

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

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-43004	✓
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 Leghorn 32 State	✓
8. Well Number 501H	✓
9. OGRID Number 7377	✓
10. Pool name or Wildcat <u>*WC-025-G-06-S2234211 - Bone Spring</u>	✓
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3591' 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.** **06/29/2016 RECEIVED**

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

4. Well Location
Unit Letter A : 200 feet from the North line and 50 feet from the East line
Section 32 Township 22S Range 33E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3591' GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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, BHL, casing design, and well number as shown on the attachments.

TVD change from 17023' MD, 12220' TVD (Wolfcamp) TO: 15810' MD, 11010' TVD (2nd BS Sand)

New casing design attached.

Additionally, EOG requests the well number be changed from 701H 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 6/29/2016
Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689
For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 06/29/2016
Conditions of Approval (if any):

KZ

Revised Permit Information 6/29/16:**OCD – HOBBS****06/29/2016****RECEIVED**

Well Name: Leghorn 32 State No. 501H

Location:

SL: 200' FNL & 50' FEL, Section 32, T-22-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 330' FWL, Section 33, 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' – 15,810'	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
15,810'	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' – 10,533'	Brine	8.8-10.0	28-34	N/c
10,533' – 15,810' Lateral	Brine	8.8-10.0	28-34	N/c

