



Lea County, NM (NAD 83 NME)

Nautilus 16 Fed Com #702H

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: #702H

Ground Level: 3312.00
KB = 25' @ 3337.00usft
Northing: 378255.00 Easting: 809106.00 Latitude: 32.03695827 Longitude: -103.46919835

SECTION DETAILS

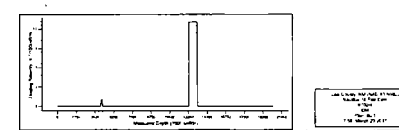
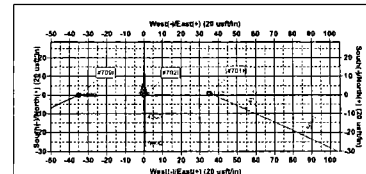
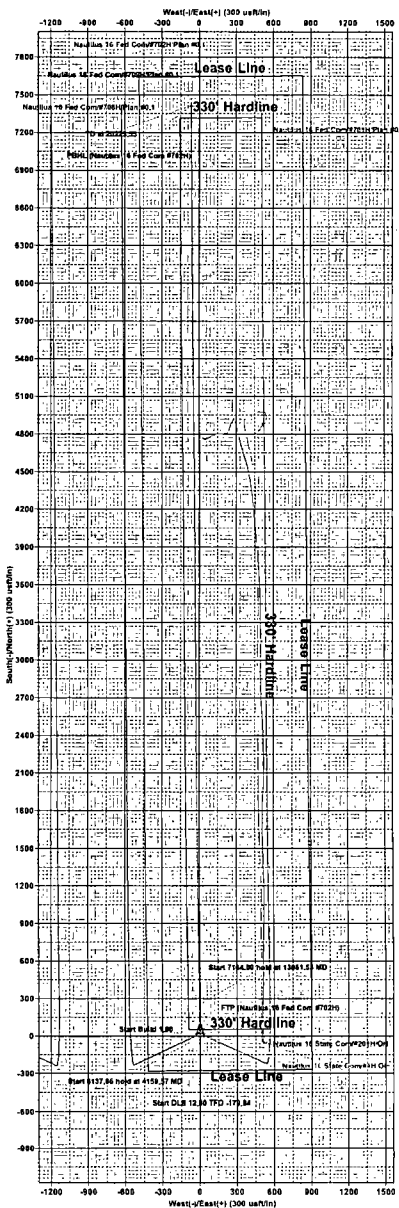
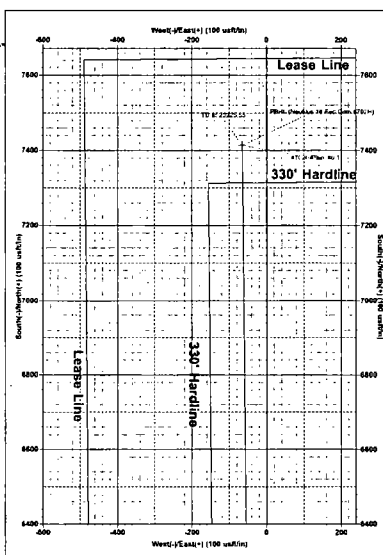
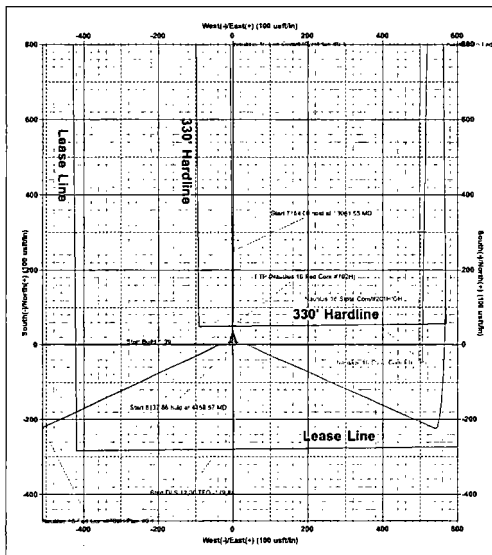
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4159.57	1.60	179.34	4159.54	-2.22	0.03	1.00	179.34	-2.22	
4	12297.42	1.60	179.34	12294.24	-228.81	2.65	0.00	0.00	-228.83	
5	13061.55	90.10	359.50	12785.00	249.28	-1.48	12.00	-179.84	249.29	
6	20225.55	90.10	359.50	12772.50	7413.00	-64.00	0.00	0.00	7413.28	PBHL (Nautilus 16 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Nautilus 16 Fed Com #702H)	12772.50	7413.00	-64.00	385668.00	809042.00
FTP (Nautilus 16 Fed Com #702H)	12785.00	50.00	0.00	378355.00	809106.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Nautilus 16 Fed Com

