

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-43005	✓
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	✓
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Foghorn 32 State Com	✓
8. Well Number 501H	✓
9. OGRID Number 7377	✓
10. Pool name or Wildcat Red Tank; Bone Spring, East	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3593' GR	

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other **OCD - HOBBS**

2. Name of Operator
EOG Resources, Inc. ✓

3. Address of Operator
P.O. Box 2267 Midland, TX 79702

4. Well Location
 Unit Letter A : 200 feet from the North line and 80 feet from the East line
 Section 32 Township 22S Range 33E NMPM County Lea

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources, Inc. requests an amendment to our approved APD for this well to reflect a change in TVD and well number as shown on the attachments.

TVD change from 14291' MD, 9491' TVD (Upper BS Shale) TO: 15808' MD, 11010' TVD (2nd BS Sand)

A pilot-hole will not be drilled as previously planned.

Additionally, EOG requests the well number be changed from 201H to 501H to reflect a 2nd Bone Spring completion.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 7/22/2016

Type or print name Stan Wagner E-mail address: _____ PHONE: 432-686-3689

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 07/22/2016

Conditions of Approval (if any): _____

KZ

Revised Permit Information 7/21/16:

**OCD - HOBBS
07/22/2016
RECEIVED**

Well Name: Foghorn 32 State Com No. 501H

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
17.5"	0 - 1,150'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000'-5,100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' - 15,808	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,150'	525	13.5	1.75	Class C + 2% CaCl ₂ + 4% Gel + 0.25 pps Celloflake
	300	14.8	1.34	Class C + 2% CaCl ₂
5,100'	1300	12.7	1.90	35:65 Poz:Class C + 6% Gel + 3% CaCl ₂ + 0.5% CPT-45 + 0.45% CPT-20
	375	14.8	1.33	Class C + 0.20% CPT-19
15,808'	750	11.0	3.21	50:50 Poz:Class H + 0.4% CPT-503P + 3.0% CPT-45 + 5.0% Gypsum + 5.0% Salt + 0.15% Citric Acid + 0.15% CPT-20A + 1.0% CPT-19
	1400	14.4	1.20	50:50 Poz:Class H + 0.25% CPT-503P + 0.80% CPT-16A + 0.20% CPT-35 + 0.40% CPT-49 + 0.25% CPT-20A

Mud Program:

