



Lea County, NM (NAD 83 NME)

Nautilus 16 Fed Com #701H

Plan #0.1

PROJECT DETAILS: Lea 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: #701H

Ground Level: 3311.00
KB = 25' @ 3338.00usft
Northing: 378258.00
Easting: 809141.00
Latitude: 32.8389025
Longitude: -103.4690539

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4392.18	3.92	114.03	4391.68	-5.48	12.25	1.00	114.03	-4.68	
4	12313.78	3.92	114.03	12284.93	-228.07	507.08	0.00	0.00	-193.48	
5	13078.17	90.10	359.50	12785.00	252.28	533.53	12.00	-114.47	285.59	
6	20243.17	90.10	359.50	12772.49	7417.00	471.00	0.00	0.00	7431.94	PBHL (Nautilus 16 Fed Com #701H)



Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.48°
Magnetic Field
Strength: 47683.2nT
Dip Angle: 59.91°
Date: 3/21/2017
Model: IGRF2016

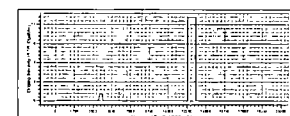
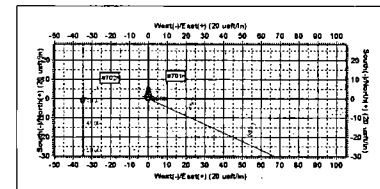
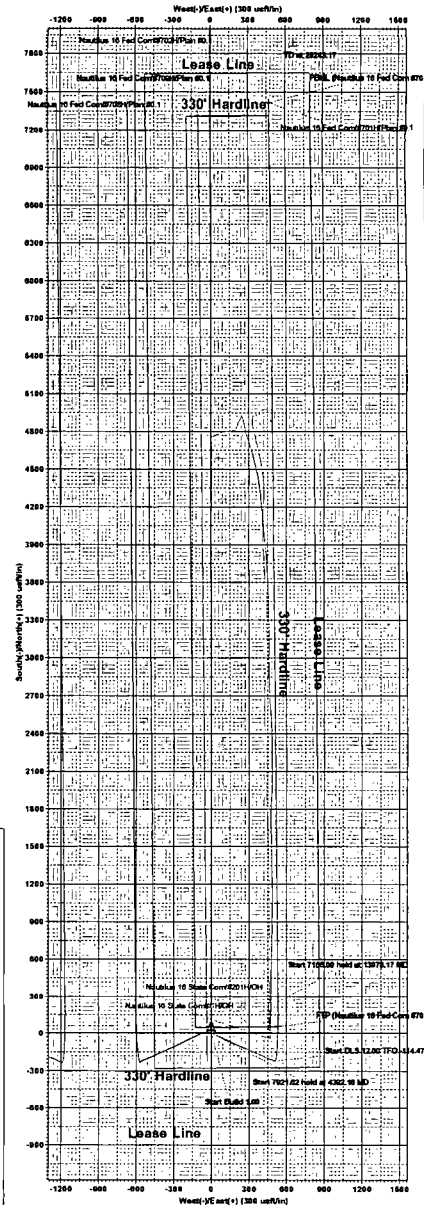
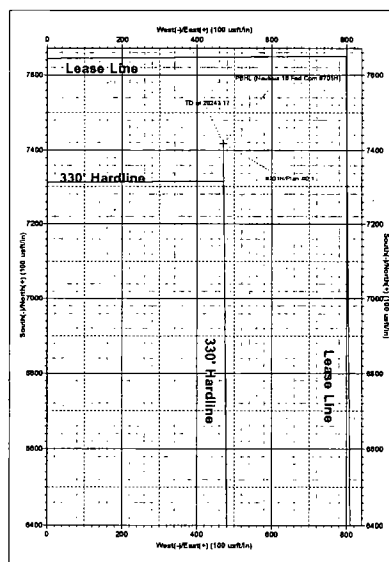
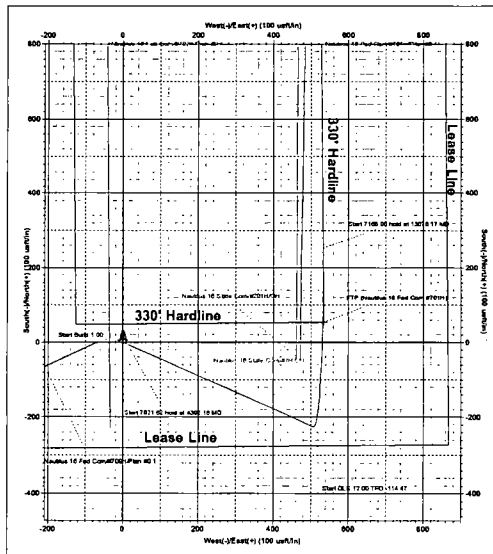
To convert a Magnetic Direction to a Grid Direction, Add 6.48°
To convert a Magnetic Direction to a True Direction, Add 0.92° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Nautilus 16 Fed Com #701H)	12772.49	7417.00	471.00	378258.00	809141.00
FTP (Nautilus 16 Fed Com #701H)	12785.00	54.00	535.00	378310.00	809676.00



