

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42287	² Pool Code 98105	³ Pool Name WE-025G-095263416B; UPPER WC
⁴ Property Code 40383	⁵ Property Name NAUTILUS 16 STATE COM	
⁶ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁷ Well Number #702H
		⁹ Elevation 3375'

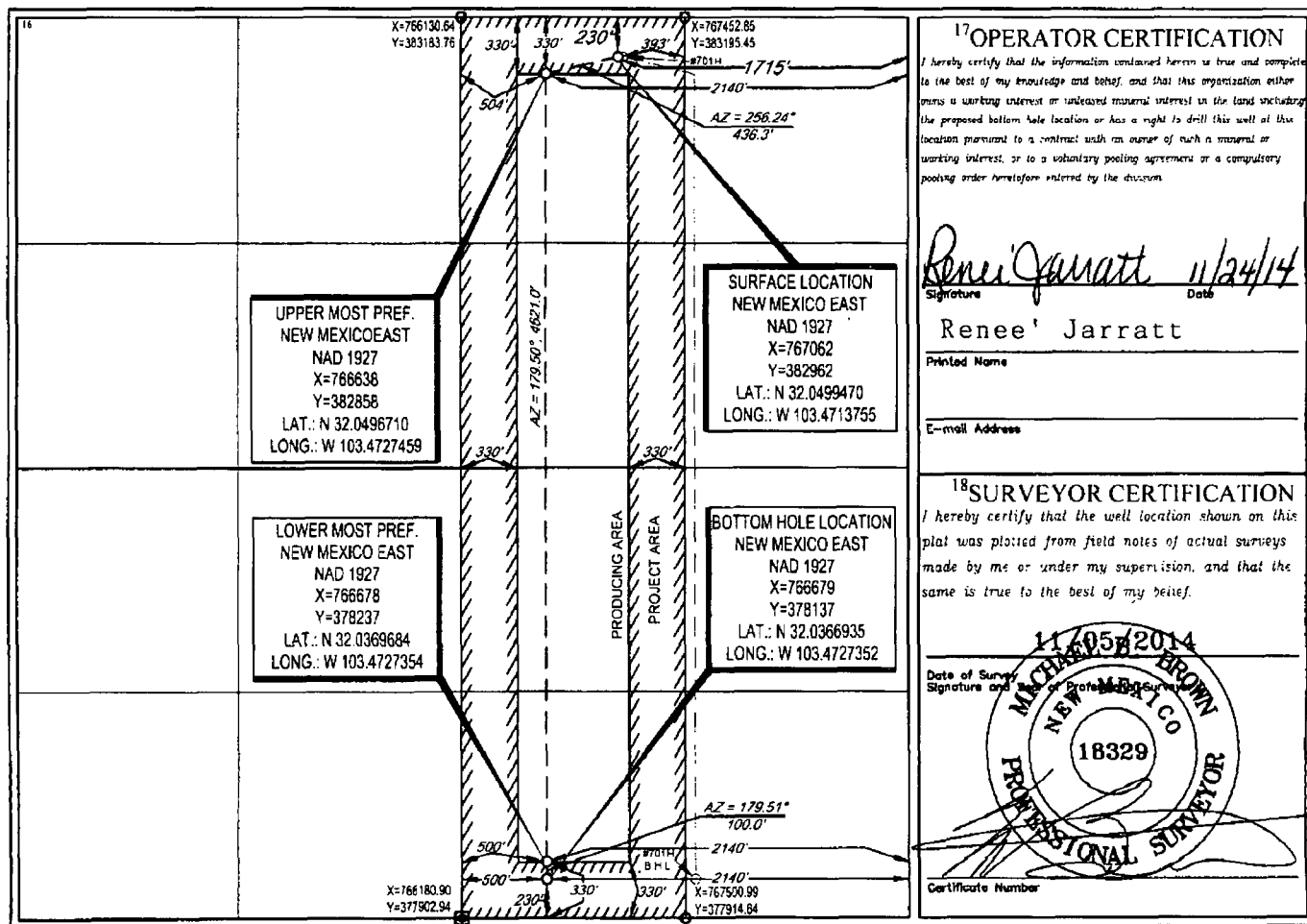
¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	16	26-S	34-E	-	230'	NORTH	1715'	EAST	LEA

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	16	26-S	34-E	-	230'	SOUTH	2140'	EAST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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DEC 01 2014

Permit Information:

Well Name: Nautilus 16 State Com No. 702H

Location:

SL: 230' FNL & 1715' FEL, Section 16, T-26-S, R-34-E, Lea Co., N.M.