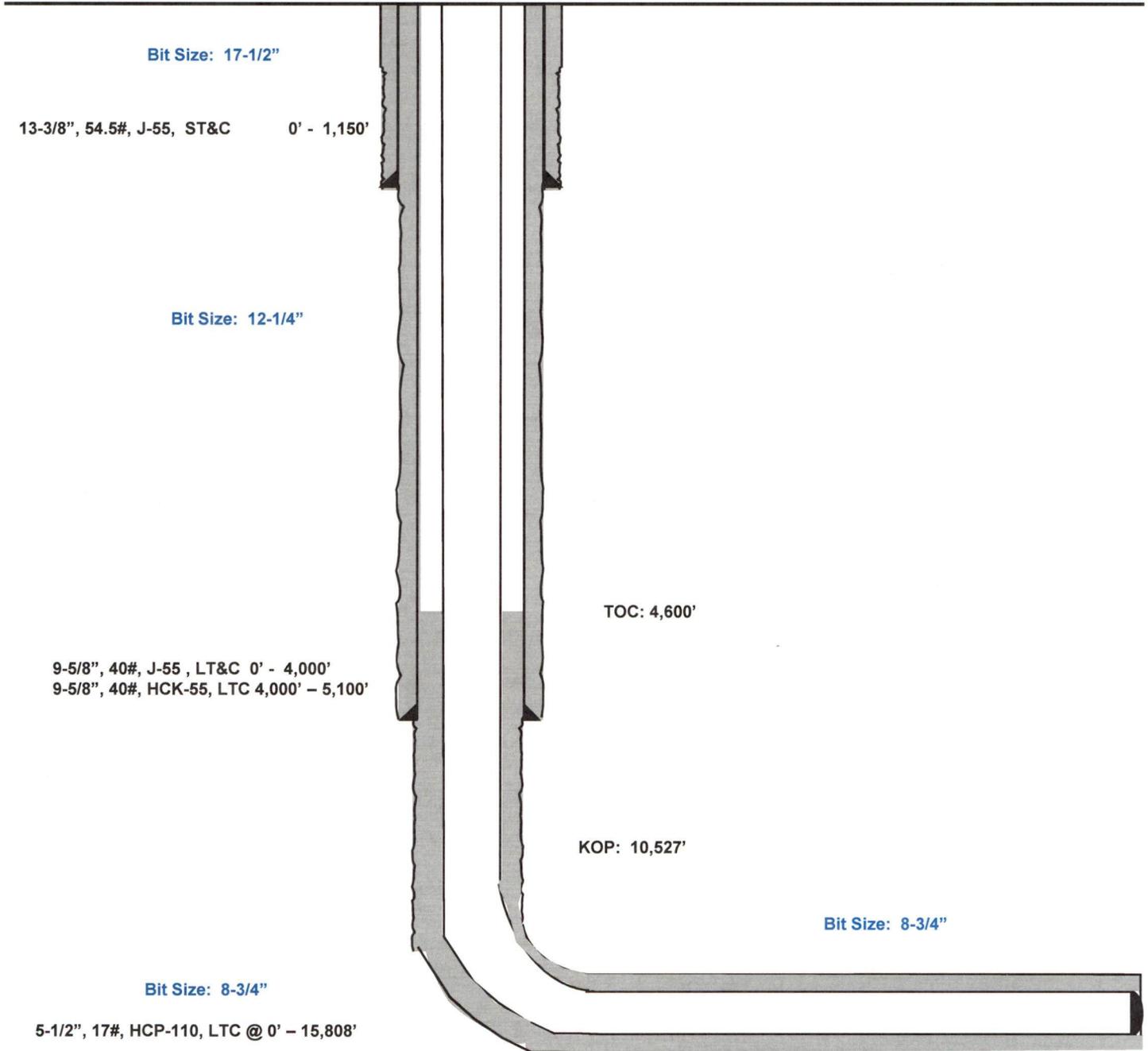
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 5,100'	Brine	8.8-10.0	28-34	N/c
5,100' - 15,808' Lateral	Brine	8.8-10.0	28-34	N/c

Foghorn 32 State Com #501H

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

Lea County, New Mexico
Proposed Wellbore
Revised 7/21/16
API: 30-025-43005

KB: 3,618'
GL: 3,593'



Lateral: 15,808' MD, 11,010' TVD
BH Location: 230' FSL & 330' FEL
Section 32
T-22-S, R-33-E

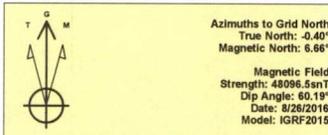
OCD - HOBBS
07/22/2016
RECEIVED



Lea County, NM (NAD 27 NME)

Foghorn 32 State #501H

Plan #0.3



To convert a Magnetic Direction to a Grid Direction, Add 6.66°
To convert a Magnetic Direction to a True Direction, Add 7.06° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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: #501H

Ground Level: 3593.0
KB = 25 @ 3618.0usft
Northing 493618.00 Easting 730850.00 Latitude 32° 21' 17.481 N Longitude 103° 35' 8.732 W

