

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 30-025-43005		² Pool Code 98177	³ Pool Name WC-025 G-09 5223332A; UPR WC
⁴ Property Code 315746	⁵ Property Name FOGHORN 32 STATE		⁶ Well Number #701H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3593'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	22-S	33-E	-	200'	NORTH	80'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	22-S	33-E	-	230'	SOUTH	330'	EAST	LEA

¹¹ Dedicated Acres 160.00	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.
---	-------------------------------	----------------------------------	-------------------------

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.

¹⁶ SURFACE LOCATION NEW MEXICO NAD 1927 X=730850 Y=493618 LAT.: N 32.3548566 LONG.: W 103.5857590 UPPER MOST PERF. NEW MEXICO NAD 1927 X=730601 Y=493487 LAT.: N 32.3545009 LONG.: W 103.5865668 LOWER MOST PERF. NEW MEXICO NAD 1927 X=730650 Y=488872 LAT.: N 32.3418132 LONG.: W 103.5865129 BOTTOM HOLE LOCATION NEW MEXICO NAD 1927 X=730651 Y=488772 LAT.: N 32.3415383 LONG.: W 103.5865119			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Stan Wagner</u> Date: <u>1/6/16</u> Printed Name: <u>Stan Wagner</u> E-mail Address: _____
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: <u>12/01/2015</u> Signature and Seal of Professional Surveyor: Certificate Number: _____		
	X=729612.40 Y=493812.55 X=730927.74 Y=493818.71 X=730650.17 Y=488536.01 X=730651.56 Y=488543.52		
	X=729612.40 Y=493812.55 X=730927.74 Y=493818.71 X=730650.17 Y=488536.01 X=730651.56 Y=488543.52		

S:\SURVEY\EOG_MIDLAND\FOGHORN_32_STATE\FINAL_PRODUCTS\SILO_FOGHORN32STATE_701H.DWG 12/16/2015 9:53:06 AM coaston

JAN 07 2016

Permit Information:

Well Name: Foghorn 32 State No. 701H

Location:

SL: 200' FNL & 80' FEL, Section 32, T-22-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 330' FEL, Section 32, T-22-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 1,075'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0-10,500'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
6.75"	0'-10,500'	5.5"	23#	HCP-110	JFE	1.125	1.25	1.60
6.75"	10,500' - 17,017'	5"	23.2#	P-110	JFE	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,075'	500	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
10,500'	792	9.5	2.74	Lead: LiteCRETE + 0.10% D013 + 0.02 gps D047 + 0.20% D065 + 0.05% D208 + 22.00 pps D229 (TOC @ Surface)
	373	13.5	1.52	Tail: Class H + 47.00 pps D909 + 37.00 pps D035-CF + 0.02 gps D047 + 0.20% D065 + 10.00% D154 + 0.40% D-800
17,017'	685	14.5	1.38	25:75 Class H + 3.0% Salt + 0.6% CPT-12 + 0.2% CPT-35 + 5 pps MagOx + 0.15% CPT-51 + 0.5% CPT-20 (TOC @ 10,000')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,075'	Fresh - Gel	8.6-8.8	28-34	N/c
1,075' - 10,500'	Oil Base	8.7-9.4	58-68	N/c - 6
10,500' - 11,738'	Oil Base	8.7-9.4	58-68	N/c - 6
11,738' - 17,017' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