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Nautilus 16 Fed Com

#701H

OH

Plan: Plan #0.1

Standard Planning Report

23 March, 2017



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3336.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3336.00usft
Site:	Nautilus 16 Fed Com	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea 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						Nautilus 16 Fed Com					
Site Position:				Northing:		378,256.00 usft		Latitude:		32.03696026	
From:		Map		Easting:		809,141.00 usft		Longitude:		-103.46908538	
Position Uncertainty:		0.00 usft		Slot Radius:		13-3/16 "		Grid Convergence:		0.46 °	

Well	#701H					
Well Position	+N/-S	0.00 usft	Northing:	378,256.00 usft	Latitude:	32.03696026
	+E/-W	0.00 usft	Easting:	809,141.00 usft	Longitude:	-103.46908538
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,311.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/21/2017	6.92	59.91	47,863

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	3.63

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
0.00	0.00	0.00	0.00	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	
4,392.16	3.92	114.03	4,391.86	-5.46	12.25	1.00	1.00	0.00	114.03	
12,313.79	3.92	114.03	12,294.93	-226.07	507.08	0.00	0.00	0.00	0.00	
13,078.18	90.10	359.50	12,785.00	252.28	533.53	12.00	11.27	-14.98	-114.47	
20,243.18	90.10	359.50	12,772.49	7,417.00	471.00	0.00	0.00	0.00	0.00	PBHL (Nautilus 16 Fe