BHL: 230' FSL & 2140' FEL, Section 16, T-26-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 - 1,000'	9.625"	40#	J55	STC	1.125	1.25	1.60
8.75"	0-11,500'	7"	26#	HCP-110	LTC	1.125	1.25	1.60
6.125"	0'-17,664'	4.5"	13.5#	HCP-110	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,000'	350	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,500' DV Tool @ 5,200'	300	10.8	3.68	Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free
	200	14.2	1.32	Stage 1 Tail: Class H + 0.65% FL-52 + 0.6% CD-32 + 1.0% EC-1 + 0.65% SMS + 2.0% Salt + 0.2% R-21 + 0.005 gps FP-6L + 0.005 pps Static Free
	400	12.7	2.22	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	200	14.8	1.35	Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,664'	575	11.9	2.36	50:50:6 Class H + 0.20% FL-52 + 0.75% CD-32 + 1.0% EC-1 + 0.15% ASA-301 + 1.60% SMS + 5.0% Salt + 0.50% R-21 + 5.0 pps LCM-1 (TOC @ 10,250')
	450	14.2	1.35	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,000'	Fresh - Gel	8.6-8.8	28-34	N/c
1,000' - 11,500'	Oil Base	8.7-9.4	58-68	N/c - 6
11,500' - 12,374'	Oil Base	8.7-9.4	58-68	N/c - 6
12,374' - 17,664' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

