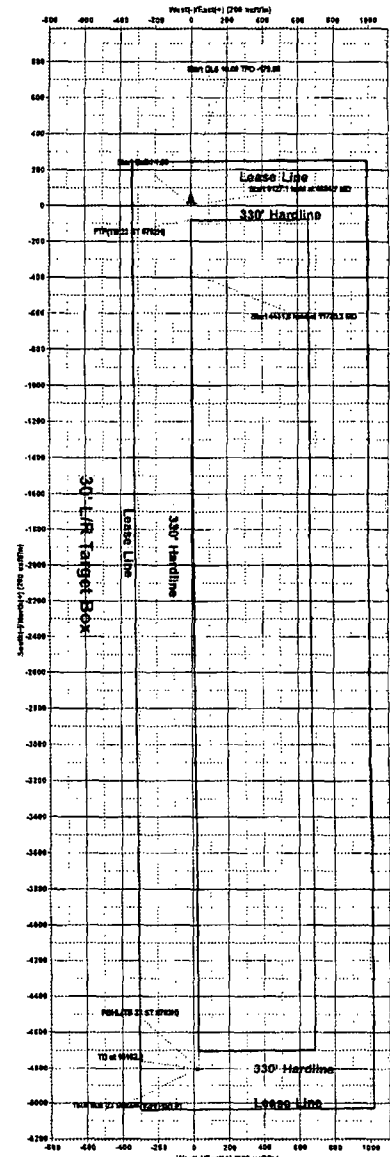
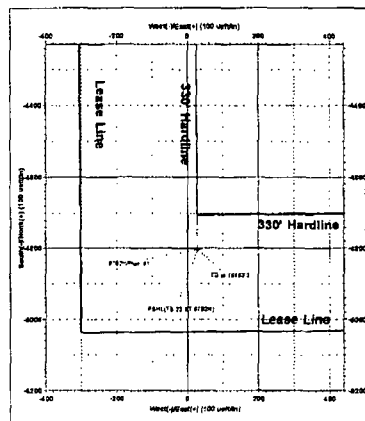
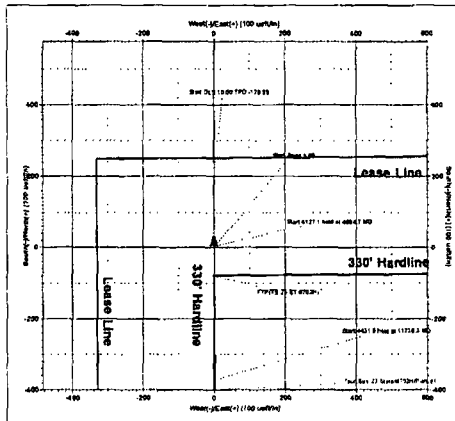
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4684.7	1.85	359.54	4684.7	3.0	0.0	1.00	359.54	-3.0	
4	10811.6	1.85	359.54	10806.6	200.5	-1.6	0.00	0.00	-200.5	
5	11730.3	90.00	179.86	11400.0	-372.2	1.7	10.00	-179.88	372.2	
6	16162.2	90.00	179.86	11400.0	-4804.0	28.0	0.00	0.00	4804.1	PBHL(TB 23 ST #702H)

CASING DETAILS

No casing data is available.

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(TB 23 ST #702H)	11400.0	-48.0	0.0	504338.00	773381.00
PBHL(TB 23 ST #702H)	11400.0	-4804.0	28.0	499914.00	773409.00



'AUG 20 2015



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Tour Bus 23 State

#702H

OH

Plan: Plan #1

Standard Planning Report

18 August, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Tour Bus 23 State
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3515.0usft (H&P 415)
MD Reference: KB = 25 @ 3515.0usft (H&P 415)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Tour Bus 23 State				
Site Position:		Northing:	504,418.00 usft	Latitude:	32° 23' 1.137 N
From:	Map	Easting:	773,381.00 usft	Longitude:	103° 26' 51.907 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	#702H					
Well Position	+N/-S	0.0 usft	Northing:	504,418.00 usft	Latitude:	32° 23' 1.137 N
	+E/-W	0.0 usft	Easting:	773,381.00 usft	Longitude:	103° 26' 51.907 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,490.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	9/18/2015	(°)	(°)	(nT)
			7.10	60.25	48,226