SECTION DETAILS

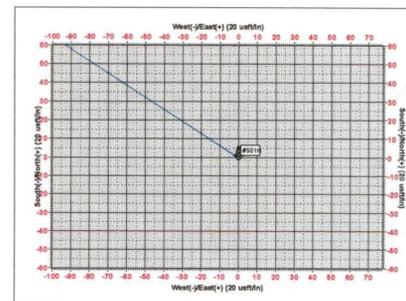
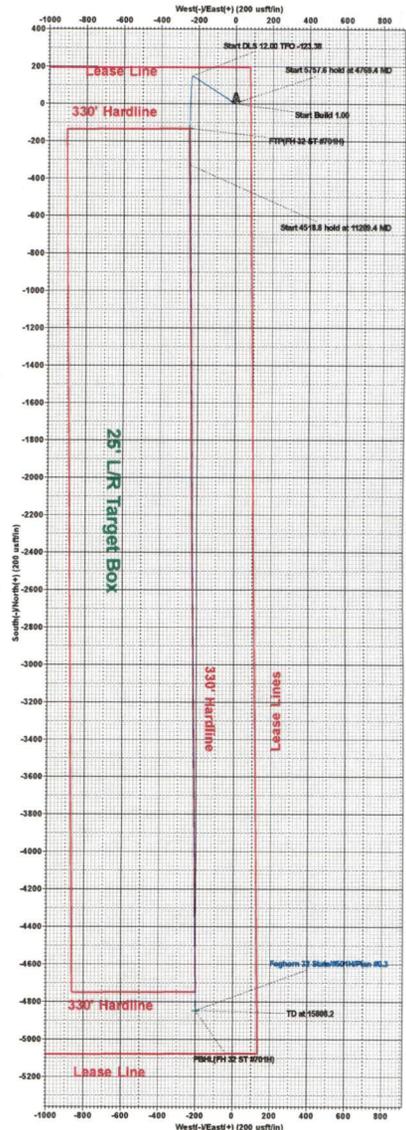
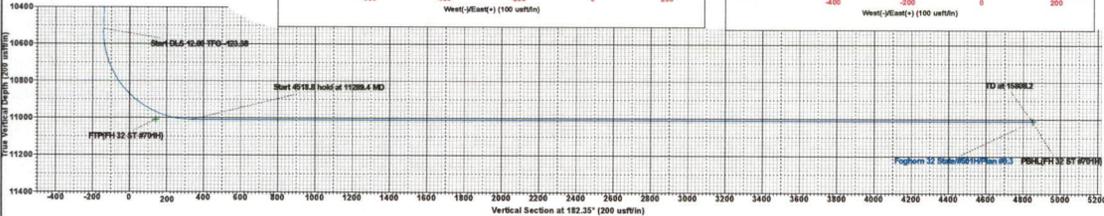
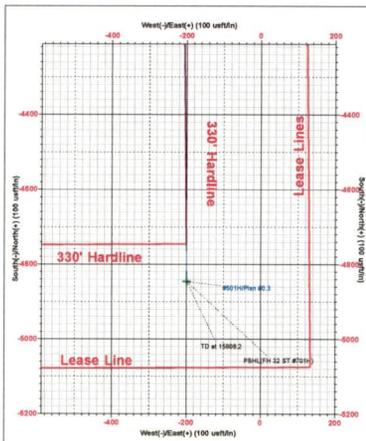
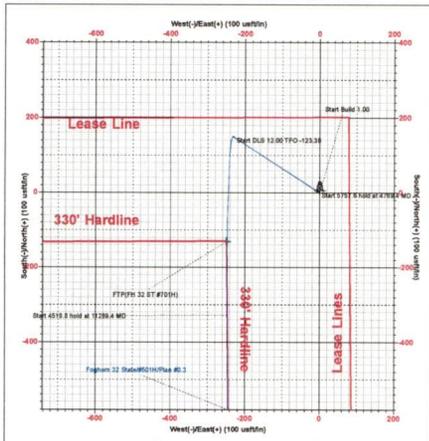
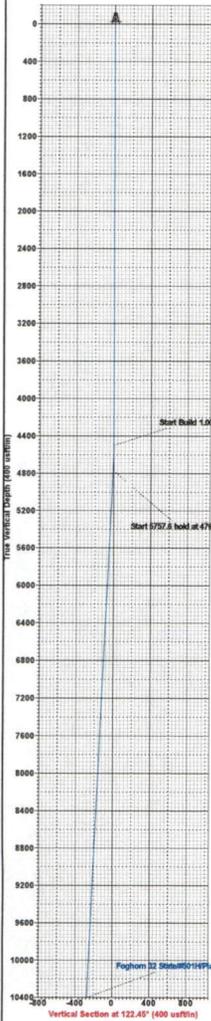
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4769.4	2.69	302.80	4769.3	3.4	-5.3	1.00	302.80	-3.2	
4	10527.0	2.69	302.80	10520.6	150.0	-232.8	0.00	0.00	-140.4	
5	11289.4	90.00	179.39	11010.0	-327.5	-246.9	12.00	-123.38	337.3	
6	15808.2	90.00	179.39	11010.0	-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
FTFPH 32 ST #701H	11010.0	-131.0	-249.0	493487.00	730801.00
PBHL(FH 32 ST #701H)	11010.0	-4846.0	-199.0	498772.00	730651.00