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Nautilus 16 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3336.00usft
MD Reference: KB = 25' @ 3336.00usft
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)
0.00	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	1.00	114.03	4,100.00	-0.36	0.80	-0.30	1.00	1.00	0.00
4,200.00	2.00	114.03	4,199.96	-1.42	3.19	-1.22	1.00	1.00	0.00
4,300.00	3.00	114.03	4,299.86	-3.20	7.17	-2.74	1.00	1.00	0.00
4,392.16	3.92	114.03	4,391.86	-5.46	12.25	-4.68	1.00	1.00	0.00
4,400.00	3.92	114.03	4,399.68	-5.68	12.74	-4.86	0.00	0.00	0.00
4,500.00	3.92	114.03	4,499.44	-8.47	18.99	-7.25	0.00	0.00	0.00
4,600.00	3.92	114.03	4,599.21	-11.25	25.24	-9.63	0.00	0.00	0.00
4,700.00	3.92	114.03	4,698.97	-14.04	31.48	-12.01	0.00	0.00	0.00
4,800.00	3.92	114.03	4,798.74	-16.82	37.73	-14.40	0.00	0.00	0.00
4,900.00	3.92	114.03	4,898.50	-19.61	43.98	-16.78	0.00	0.00	0.00
5,000.00	3.92	114.03	4,998.27	-22.39	50.22	-19.16	0.00	0.00	0.00
5,100.00	3.92	114.03	5,098.04	-25.18	56.47	-21.55	0.00	0.00	0.00
5,200.00	3.92	114.03	5,197.80	-27.96	62.72	-23.93	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3336.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3336.00usft
Site:	Nautilus 16 Fed Com	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
5,300.00	3.92	114.03	5,297.57	-30.74	68.96	-26.31	0.00	0.00	0.00
5,400.00	3.92	114.03	5,397.33	-33.53	75.21	-28.70	0.00	0.00	0.00
5,500.00	3.92	114.03	5,497.10	-36.31	81.45	-31.08	0.00	0.00	0.00
5,600.00	3.92	114.03	5,596.87	-39.10	87.70	-33.46	0.00	0.00	0.00
5,700.00	3.92	114.03	5,696.63	-41.88	93.95	-35.85	0.00	0.00	0.00
5,800.00	3.92	114.03	5,796.40	-44.67	100.19	-38.23	0.00	0.00	0.00
5,900.00	3.92	114.03	5,896.16	-47.45	106.44	-40.61	0.00	0.00	0.00
6,000.00	3.92	114.03	5,995.93	-50.24	112.69	-43.00	0.00	0.00	0.00
6,100.00	3.92	114.03	6,095.70	-53.02	118.93	-45.38	0.00	0.00	0.00
6,200.00	3.92	114.03	6,195.46	-55.81	125.18	-47.76	0.00	0.00	0.00
6,300.00	3.92	114.03	6,295.23	-58.59	131.43	-50.15	0.00	0.00	0.00
6,400.00	3.92	114.03	6,394.99	-61.38	137.67	-52.53	0.00	0.00	0.00
6,500.00	3.92	114.03	6,494.76	-64.16	143.92	-54.91	0.00	0.00	0.00
6,600.00	3.92	114.03	6,594.52	-66.95	150.17	-57.30	0.00	0.00	0.00
6,700.00	3.92	114.03	6,694.29	-69.73	156.41	-59.68	0.00	0.00	0.00
6,800.00	3.92	114.03	6,794.06	-72.52	162.66	-62.06	0.00	0.00	0.00
6,900.00	3.92	114.03	6,893.82	-75.30	168.91	-64.45	0.00	0.00	0.00
7,000.00	3.92	114.03	6,993.59	-78.09	175.15	-66.83	0.00	0.00	0.00
7,100.00	3.92	114.03	7,093.35	-80.87	181.40	-69.21	0.00	0.00	0.00
7,200.00	3.92	114.03	7,193.12	-83.66	187.65	-71.60	0.00	0.00	0.00
7,300.00	3.92	114.03	7,292.89	-86.44	193.89	-73.98	0.00	0.00	0.00
7,400.00	3.92	114.03	7,392.65	-89.23	200.14	-76.36	0.00	0.00	0.00
7,500.00	3.92	114.03	7,492.42	-92.01	206.39	-78.75	0.00	0.00	0.00
7,600.00	3.92	114.03	7,592.18	-94.80	212.63	-81.13	0.00	0.00	0.00
7,700.00	3.92	114.03	7,691.95	-97.58	218.88	-83.51	0.00	0.00	0.00
7,800.00	3.92	114.03	7,791.71	-100.37	225.13	-85.90	0.00	0.00	0.00
7,900.00	3.92	114.03	7,891.48	-103.15	231.37	-88.28	0.00	0.00	0.00
8,000.00	3.92	114.03	7,991.25	-105.94	237.62	-90.66	0.00	0.00	0.00
8,100.00	3.92	114.03	8,091.01	-108.72	243.87	-93.05	0.00	0.00	0.00
8,200.00	3.92	114.03	8,190.78	-111.51	250.11	-95.43	0.00	0.00	0.00
8,300.00	3.92	114.03	8,290.54	-114.29	256.36	-97.81	0.00	0.00	0.00
8,400.00	3.92	114.03	8,390.31	-117.08	262.60	-100.20	0.00	0.00	0.00
8,500.00	3.92	114.03	8,490.08	-119.86	268.85	-102.58	0.00	0.00	0.00
8,600.00	3.92	114.03	8,589.84	-122.65	275.10	-104.96	0.00	0.00	0.00
8,700.00	3.92	114.03	8,689.61	-125.43	281.34	-107.35	0.00	0.00	0.00
8,800.00	3.92	114.03	8,789.37	-128.22	287.59	-109.73	0.00	0.00	0.00
8,900.00	3.92	114.03	8,889.14	-131.00	293.84	-112.11	0.00	0.00	0.00
9,000.00	3.92	114.03	8,988.90	-133.78	300.08	-114.50	0.00	0.00	0.00
9,100.00	3.92	114.03	9,088.67	-136.57	306.33	-116.88	0.00	0.00	0.00
9,200.00	3.92	114.03	9,188.44	-139.35	312.58	-119.26	0.00	0.00	0.00
9,300.00	3.92	114.03	9,288.20	-142.14	318.82	-121.65	0.00	0.00	0.00
9,400.00	3.92	114.03	9,387.97	-144.92	325.07	-124.03	0.00	0.00	0.00
9,500.00	3.92	114.03	9,487.73	-147.71	331.32	-126.41	0.00	0.00	0.00
9,600.00	3.92	114.03	9,587.50	-150.49	337.56	-128.80	0.00	0.00	0.00
9,700.00	3.92	114.03	9,687.27	-153.28	343.81	-131.18	0.00	0.00	0.00
9,800.00	3.92	114.03	9,787.03	-156.06	350.06	-133.57	0.00	0.00	0.00
9,900.00	3.92	114.03	9,886.80	-158.85	356.30	-135.95	0.00	0.00	0.00
10,000.00	3.92	114.03	9,986.56	-161.63	362.55	-138.33	0.00	0.00	0.00
10,100.00	3.92	114.03	10,086.33	-164.42	368.80	-140.72	0.00	0.00	0.00
10,200.00	3.92	114.03	10,186.10	-167.20	375.04	-143.10	0.00	0.00	0.00
10,300.00	3.92	114.03	10,285.86	-169.99	381.29	-145.48	0.00	0.00	0.00
10,400.00	3.92	114.03	10,385.63	-172.77	387.54	-147.87	0.00	0.00	0.00
10,500.00	3.92	114.03	10,485.39	-175.56	393.78	-150.25	0.00	0.00	0.00
10,600.00	3.92	114.03	10,585.16	-178.34	400.03	-152.63	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