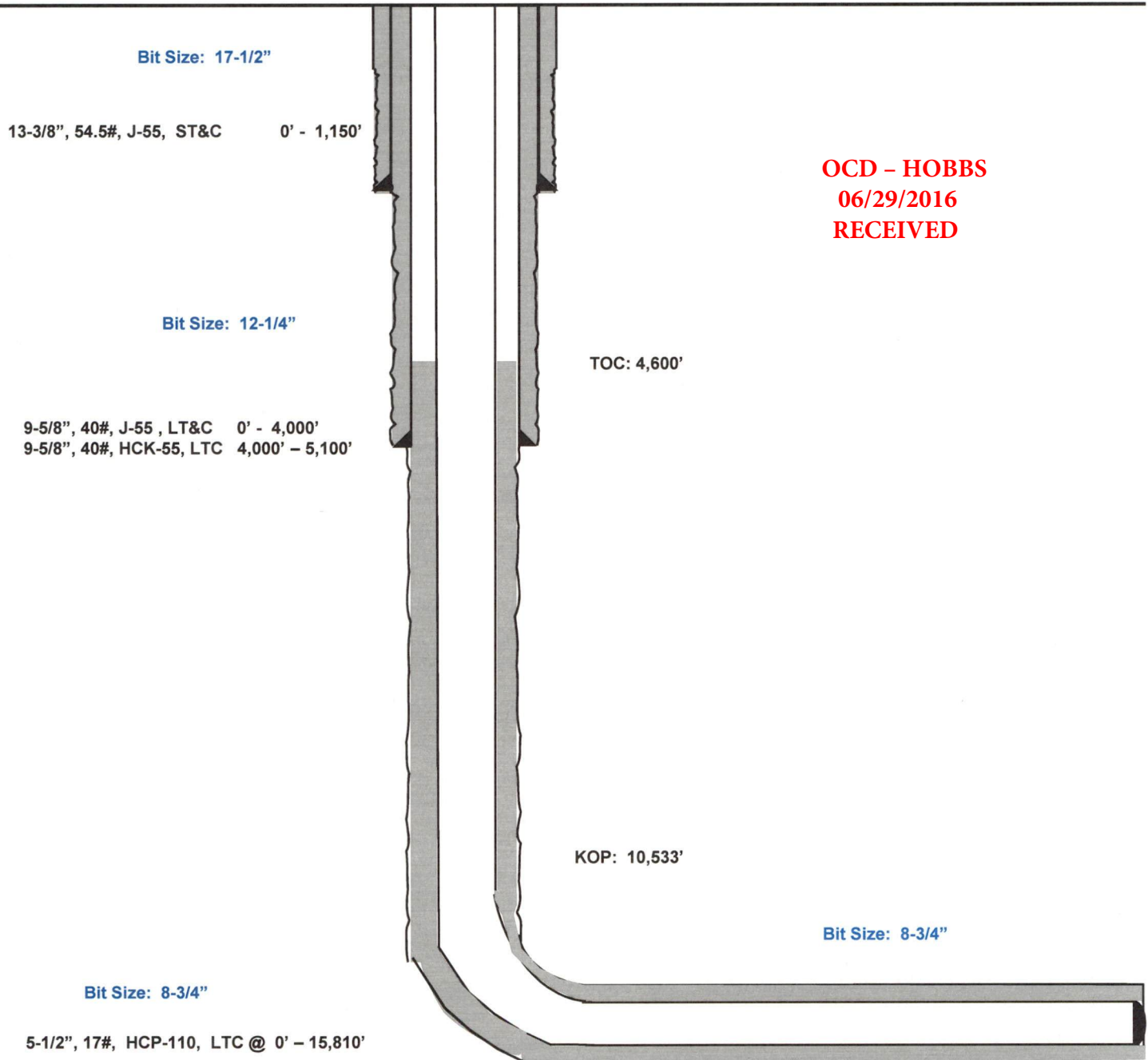
Leghorn 32 State #501H

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

Lea County, New Mexico
Proposed Wellbore
Revised 6/29/16
API: 30-025-43004

KB: 3,616'
GL: 3,591'

OCD - HOBBS
06/29/2016
RECEIVED



Lateral: 15,810' MD, 11,010' TVD

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



Lea County, NM (NAD 27 NME)

Leghorn 32 State #501H

Plan #0.2

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: 3591.0
KB = 25 @ 3616.0usft
Northing 493618.00 Easting 730890.00 Latitude 32° 21' 17.478 N Longitude 103° 35' 5.382 W

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.64°

Magnetic Field
Strength: 45083.0snT
Dip Angle: 60.19°
Date: 10/13/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.64°