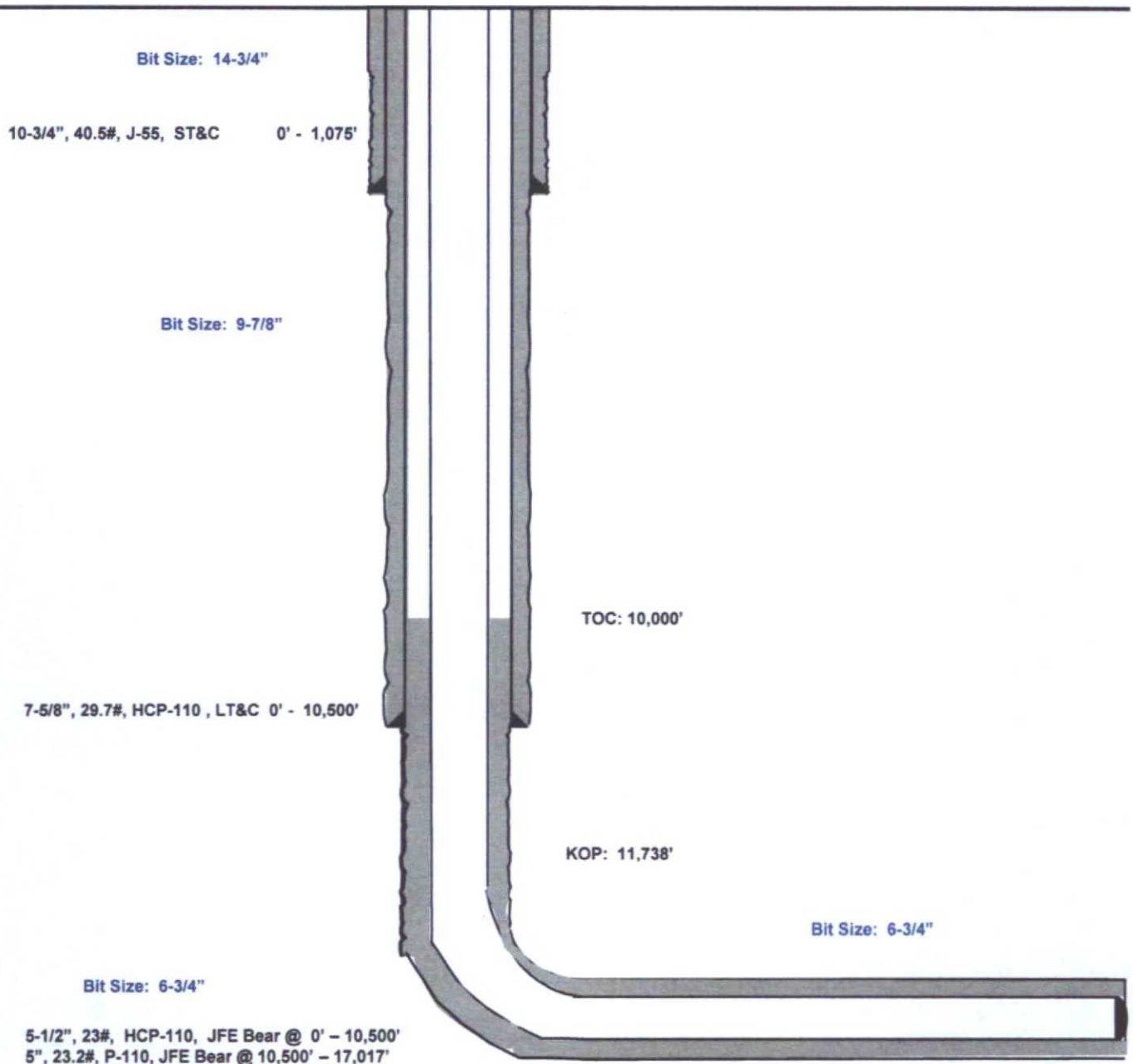
Foghorn 32 State #701H

Lea County, New Mexico
Proposed Wellbore

200' FNL
80' FEL
Section 32
T-22-S, R-33-E

API: 30-025-*****

KB: 3,318'
GL: 3,593'



Lateral: 17,017' MD, 12,220' TVD

BH Location: 230' FSL & 330' FEL
Section 32
T-22-S, R-33-E



Lea County, NM (NAD 27 NME)

Foghorn 32 State #701H

Plan #0.1

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: #701H

Ground Level: 3593.0
Ht = 25 @ 3818.0m
Northing: 493615.00 Easting: 730650.00 Latitude: 32° 21' 17.481 N Longitude: 103° 35' 8.732 W