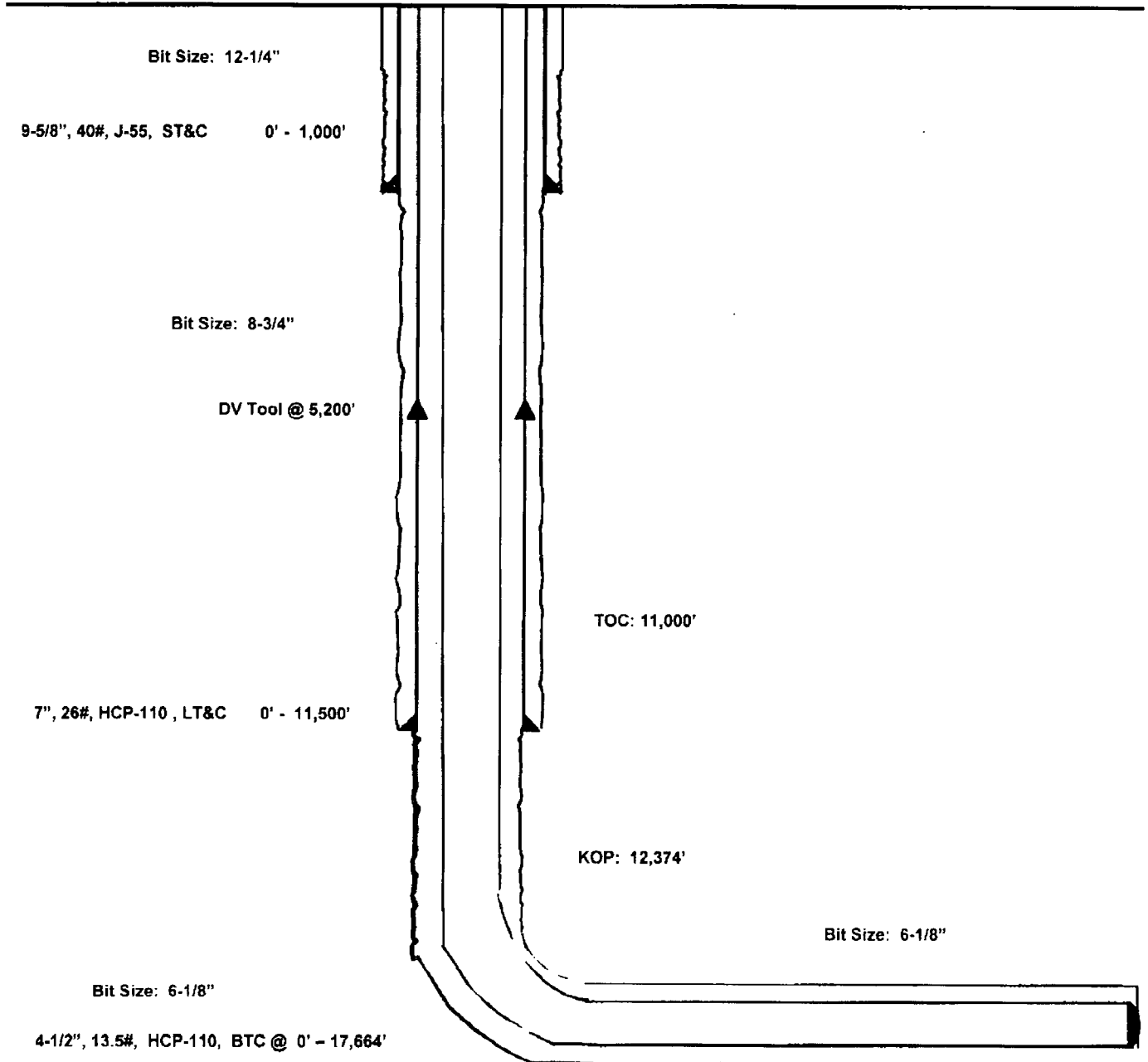
Nautilus 16 State Com #702H

**230' FNL
1715' FEL
Section 16
T-26-S, R-34-E**

**Lea County, New Mexico
Proposed Wellbore**

API: 30-025-*****

**KB: 3,400'
GL: 3,375'**



Lateral: 17,664' MD, 12,850' TVD

**BH Location: 230' FSL & 2140' FEL
Section 16
T-26-S, R-34-E**



Lea County, NM (NAD 27 NME)

Nautilus 16 State Com #702H

Plan #1

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

Geodetic System: US State Plane 1927 (East solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1888
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #702H

Ground Level: 3375.0
KB = 25 @ 3400.0usft
Easting: 787982.00 Latitude: 32° 2' 59.809 N Longitude: 103° 28' 16.350 W

SECTION DETAILS

Sec	MD	Inc	AZ	TVD	+W-S	+E-W	Dieg	TFace	Vsect	TargM	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0		
3	5348.8	1.48	294.25	5348.8	4.4	-0.7	1.00	294.25	-3.6		
4	1274.4	1.48	294.25	1274.4	180.0	-398.4	0.00	0.00	-147.8		
5	13126.6	90.00	178.50	12890.0	-287.5	-422.3	17.00	-116.71	331.1		
6	17654.1	90.00	178.50	12860.0	-4875.0	-383.0	0.00	0.00	6840.2		PBML Nautil 16 State Com #702H)

To convert a Magnetic Direction to a Grid Direction: Add 6.65°
To convert a Magnetic Direction to a True Direction: Add 7.10° East
To convert a True Direction to a Grid Direction: Subtract 0.45°



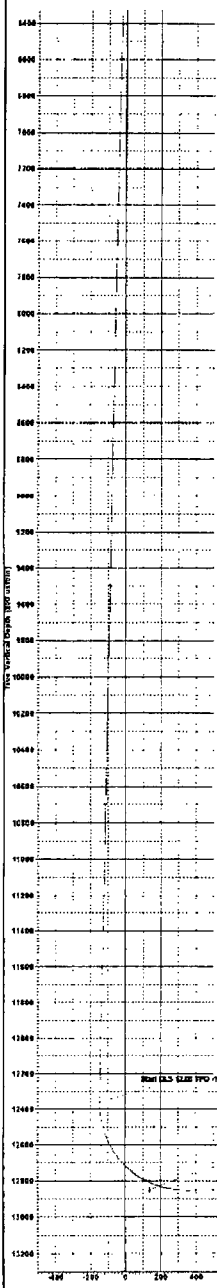
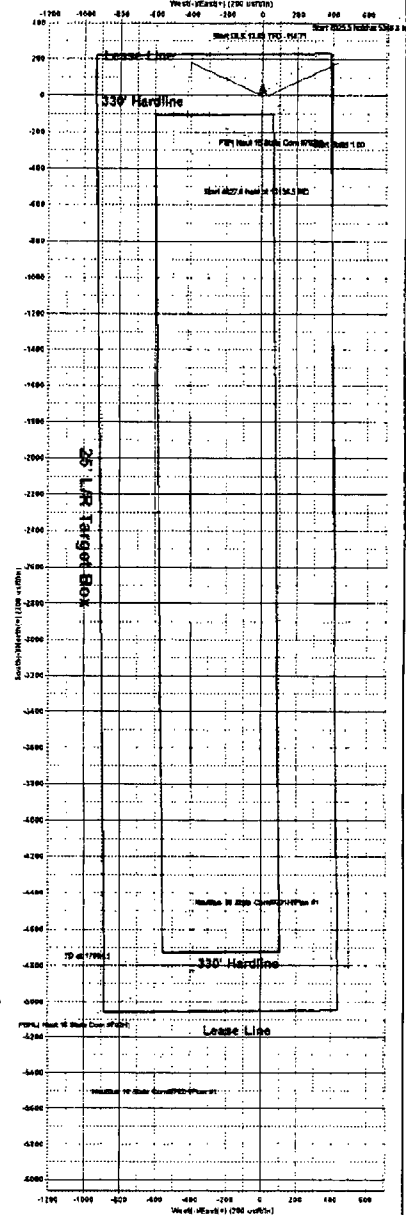
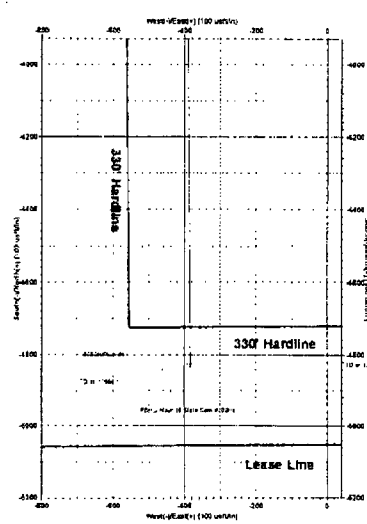
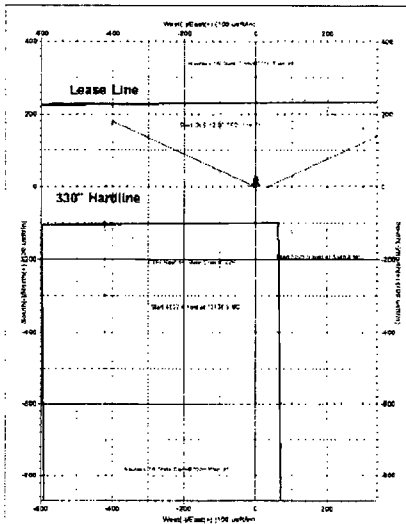
Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.65°
Magnetic Field
Strength: 48178.5nT
Dip Angle: 59.90°
Date: 11/21/2014
Model: IGRF201014