#702H

OH

HOBBS OCD

NOV 06 2017

RECEIVED

Plan: Plan #0.1

Standard Planning Report

23 March, 2017



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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3337.00usft
MD Reference: KB = 25' @ 3337.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Well	#702H			
Well Position	+N/-S	-1.00 usft	Northing:	378,255.00 usft
	+E/-W	-35.00 usft	Easting:	809,106.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,312.00 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	359.51

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	
4,159.57	1.60	179.34	4,159.54	-2.22	0.03	1.00	1.00	0.00	179.34	
12,297.42	1.60	179.34	12,294.24	-228.81	2.65	0.00	0.00	0.00	0.00	
13,061.55	90.10	359.50	12,785.00	249.28	-1.48	12.00	11.58	-23.53	-179.84	
20,225.55	90.10	359.50	12,772.50	7,413.00	-64.00	0.00	0.00	0.00	0.00	PBHL (Nautilus 16 Fe



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3337.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3337.00usft
Site:	Nautilus 16 Fed Com	North Reference:	Grid
Well:	#702H	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)
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	179.34	4,100.00	-0.87	0.01	-0.87	1.00	1.00	0.00
4,159.57	1.60	179.34	4,159.54	-2.22	0.03	-2.22	1.00	1.00	0.00
4,200.00	1.60	179.34	4,199.96	-3.35	0.04	-3.35	0.00	0.00	0.00
4,300.00	1.60	179.34	4,299.93	-6.13	0.07	-6.13	0.00	0.00	0.00
4,400.00	1.60	179.34	4,399.89	-8.92	0.10	-8.92	0.00	0.00	0.00
4,500.00	1.60	179.34	4,499.85	-11.70	0.14	-11.70	0.00	0.00	0.00
4,600.00	1.60	179.34	4,599.81	-14.49	0.17	-14.49	0.00	0.00	0.00
4,700.00	1.60	179.34	4,699.77	-17.27	0.20	-17.27	0.00	0.00	0.00
4,800.00	1.60	179.34	4,799.73	-20.05	0.23	-20.06	0.00	0.00	0.00
4,900.00	1.60	179.34	4,899.69	-22.84	0.26	-22.84	0.00	0.00	0.00
5,000.00	1.60	179.34	4,999.65	-25.62	0.30	-25.62	0.00	0.00	0.00
5,100.00	1.60	179.34	5,099.61	-28.41	0.33	-28.41	0.00	0.00	0.00
5,200.00	1.60	179.34	5,199.58	-31.19	0.36	-31.19	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