Lea County, NM (NAD 27 NME)
Foghorn 32 State #501H
Plan #0.3
8/26/2016 10:44:00 AM EDT



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Foghorn 32 State

#501H

OH

Plan: Plan #0.3

Standard Planning Report

21 July, 2016



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
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:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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 N
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	#501H					
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 #0.3			
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	
4,769.4	2.69	302.80	4,769.3	3.4	-5.3	1.00	1.00	0.00	302.80	
10,527.0	2.69	302.80	10,520.6	150.0	-232.8	0.00	0.00	0.00	0.00	
11,289.4	90.00	179.39	11,010.0	-327.5	-246.9	12.00	11.45	-16.19	-123.38	
15,808.2	90.00	179.39	11,010.0	-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	Local Co-ordinate Reference:	Well #501H
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:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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	302.80	4,600.0	0.5	-0.7	-0.4	1.00	1.00	0.00	
4,700.0	2.00	302.80	4,700.0	1.9	-2.9	-1.8	1.00	1.00	0.00	
4,769.4	2.69	302.80	4,769.3	3.4	-5.3	-3.2	1.00	1.00	0.00	
4,800.0	2.69	302.80	4,799.9	4.2	-6.5	-3.9	0.00	0.00	0.00	
4,900.0	2.69	302.80	4,899.8	6.8	-10.5	-6.3	0.00	0.00	0.00	
5,000.0	2.69	302.80	4,999.6	9.3	-14.4	-8.7	0.00	0.00	0.00	
5,100.0	2.69	302.80	5,099.5	11.8	-18.4	-11.1	0.00	0.00	0.00	
5,200.0	2.69	302.80	5,199.4	14.4	-22.3	-13.5	0.00	0.00	0.00	