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+W-S	+E-W	North	East
FTM Nautil 16 State Com #702H)	12850.0	-104.0	-424.0	382868.00	786638.00
PBML Nautil 16 State Com #702H)	12850.0	-4875.3	-383.0	378157.00	786679.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Nautilus 16 State Com

#702H

OH

Plan: Plan #1

Standard Planning Report

24 November, 2014



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Nautilus 16 State Com
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3400.0usft
MD Reference: KB = 25 @ 3400.0usft
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		Nautilus 16 State Com			
Site Position:		Northing:	382,964.00 usft	Latitude:	32° 2' 59.921 N
From:	Map	Easting:	768,397.00 usft	Longitude:	103° 28' 1.438 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	#702H					
Well Position	+N/-S	-22.0 usft	Northing:	382,962.00 usft	Latitude:	32° 2' 59.809 N
	+E/-W	-1,335.0 usft	Easting:	767,062.00 usft	Longitude:	103° 28' 16.950 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	3,375.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	11/21/2014	7.10	59.96	48.179

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	184.54

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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,348.8	3.49	294.25	5,348.6	4.4	-9.7	1.00	1.00	0.00	294.25	
12,374.4	3.49	294.25	12,361.1	180.0	-399.4	0.00	0.00	0.00	0.00	
13,136.5	90.00	179.50	12,850.0	-297.6	-422.3	12.00	11.35	-15.06	-114.71	
17,664.1	90.00	179.50	12,850.0	-4,825.0	-383.0	0.00	0.00	0.00	0.00	PBHL(Naut 16 State