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Site: Nautilus 16 Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3337.00usft
MD Reference: KB = 25' @ 3337.00usft
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)
5,300.00	1.60	179.34	5,299.54	-33.98	0.39	-33.98	0.00	0.00	0.00
5,400.00	1.60	179.34	5,399.50	-36.76	0.43	-36.76	0.00	0.00	0.00
5,500.00	1.60	179.34	5,499.46	-39.54	0.46	-39.55	0.00	0.00	0.00
5,600.00	1.60	179.34	5,599.42	-42.33	0.49	-42.33	0.00	0.00	0.00
5,700.00	1.60	179.34	5,699.38	-45.11	0.52	-45.12	0.00	0.00	0.00
5,800.00	1.60	179.34	5,799.34	-47.90	0.55	-47.90	0.00	0.00	0.00
5,900.00	1.60	179.34	5,899.30	-50.68	0.59	-50.69	0.00	0.00	0.00
6,000.00	1.60	179.34	5,999.27	-53.47	0.62	-53.47	0.00	0.00	0.00
6,100.00	1.60	179.34	6,099.23	-56.25	0.65	-56.25	0.00	0.00	0.00
6,200.00	1.60	179.34	6,199.19	-59.04	0.68	-59.04	0.00	0.00	0.00
6,300.00	1.60	179.34	6,299.15	-61.82	0.72	-61.82	0.00	0.00	0.00
6,400.00	1.60	179.34	6,399.11	-64.60	0.75	-64.61	0.00	0.00	0.00
6,500.00	1.60	179.34	6,499.07	-67.39	0.78	-67.39	0.00	0.00	0.00
6,600.00	1.60	179.34	6,599.03	-70.17	0.81	-70.18	0.00	0.00	0.00
6,700.00	1.60	179.34	6,698.99	-72.96	0.84	-72.96	0.00	0.00	0.00
6,800.00	1.60	179.34	6,798.96	-75.74	0.88	-75.75	0.00	0.00	0.00
6,900.00	1.60	179.34	6,898.92	-78.53	0.91	-78.53	0.00	0.00	0.00
7,000.00	1.60	179.34	6,998.88	-81.31	0.94	-81.32	0.00	0.00	0.00
7,100.00	1.60	179.34	7,098.84	-84.09	0.97	-84.10	0.00	0.00	0.00
7,200.00	1.60	179.34	7,198.80	-86.88	1.01	-86.88	0.00	0.00	0.00
7,300.00	1.60	179.34	7,298.76	-89.66	1.04	-89.67	0.00	0.00	0.00
7,400.00	1.60	179.34	7,398.72	-92.45	1.07	-92.45	0.00	0.00	0.00
7,500.00	1.60	179.34	7,498.68	-95.23	1.10	-95.24	0.00	0.00	0.00
7,600.00	1.60	179.34	7,598.65	-98.02	1.14	-98.02	0.00	0.00	0.00
7,700.00	1.60	179.34	7,698.61	-100.80	1.17	-100.81	0.00	0.00	0.00
7,800.00	1.60	179.34	7,798.57	-103.59	1.20	-103.59	0.00	0.00	0.00
7,900.00	1.60	179.34	7,898.53	-106.37	1.23	-106.38	0.00	0.00	0.00
8,000.00	1.60	179.34	7,998.49	-109.15	1.26	-109.16	0.00	0.00	0.00
8,100.00	1.60	179.34	8,098.45	-111.94	1.30	-111.95	0.00	0.00	0.00
8,200.00	1.60	179.34	8,198.41	-114.72	1.33	-114.73	0.00	0.00	0.00
8,300.00	1.60	179.34	8,298.37	-117.51	1.36	-117.51	0.00	0.00	0.00
8,400.00	1.60	179.34	8,398.34	-120.29	1.39	-120.30	0.00	0.00	0.00
8,500.00	1.60	179.34	8,498.30	-123.08	1.43	-123.08	0.00	0.00	0.00
8,600.00	1.60	179.34	8,598.26	-125.86	1.46	-125.87	0.00	0.00	0.00
8,700.00	1.60	179.34	8,698.22	-128.65	1.49	-128.65	0.00	0.00	0.00
8,800.00	1.60	179.34	8,798.18	-131.43	1.52	-131.44	0.00	0.00	0.00