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Wellbore: OH
Design: Plan #0.1

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MD Reference: KB = 25' @ 3336.00usft
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)
10,700.00	3.92	114.03	10,684.92	-181.13	406.28	-155.02	0.00	0.00	0.00
10,800.00	3.92	114.03	10,784.69	-183.91	412.52	-157.40	0.00	0.00	0.00
10,900.00	3.92	114.03	10,884.46	-186.70	418.77	-159.78	0.00	0.00	0.00
11,000.00	3.92	114.03	10,984.22	-189.48	425.02	-162.17	0.00	0.00	0.00
11,100.00	3.92	114.03	11,083.99	-192.27	431.26	-164.55	0.00	0.00	0.00
11,200.00	3.92	114.03	11,183.75	-195.05	437.51	-166.93	0.00	0.00	0.00
11,300.00	3.92	114.03	11,283.52	-197.84	443.76	-169.32	0.00	0.00	0.00
11,400.00	3.92	114.03	11,383.29	-200.62	450.00	-171.70	0.00	0.00	0.00
11,500.00	3.92	114.03	11,483.05	-203.41	456.25	-174.08	0.00	0.00	0.00
11,600.00	3.92	114.03	11,582.82	-206.19	462.49	-176.47	0.00	0.00	0.00
11,700.00	3.92	114.03	11,682.58	-208.98	468.74	-178.85	0.00	0.00	0.00
11,800.00	3.92	114.03	11,782.35	-211.76	474.99	-181.23	0.00	0.00	0.00
11,900.00	3.92	114.03	11,882.11	-214.55	481.23	-183.62	0.00	0.00	0.00
12,000.00	3.92	114.03	11,981.88	-217.33	487.48	-186.00	0.00	0.00	0.00
12,100.00	3.92	114.03	12,081.65	-220.12	493.73	-188.38	0.00	0.00	0.00
12,200.00	3.92	114.03	12,181.41	-222.90	499.97	-190.77	0.00	0.00	0.00
12,300.00	3.92	114.03	12,281.18	-225.69	506.22	-193.15	0.00	0.00	0.00
12,313.79	3.92	114.03	12,294.93	-226.07	507.08	-193.48	0.00	0.00	0.00
12,325.00	3.58	94.01	12,306.12	-226.25	507.78	-193.61	12.00	-3.05	-178.51
12,350.00	4.49	52.16	12,331.07	-225.70	509.33	-192.97	12.00	3.62	-167.38
12,375.00	6.74	31.37	12,355.95	-223.85	510.87	-191.03	12.00	9.01	-83.18
12,400.00	9.42	21.60	12,380.70	-220.70	512.38	-187.78	12.00	10.71	-39.08
12,425.00	12.24	16.21	12,405.25	-216.25	513.88	-183.25	12.00	11.31	-21.55
12,450.00	15.14	12.84	12,429.54	-210.52	515.34	-177.44	12.00	11.57	-13.49
12,475.00	18.06	10.53	12,453.49	-203.53	516.78	-170.37	12.00	11.71	-9.22
12,500.00	21.01	8.85	12,477.05	-195.29	518.18	-162.05	12.00	11.79	-6.72
12,525.00	23.97	7.57	12,500.15	-185.82	519.53	-152.52	12.00	11.84	-5.13
12,550.00	26.94	6.56	12,522.72	-175.16	520.85	-141.80	12.00	11.87	-4.06
12,575.00	29.91	5.73	12,544.70	-163.33	522.12	-129.91	12.00	11.90	-3.30
12,600.00	32.89	5.04	12,566.04	-150.36	523.34	-116.89	12.00	11.91	-2.76
12,625.00	35.87	4.45	12,586.67	-136.29	524.50	-102.78	12.00	11.93	-2.35
12,650.00	38.86	3.95	12,606.53	-121.16	525.61	-87.61	12.00	11.94	-2.03
12,675.00	41.84	3.50	12,625.58	-105.01	526.66	-71.42	12.00	11.94	-1.78
12,700.00	44.83	3.10	12,643.77	-87.88	527.65	-54.27	12.00	11.95	-1.59
12,725.00	47.82	2.75	12,661.03	-69.83	528.57	-36.19	12.00	11.96	-1.43