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Nautilus 16 State Com
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3400.0usft
MD Reference: KB = 25 @ 3400.0usft
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)
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	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	1.00	294.25	5,100.0	0.4	-0.8	-0.3	1.00	1.00	0.00
5,200.0	2.00	294.25	5,200.0	1.4	-3.2	-1.2	1.00	1.00	0.00
5,300.0	3.00	294.25	5,299.9	3.2	-7.2	-2.6	1.00	1.00	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)
5,348.8	3.49	294.25	5,348.6	4.4	-9.7	-3.6	1.00	1.00	0.00
5,400.0	3.49	294.25	5,399.7	5.6	-12.5	-4.6	0.00	0.00	0.00
5,500.0	3.49	294.25	5,499.5	8.1	-18.1	-6.7	0.00	0.00	0.00
5,600.0	3.49	294.25	5,599.3	10.6	-23.6	-8.7	0.00	0.00	0.00
5,700.0	3.49	294.25	5,699.1	13.1	-29.2	-10.8	0.00	0.00	0.00
5,800.0	3.49	294.25	5,798.9	15.6	-34.7	-12.8	0.00	0.00	0.00
5,900.0	3.49	294.25	5,898.8	18.1	-40.3	-14.9	0.00	0.00	0.00
6,000.0	3.49	294.25	5,998.6	20.6	-45.8	-16.9	0.00	0.00	0.00
6,100.0	3.49	294.25	6,098.4	23.1	-51.3	-19.0	0.00	0.00	0.00
6,200.0	3.49	294.25	6,198.2	25.6	-56.9	-21.1	0.00	0.00	0.00
6,300.0	3.49	294.25	6,298.0	28.1	-62.4	-23.1	0.00	0.00	0.00
6,400.0	3.49	294.25	6,397.8	30.6	-68.0	-25.2	0.00	0.00	0.00
6,500.0	3.49	294.25	6,497.7	33.1	-73.5	-27.2	0.00	0.00	0.00
6,600.0	3.49	294.25	6,597.5	35.6	-79.1	-29.3	0.00	0.00	0.00
6,700.0	3.49	294.25	6,697.3	38.1	-84.6	-31.3	0.00	0.00	0.00
6,800.0	3.49	294.25	6,797.1	40.6	-90.2	-33.4	0.00	0.00	0.00
6,900.0	3.49	294.25	6,896.9	43.1	-95.7	-35.4	0.00	0.00	0.00
7,000.0	3.49	294.25	6,996.7	45.6	-101.3	-37.5	0.00	0.00	0.00
7,100.0	3.49	294.25	7,096.5	48.1	-106.8	-39.5	0.00	0.00	0.00
7,200.0	3.49	294.25	7,196.4	50.6	-112.4	-41.6	0.00	0.00	0.00
7,300.0	3.49	294.25	7,296.2	53.1	-117.9	-43.6	0.00	0.00	0.00
7,400.0	3.49	294.25	7,396.0	55.6	-123.5	-45.7	0.00	0.00	0.00
7,500.0	3.49	294.25	7,495.8	58.1	-129.0	-47.7	0.00	0.00	0.00
7,600.0	3.49	294.25	7,595.6	60.6	-134.6	-49.8	0.00	0.00	0.00
7,700.0	3.49	294.25	7,695.4	63.1	-140.1	-51.8	0.00	0.00	0.00
7,800.0	3.49	294.25	7,795.2	65.6	-145.7	-53.9	0.00	0.00	0.00
7,900.0	3.49	294.25	7,895.1	68.1	-151.2	-55.9	0.00	0.00	0.00
8,000.0	3.49	294.25	7,994.9	70.6	-156.7	-58.0	0.00	0.00	0.00
8,100.0	3.49	294.25	8,094.7	73.1	-162.3	-60.1	0.00	0.00	0.00
8,200.0	3.49	294.25	8,194.5	75.6	-167.8	-62.1	0.00	0.00	0.00
8,300.0	3.49	294.25	8,294.3	78.1	-173.4	-64.2	0.00	0.00	0.00
8,400.0	3.49	294.25	8,394.1	80.6	-178.9	-66.2	0.00	0.00	0.00
8,500.0	3.49	294.25	8,493.9	83.1	-184.5	-68.3	0.00	0.00	0.00
8,600.0	3.49	294.25	8,593.8	85.6	-190.0	-70.3	0.00	0.00	0.00
8,700.0	3.49	294.25	8,693.6	88.1	-195.6	-72.4	0.00	0.00	0.00
8,800.0	3.49	294.25	8,793.4	90.6	-201.1	-74.4	0.00	0.00	0.00
8,900.0	3.49	294.25	8,893.2	93.1	-206.7	-76.5	0.00	0.00	0.00
9,000.0	3.49	294.25	8,993.0	95.6	-212.2	-78.5	0.00	0.00	0.00
9,100.0	3.49	294.25	9,092.8	98.1	-217.8	-80.6	0.00	0.00	0.00
9,200.0	3.49	294.25	9,192.6	100.6	-223.3	-82.6	0.00	0.00	0.00
9,300.0	3.49	294.25	9,292.5	103.1	-228.9	-84.7	0.00	0.00	0.00
9,400.0	3.49	294.25	9,392.3	105.6	-234.4	-86.7	0.00	0.00	0.00
9,500.0	3.49	294.25	9,492.1	108.1	-240.0	-88.8	0.00	0.00	0.00
9,600.0	3.49	294.25	9,591.9	110.6	-245.5	-90.8	0.00	0.00	0.00
9,700.0	3.49	294.25	9,691.7	113.1	-251.0	-92.9	0.00	0.00	0.00
9,800.0	3.49	294.25	9,791.5	115.6	-256.6	-94.9	0.00	0.00	0.00
9,900.0	3.49	294.25	9,891.4	118.1	-262.1	-97.0	0.00	0.00	0.00
10,000.0	3.49	294.25	9,991.2	120.6	-267.7	-99.1	0.00	0.00	0.00
10,100.0	3.49	294.25	10,091.0	123.1	-273.2	-101.1	0.00	0.00	0.00
10,200.0	3.49	294.25	10,190.8	125.6	-278.8	-103.2	0.00	0.00	0.00
10,300.0	3.49	294.25	10,290.6	128.1	-284.3	-105.2	0.00	0.00	0.00
10,400.0	3.49	294.25	10,390.4	130.6	-289.9	-107.3	0.00	0.00	0.00
10,500.0	3.49	294.25	10,490.2	133.1	-295.4	-109.3	0.00	0.00	0.00
10,600.0	3.49	294.25	10,590.1	135.6	-301.0	-111.4	0.00	0.00	0.00



EOG Resources, Inc.