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
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:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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	2.69	302.80	5,299.3	16.9	-26.3	-15.8	0.00	0.00	0.00	
5,400.0	2.69	302.80	5,399.2	19.5	-30.2	-18.2	0.00	0.00	0.00	
5,500.0	2.69	302.80	5,499.1	22.0	-34.2	-20.6	0.00	0.00	0.00	
5,600.0	2.69	302.80	5,599.0	24.6	-38.1	-23.0	0.00	0.00	0.00	
5,700.0	2.69	302.80	5,698.9	27.1	-42.1	-25.4	0.00	0.00	0.00	
5,800.0	2.69	302.80	5,798.8	29.7	-46.0	-27.8	0.00	0.00	0.00	
5,900.0	2.69	302.80	5,898.7	32.2	-50.0	-30.1	0.00	0.00	0.00	
6,000.0	2.69	302.80	5,998.5	34.8	-53.9	-32.5	0.00	0.00	0.00	
6,100.0	2.69	302.80	6,098.4	37.3	-57.9	-34.9	0.00	0.00	0.00	
6,200.0	2.69	302.80	6,198.3	39.9	-61.8	-37.3	0.00	0.00	0.00	
6,300.0	2.69	302.80	6,298.2	42.4	-65.8	-39.7	0.00	0.00	0.00	
6,400.0	2.69	302.80	6,398.1	44.9	-69.7	-42.0	0.00	0.00	0.00	
6,500.0	2.69	302.80	6,498.0	47.5	-73.7	-44.4	0.00	0.00	0.00	
6,600.0	2.69	302.80	6,597.9	50.0	-77.6	-46.8	0.00	0.00	0.00	
6,700.0	2.69	302.80	6,697.8	52.6	-81.6	-49.2	0.00	0.00	0.00	
6,800.0	2.69	302.80	6,797.7	55.1	-85.5	-51.6	0.00	0.00	0.00	
6,900.0	2.69	302.80	6,897.5	57.7	-89.5	-54.0	0.00	0.00	0.00	
7,000.0	2.69	302.80	6,997.4	60.2	-93.4	-56.3	0.00	0.00	0.00	
7,100.0	2.69	302.80	7,097.3	62.8	-97.4	-58.7	0.00	0.00	0.00	
7,200.0	2.69	302.80	7,197.2	65.3	-101.3	-61.1	0.00	0.00	0.00	
7,300.0	2.69	302.80	7,297.1	67.9	-105.3	-63.5	0.00	0.00	0.00	
7,400.0	2.69	302.80	7,397.0	70.4	-109.2	-65.9	0.00	0.00	0.00	
7,500.0	2.69	302.80	7,496.9	73.0	-113.2	-68.3	0.00	0.00	0.00	
7,600.0	2.69	302.80	7,596.8	75.5	-117.1	-70.6	0.00	0.00	0.00	
7,700.0	2.69	302.80	7,696.7	78.0	-121.1	-73.0	0.00	0.00	0.00	
7,800.0	2.69	302.80	7,796.6	80.6	-125.0	-75.4	0.00	0.00	0.00	