Design	Plan #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	179.67

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,684.7	1.85	359.54	4,684.7	3.0	0.0	1.00	1.00	0.00	359.54	
10,811.8	1.85	359.54	10,808.6	200.5	-1.6	0.00	0.00	0.00	0.00	
11,730.3	90.00	179.66	11,400.0	-372.2	1.7	10.00	9.60	-19.58	-179.88	
16,162.2	90.00	179.66	11,400.0	-4,804.0	28.0	0.00	0.00	0.00	0.00	0.00 PBHL(TB 23 ST #702



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 27 NME)
Site: Tour Bus 23 State
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3515.0usft (H&P 415)
MD Reference: KB = 25 @ 3515.0usft (H&P 415)
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)
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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	359.54	4,600.0	0.9	0.0	-0.9	1.00	1.00	0.00
4,684.7	1.85	359.54	4,684.7	3.0	0.0	-3.0	1.00	1.00	0.00
4,700.0	1.85	359.54	4,700.0	3.5	0.0	-3.5	0.00	0.00	0.00
4,800.0	1.85	359.54	4,799.9	6.7	-0.1	-6.7	0.00	0.00	0.00
4,900.0	1.85	359.54	4,899.9	9.9	-0.1	-9.9	0.00	0.00	0.00
5,000.0	1.85	359.54	4,999.8	13.1	-0.1	-13.1	0.00	0.00	0.00
5,100.0	1.85	359.54	5,099.8	16.4	-0.1	-16.4	0.00	0.00	0.00
5,200.0	1.85	359.54	5,199.7	19.6	-0.2	-19.6	0.00	0.00	0.00