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Site: Nautilus 16 State Com
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3400.0usft
MD Reference: KB = 25 @ 3400.0usft
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)
10,700.0	3.49	294.25	10,689.9	138.1	-306.5	-113.4	0.00	0.00	0.00
10,800.0	3.49	294.25	10,789.7	140.6	-312.1	-115.5	0.00	0.00	0.00
10,900.0	3.49	294.25	10,889.5	143.1	-317.6	-117.5	0.00	0.00	0.00
11,000.0	3.49	294.25	10,989.3	145.6	-323.2	-119.6	0.00	0.00	0.00
11,100.0	3.49	294.25	11,089.1	148.1	-328.7	-121.6	0.00	0.00	0.00
11,200.0	3.49	294.25	11,188.9	150.6	-334.3	-123.7	0.00	0.00	0.00
11,300.0	3.49	294.25	11,288.8	153.1	-339.8	-125.7	0.00	0.00	0.00
11,400.0	3.49	294.25	11,388.6	155.6	-345.4	-127.8	0.00	0.00	0.00
11,500.0	3.49	294.25	11,488.4	158.1	-350.9	-129.8	0.00	0.00	0.00
11,600.0	3.49	294.25	11,588.2	160.6	-356.4	-131.9	0.00	0.00	0.00
11,700.0	3.49	294.25	11,688.0	163.1	-362.0	-133.9	0.00	0.00	0.00
11,800.0	3.49	294.25	11,787.8	165.6	-367.5	-136.0	0.00	0.00	0.00
11,900.0	3.49	294.25	11,887.6	168.1	-373.1	-138.1	0.00	0.00	0.00
12,000.0	3.49	294.25	11,987.5	170.6	-378.6	-140.1	0.00	0.00	0.00
12,100.0	3.49	294.25	12,087.3	173.1	-384.2	-142.2	0.00	0.00	0.00
12,200.0	3.49	294.25	12,187.1	175.6	-389.7	-144.2	0.00	0.00	0.00
12,300.0	3.49	294.25	12,286.9	178.1	-395.3	-146.3	0.00	0.00	0.00
12,374.4	3.49	294.25	12,361.1	180.0	-399.4	-147.8	0.00	0.00	0.00
12,400.0	3.56	242.43	12,386.7	179.9	-400.8	-147.6	12.00	0.27	-202.05
12,425.0	5.60	213.88	12,411.6	178.5	-402.2	-146.2	12.00	8.16	-114.19
12,450.0	8.25	201.96	12,436.5	175.9	-403.5	-143.4	12.00	10.59	-47.72
12,475.0	11.08	195.93	12,461.1	171.9	-404.9	-139.3	12.00	11.31	-24.10
12,500.0	13.97	192.35	12,485.5	166.6	-406.2	-134.0	12.00	11.60	-14.30
12,525.0	16.91	189.99	12,509.6	160.1	-407.5	-127.4	12.00	11.74	-9.44
12,550.0	19.86	188.32	12,533.3	152.3	-408.7	-119.5	12.00	11.81	-6.71
12,575.0	22.83	187.06	12,556.6	143.3	-409.9	-110.4	12.00	11.86	-5.03
12,600.0	25.80	186.08	12,579.4	133.1	-411.1	-100.1	12.00	11.89	-3.93
12,625.0	28.78	185.29	12,601.6	121.7	-412.2	-88.7	12.00	11.91	-3.16
12,650.0	31.76	184.63	12,623.2	109.1	-413.3	-76.1	12.00	11.93	-2.62
12,675.0	34.74	184.08	12,644.1	95.4	-414.3	-62.4	12.00	11.94	-2.21
12,700.0	37.73	183.60	12,664.3	80.7	-415.3	-47.6	12.00	11.95	-1.90
12,725.0	40.72	183.19	12,683.6	64.9	-416.3	-31.8	12.00	11.95	-1.66
12,750.0	43.71	182.82	12,702.1	48.2	-417.1	-15.0	12.00	11.96	-1.47
12,775.0	46.70	182.49	12,719.8	30.4	-418.0	2.7	12.00	11.96	-1.32
12,800.0	49.69	182.19	12,736.4	11.8	-418.7	21.4	12.00	11.97	-1.19
12,825.0	52.68	181.92	12,752.1	-7.7	-419.4	40.8	12.00	11.97	-1.09
12,850.0	55.68	181.67	12,766.7	-27.9	-420.1	61.1	12.00	11.97	-1.01
12,875.0	58.67	181.43	12,780.3	-48.9	-420.6	82.0	12.00	11.97	-0.94
12,900.0	61.67	181.21	12,792.7	-70.6	-421.1	103.7	12.00	11.98	-0.88
12,925.0	64.66	181.00	12,804.0	-92.9	-421.5	126.0	12.00	11.98	-0.83
12,950.0	67.65	180.81	12,814.1	-115.8	-421.9	148.8	12.00	11.98	-0.79
12,975.0	70.65	180.62	12,823.0	-139.1	-422.2	172.1	12.00	11.98	-0.76
13,000.0	73.64	180.43	12,830.6	-162.9	-422.4	195.8	12.00	11.98	-0.73
13,025.0	76.64	180.26	12,837.1	-187.1	-422.6	219.9	12.00	11.98	-0.71
13,050.0	79.63	180.08	12,842.2	-211.5	-422.6	244.3	12.00	11.98	-0.69
13,075.0	82.63	179.91	12,846.0	-236.2	-422.6	268.9	12.00	11.98	-0.68
13,100.0	85.62	179.75	12,848.6	-261.1	-422.6	293.7	12.00	11.98	-0.67
13,125.0	88.62	179.58	12,849.9	-286.1	-422.4	318.6	12.00	11.98	-0.67
13,136.5	90.00	179.50	12,850.0	-297.6	-422.3	330.1	12.00	11.98	-0.66
13,200.0	90.00	179.50	12,850.0	-361.1	-421.8	393.3	0.00	0.00	0.00
13,300.0	90.00	179.50	12,850.0	-461.0	-420.9	492.9	0.00	0.00	0.00
13,400.0	90.00	179.50	12,850.0	-561.0	-420.0	592.5	0.00	0.00	0.00
13,500.0	90.00	179.50	12,850.0	-661.0	-419.2	692.1	0.00	0.00	0.00
13,600.0	90.00	179.50	12,850.0	-761.0	-418.3	791.7	0.00	0.00	0.00