12,750.00	50.81	2.42	12,677.32	-50.89	529.42	-17.24	12.00	11.96	-1.30
12,775.00	53.80	2.12	12,692.61	-31.13	530.21	2.54	12.00	11.96	-1.19
12,800.00	56.79	1.85	12,706.84	-10.59	530.92	23.08	12.00	11.97	-1.11
12,825.00	59.78	1.59	12,719.98	10.67	531.55	44.33	12.00	11.97	-1.03
12,850.00	62.78	1.34	12,731.99	32.58	532.11	66.24	12.00	11.97	-0.97
12,875.00	65.77	1.11	12,742.84	55.10	532.60	88.74	12.00	11.97	-0.92
12,890.32	67.60	0.98	12,748.91	69.16	532.85	102.79	12.00	11.97	-0.89
FTP (Nautilus 16 Fed Com #701H)									
12,900.00	68.76	0.90	12,752.50	78.15	533.00	111.77	12.00	11.97	-0.87
12,925.00	71.76	0.68	12,760.95	101.67	533.32	135.27	12.00	11.97	-0.84
12,950.00	74.75	0.48	12,768.15	125.61	533.57	159.17	12.00	11.97	-0.81
12,975.00	77.74	0.28	12,774.09	149.89	533.73	183.41	12.00	11.98	-0.79
13,000.00	80.74	0.09	12,778.76	174.45	533.81	207.93	12.00	11.98	-0.77
13,025.00	83.73	359.90	12,782.14	199.21	533.80	232.64	12.00	11.98	-0.76
13,050.00	86.73	359.71	12,784.22	224.12	533.72	257.50	12.00	11.98	-0.75
13,075.00	89.72	359.52	12,784.99	249.11	533.55	282.42	12.00	11.98	-0.75
13,078.18	90.10	359.50	12,785.00	252.28	533.53	285.59	12.00	11.98	-0.75
13,100.00	90.10	359.50	12,784.96	274.11	533.34	307.36	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 83 NME)
Site: Nautilus 16 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3336.00usft
MD Reference: KB = 25' @ 3336.00usft
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)
13,200.00	90.10	359.50	12,784.78	374.10	532.46	407.10	0.00	0.00	0.00
13,300.00	90.10	359.50	12,784.61	474.10	531.59	506.84	0.00	0.00	0.00
13,400.00	90.10	359.50	12,784.43	574.10	530.72	606.58	0.00	0.00	0.00
13,500.00	90.10	359.50	12,784.26	674.09	529.84	706.32	0.00	0.00	0.00
13,600.00	90.10	359.50	12,784.08	774.09	528.97	806.06	0.00	0.00	0.00
13,700.00	90.10	359.50	12,783.91	874.08	528.10	905.80	0.00	0.00	0.00
13,800.00	90.10	359.50	12,783.74	974.08	527.23	1,005.54	0.00	0.00	0.00
13,900.00	90.10	359.50	12,783.56	1,074.08	526.35	1,105.28	0.00	0.00	0.00
14,000.00	90.10	359.50	12,783.39	1,174.07	525.48	1,205.01	0.00	0.00	0.00
14,100.00	90.10	359.50	12,783.21	1,274.07	524.61	1,304.75	0.00	0.00	0.00
14,200.00	90.10	359.50	12,783.04	1,374.06	523.74	1,404.49	0.00	0.00	0.00
14,300.00	90.10	359.50	12,782.86	1,474.06	522.86	1,504.23	0.00	0.00	0.00
14,400.00	90.10	359.50	12,782.69	1,574.06	521.99	1,603.97	0.00	0.00	0.00
14,500.00	90.10	359.50	12,782.51	1,674.05	521.12	1,703.71	0.00	0.00	0.00
14,600.00	90.10	359.50	12,782.34	1,774.05	520.25	1,803.45	0.00	0.00	0.00
14,700.00	90.10	359.50	12,782.16	1,874.04	519.37	1,903.19	0.00	0.00	0.00
14,800.00	90.10	359.50	12,781.99	1,974.04	518.50	2,002.93	0.00	0.00	0.00