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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)
5,300.0	1.85	359.54	5,299.6	22.8	-0.2	-22.8	0.00	0.00	0.00
5,400.0	1.85	359.54	5,399.6	26.0	-0.2	-26.0	0.00	0.00	0.00
5,500.0	1.85	359.54	5,499.5	29.3	-0.2	-29.3	0.00	0.00	0.00
5,600.0	1.85	359.54	5,599.5	32.5	-0.3	-32.5	0.00	0.00	0.00
5,700.0	1.85	359.54	5,699.4	35.7	-0.3	-35.7	0.00	0.00	0.00
5,800.0	1.85	359.54	5,799.4	38.9	-0.3	-38.9	0.00	0.00	0.00
5,900.0	1.85	359.54	5,899.3	42.1	-0.3	-42.2	0.00	0.00	0.00
6,000.0	1.85	359.54	5,999.3	45.4	-0.4	-45.4	0.00	0.00	0.00
6,100.0	1.85	359.54	6,099.2	48.6	-0.4	-48.6	0.00	0.00	0.00
6,200.0	1.85	359.54	6,199.2	51.8	-0.4	-51.8	0.00	0.00	0.00
6,300.0	1.85	359.54	6,299.1	55.0	-0.4	-55.0	0.00	0.00	0.00
6,400.0	1.85	359.54	6,399.1	58.3	-0.5	-58.3	0.00	0.00	0.00
6,500.0	1.85	359.54	6,499.0	61.5	-0.5	-61.5	0.00	0.00	0.00
6,600.0	1.85	359.54	6,599.0	64.7	-0.5	-64.7	0.00	0.00	0.00
6,700.0	1.85	359.54	6,698.9	67.9	-0.5	-67.9	0.00	0.00	0.00
6,800.0	1.85	359.54	6,798.9	71.2	-0.6	-71.2	0.00	0.00	0.00
6,900.0	1.85	359.54	6,898.8	74.4	-0.6	-74.4	0.00	0.00	0.00
7,000.0	1.85	359.54	6,998.8	77.6	-0.6	-77.6	0.00	0.00	0.00
7,100.0	1.85	359.54	7,098.7	80.8	-0.7	-80.8	0.00	0.00	0.00
7,200.0	1.85	359.54	7,198.7	84.1	-0.7	-84.1	0.00	0.00	0.00
7,300.0	1.85	359.54	7,298.6	87.3	-0.7	-87.3	0.00	0.00	0.00
7,400.0	1.85	359.54	7,398.6	90.5	-0.7	-90.5	0.00	0.00	0.00
7,500.0	1.85	359.54	7,498.5	93.7	-0.8	-93.7	0.00	0.00	0.00
7,600.0	1.85	359.54	7,598.5	96.9	-0.8	-96.9	0.00	0.00	0.00
7,700.0	1.85	359.54	7,698.4	100.2	-0.8	-100.2	0.00	0.00	0.00
7,800.0	1.85	359.54	7,798.3	103.4	-0.8	-103.4	0.00	0.00	0.00
7,900.0	1.85	359.54	7,898.3	106.6	-0.9	-106.6	0.00	0.00	0.00
8,000.0	1.85	359.54	7,998.2	109.8	-0.9	-109.8	0.00	0.00	0.00
8,100.0	1.85	359.54	8,098.2	113.1	-0.9	-113.1	0.00	0.00	0.00
8,200.0	1.85	359.54	8,198.1	116.3	-0.9	-116.3	0.00	0.00	0.00
8,300.0	1.85	359.54	8,298.1	119.5	-1.0	-119.5	0.00	0.00	0.00
8,400.0	1.85	359.54	8,398.0	122.7	-1.0	-122.7	0.00	0.00	0.00
8,500.0	1.85	359.54	8,498.0	126.0	-1.0	-126.0	0.00	0.00	0.00
8,600.0	1.85	359.54	8,597.9	129.2	-1.0	-129.2	0.00	0.00	0.00
8,700.0	1.85	359.54	8,697.9	132.4	-1.1	-132.4	0.00	0.00	0.00
8,800.0	1.85	359.54	8,797.8	135.6	-1.1	-135.6	0.00	0.00	0.00
8,900.0	1.85	359.54	8,897.8	138.8	-1.1	-138.9	0.00	0.00	0.00
9,000.0	1.85	359.54	8,997.7	142.1	-1.1	-142.1	0.00	0.00	0.00
9,100.0	1.85	359.54	9,097.7	145.3	-1.2	-145.3	0.00	0.00	0.00
9,200.0	1.85	359.54	9,197.6	148.5	-1.2	-148.5	0.00	0.00	0.00
9,300.0	1.85	359.54	9,297.6	151.7	-1.2	-151.7	0.00	0.00	0.00
9,400.0	1.85	359.54	9,397.5	155.0	-1.3	-155.0	0.00	0.00	0.00
9,500.0	1.85	359.54	9,497.5	158.2	-1.3	-158.2	0.00	0.00	0.00
9,600.0	1.85	359.54	9,597.4	161.4	-1.3	-161.4	0.00	0.00	0.00
9,700.0	1.85	359.54	9,697.4	164.6	-1.3	-164.6	0.00	0.00	0.00
9,800.0	1.85	359.54	9,797.3	167.9	-1.4	-167.9	0.00	0.00	0.00