7,900.0	2.69	302.80	7,896.4	83.1	-129.0	-77.8	0.00	0.00	0.00	
8,000.0	2.69	302.80	7,996.3	85.7	-132.9	-80.2	0.00	0.00	0.00	
8,100.0	2.69	302.80	8,096.2	88.2	-136.9	-82.5	0.00	0.00	0.00	
8,200.0	2.69	302.80	8,196.1	90.8	-140.8	-84.9	0.00	0.00	0.00	
8,300.0	2.69	302.80	8,296.0	93.3	-144.8	-87.3	0.00	0.00	0.00	
8,400.0	2.69	302.80	8,395.9	95.9	-148.7	-89.7	0.00	0.00	0.00	
8,500.0	2.69	302.80	8,495.8	98.4	-152.7	-92.1	0.00	0.00	0.00	
8,600.0	2.69	302.80	8,595.7	101.0	-156.6	-94.5	0.00	0.00	0.00	
8,700.0	2.69	302.80	8,695.6	103.5	-160.6	-96.8	0.00	0.00	0.00	
8,800.0	2.69	302.80	8,795.4	106.1	-164.5	-99.2	0.00	0.00	0.00	
8,900.0	2.69	302.80	8,895.3	108.6	-168.5	-101.6	0.00	0.00	0.00	
9,000.0	2.69	302.80	8,995.2	111.1	-172.4	-104.0	0.00	0.00	0.00	
9,100.0	2.69	302.80	9,095.1	113.7	-176.4	-106.4	0.00	0.00	0.00	
9,200.0	2.69	302.80	9,195.0	116.2	-180.3	-108.7	0.00	0.00	0.00	
9,300.0	2.69	302.80	9,294.9	118.8	-184.3	-111.1	0.00	0.00	0.00	
9,400.0	2.69	302.80	9,394.8	121.3	-188.2	-113.5	0.00	0.00	0.00	
9,500.0	2.69	302.80	9,494.7	123.9	-192.2	-115.9	0.00	0.00	0.00	
9,600.0	2.69	302.80	9,594.6	126.4	-196.1	-118.3	0.00	0.00	0.00	
9,700.0	2.69	302.80	9,694.5	129.0	-200.1	-120.7	0.00	0.00	0.00	
9,800.0	2.69	302.80	9,794.3	131.5	-204.0	-123.0	0.00	0.00	0.00	
9,900.0	2.69	302.80	9,894.2	134.1	-208.0	-125.4	0.00	0.00	0.00	
10,000.0	2.69	302.80	9,994.1	136.6	-211.9	-127.8	0.00	0.00	0.00	
10,100.0	2.69	302.80	10,094.0	139.2	-215.9	-130.2	0.00	0.00	0.00	
10,200.0	2.69	302.80	10,193.9	141.7	-219.8	-132.6	0.00	0.00	0.00	
10,300.0	2.69	302.80	10,293.8	144.2	-223.8	-134.9	0.00	0.00	0.00	
10,400.0	2.69	302.80	10,393.7	146.8	-227.7	-137.3	0.00	0.00	0.00	
10,500.0	2.69	302.80	10,493.6	149.3	-231.7	-139.7	0.00	0.00	0.00	
10,527.0	2.69	302.80	10,520.6	150.0	-232.8	-140.4	0.00	0.00	0.00	