14,900.00	90.10	359.50	12,781.82	2,074.04	517.63	2,102.67	0.00	0.00	0.00
15,000.00	90.10	359.50	12,781.64	2,174.03	516.75	2,202.41	0.00	0.00	0.00
15,100.00	90.10	359.50	12,781.47	2,274.03	515.88	2,302.15	0.00	0.00	0.00
15,200.00	90.10	359.50	12,781.29	2,374.02	515.01	2,401.89	0.00	0.00	0.00
15,300.00	90.10	359.50	12,781.12	2,474.02	514.14	2,501.63	0.00	0.00	0.00
15,400.00	90.10	359.50	12,780.94	2,574.02	513.26	2,601.37	0.00	0.00	0.00
15,500.00	90.10	359.50	12,780.77	2,674.01	512.39	2,701.11	0.00	0.00	0.00
15,600.00	90.10	359.50	12,780.59	2,774.01	511.52	2,800.85	0.00	0.00	0.00
15,700.00	90.10	359.50	12,780.42	2,874.01	510.65	2,900.59	0.00	0.00	0.00
15,800.00	90.10	359.50	12,780.25	2,974.00	509.77	3,000.33	0.00	0.00	0.00
15,900.00	90.10	359.50	12,780.07	3,074.00	508.90	3,100.07	0.00	0.00	0.00
16,000.00	90.10	359.50	12,779.90	3,173.99	508.03	3,199.81	0.00	0.00	0.00
16,100.00	90.10	359.50	12,779.72	3,273.99	507.16	3,299.55	0.00	0.00	0.00
16,200.00	90.10	359.50	12,779.55	3,373.99	506.28	3,399.29	0.00	0.00	0.00
16,300.00	90.10	359.50	12,779.37	3,473.98	505.41	3,499.03	0.00	0.00	0.00
16,400.00	90.10	359.50	12,779.20	3,573.98	504.54	3,598.77	0.00	0.00	0.00
16,500.00	90.10	359.50	12,779.02	3,673.97	503.66	3,698.51	0.00	0.00	0.00
16,600.00	90.10	359.50	12,778.85	3,773.97	502.79	3,798.25	0.00	0.00	0.00
16,700.00	90.10	359.50	12,778.67	3,873.97	501.92	3,897.99	0.00	0.00	0.00
16,800.00	90.10	359.50	12,778.50	3,973.96	501.05	3,997.73	0.00	0.00	0.00
16,900.00	90.10	359.50	12,778.33	4,073.96	500.17	4,097.47	0.00	0.00	0.00
17,000.00	90.10	359.50	12,778.15	4,173.95	499.30	4,197.21	0.00	0.00	0.00
17,100.00	90.10	359.50	12,777.98	4,273.95	498.43	4,296.95	0.00	0.00	0.00
17,200.00	90.10	359.50	12,777.80	4,373.95	497.56	4,396.69	0.00	0.00	0.00
17,300.00	90.10	359.50	12,777.63	4,473.94	496.68	4,496.43	0.00	0.00	0.00
17,400.00	90.10	359.50	12,777.45	4,573.94	495.81	4,596.17	0.00	0.00	0.00
17,500.00	90.10	359.50	12,777.28	4,673.93	494.94	4,695.91	0.00	0.00	0.00
17,600.00	90.10	359.50	12,777.10	4,773.93	494.07	4,795.64	0.00	0.00	0.00
17,700.00	90.10	359.50	12,776.93	4,873.93	493.19	4,895.38	0.00	0.00	0.00
17,800.00	90.10	359.50	12,776.75	4,973.92	492.32	4,995.12	0.00	0.00	0.00
17,900.00	90.10	359.50	12,776.58	5,073.92	491.45	5,094.86	0.00	0.00	0.00
18,000.00	90.10	359.50	12,776.41	5,173.91	490.58	5,194.60	0.00	0.00	0.00
18,100.00	90.10	359.50	12,776.23	5,273.91	489.70	5,294.34	0.00	0.00	0.00
18,200.00	90.10	359.50	12,776.06	5,373.91	488.83	5,394.08	0.00	0.00	0.00
18,300.00	90.10	359.50	12,775.88	5,473.90	487.96	5,493.82	0.00	0.00	0.00
18,400.00	90.10	359.50	12,775.71	5,573.90	487.08	5,593.56	0.00	0.00	0.00
18,500.00	90.10	359.50	12,775.53	5,673.89	486.21	5,693.30	0.00	0.00	0.00