SECTION DETAILS

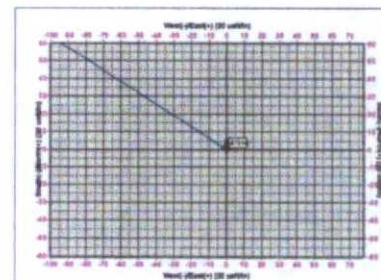
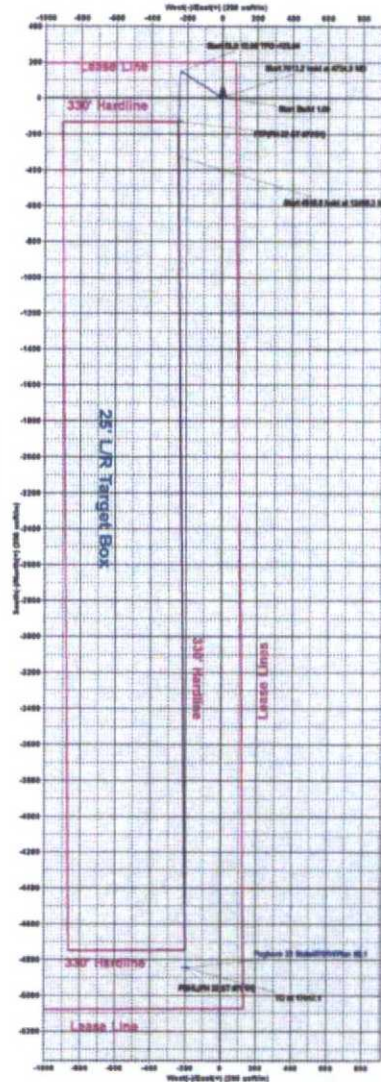
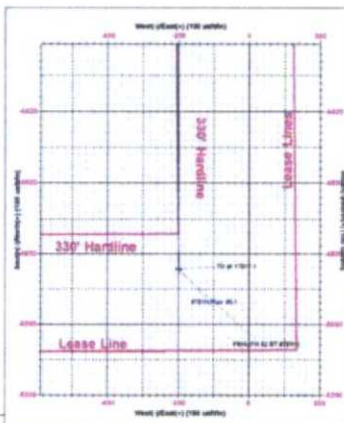
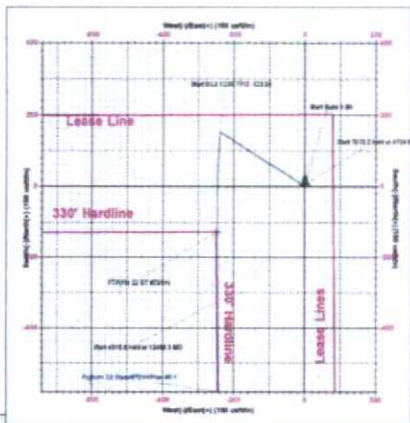
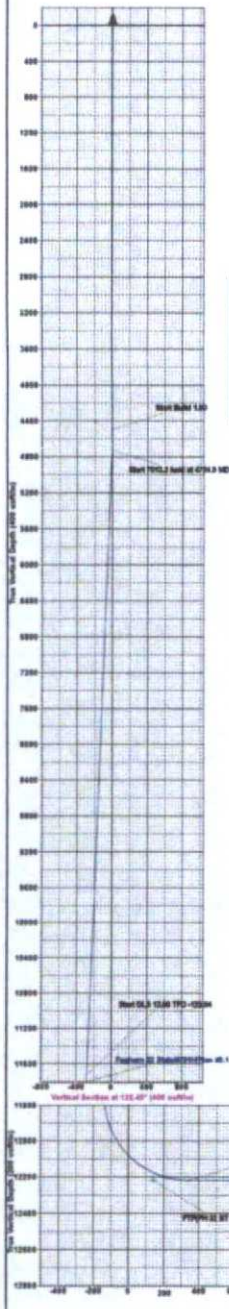
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4724.9	2.25	302.45	4724.8	2.4	-3.7	1.00	302.45	-2.2	
4	11738.0	2.25	302.45	11732.6	150.0	-235.9	0.00	0.00	-140.2	
5	12498.3	90.00	179.39	12220.0	-327.5	-246.9	12.00	-123.04	337.3	
6	17017.1	90.00	179.39	12220.0	-4846.0	-199.0	0.00	0.00	4850.1	PBHL(FH 32 ST #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PTP(FH 32 ST #701H)	12220.0	-131.0	-246.0	493407.60	730601.00
PBHL(FH 32 ST #701H)	12220.0	-4846.0	-199.0	493773.50	730661.00