To convert a Magnetic Direction to a True Direction, Add 7.04° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

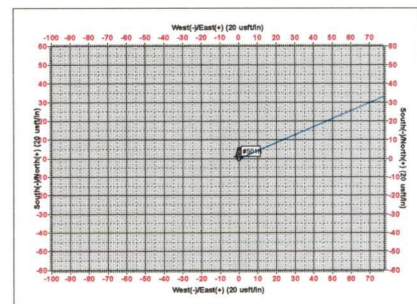
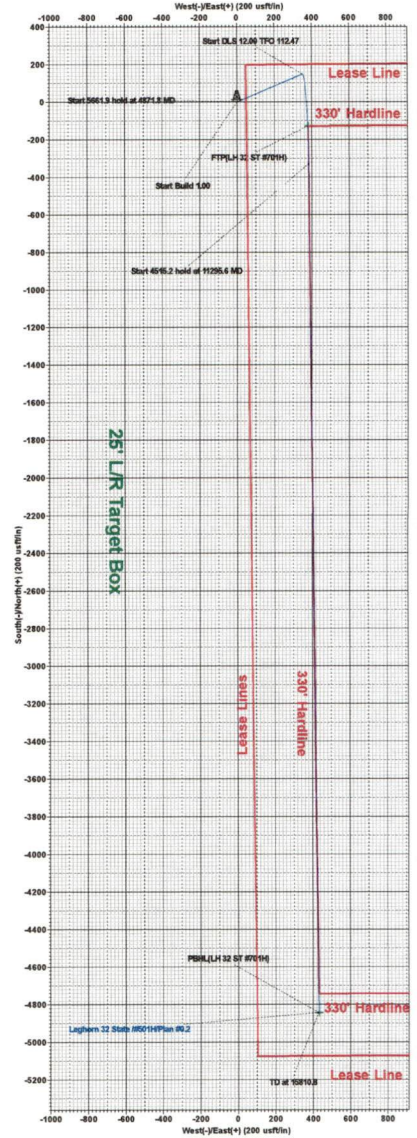
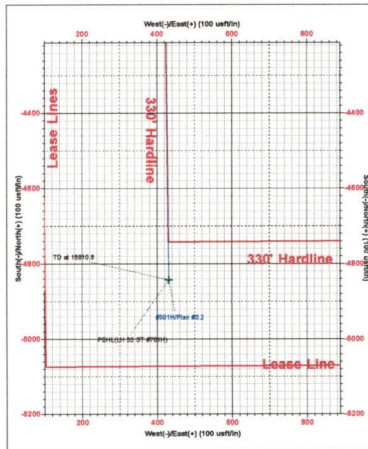
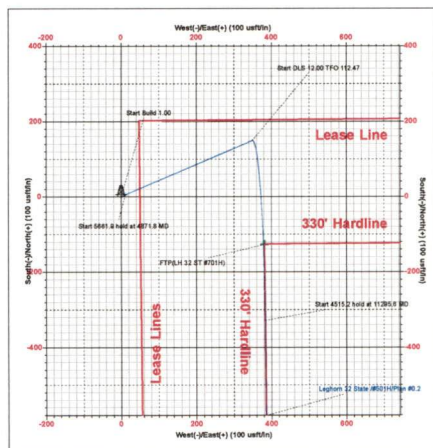
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4871.8	3.72	66.88	4871.5	4.7	11.1	1.00	66.88	-3.7	
4	10533.7	3.72	66.88	10521.6	148.9	348.8	0.00	0.00	-117.4	
5	11295.6	90.00	179.39	11010.0	-328.1	383.1	12.00	112.47	360.7	
6	15810.8	90.00	179.39	11010.0	-4843.0	431.0	0.00	0.00	4862.1	PBHL(LH 32 ST #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTPL(LH 32 ST #701H)	11010.0	-127.0	391.0	483491.00	731261.00
PBHL(LH 32 ST #701H)	11010.0	-4843.0	431.0	488775.00	731311.00