8,900.00	1.60	179.34	8,898.14	-134.21	1.55	-134.22	0.00	0.00	0.00
9,000.00	1.60	179.34	8,998.10	-137.00	1.59	-137.01	0.00	0.00	0.00
9,100.00	1.60	179.34	9,098.06	-139.78	1.62	-139.79	0.00	0.00	0.00
9,200.00	1.60	179.34	9,198.03	-142.57	1.65	-142.58	0.00	0.00	0.00
9,300.00	1.60	179.34	9,297.99	-145.35	1.68	-145.36	0.00	0.00	0.00
9,400.00	1.60	179.34	9,397.95	-148.14	1.72	-148.15	0.00	0.00	0.00
9,500.00	1.60	179.34	9,497.91	-150.92	1.75	-150.93	0.00	0.00	0.00
9,600.00	1.60	179.34	9,597.87	-153.70	1.78	-153.71	0.00	0.00	0.00
9,700.00	1.60	179.34	9,697.83	-156.49	1.81	-156.50	0.00	0.00	0.00
9,800.00	1.60	179.34	9,797.79	-159.27	1.84	-159.28	0.00	0.00	0.00
9,900.00	1.60	179.34	9,897.75	-162.06	1.88	-162.07	0.00	0.00	0.00
10,000.00	1.60	179.34	9,997.71	-164.84	1.91	-164.85	0.00	0.00	0.00
10,100.00	1.60	179.34	10,097.68	-167.63	1.94	-167.64	0.00	0.00	0.00
10,200.00	1.60	179.34	10,197.64	-170.41	1.97	-170.42	0.00	0.00	0.00
10,300.00	1.60	179.34	10,297.60	-173.20	2.01	-173.21	0.00	0.00	0.00
10,400.00	1.60	179.34	10,397.56	-175.98	2.04	-175.99	0.00	0.00	0.00
10,500.00	1.60	179.34	10,497.52	-178.76	2.07	-178.78	0.00	0.00	0.00
10,600.00	1.60	179.34	10,597.48	-181.55	2.10	-181.56	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3337.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3337.00usft
Site:	Nautilus 16 Fed Com	North Reference:	Grid
Well:	#702H	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)
10,700.00	1.60	179.34	10,697.44	-184.33	2.13	-184.34	0.00	0.00	0.00
10,800.00	1.60	179.34	10,797.40	-187.12	2.17	-187.13	0.00	0.00	0.00
10,900.00	1.60	179.34	10,897.37	-189.90	2.20	-189.91	0.00	0.00	0.00
11,000.00	1.60	179.34	10,997.33	-192.69	2.23	-192.70	0.00	0.00	0.00
11,100.00	1.60	179.34	11,097.29	-195.47	2.26	-195.48	0.00	0.00	0.00
11,200.00	1.60	179.34	11,197.25	-198.25	2.30	-198.27	0.00	0.00	0.00
11,300.00	1.60	179.34	11,297.21	-201.04	2.33	-201.05	0.00	0.00	0.00
11,400.00	1.60	179.34	11,397.17	-203.82	2.36	-203.84	0.00	0.00	0.00
11,500.00	1.60	179.34	11,497.13	-206.61	2.39	-206.62	0.00	0.00	0.00
11,600.00	1.60	179.34	11,597.09	-209.39	2.43	-209.41	0.00	0.00	0.00
11,700.00	1.60	179.34	11,697.06	-212.18	2.46	-212.19	0.00	0.00	0.00
11,800.00	1.60	179.34	11,797.02	-214.96	2.49	-214.97	0.00	0.00	0.00
11,900.00	1.60	179.34	11,896.98	-217.75	2.52	-217.76	0.00	0.00	0.00
12,000.00	1.60	179.34	11,996.94	-220.53	2.55	-220.54	0.00	0.00	0.00
12,100.00	1.60	179.34	12,096.90	-223.31	2.59	-223.33	0.00	0.00	0.00
12,200.00	1.60	179.34	12,196.86	-226.10	2.62	-226.11	0.00	0.00	0.00
12,297.42	1.60	179.34	12,294.24	-228.81	2.65	-228.83	0.00	0.00	0.00