Vertical section of depth (2000 surface)



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Foghorn 32 State

#701H

OH

Plan: Plan #0.1

Standard Planning Report

06 January, 2016



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 @ 3618.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3618.0usft
Site:	Foghorn 32 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Foghorn 32 State				
Site Position:		Northing:	493,618.00 usft	Latitude:	32° 21' 17.481
From:	Map	Easting:	730,850.00 usft	Longitude:	103° 35' 8.732 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40

Well	#701H					
Well Position	+N/-S	0.0 usft	Northing:	493,618.00 usft	Latitude:	32° 21' 17.481 N
	+E/-W	0.0 usft	Easting:	730,850.00 usft	Longitude:	103° 35' 8.732 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,593.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/26/2016	7.06	60.19	48,096

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	182.35

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	
4,724.9	2.25	302.45	4,724.8	2.4	-3.7	1.00	1.00	0.00	302.45	
11,738.0	2.25	302.45	11,732.6	150.0	-235.9	0.00	0.00	0.00	0.00	
12,498.3	90.00	179.39	12,220.0	-327.5	-246.9	12.00	11.54	-16.19	-123.04	
17,017.1	90.00	179.39	12,220.0	-4,846.0	-199.0	0.00	0.00	0.00	0.00	PBHL(FH 32 ST #701