Lea County, NM (NAD 27 NME)
Leghorn 32 State #501H
Plan #0.2
10/13/2016



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Leghorn 32 State

#501H

OH

Plan: Plan #0.2

Standard Planning Report

28 June, 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 @ 3616.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3616.0usft
Site:	Leghorn 32 State	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	Leghorn 32 State		
Site Position:		Northing:	493,618.00 usft
From:	Map	Easting:	730,880.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 17.478 N
		Longitude:	103° 35' 8.382 W
		Grid Convergence:	0.40 °

Well	#501H		
Well Position	+N/-S	0.0 usft	Northing: 493,618.00 usft
	+E/-W	0.0 usft	Easting: 730,880.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 21' 17.478 N
		Longitude:	103° 35' 8.382 W
		Ground Level:	3,591.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/13/2016	7.04	60.19	48,083

Design	Plan #0.2			
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	174.91

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	
4,871.8	3.72	66.88	4,871.5	4.7	11.1	1.00	1.00	0.00	66.88	
10,533.7	3.72	66.88	10,521.6	148.9	348.8	0.00	0.00	0.00	0.00	
11,295.6	90.00	179.39	11,010.0	-328.1	383.1	12.00	11.33	14.77	112.47	
15,810.8	90.00	179.39	11,010.0	-4,843.0	431.0	0.00	0.00	0.00	0.00	PBHL(LH 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 @ 3616.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3616.0usft
Site:	Leghorn 32 State	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	66.88	4,600.0	0.3	0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	66.88	4,700.0	1.4	3.2	-1.1	1.00	1.00	0.00
4,800.0	3.00	66.88	4,799.9	3.1	7.2	-2.4	1.00	1.00	0.00
4,871.8	3.72	66.88	4,871.5	4.7	11.1	-3.7	1.00	1.00	0.00
4,900.0	3.72	66.88	4,899.7	5.5	12.8	-4.3	0.00	0.00	0.00
5,000.0	3.72	66.88	4,999.5	8.0	18.7	-6.3	0.00	0.00	0.00
5,100.0	3.72	66.88	5,099.3	10.5	24.7	-8.3	0.00	0.00	0.00
5,200.0	3.72	66.88	5,199.0	13.1	30.7	-10.3	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 @ 3616.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3616.0usft
Site:	Leghorn 32 State	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	3.72	66.88	5,298.8	15.6	36.6	-12.3	0.00	0.00	0.00
5,400.0	3.72	66.88	5,398.6	18.2	42.6	-14.3	0.00	0.00	0.00
5,500.0	3.72	66.88	5,498.4	20.7	48.6	-16.3	0.00	0.00	0.00
5,600.0	3.72	66.88	5,598.2	23.3	54.5	-18.4	0.00	0.00	0.00
5,700.0	3.72	66.88	5,698.0	25.8	60.5	-20.4	0.00	0.00	0.00
5,800.0	3.72	66.88	5,797.8	28.4	66.4	-22.4	0.00	0.00	0.00
5,900.0	3.72	66.88	5,897.6	30.9	72.4	-24.4	0.00	0.00	0.00
6,000.0	3.72	66.88	5,997.4	33.5	78.4	-26.4	0.00	0.00	0.00
6,100.0	3.72	66.88	6,097.2	36.0	84.3	-28.4	0.00	0.00	0.00
6,200.0	3.72	66.88	6,196.9	38.6	90.3	-30.4	0.00	0.00	0.00
6,300.0	3.72	66.88	6,296.7	41.1	96.3	-32.4	0.00	0.00	0.00
6,400.0	3.72	66.88	6,396.5	43.7	102.2	-34.4	0.00	0.00	0.00
6,500.0	3.72	66.88	6,496.3	46.2	108.2	-36.4	0.00	0.00	0.00
6,600.0	3.72	66.88	6,596.1	48.7	114.2	-38.4	0.00	0.00	0.00