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Design: Plan #1

Local Co-ordinate Reference: Well #702H
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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)
13.700.0	90.00	179.50	12,850.0	-861.0	-417.4	891.4	0.00	0.00	0.00
13.800.0	90.00	179.50	12,850.0	-961.0	-416.6	991.0	0.00	0.00	0.00
13.900.0	90.00	179.50	12,850.0	-1,061.0	-415.7	1,090.6	0.00	0.00	0.00
14.000.0	90.00	179.50	12,850.0	-1,161.0	-414.8	1,190.2	0.00	0.00	0.00
14.100.0	90.00	179.50	12,850.0	-1,261.0	-414.0	1,289.8	0.00	0.00	0.00
14.200.0	90.00	179.50	12,850.0	-1,361.0	-413.1	1,389.4	0.00	0.00	0.00
14.300.0	90.00	179.50	12,850.0	-1,461.0	-412.2	1,489.0	0.00	0.00	0.00
14.400.0	90.00	179.50	12,850.0	-1,561.0	-411.3	1,588.7	0.00	0.00	0.00
14.500.0	90.00	179.50	12,850.0	-1,661.0	-410.5	1,688.3	0.00	0.00	0.00
14.600.0	90.00	179.50	12,850.0	-1,761.0	-409.6	1,787.9	0.00	0.00	0.00
14.700.0	90.00	179.50	12,850.0	-1,861.0	-408.7	1,887.5	0.00	0.00	0.00
14.800.0	90.00	179.50	12,850.0	-1,961.0	-407.9	1,987.1	0.00	0.00	0.00
14.900.0	90.00	179.50	12,850.0	-2,061.0	-407.0	2,086.7	0.00	0.00	0.00
15.000.0	90.00	179.50	12,850.0	-2,161.0	-406.1	2,186.3	0.00	0.00	0.00
15.100.0	90.00	179.50	12,850.0	-2,261.0	-405.3	2,286.0	0.00	0.00	0.00
15.200.0	90.00	179.50	12,850.0	-2,361.0	-404.4	2,385.6	0.00	0.00	0.00
15.300.0	90.00	179.50	12,850.0	-2,461.0	-403.5	2,485.2	0.00	0.00	0.00
15.400.0	90.00	179.50	12,850.0	-2,561.0	-402.7	2,584.8	0.00	0.00	0.00
15.500.0	90.00	179.50	12,850.0	-2,661.0	-401.8	2,684.4	0.00	0.00	0.00
15.600.0	90.00	179.50	12,850.0	-2,761.0	-400.9	2,784.0	0.00	0.00	0.00
15.700.0	90.00	179.50	12,850.0	-2,861.0	-400.1	2,883.6	0.00	0.00	0.00
15.800.0	90.00	179.50	12,850.0	-2,961.0	-399.2	2,983.3	0.00	0.00	0.00
15.900.0	90.00	179.50	12,850.0	-3,061.0	-398.3	3,082.9	0.00	0.00	0.00
16.000.0	90.00	179.50	12,850.0	-3,160.9	-397.5	3,182.5	0.00	0.00	0.00
16.100.0	90.00	179.50	12,850.0	-3,260.9	-396.6	3,282.1	0.00	0.00	0.00
16.200.0	90.00	179.50	12,850.0	-3,360.9	-395.7	3,381.7	0.00	0.00	0.00
16.300.0	90.00	179.50	12,850.0	-3,460.9	-394.8	3,481.3	0.00	0.00	0.00
16.400.0	90.00	179.50	12,850.0	-3,560.9	-394.0	3,580.9	0.00	0.00	0.00
16.500.0	90.00	179.50	12,850.0	-3,660.9	-393.1	3,680.6	0.00	0.00	0.00
16.600.0	90.00	179.50	12,850.0	-3,760.9	-392.2	3,780.2	0.00	0.00	0.00
16.700.0	90.00	179.50	12,850.0	-3,860.9	-391.4	3,879.8	0.00	0.00	0.00
16.800.0	90.00	179.50	12,850.0	-3,960.9	-390.5	3,979.4	0.00	0.00	0.00
16.900.0	90.00	179.50	12,850.0	-4,060.9	-389.6	4,079.0	0.00	0.00	0.00
17.000.0	90.00	179.50	12,850.0	-4,160.9	-388.8	4,178.6	0.00	0.00	0.00
17.100.0	90.00	179.50	12,850.0	-4,260.9	-387.9	4,278.2	0.00	0.00	0.00
17.200.0	90.00	179.50	12,850.0	-4,360.9	-387.0	4,377.9	0.00	0.00	0.00
17.300.0	90.00	179.50	12,850.0	-4,460.9	-386.2	4,477.5	0.00	0.00	0.00
17.400.0	90.00	179.50	12,850.0	-4,560.9	-385.3	4,577.1	0.00	0.00	0.00
17.500.0	90.00	179.50	12,850.0	-4,660.9	-384.4	4,676.7	0.00	0.00	0.00
17.600.0	90.00	179.50	12,850.0	-4,760.9	-383.6	4,776.3	0.00	0.00	0.00
17.664.1	90.00	179.50	12,850.0	-4,825.0	-383.0	4,840.2	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #1