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Foghorn 32 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3618.0usft
MD Reference: KB = 25 @ 3618.0usft
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	1.00	302.45	4,600.0	0.5	-0.7	-0.4	1.00	1.00	0.00
4,700.0	2.00	302.45	4,700.0	1.9	-2.9	-1.8	1.00	1.00	0.00
4,724.9	2.25	302.45	4,724.8	2.4	-3.7	-2.2	1.00	1.00	0.00
4,800.0	2.25	302.45	4,799.9	3.9	-6.2	-3.7	0.00	0.00	0.00
4,900.0	2.25	302.45	4,899.8	6.1	-9.5	-5.7	0.00	0.00	0.00
5,000.0	2.25	302.45	4,999.7	8.2	-12.8	-7.6	0.00	0.00	0.00
5,100.0	2.25	302.45	5,099.7	10.3	-16.1	-9.6	0.00	0.00	0.00
5,200.0	2.25	302.45	5,199.6	12.4	-19.5	-11.6	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: Foghorn 32 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #701H
KB = 25 @ 3618.0usft
KB = 25 @ 3618.0usft
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)
5,300.0	2.25	302.45	5,299.5	14.5	-22.8	-13.5	0.00	0.00	0.00
5,400.0	2.25	302.45	5,399.4	16.6	-26.1	-15.5	0.00	0.00	0.00
5,500.0	2.25	302.45	5,499.3	18.7	-29.4	-17.5	0.00	0.00	0.00
5,600.0	2.25	302.45	5,599.3	20.8	-32.7	-19.4	0.00	0.00	0.00
5,700.0	2.25	302.45	5,699.2	22.9	-36.0	-21.4	0.00	0.00	0.00
5,800.0	2.25	302.45	5,799.1	25.0	-39.3	-23.4	0.00	0.00	0.00
5,900.0	2.25	302.45	5,899.0	27.1	-42.6	-25.3	0.00	0.00	0.00
6,000.0	2.25	302.45	5,999.0	29.2	-45.9	-27.3	0.00	0.00	0.00
6,100.0	2.25	302.45	6,098.9	31.3	-49.3	-29.3	0.00	0.00	0.00
6,200.0	2.25	302.45	6,198.8	33.4	-52.6	-31.2	0.00	0.00	0.00
6,300.0	2.25	302.45	6,298.7	35.5	-55.9	-33.2	0.00	0.00	0.00
6,400.0	2.25	302.45	6,398.7	37.6	-59.2	-35.2	0.00	0.00	0.00
6,500.0	2.25	302.45	6,498.6	39.7	-62.5	-37.1	0.00	0.00	0.00
6,600.0	2.25	302.45	6,598.5	41.9	-65.8	-39.1	0.00	0.00	0.00
6,700.0	2.25	302.45	6,698.4	44.0	-69.1	-41.1	0.00	0.00	0.00
6,800.0	2.25	302.45	6,798.3	46.1	-72.4	-43.1	0.00	0.00	0.00
6,900.0	2.25	302.45	6,898.3	48.2	-75.7	-45.0	0.00	0.00	0.00
7,000.0	2.25	302.45	6,998.2	50.3	-79.1	-47.0	0.00	0.00	0.00
7,100.0	2.25	302.45	7,098.1	52.4	-82.4	-49.0	0.00	0.00	0.00
7,200.0	2.25	302.45	7,198.0	54.5	-85.7	-50.9	0.00	0.00	0.00
7,300.0	2.25	302.45	7,298.0	56.6	-89.0	-52.9	0.00	0.00	0.00
7,400.0	2.25	302.45	7,397.9	58.7	-92.3	-54.9	0.00	0.00	0.00
7,500.0	2.25	302.45	7,497.8	60.8	-95.6	-56.8	0.00	0.00	0.00
7,600.0	2.25	302.45	7,597.7	62.9	-98.9	-58.8	0.00	0.00	0.00
7,700.0	2.25	302.45	7,697.7	65.0	-102.2	-60.8	0.00	0.00	0.00
7,800.0	2.25	302.45	7,797.6	67.1	-105.5	-62.7	0.00	0.00	0.00
7,900.0	2.25	302.45	7,897.5	69.2	-108.9	-64.7	0.00	0.00	0.00
8,000.0	2.25	302.45	7,997.4	71.3	-112.2	-66.7	0.00	0.00	0.00
8,100.0	2.25	302.45	8,097.3	73.4	-115.5	-68.6	0.00	0.00	0.00
8,200.0	2.25	302.45	8,197.3	75.5	-118.8	-70.6	0.00	0.00	0.00
8,300.0	2.25	302.45	8,297.2	77.6	-122.1	-72.6	0.00	0.00	0.00
8,400.0	2.25	302.45	8,397.1	79.8	-125.4	-74.5	0.00	0.00	0.00
8,500.0	2.25	302.45	8,497.0	81.9	-128.7	-76.5	0.00	0.00	0.00
8,600.0	2.25	302.45	8,597.0	84.0	-132.0	-78.5	0.00	0.00	0.00
8,700.0	2.25	302.45	8,696.9	86.1	-135.3	-80.4	0.00	0.00	0.00