6,700.0	3.72	66.88	6,695.9	51.3	120.1	-40.4	0.00	0.00	0.00
6,800.0	3.72	66.88	6,795.7	53.8	126.1	-42.5	0.00	0.00	0.00
6,900.0	3.72	66.88	6,895.5	56.4	132.0	-44.5	0.00	0.00	0.00
7,000.0	3.72	66.88	6,995.3	58.9	138.0	-46.5	0.00	0.00	0.00
7,100.0	3.72	66.88	7,095.0	61.5	144.0	-48.5	0.00	0.00	0.00
7,200.0	3.72	66.88	7,194.8	64.0	149.9	-50.5	0.00	0.00	0.00
7,300.0	3.72	66.88	7,294.6	66.6	155.9	-52.5	0.00	0.00	0.00
7,400.0	3.72	66.88	7,394.4	69.1	161.9	-54.5	0.00	0.00	0.00
7,500.0	3.72	66.88	7,494.2	71.7	167.8	-56.5	0.00	0.00	0.00
7,600.0	3.72	66.88	7,594.0	74.2	173.8	-58.5	0.00	0.00	0.00
7,700.0	3.72	66.88	7,693.8	76.8	179.8	-60.5	0.00	0.00	0.00
7,800.0	3.72	66.88	7,793.6	79.3	185.7	-62.5	0.00	0.00	0.00
7,900.0	3.72	66.88	7,893.4	81.9	191.7	-64.5	0.00	0.00	0.00
8,000.0	3.72	66.88	7,993.2	84.4	197.6	-66.5	0.00	0.00	0.00
8,100.0	3.72	66.88	8,092.9	86.9	203.6	-68.6	0.00	0.00	0.00
8,200.0	3.72	66.88	8,192.7	89.5	209.6	-70.6	0.00	0.00	0.00
8,300.0	3.72	66.88	8,292.5	92.0	215.5	-72.6	0.00	0.00	0.00
8,400.0	3.72	66.88	8,392.3	94.6	221.5	-74.6	0.00	0.00	0.00
8,500.0	3.72	66.88	8,492.1	97.1	227.5	-76.6	0.00	0.00	0.00
8,600.0	3.72	66.88	8,591.9	99.7	233.4	-78.6	0.00	0.00	0.00
8,700.0	3.72	66.88	8,691.7	102.2	239.4	-80.6	0.00	0.00	0.00
8,800.0	3.72	66.88	8,791.5	104.8	245.4	-82.6	0.00	0.00	0.00
8,900.0	3.72	66.88	8,891.3	107.3	251.3	-84.6	0.00	0.00	0.00
9,000.0	3.72	66.88	8,991.1	109.9	257.3	-86.6	0.00	0.00	0.00
9,100.0	3.72	66.88	9,090.8	112.4	263.2	-88.6	0.00	0.00	0.00
9,200.0	3.72	66.88	9,190.6	115.0	269.2	-90.6	0.00	0.00	0.00
9,300.0	3.72	66.88	9,290.4	117.5	275.2	-92.7	0.00	0.00	0.00
9,400.0	3.72	66.88	9,390.2	120.1	281.1	-94.7	0.00	0.00	0.00
9,500.0	3.72	66.88	9,490.0	122.6	287.1	-96.7	0.00	0.00	0.00
9,600.0	3.72	66.88	9,589.8	125.1	293.1	-98.7	0.00	0.00	0.00
9,700.0	3.72	66.88	9,689.6	127.7	299.0	-100.7	0.00	0.00	0.00
9,800.0	3.72	66.88	9,789.4	130.2	305.0	-102.7	0.00	0.00	0.00
9,900.0	3.72	66.88	9,889.2	132.8	311.0	-104.7	0.00	0.00	0.00
10,000.0	3.72	66.88	9,988.9	135.3	316.9	-106.7	0.00	0.00	0.00
10,100.0	3.72	66.88	10,088.7	137.9	322.9	-108.7	0.00	0.00	0.00
10,200.0	3.72	66.88	10,188.5	140.4	328.8	-110.7	0.00	0.00	0.00
10,300.0	3.72	66.88	10,288.3	143.0	334.8	-112.7	0.00	0.00	0.00
10,400.0	3.72	66.88	10,388.1	145.5	340.8	-114.7	0.00	0.00	0.00
10,500.0	3.72	66.88	10,487.9	148.1	346.7	-116.7	0.00	0.00	0.00
10,533.7	3.72	66.88	10,521.6	148.9	348.8	-117.4	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 @ 3616.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3616.0usft
Site:	Leghorn 32 State	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	3.48	98.15	10,537.8	149.1	349.7	-117.5	12.00	-1.49	192.27
10,575.0	4.92	135.21	10,562.7	148.2	351.2	-116.5	12.00	5.79	148.27
10,600.0	7.37	151.76	10,587.6	146.0	352.7	-114.2	12.00	9.80	66.17
10,625.0	10.12	159.75	10,612.3	142.5	354.3	-110.6	12.00	11.00	31.96
10,650.0	12.98	164.30	10,636.8	137.8	355.8	-105.7	12.00	11.44	18.22