12,300.00	1.29	179.30	12,296.82	-228.88	2.65	-228.89	12.00	-12.00	-1.53
12,325.00	1.71	359.65	12,321.82	-228.78	2.65	-228.80	12.00	1.71	-718.58
12,350.00	4.71	359.56	12,346.78	-227.38	2.64	-227.40	12.00	12.00	-0.39
12,375.00	7.71	359.53	12,371.63	-224.68	2.62	-224.69	12.00	12.00	-0.09
12,400.00	10.71	359.52	12,396.30	-220.67	2.59	-220.69	12.00	12.00	-0.04
12,425.00	13.71	359.52	12,420.73	-215.39	2.54	-215.40	12.00	12.00	-0.02
12,450.00	16.71	359.52	12,444.86	-208.83	2.49	-208.84	12.00	12.00	-0.01
12,475.00	19.71	359.51	12,468.60	-201.01	2.42	-201.03	12.00	12.00	-0.01
12,500.00	22.71	359.51	12,491.90	-191.97	2.34	-191.98	12.00	12.00	-0.01
12,525.00	25.71	359.51	12,514.70	-181.72	2.26	-181.73	12.00	12.00	-0.01
12,550.00	28.71	359.51	12,536.93	-170.28	2.16	-170.30	12.00	12.00	0.00
12,575.00	31.71	359.51	12,558.53	-157.71	2.05	-157.72	12.00	12.00	0.00
12,600.00	34.71	359.51	12,579.45	-144.01	1.93	-144.02	12.00	12.00	0.00
12,625.00	37.71	359.51	12,599.61	-129.25	1.81	-129.26	12.00	12.00	0.00
12,650.00	40.71	359.51	12,618.98	-113.44	1.67	-113.45	12.00	12.00	0.00
12,675.00	43.71	359.50	12,637.50	-96.65	1.52	-96.66	12.00	12.00	0.00
12,700.00	46.71	359.50	12,655.11	-78.91	1.37	-78.92	12.00	12.00	0.00
12,725.00	49.71	359.50	12,671.76	-60.27	1.21	-60.28	12.00	12.00	0.00
12,750.00	52.71	359.50	12,687.42	-40.78	1.04	-40.79	12.00	12.00	0.00
12,775.00	55.71	359.50	12,702.04	-20.51	0.86	-20.51	12.00	12.00	0.00
12,800.00	58.71	359.50	12,715.57	0.51	0.68	0.50	12.00	12.00	0.00
12,825.00	61.71	359.50	12,727.99	22.20	0.49	22.20	12.00	12.00	0.00
12,850.00	64.71	359.50	12,739.26	44.51	0.30	44.51	12.00	12.00	0.00
12,873.47	67.53	359.50	12,748.76	65.98	0.11	65.97	12.00	12.00	0.00
FTP (Nautilus 16 Fed Com #702H)									
12,875.00	67.71	359.50	12,749.34	67.39	0.10	67.38	12.00	12.00	0.00
12,900.00	70.71	359.50	12,758.21	90.76	-0.10	90.75	12.00	12.00	0.00
12,925.00	73.71	359.50	12,765.85	114.56	-0.31	114.56	12.00	12.00	0.00
12,950.00	76.71	359.50	12,772.23	138.73	-0.52	138.73	12.00	12.00	0.00
12,975.00	79.71	359.50	12,777.33	163.20	-0.73	163.20	12.00	12.00	0.00
13,000.00	82.71	359.50	12,781.15	187.90	-0.95	187.90	12.00	12.00	0.00
13,025.00	85.71	359.50	12,783.67	212.77	-1.16	212.77	12.00	12.00	0.00
13,050.00	88.71	359.50	12,784.88	237.73	-1.38	237.74	12.00	12.00	0.00
13,061.55	90.10	359.50	12,785.00	249.28	-1.48	249.29	12.00	12.00	0.00
13,100.00	90.10	359.50	12,784.94	287.73	-1.82	287.74	0.00	0.00	0.00
13,200.00	90.10	359.50	12,784.76	387.73	-2.69	387.74	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: #702H
 Wellbore: OH
 Design: Plan #0.1