8,800.0	2.25	302.45	8,796.8	88.2	-138.7	-82.4	0.00	0.00	0.00
8,900.0	2.25	302.45	8,896.7	90.3	-142.0	-84.4	0.00	0.00	0.00
9,000.0	2.25	302.45	8,996.6	92.4	-145.3	-86.4	0.00	0.00	0.00
9,100.0	2.25	302.45	9,096.6	94.5	-148.6	-88.3	0.00	0.00	0.00
9,200.0	2.25	302.45	9,196.5	96.6	-151.9	-90.3	0.00	0.00	0.00
9,300.0	2.25	302.45	9,296.4	98.7	-155.2	-92.3	0.00	0.00	0.00
9,400.0	2.25	302.45	9,396.3	100.8	-158.5	-94.2	0.00	0.00	0.00
9,500.0	2.25	302.45	9,496.3	102.9	-161.8	-96.2	0.00	0.00	0.00
9,600.0	2.25	302.45	9,596.2	105.0	-165.1	-98.2	0.00	0.00	0.00
9,700.0	2.25	302.45	9,696.1	107.1	-168.5	-100.1	0.00	0.00	0.00
9,800.0	2.25	302.45	9,796.0	109.2	-171.8	-102.1	0.00	0.00	0.00
9,900.0	2.25	302.45	9,896.0	111.3	-175.1	-104.1	0.00	0.00	0.00
10,000.0	2.25	302.45	9,995.9	113.4	-178.4	-106.0	0.00	0.00	0.00
10,100.0	2.25	302.45	10,095.8	115.6	-181.7	-108.0	0.00	0.00	0.00
10,200.0	2.25	302.45	10,195.7	117.7	-185.0	-110.0	0.00	0.00	0.00
10,300.0	2.25	302.45	10,295.6	119.8	-188.3	-111.9	0.00	0.00	0.00
10,400.0	2.25	302.45	10,395.6	121.9	-191.6	-113.9	0.00	0.00	0.00
10,500.0	2.25	302.45	10,495.5	124.0	-194.9	-115.9	0.00	0.00	0.00
10,600.0	2.25	302.45	10,595.4	126.1	-198.3	-117.8	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: Foghorn 32 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3618.0usft
MD Reference: KB = 25 @ 3618.0usft
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	2.25	302.45	10,695.3	128.2	-201.6	-119.8	0.00	0.00	0.00
10,800.0	2.25	302.45	10,795.3	130.3	-204.9	-121.8	0.00	0.00	0.00
10,900.0	2.25	302.45	10,895.2	132.4	-208.2	-123.7	0.00	0.00	0.00
11,000.0	2.25	302.45	10,995.1	134.5	-211.5	-125.7	0.00	0.00	0.00
11,100.0	2.25	302.45	11,095.0	136.6	-214.8	-127.7	0.00	0.00	0.00
11,200.0	2.25	302.45	11,195.0	138.7	-218.1	-129.6	0.00	0.00	0.00
11,300.0	2.25	302.45	11,294.9	140.8	-221.4	-131.6	0.00	0.00	0.00
11,400.0	2.25	302.45	11,394.8	142.9	-224.7	-133.6	0.00	0.00	0.00
11,500.0	2.25	302.45	11,494.7	145.0	-228.1	-135.6	0.00	0.00	0.00
11,600.0	2.25	302.45	11,594.6	147.1	-231.4	-137.5	0.00	0.00	0.00
11,700.0	2.25	302.45	11,694.6	149.2	-234.7	-139.5	0.00	0.00	0.00
11,738.0	2.25	302.45	11,732.6	150.0	-235.9	-140.2	0.00	0.00	0.00
11,750.0	1.90	283.07	11,744.5	150.1	-236.3	-140.3	12.00	-2.94	-329.25
11,775.0	3.72	209.79	11,769.5	149.4	-237.1	-139.5	12.00	7.30	-213.10
11,800.0	6.49	196.22	11,794.4	147.3	-237.9	-137.4	12.00	11.07	-54.31
11,825.0	9.40	190.86	11,819.2	144.0	-238.7	-134.1	12.00	11.64	-21.41
11,850.0	12.35	188.04	11,843.7	139.3	-239.5	-129.4	12.00	11.81	-11.30
11,875.0	15.32	186.29	11,868.0	133.4	-240.2	-123.4	12.00	11.88	-6.98
11,900.0	18.30	185.10	11,891.9	126.2	-240.9	-116.2	12.00	11.92	-4.75
11,925.0	21.29	184.24	11,915.4	117.8	-241.6	-107.7	12.00	11.94	-3.46
11,950.0	24.28	183.58	11,938.5	108.1	-242.3	-98.1	12.00	11.96	-2.64
11,975.0	27.27	183.05	11,961.0	97.2	-242.9	-87.2	12.00	11.97	-2.09
12,000.0	30.26	182.63	11,982.9	85.2	-243.5	-75.2	12.00	11.97	-1.71