9,900.0	1.85	359.54	9,897.3	171.1	-1.4	-171.1	0.00	0.00	0.00
10,000.0	1.85	359.54	9,997.2	174.3	-1.4	-174.3	0.00	0.00	0.00
10,100.0	1.85	359.54	10,097.2	177.5	-1.4	-177.5	0.00	0.00	0.00
10,200.0	1.85	359.54	10,197.1	180.8	-1.5	-180.8	0.00	0.00	0.00
10,300.0	1.85	359.54	10,297.0	184.0	-1.5	-184.0	0.00	0.00	0.00
10,400.0	1.85	359.54	10,397.0	187.2	-1.5	-187.2	0.00	0.00	0.00
10,500.0	1.85	359.54	10,496.9	190.4	-1.5	-190.4	0.00	0.00	0.00
10,600.0	1.85	359.54	10,596.9	193.6	-1.6	-193.7	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)
10,700.0	1.85	359.54	10,696.8	196.9	-1.6	-196.9	0.00	0.00	0.00
10,800.0	1.85	359.54	10,796.8	200.1	-1.6	-200.1	0.00	0.00	0.00
10,811.8	1.85	359.54	10,808.6	200.5	-1.6	-200.5	0.00	0.00	0.00
10,850.0	1.97	179.78	10,846.8	200.4	-1.6	-200.4	10.00	0.33	-470.45
10,900.0	6.97	179.69	10,896.8	196.5	-1.6	-196.5	10.00	10.00	-0.17
10,950.0	11.97	179.68	10,945.9	188.3	-1.6	-188.3	10.00	10.00	-0.03
11,000.0	16.97	179.67	10,994.3	175.8	-1.5	-175.8	10.00	10.00	-0.01
11,050.0	21.97	179.67	11,041.4	159.1	-1.4	-159.2	10.00	10.00	-0.01
11,100.0	26.97	179.67	11,086.9	138.4	-1.3	-138.4	10.00	10.00	0.00
11,150.0	31.97	179.67	11,130.4	113.8	-1.1	-113.9	10.00	10.00	0.00
11,200.0	36.97	179.67	11,171.6	85.6	-1.0	-85.6	10.00	10.00	0.00
11,250.0	41.97	179.66	11,210.2	53.8	-0.8	-53.8	10.00	10.00	0.00
11,300.0	46.97	179.66	11,245.9	18.8	-0.6	-18.8	10.00	10.00	0.00
11,350.0	51.97	179.66	11,278.4	-19.2	-0.4	19.2	10.00	10.00	0.00
11,400.0	56.97	179.66	11,307.4	-59.9	-0.1	59.9	10.00	10.00	0.00
11,450.0	61.97	179.66	11,332.8	-103.0	0.1	103.0	10.00	10.00	0.00
11,458.2	62.80	179.66	11,336.6	-110.3	0.2	110.3	10.00	10.00	0.00
FTP(TB 23 ST #702H)									
11,500.0	66.97	179.66	11,354.4	-148.1	0.4	148.1	10.00	10.00	0.00
11,550.0	71.97	179.66	11,371.9	-194.9	0.7	194.9	10.00	10.00	0.00
11,600.0	76.97	179.66	11,385.3	-243.0	1.0	243.0	10.00	10.00	0.00
11,650.0	81.97	179.66	11,394.4	-292.2	1.3	292.2	10.00	10.00	0.00
11,700.0	86.97	179.66	11,399.2	-341.9	1.6	341.9	10.00	10.00	0.00
11,730.3	90.00	179.66	11,400.0	-372.2	1.7	372.2	10.00	10.00	0.00
11,800.0	90.00	179.66	11,400.0	-441.9	2.1	441.9	0.00	0.00	0.00
11,900.0	90.00	179.66	11,400.0	-541.9	2.7	541.9	0.00	0.00	0.00
12,000.0	90.00	179.66	11,400.0	-641.9	3.3	641.9	0.00	0.00	0.00
12,100.0	90.00	179.66	11,400.0	-741.9	3.9	741.9	0.00	0.00	0.00
12,200.0	90.00	179.66	11,400.0	-841.9	4.5	841.9	0.00	0.00	0.00
12,300.0	90.00	179.66	11,400.0	-941.9	5.1	941.9	0.00	0.00	0.00
12,400.0	90.00	179.66	11,400.0	-1,041.9	5.7	1,041.9	0.00	0.00	0.00
12,500.0	90.00	179.66	11,400.0	-1,141.9	6.3	1,141.9	0.00	0.00	0.00
12,600.0	90.00	179.66	11,400.0	-1,241.9	6.9	1,241.9	0.00	0.00	0.00
12,700.0	90.00	179.66	11,400.0	-1,341.9	7.5	1,341.9	0.00	0.00	0.00
12,800.0	90.00	179.66	11,400.0	-1,441.9	8.1	1,441.9	0.00	0.00	0.00
12,900.0	90.00	179.66	11,400.0	-1,541.9	8.7	1,541.9	0.00	0.00	0.00
13,000.0	90.00	179.66	11,400.0	-1,641.9	9.3	1,641.9	0.00	0.00	0.00