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

Well #702H
 KB = 25' @ 3337.00usft
 KB = 25' @ 3337.00usft
 Grid
 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)
13,300.00	90.10	359.50	12,784.59	487.72	-3.56	487.74	0.00	0.00	0.00
13,400.00	90.10	359.50	12,784.41	587.72	-4.44	587.74	0.00	0.00	0.00
13,500.00	90.10	359.50	12,784.24	687.72	-5.31	687.74	0.00	0.00	0.00
13,600.00	90.10	359.50	12,784.06	787.71	-6.18	787.74	0.00	0.00	0.00
13,700.00	90.10	359.50	12,783.89	887.71	-7.05	887.74	0.00	0.00	0.00
13,800.00	90.10	359.50	12,783.71	987.70	-7.93	987.74	0.00	0.00	0.00
13,900.00	90.10	359.50	12,783.54	1,087.70	-8.80	1,087.74	0.00	0.00	0.00
14,000.00	90.10	359.50	12,783.37	1,187.70	-9.67	1,187.74	0.00	0.00	0.00
14,100.00	90.10	359.50	12,783.19	1,287.69	-10.55	1,287.73	0.00	0.00	0.00
14,200.00	90.10	359.50	12,783.02	1,387.69	-11.42	1,387.73	0.00	0.00	0.00
14,300.00	90.10	359.50	12,782.84	1,487.68	-12.29	1,487.73	0.00	0.00	0.00
14,400.00	90.10	359.50	12,782.67	1,587.68	-13.16	1,587.73	0.00	0.00	0.00
14,500.00	90.10	359.50	12,782.49	1,687.68	-14.04	1,687.73	0.00	0.00	0.00
14,600.00	90.10	359.50	12,782.32	1,787.67	-14.91	1,787.73	0.00	0.00	0.00
14,700.00	90.10	359.50	12,782.14	1,887.67	-15.78	1,887.73	0.00	0.00	0.00
14,800.00	90.10	359.50	12,781.97	1,987.66	-16.65	1,987.73	0.00	0.00	0.00
14,900.00	90.10	359.50	12,781.80	2,087.66	-17.53	2,087.73	0.00	0.00	0.00
15,000.00	90.10	359.50	12,781.62	2,187.66	-18.40	2,187.73	0.00	0.00	0.00
15,100.00	90.10	359.50	12,781.45	2,287.65	-19.27	2,287.73	0.00	0.00	0.00
15,200.00	90.10	359.50	12,781.27	2,387.65	-20.14	2,387.73	0.00	0.00	0.00
15,300.00	90.10	359.50	12,781.10	2,487.64	-21.02	2,487.73	0.00	0.00	0.00
15,400.00	90.10	359.50	12,780.92	2,587.64	-21.89	2,587.73	0.00	0.00	0.00
15,500.00	90.10	359.50	12,780.75	2,687.64	-22.76	2,687.73	0.00	0.00	0.00
15,600.00	90.10	359.50	12,780.57	2,787.63	-23.64	2,787.73	0.00	0.00	0.00
15,700.00	90.10	359.50	12,780.40	2,887.63	-24.51	2,887.73	0.00	0.00	0.00
15,800.00	90.10	359.50	12,780.22	2,987.62	-25.38	2,987.73	0.00	0.00	0.00
15,900.00	90.10	359.50	12,780.05	3,087.62	-26.25	3,087.73	0.00	0.00	0.00
16,000.00	90.10	359.50	12,779.88	3,187.62	-27.13	3,187.73	0.00	0.00	0.00
16,100.00	90.10	359.50	12,779.70	3,287.61	-28.00	3,287.73	0.00	0.00	0.00
16,200.00	90.10	359.50	12,779.53	3,387.61	-28.87	3,387.73	0.00	0.00	0.00
16,300.00	90.10	359.50	12,779.35	3,487.60	-29.74	3,487.73	0.00	0.00	0.00
16,400.00	90.10	359.50	12,779.18	3,587.60	-30.62	3,587.73	0.00	0.00	0.00
16,500.00	90.10	359.50	12,779.00	3,687.60	-31.49	3,687.73	0.00	0.00	0.00
16,600.00	90.10	359.50	12,778.83	3,787.59	-32.36	3,787.73	0.00	0.00	0.00
16,700.00	90.10	359.50	12,778.65	3,887.59	-33.23	3,887.73	0.00	0.00	0.00
16,800.00	90.10	359.50	12,778.48	3,987.59	-34.11	3,987.73	0.00	0.00	0.00
16,900.00	90.10	359.50	12,778.30	4,087.58	-34.98	4,087.73	0.00	0.00	0.00
17,000.00	90.10	359.50	12,778.13	4,187.58	-35.85	4,187.73	0.00	0.00	0.00
17,100.00	90.10	359.50	12,777.96	4,287.57	-36.72	4,287.73	0.00	0.00	0.00