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MD Reference: KB = 25 @ 3400.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL(Naut 16 State Co	0.00	0.00	12.850.0	-4.825.0	-383.0	378,137.00	766,679.00	32° 2' 12.093 N	103° 28' 21.846 W
- plan hits target center									
- Point									
FTP(Naut 16 State Cor	0.00	0.00	12.850.0	-104.0	-424.0	382,858.00	766,638.00	32° 2' 58.813 N	103° 28' 21.886 W
- plan misses target center by 37.8usft at 12951.8usft MD (12814.8 TVD, -117.4 N, -421.9 E)									
- Point									

EOG RESOURCES, INC.
NAUTILUS 16 STATE COM #702H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.
 - Breathing apparatus:
 - a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
 - b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
 - c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.
 - Auxiliary Rescue Equipment:
 - a. Stretcher
 - b. Two OSHA full body harness
 - c. 100 ft 5/8 inch OSHA approved rope
 - d. 1-20# class ABC fire extinguisher
 - H2S detection and monitoring equipment:
 - The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
 - (Gas sample tubes will be stored in the safety trailer)
 - Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
NAUTILUS 16 STATE COM #702H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
NAUTILUS 16 STATE COM #702H

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department (575) 396-3611

Rod Coffman

Fire Department:

Carlsbad (575) 885-3125

Artesia (575) 746-5050

Hospitals:

Carlsbad (575) 887-4121

Artesia (575) 748-3333

Hobbs (575) 392-1979

Dept. of Public Safety/Carlsbad (575) 748-9718

Highway Department (575) 885-3281

New Mexico Oil Conservation (575) 476-3440

U.S. Dept. of Labor (575) 887-1174

EOG Resources, Inc.

EOG / Midland Office (432) 686-3600

Company Drilling Consultants:

Jett Dueitt Cell (432) 230-4840

Blake Burney

Drilling Engineer

Robert Brosig Office (432) 686-3737

Cell (432) 770-0705

Drilling Manager

Lee Lohoefer Office (432) 686-6716

Cell (817) 374-9686

Drilling Superintendent

Jason Richey Office (432) 686-3665

Cell (817) 879-6521

H&P Drilling

H&P Drilling Office (432) 563-5757

H&P 415 Drilling Rig Rig (432) 230-4840

Tool Pusher:

Johnathan Craig Cell (817) 760-6374

Brad Garrett

Safety

Reggie Phillips (HSE Manager) Office (432) 686-3747

Cell (432) 250-7507