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
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:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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)
10,550.0	2.59	239.83	10,543.5	150.1	-233.7	-140.3	12.00	-0.47	-274.00
10,575.0	4.83	207.09	10,568.5	148.8	-234.6	-139.1	12.00	8.98	-130.97
10,600.0	7.61	196.48	10,593.3	146.3	-235.6	-136.5	12.00	11.13	-42.44
10,625.0	10.52	191.61	10,618.0	142.5	-236.5	-132.7	12.00	11.61	-19.49
10,650.0	13.46	188.84	10,642.5	137.4	-237.4	-127.5	12.00	11.78	-11.08
10,675.0	16.43	187.05	10,666.6	131.0	-238.3	-121.1	12.00	11.86	-7.15
10,700.0	19.40	185.80	10,690.4	123.4	-239.1	-113.4	12.00	11.90	-5.01
10,725.0	22.38	184.86	10,713.7	114.5	-240.0	-104.5	12.00	11.93	-3.72
10,750.0	25.37	184.14	10,736.6	104.4	-240.8	-94.4	12.00	11.94	-2.89
10,775.0	28.36	183.57	10,758.9	93.1	-241.5	-83.1	12.00	11.95	-2.31
10,800.0	31.35	183.09	10,780.6	80.7	-242.2	-70.7	12.00	11.96	-1.90
10,825.0	34.34	182.69	10,801.6	67.2	-242.9	-57.1	12.00	11.97	-1.60
10,850.0	37.33	182.34	10,821.9	52.5	-243.6	-42.5	12.00	11.97	-1.38
10,875.0	40.33	182.04	10,841.3	36.9	-244.2	-26.8	12.00	11.98	-1.20
10,900.0	43.32	181.78	10,860.0	20.2	-244.7	-10.2	12.00	11.98	-1.06
10,925.0	46.32	181.54	10,877.7	2.6	-245.2	7.5	12.00	11.98	-0.95
10,950.0	49.31	181.33	10,894.5	-15.9	-245.7	26.0	12.00	11.98	-0.86
10,975.0	52.31	181.13	10,910.3	-35.3	-246.1	45.3	12.00	11.98	-0.78
11,000.0	55.31	180.95	10,925.0	-55.5	-246.5	65.5	12.00	11.99	-0.72
11,025.0	58.30	180.78	10,938.7	-76.4	-246.8	86.4	12.00	11.99	-0.67
11,050.0	61.30	180.62	10,951.3	-98.0	-247.0	108.0	12.00	11.99	-0.63
11,075.0	64.30	180.48	10,962.7	-120.2	-247.3	130.2	12.00	11.99	-0.60
11,100.0	67.29	180.33	10,973.0	-143.0	-247.4	153.0	12.00	11.99	-0.57
11,102.2	67.56	180.32	10,973.8	-145.0	-247.4	155.1	12.00	11.99	-0.55
FTP(FH 32 ST #701H)									
11,125.0	70.29	180.20	10,982.0	-166.3	-247.5	176.3	12.00	11.99	-0.54
11,150.0	73.29	180.07	10,989.8	-190.0	-247.6	200.0	12.00	11.99	-0.52
11,175.0	76.29	179.94	10,996.4	-214.2	-247.6	224.1	12.00	11.99	-0.51
11,200.0	79.28	179.82	11,001.7	-238.6	-247.5	248.6	12.00	11.99	-0.49
11,225.0	82.28	179.70	11,005.7	-263.3	-247.4	273.2	12.00	11.99	-0.48
11,250.0	85.28	179.58	11,008.4	-288.1	-247.3	298.0	12.00	11.99	-0.48
11,275.0	88.28	179.46	11,009.8	-313.1	-247.1	323.0	12.00	11.99	-0.47
11,289.4	90.00	179.39	11,010.0	-327.5	-246.9	337.3	12.00	11.99	-0.47
11,300.0	90.00	179.39	11,010.0	-338.1	-246.8	347.9	0.00	0.00	0.00
11,400.0	90.00	179.39	11,010.0	-438.1	-245.7	447.8	0.00	0.00	0.00
11,500.0	90.00	179.39	11,010.0	-538.1	-244.7	547.7	0.00	0.00	0.00
11,600.0	90.00	179.39	11,010.0	-638.1	-243.6	647.5	0.00	0.00	0.00
11,700.0	90.00	179.39	11,010.0	-738.1	-242.6	747.4	0.00	0.00	0.00
11,800.0	90.00	179.39	11,010.0	-838.1	-241.5	847.3	0.00	0.00	0.00
11,900.0	90.00	179.39	11,010.0	-938.0	-240.4	947.1	0.00	0.00	0.00
12,000.0	90.00	179.39	11,010.0	-1,038.0	-239.4	1,047.0	0.00	0.00	0.00
12,100.0	90.00	179.39	11,010.0	-1,138.0	-238.3	1,146.9	0.00	0.00	0.00
12,200.0	90.00	179.39	11,010.0	-1,238.0	-237.3	1,246.7	0.00	0.00	0.00