12,025.0	33.26	182.27	12,004.2	72.1	-244.0	-62.0	12.00	11.98	-1.43
12,050.0	36.25	181.96	12,024.7	57.8	-244.6	-47.8	12.00	11.98	-1.22
12,075.0	39.25	181.70	12,044.5	42.5	-245.1	-32.5	12.00	11.98	-1.05
12,100.0	42.24	181.47	12,063.4	26.2	-245.5	-16.1	12.00	11.98	-0.93
12,125.0	45.24	181.26	12,081.5	9.0	-245.9	1.1	12.00	11.99	-0.83
12,150.0	48.24	181.08	12,098.6	-9.2	-246.3	19.3	12.00	11.99	-0.74
12,175.0	51.23	180.91	12,114.7	-28.3	-246.6	38.4	12.00	11.99	-0.68
12,200.0	54.23	180.75	12,129.9	-48.2	-246.9	58.3	12.00	11.99	-0.62
12,225.0	57.23	180.61	12,144.0	-68.9	-247.2	78.9	12.00	11.99	-0.58
12,250.0	60.23	180.47	12,156.9	-90.2	-247.4	100.3	12.00	11.99	-0.54
12,275.0	63.22	180.34	12,168.8	-112.2	-247.5	122.3	12.00	11.99	-0.51
12,300.0	66.22	180.22	12,179.4	-134.8	-247.6	144.9	12.00	11.99	-0.48
12,311.8	67.64	180.17	12,184.1	-145.7	-247.7	155.8	12.00	11.99	-0.47
FTP(FH 32 ST #701H)									
12,325.0	69.22	180.11	12,188.9	-158.0	-247.7	168.0	12.00	11.99	-0.46
12,350.0	72.22	180.00	12,197.2	-181.6	-247.7	191.6	12.00	11.99	-0.44
12,375.0	75.22	179.89	12,204.2	-205.6	-247.7	215.6	12.00	11.99	-0.43
12,400.0	78.22	179.79	12,209.9	-229.9	-247.6	239.9	12.00	11.99	-0.42
12,425.0	81.21	179.68	12,214.4	-254.5	-247.5	264.4	12.00	11.99	-0.41
12,450.0	84.21	179.58	12,217.6	-279.3	-247.3	289.2	12.00	11.99	-0.40
12,475.0	87.21	179.48	12,219.4	-304.2	-247.1	314.1	12.00	11.99	-0.40
12,498.3	90.00	179.39	12,220.0	-327.5	-246.9	337.3	12.00	11.99	-0.40
12,500.0	90.00	179.39	12,220.0	-329.2	-246.9	339.0	0.00	0.00	0.00
12,600.0	90.00	179.39	12,220.0	-429.2	-245.8	438.9	0.00	0.00	0.00
12,700.0	90.00	179.39	12,220.0	-529.2	-244.8	538.8	0.00	0.00	0.00
12,800.0	90.00	179.39	12,220.0	-629.2	-243.7	638.6	0.00	0.00	0.00
12,900.0	90.00	179.39	12,220.0	-729.2	-242.7	738.5	0.00	0.00	0.00
13,000.0	90.00	179.39	12,220.0	-829.2	-241.6	838.4	0.00	0.00	0.00
13,100.0	90.00	179.39	12,220.0	-929.2	-240.5	938.2	0.00	0.00	0.00
13,200.0	90.00	179.39	12,220.0	-1,029.2	-239.5	1,038.1	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: Foghorn 32 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3618.0usft
MD Reference: KB = 25 @ 3618.0usft
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)
13,300.0	90.00	179.39	12,220.0	-1,129.2	-238.4	1,138.0	0.00	0.00	0.00
13,400.0	90.00	179.39	12,220.0	-1,229.1	-237.4	1,237.8	0.00	0.00	0.00
13,500.0	90.00	179.39	12,220.0	-1,329.1	-236.3	1,337.7	0.00	0.00	0.00
13,600.0	90.00	179.39	12,220.0	-1,429.1	-235.2	1,437.6	0.00	0.00	0.00
13,700.0	90.00	179.39	12,220.0	-1,529.1	-234.2	1,537.4	0.00	0.00	0.00
13,800.0	90.00	179.39	12,220.0	-1,629.1	-233.1	1,637.3	0.00	0.00	0.00
13,900.0	90.00	179.39	12,220.0	-1,729.1	-232.1	1,737.2	0.00	0.00	0.00
14,000.0	90.00	179.39	12,220.0	-1,829.1	-231.0	1,837.0	0.00	0.00	0.00
14,100.0	90.00	179.39	12,220.0	-1,929.1	-229.9	1,936.9	0.00	0.00	0.00
14,200.0	90.00	179.39	12,220.0	-2,029.1	-228.9	2,036.8	0.00	0.00	0.00
14,300.0	90.00	179.39	12,220.0	-2,129.1	-227.8	2,136.6	0.00	0.00	0.00
14,400.0	90.00	179.39	12,220.0	-2,229.1	-226.8	2,236.5	0.00	0.00	0.00