13,100.0	90.00	179.66	11,400.0	-1,741.9	9.9	1,741.9	0.00	0.00	0.00
13,200.0	90.00	179.66	11,400.0	-1,841.9	10.4	1,841.9	0.00	0.00	0.00
13,300.0	90.00	179.66	11,400.0	-1,941.9	11.0	1,941.9	0.00	0.00	0.00
13,400.0	90.00	179.66	11,400.0	-2,041.9	11.6	2,041.9	0.00	0.00	0.00
13,500.0	90.00	179.66	11,400.0	-2,141.9	12.2	2,141.9	0.00	0.00	0.00
13,600.0	90.00	179.66	11,400.0	-2,241.9	12.8	2,241.9	0.00	0.00	0.00
13,700.0	90.00	179.66	11,400.0	-2,341.9	13.4	2,341.9	0.00	0.00	0.00
13,800.0	90.00	179.66	11,400.0	-2,441.9	14.0	2,441.9	0.00	0.00	0.00
13,900.0	90.00	179.66	11,400.0	-2,541.9	14.6	2,541.9	0.00	0.00	0.00
14,000.0	90.00	179.66	11,400.0	-2,641.9	15.2	2,641.9	0.00	0.00	0.00
14,100.0	90.00	179.66	11,400.0	-2,741.9	15.8	2,741.9	0.00	0.00	0.00
14,200.0	90.00	179.66	11,400.0	-2,841.9	16.4	2,841.9	0.00	0.00	0.00
14,300.0	90.00	179.66	11,400.0	-2,941.9	17.0	2,941.9	0.00	0.00	0.00
14,400.0	90.00	179.66	11,400.0	-3,041.9	17.6	3,041.9	0.00	0.00	0.00
14,500.0	90.00	179.66	11,400.0	-3,141.9	18.1	3,141.9	0.00	0.00	0.00
14,600.0	90.00	179.66	11,400.0	-3,241.9	18.7	3,241.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Tour Bus 23 State
 Well: #702H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3515.0usft (H&P 415)
 MD Reference: KB = 25 @ 3515.0usft (H&P 415)
 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)
14,700.0	90.00	179.66	11,400.0	-3,341.9	19.3	3,341.9	0.00	0.00	0.00
14,800.0	90.00	179.66	11,400.0	-3,441.9	19.9	3,441.9	0.00	0.00	0.00
14,900.0	90.00	179.66	11,400.0	-3,541.9	20.5	3,541.9	0.00	0.00	0.00
15,000.0	90.00	179.66	11,400.0	-3,641.9	21.1	3,641.9	0.00	0.00	0.00
15,100.0	90.00	179.66	11,400.0	-3,741.9	21.7	3,741.9	0.00	0.00	0.00
15,200.0	90.00	179.66	11,400.0	-3,841.9	22.3	3,841.9	0.00	0.00	0.00
15,300.0	90.00	179.66	11,400.0	-3,941.9	22.9	3,941.9	0.00	0.00	0.00
15,400.0	90.00	179.66	11,400.0	-4,041.9	23.5	4,041.9	0.00	0.00	0.00
15,500.0	90.00	179.66	11,400.0	-4,141.9	24.1	4,141.9	0.00	0.00	0.00
15,600.0	90.00	179.66	11,400.0	-4,241.8	24.7	4,241.9	0.00	0.00	0.00
15,700.0	90.00	179.66	11,400.0	-4,341.8	25.3	4,341.9	0.00	0.00	0.00
15,800.0	90.00	179.66	11,400.0	-4,441.8	25.9	4,441.9	0.00	0.00	0.00
15,900.0	90.00	179.66	11,400.0	-4,541.8	26.4	4,541.9	0.00	0.00	0.00
16,000.0	90.00	179.66	11,400.0	-4,641.8	27.0	4,641.9	0.00	0.00	0.00
16,100.0	90.00	179.66	11,400.0	-4,741.8	27.6	4,741.9	0.00	0.00	0.00
16,162.2	90.00	179.66	11,400.0	-4,804.0	28.0	4,804.1	0.00	0.00	0.00

PBHL(TB 23 ST #702H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(TB 23 ST #702H)	0.00	0.00	11,400.0	-80.0	0.0	504,338.00	773,381.00	32° 23' 0.345 N	103° 26' 51.915 W
- hit/miss target									
- plan misses target center by 70.2usft at 11458.2usft MD (11338.6 TVD, -110.3 N, 0.2 E)									
- Point									
PBHL(TB 23 ST #702H)	0.00	0.00	11,400.0	-4,804.0	28.0	499,614.00	773,409.00	32° 22' 13.599 N	103° 26' 52.044 W
- plan hits target center									
- Point									