12,300.0	90.00	179.39	11,010.0	-1,338.0	-236.2	1,346.6	0.00	0.00	0.00
12,400.0	90.00	179.39	11,010.0	-1,438.0	-235.1	1,446.5	0.00	0.00	0.00
12,500.0	90.00	179.39	11,010.0	-1,538.0	-234.1	1,546.3	0.00	0.00	0.00
12,600.0	90.00	179.39	11,010.0	-1,638.0	-233.0	1,646.2	0.00	0.00	0.00
12,700.0	90.00	179.39	11,010.0	-1,738.0	-232.0	1,746.1	0.00	0.00	0.00
12,800.0	90.00	179.39	11,010.0	-1,838.0	-230.9	1,845.9	0.00	0.00	0.00
12,900.0	90.00	179.39	11,010.0	-1,938.0	-229.8	1,945.8	0.00	0.00	0.00
13,000.0	90.00	179.39	11,010.0	-2,038.0	-228.8	2,045.7	0.00	0.00	0.00
13,100.0	90.00	179.39	11,010.0	-2,138.0	-227.7	2,145.5	0.00	0.00	0.00
13,200.0	90.00	179.39	11,010.0	-2,238.0	-226.7	2,245.4	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
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:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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	11,010.0	-2,338.0	-225.6	2,345.3	0.00	0.00	0.00	
13,400.0	90.00	179.39	11,010.0	-2,438.0	-224.5	2,445.1	0.00	0.00	0.00	
13,500.0	90.00	179.39	11,010.0	-2,538.0	-223.5	2,545.0	0.00	0.00	0.00	
13,600.0	90.00	179.39	11,010.0	-2,637.9	-222.4	2,644.9	0.00	0.00	0.00	
13,700.0	90.00	179.39	11,010.0	-2,737.9	-221.4	2,744.7	0.00	0.00	0.00	
13,800.0	90.00	179.39	11,010.0	-2,837.9	-220.3	2,844.6	0.00	0.00	0.00	
13,900.0	90.00	179.39	11,010.0	-2,937.9	-219.2	2,944.5	0.00	0.00	0.00	
14,000.0	90.00	179.39	11,010.0	-3,037.9	-218.2	3,044.3	0.00	0.00	0.00	
14,100.0	90.00	179.39	11,010.0	-3,137.9	-217.1	3,144.2	0.00	0.00	0.00	
14,200.0	90.00	179.39	11,010.0	-3,237.9	-216.1	3,244.1	0.00	0.00	0.00	
14,300.0	90.00	179.39	11,010.0	-3,337.9	-215.0	3,343.9	0.00	0.00	0.00	
14,400.0	90.00	179.39	11,010.0	-3,437.9	-213.9	3,443.8	0.00	0.00	0.00	
14,500.0	90.00	179.39	11,010.0	-3,537.9	-212.9	3,543.7	0.00	0.00	0.00	
14,600.0	90.00	179.39	11,010.0	-3,637.9	-211.8	3,643.5	0.00	0.00	0.00	
14,700.0	90.00	179.39	11,010.0	-3,737.9	-210.8	3,743.4	0.00	0.00	0.00	
14,800.0	90.00	179.39	11,010.0	-3,837.9	-209.7	3,843.3	0.00	0.00	0.00	
14,900.0	90.00	179.39	11,010.0	-3,937.9	-208.6	3,943.1	0.00	0.00	0.00	
15,000.0	90.00	179.39	11,010.0	-4,037.9	-207.6	4,043.0	0.00	0.00	0.00	
15,100.0	90.00	179.39	11,010.0	-4,137.9	-206.5	4,142.9	0.00	0.00	0.00	
15,200.0	90.00	179.39	11,010.0	-4,237.9	-205.4	4,242.7	0.00	0.00	0.00	
15,300.0	90.00	179.39	11,010.0	-4,337.9	-204.4	4,342.6	0.00	0.00	0.00	
15,400.0	90.00	179.39	11,010.0	-4,437.8	-203.3	4,442.5	0.00	0.00	0.00	
15,500.0	90.00	179.39	11,010.0	-4,537.8	-202.3	4,542.3	0.00	0.00	0.00	
15,600.0	90.00	179.39	11,010.0	-4,637.8	-201.2	4,642.2	0.00	0.00	0.00	
15,700.0	90.00	179.39	11,010.0	-4,737.8	-200.1	4,742.1	0.00	0.00	0.00	
15,808.2	90.00	179.39	11,010.0	-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	
PBHL(FH 32 ST #701H) - hit/miss target - Shape - Point	0.00	0.00	11,010.0	-4,846.0	-199.0	488,772.00	730,651.00	32° 20' 29.541 N	103° 35' 11.446 W	
FTP(FH 32 ST #701H) - plan misses target center by 38.8usft at 11102.2usft MD (10973.8 TVD, -145.0 N, -247.4 E) - Point	0.00	0.00	11,010.0	-131.0	-249.0	493,487.00	730,601.00	32° 21' 16.201 N	103° 35' 11.645 W	