17,200.00	90.10	359.50	12,777.78	4,387.57	-37.60	4,387.73	0.00	0.00	0.00
17,300.00	90.10	359.50	12,777.61	4,487.57	-38.47	4,487.73	0.00	0.00	0.00
17,400.00	90.10	359.50	12,777.43	4,587.56	-39.34	4,587.73	0.00	0.00	0.00
17,500.00	90.10	359.50	12,777.26	4,687.56	-40.22	4,687.73	0.00	0.00	0.00
17,600.00	90.10	359.50	12,777.08	4,787.55	-41.09	4,787.73	0.00	0.00	0.00
17,700.00	90.10	359.50	12,776.91	4,887.55	-41.96	4,887.73	0.00	0.00	0.00
17,800.00	90.10	359.50	12,776.73	4,987.55	-42.83	4,987.73	0.00	0.00	0.00
17,900.00	90.10	359.50	12,776.56	5,087.54	-43.71	5,087.73	0.00	0.00	0.00
18,000.00	90.10	359.50	12,776.38	5,187.54	-44.58	5,187.73	0.00	0.00	0.00
18,100.00	90.10	359.50	12,776.21	5,287.53	-45.45	5,287.73	0.00	0.00	0.00
18,200.00	90.10	359.50	12,776.04	5,387.53	-46.32	5,387.73	0.00	0.00	0.00
18,300.00	90.10	359.50	12,775.86	5,487.53	-47.20	5,487.73	0.00	0.00	0.00
18,400.00	90.10	359.50	12,775.69	5,587.52	-48.07	5,587.73	0.00	0.00	0.00
18,500.00	90.10	359.50	12,775.51	5,687.52	-48.94	5,687.73	0.00	0.00	0.00
18,600.00	90.10	359.50	12,775.34	5,787.51	-49.81	5,787.73	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3337.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3337.00usft
Site:	Nautilus 16 Fed Com	North Reference:	Grid
Well:	#702H	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)
18,700.00	90.10	359.50	12,775.16	5,887.51	-50.69	5,887.73	0.00	0.00	0.00
18,800.00	90.10	359.50	12,774.99	5,987.51	-51.56	5,987.73	0.00	0.00	0.00
18,900.00	90.10	359.50	12,774.81	6,087.50	-52.43	6,087.73	0.00	0.00	0.00
19,000.00	90.10	359.50	12,774.64	6,187.50	-53.31	6,187.73	0.00	0.00	0.00
19,100.00	90.10	359.50	12,774.46	6,287.49	-54.18	6,287.73	0.00	0.00	0.00
19,200.00	90.10	359.50	12,774.29	6,387.49	-55.05	6,387.73	0.00	0.00	0.00
19,300.00	90.10	359.50	12,774.12	6,487.49	-55.92	6,487.73	0.00	0.00	0.00
19,400.00	90.10	359.50	12,773.94	6,587.48	-56.80	6,587.73	0.00	0.00	0.00
19,500.00	90.10	359.50	12,773.77	6,687.48	-57.67	6,687.73	0.00	0.00	0.00
19,600.00	90.10	359.50	12,773.59	6,787.47	-58.54	6,787.73	0.00	0.00	0.00
19,700.00	90.10	359.50	12,773.42	6,887.47	-59.41	6,887.73	0.00	0.00	0.00
19,800.00	90.10	359.50	12,773.24	6,987.47	-60.29	6,987.73	0.00	0.00	0.00
19,900.00	90.10	359.50	12,773.07	7,087.46	-61.16	7,087.73	0.00	0.00	0.00
20,000.00	90.10	359.50	12,772.89	7,187.46	-62.03	7,187.73	0.00	0.00	0.00
20,100.00	90.10	359.50	12,772.72	7,287.45	-62.90	7,287.73	0.00	0.00	0.00
20,200.00	90.10	359.50	12,772.54	7,387.45	-63.78	7,387.73	0.00	0.00	0.00
20,225.55	90.10	359.50	12,772.50	7,413.00	-64.00	7,413.28	0.00	0.00	0.00
PBHL (Nautilus 16 Fed Com #702H)									

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	12,772.50	7,413.00	-64.00	385,668.00	809,042.00	32.05733558	-103.46921343
- plan hits target center									
- Point									
FTP (Nautilus 16 Fed Cc	0.00	0.00	12,785.00	50.00	0.00	378,305.00	809,106.00	32.03709571	-103.46919706
- plan misses target center by 39.61usft at 12873.47usft MD (12748.76 TVD, 65.98 N, 0.11 E)									
- Point									