14,500.0	90.00	179.39	12,220.0	-2,329.1	-225.7	2,336.4	0.00	0.00	0.00
14,600.0	90.00	179.39	12,220.0	-2,429.1	-224.6	2,436.2	0.00	0.00	0.00
14,700.0	90.00	179.39	12,220.0	-2,529.1	-223.6	2,536.1	0.00	0.00	0.00
14,800.0	90.00	179.39	12,220.0	-2,629.1	-222.5	2,636.0	0.00	0.00	0.00
14,900.0	90.00	179.39	12,220.0	-2,729.1	-221.4	2,735.8	0.00	0.00	0.00
15,000.0	90.00	179.39	12,220.0	-2,829.1	-220.4	2,835.7	0.00	0.00	0.00
15,100.0	90.00	179.39	12,220.0	-2,929.0	-219.3	2,935.6	0.00	0.00	0.00
15,200.0	90.00	179.39	12,220.0	-3,029.0	-218.3	3,035.4	0.00	0.00	0.00
15,300.0	90.00	179.39	12,220.0	-3,129.0	-217.2	3,135.3	0.00	0.00	0.00
15,400.0	90.00	179.39	12,220.0	-3,229.0	-216.1	3,235.2	0.00	0.00	0.00
15,500.0	90.00	179.39	12,220.0	-3,329.0	-215.1	3,335.0	0.00	0.00	0.00
15,600.0	90.00	179.39	12,220.0	-3,429.0	-214.0	3,434.9	0.00	0.00	0.00
15,700.0	90.00	179.39	12,220.0	-3,529.0	-213.0	3,534.8	0.00	0.00	0.00
15,800.0	90.00	179.39	12,220.0	-3,629.0	-211.9	3,634.6	0.00	0.00	0.00
15,900.0	90.00	179.39	12,220.0	-3,729.0	-210.8	3,734.5	0.00	0.00	0.00
16,000.0	90.00	179.39	12,220.0	-3,829.0	-209.8	3,834.4	0.00	0.00	0.00
16,100.0	90.00	179.39	12,220.0	-3,929.0	-208.7	3,934.2	0.00	0.00	0.00
16,200.0	90.00	179.39	12,220.0	-4,029.0	-207.7	4,034.1	0.00	0.00	0.00
16,300.0	90.00	179.39	12,220.0	-4,129.0	-206.6	4,134.0	0.00	0.00	0.00
16,400.0	90.00	179.39	12,220.0	-4,229.0	-205.5	4,233.8	0.00	0.00	0.00
16,500.0	90.00	179.39	12,220.0	-4,329.0	-204.5	4,333.7	0.00	0.00	0.00
16,600.0	90.00	179.39	12,220.0	-4,429.0	-203.4	4,433.6	0.00	0.00	0.00
16,700.0	90.00	179.39	12,220.0	-4,529.0	-202.4	4,533.4	0.00	0.00	0.00
16,800.0	90.00	179.39	12,220.0	-4,629.0	-201.3	4,633.3	0.00	0.00	0.00
16,900.0	90.00	179.39	12,220.0	-4,728.9	-200.2	4,733.2	0.00	0.00	0.00
17,000.0	90.00	179.39	12,220.0	-4,828.9	-199.2	4,833.0	0.00	0.00	0.00
17,017.1	90.00	179.39	12,220.0	-4,846.0	-199.0	4,850.1	0.00	0.00	0.00

PBHL(FH 32 ST #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(FH 32 ST #701H)	0.00	0.00	12,220.0	-4,846.0	-199.0	488,772.00	730,651.00	32° 20' 29.541 N	103° 35' 11.446 W
- plan hits target center									
- Point									
FTP(FH 32 ST #701H)	0.00	0.00	12,220.0	-131.0	-249.0	493,487.00	730,601.00	32° 21' 16.201 N	103° 35' 11.645 W
- plan misses target center by 38.8usft at 12311.8usft MD (12184.1 TVD, -145.7 N, -247.7 E)									
- Point									



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Foghorn 32 State
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3618.0usft
MD Reference: KB = 25 @ 3618.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

**EOG RESOURCES, INC.
FOGHORN 32 STATE #701H**

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.
FOGHORN 32 STATE #701H

- **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.
FOGHORN 32 STATE #701H**

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

Heath Work Office (432) 686-6716

Cell (903) 780-1179

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