EOG Resources, Inc.

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Well: #701H
Wellbore: OH
Design: Plan #0.1

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TVD Reference: KB = 25' @ 3336.00usft
MD Reference: KB = 25' @ 3336.00usft
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)
18,600.00	90.10	359.50	12,775.36	5,773.89	485.34	5,793.04	0.00	0.00	0.00
18,700.00	90.10	359.50	12,775.18	5,873.89	484.47	5,892.78	0.00	0.00	0.00
18,800.00	90.10	359.50	12,775.01	5,973.88	483.59	5,992.52	0.00	0.00	0.00
18,900.00	90.10	359.50	12,774.83	6,073.88	482.72	6,092.26	0.00	0.00	0.00
19,000.00	90.10	359.50	12,774.66	6,173.87	481.85	6,192.00	0.00	0.00	0.00
19,100.00	90.10	359.50	12,774.49	6,273.87	480.98	6,291.74	0.00	0.00	0.00
19,200.00	90.10	359.50	12,774.31	6,373.87	480.10	6,391.48	0.00	0.00	0.00
19,300.00	90.10	359.50	12,774.14	6,473.86	479.23	6,491.22	0.00	0.00	0.00
19,400.00	90.10	359.50	12,773.96	6,573.86	478.36	6,590.96	0.00	0.00	0.00
19,500.00	90.10	359.50	12,773.79	6,673.85	477.49	6,690.70	0.00	0.00	0.00
19,600.00	90.10	359.50	12,773.61	6,773.85	476.61	6,790.44	0.00	0.00	0.00
19,700.00	90.10	359.50	12,773.44	6,873.85	475.74	6,890.18	0.00	0.00	0.00
19,800.00	90.10	359.50	12,773.26	6,973.84	474.87	6,989.92	0.00	0.00	0.00
19,900.00	90.10	359.50	12,773.09	7,073.84	473.99	7,089.66	0.00	0.00	0.00
20,000.00	90.10	359.50	12,772.91	7,173.84	473.12	7,189.40	0.00	0.00	0.00
20,100.00	90.10	359.50	12,772.74	7,273.83	472.25	7,289.14	0.00	0.00	0.00
20,200.00	90.10	359.50	12,772.57	7,373.83	471.38	7,388.88	0.00	0.00	0.00
20,243.18	90.10	359.50	12,772.49	7,417.00	471.00	7,431.94	0.00	0.00	0.00

PBHL (Nautilus 16 Fed Com #701H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Nautilus 16 Fed C	0.00	0.00	12,772.49	7,417.00	471.00	385,673.00	809,612.00	32.05733677	-103.46737358
- plan hits target center									
- Point									
FTP (Nautilus 16 Fed Cc	0.00	0.00	12,785.00	54.00	535.00	378,310.00	809,676.00	32.03709691	-103.46735762
- plan misses target center by 39.21usft at 12890.32usft MD (12748.91 TVD, 69.16 N, 532.85 E)									
- Point									