10,675.0	15.90	167.22	10,661.0	131.7	357.3	-99.5	12.00	11.64	11.69
10,700.0	18.83	169.26	10,684.8	124.4	358.8	-92.1	12.00	11.75	8.13
10,725.0	21.79	170.76	10,708.3	115.9	360.3	-83.5	12.00	11.82	6.00
10,750.0	24.75	171.91	10,731.3	106.1	361.8	-73.6	12.00	11.86	4.62
10,775.0	27.73	172.83	10,753.7	95.2	363.3	-62.6	12.00	11.89	3.69
10,800.0	30.70	173.59	10,775.5	83.0	364.7	-50.4	12.00	11.91	3.03
10,825.0	33.68	174.23	10,796.6	69.8	366.1	-37.1	12.00	11.92	2.54
10,850.0	36.67	174.77	10,817.1	55.5	367.5	-22.7	12.00	11.93	2.17
10,875.0	39.65	175.24	10,836.7	40.1	368.8	-7.2	12.00	11.94	1.89
10,900.0	42.64	175.65	10,855.6	23.7	370.1	9.2	12.00	11.95	1.66
10,925.0	45.63	176.03	10,873.5	6.3	371.4	26.6	12.00	11.96	1.48
10,950.0	48.62	176.36	10,890.5	-11.9	372.6	44.9	12.00	11.96	1.34
10,975.0	51.61	176.67	10,906.5	-31.1	373.8	64.1	12.00	11.96	1.22
11,000.0	54.60	176.95	10,921.5	-51.1	374.9	84.1	12.00	11.97	1.12
11,025.0	57.59	177.21	10,935.5	-71.8	375.9	104.8	12.00	11.97	1.04
11,050.0	60.59	177.45	10,948.3	-93.2	376.9	126.2	12.00	11.97	0.98
11,075.0	63.58	177.68	10,960.0	-115.3	377.9	148.3	12.00	11.97	0.92
11,100.0	66.57	177.90	10,970.6	-137.9	378.7	171.0	12.00	11.97	0.87
11,104.7	67.13	177.94	10,972.4	-142.2	378.9	175.2	12.00	11.97	0.85
FTP(LH 32 ST #701H)									
11,125.0	69.57	178.11	10,979.9	-161.1	379.6	194.1	12.00	11.98	0.83
11,150.0	72.56	178.31	10,988.0	-184.7	380.3	217.7	12.00	11.98	0.80
11,175.0	75.56	178.51	10,994.9	-208.8	381.0	241.7	12.00	11.98	0.78
11,200.0	78.55	178.70	11,000.5	-233.1	381.6	266.0	12.00	11.98	0.76
11,225.0	81.54	178.88	11,004.8	-257.7	382.1	290.6	12.00	11.98	0.74
11,250.0	84.54	179.06	11,007.8	-282.5	382.5	315.3	12.00	11.98	0.73
11,275.0	87.53	179.24	11,009.6	-307.5	382.9	340.2	12.00	11.98	0.72
11,295.6	90.00	179.39	11,010.0	-328.1	383.1	360.7	12.00	11.98	0.72
11,300.0	90.00	179.39	11,010.0	-332.5	383.2	365.1	0.00	0.00	0.00
11,400.0	90.00	179.39	11,010.0	-432.5	384.2	464.8	0.00	0.00	0.00
11,500.0	90.00	179.39	11,010.0	-532.4	385.3	564.5	0.00	0.00	0.00
11,600.0	90.00	179.39	11,010.0	-632.4	386.4	664.2	0.00	0.00	0.00
11,700.0	90.00	179.39	11,010.0	-732.4	387.4	763.9	0.00	0.00	0.00
11,800.0	90.00	179.39	11,010.0	-832.4	388.5	863.6	0.00	0.00	0.00
11,900.0	90.00	179.39	11,010.0	-932.4	389.5	963.3	0.00	0.00	0.00
12,000.0	90.00	179.39	11,010.0	-1,032.4	390.6	1,063.0	0.00	0.00	0.00
12,100.0	90.00	179.39	11,010.0	-1,132.4	391.7	1,162.7	0.00	0.00	0.00
12,200.0	90.00	179.39	11,010.0	-1,232.4	392.7	1,262.4	0.00	0.00	0.00
12,300.0	90.00	179.39	11,010.0	-1,332.4	393.8	1,362.1	0.00	0.00	0.00
12,400.0	90.00	179.39	11,010.0	-1,432.4	394.8	1,461.8	0.00	0.00	0.00
12,500.0	90.00	179.39	11,010.0	-1,532.4	395.9	1,561.5	0.00	0.00	0.00
12,600.0	90.00	179.39	11,010.0	-1,632.4	397.0	1,661.1	0.00	0.00	0.00
12,700.0	90.00	179.39	11,010.0	-1,732.4	398.0	1,760.8	0.00	0.00	0.00
12,800.0	90.00	179.39	11,010.0	-1,832.4	399.1	1,860.5	0.00	0.00	0.00
12,900.0	90.00	179.39	11,010.0	-1,932.4	400.1	1,960.2	0.00	0.00	0.00
13,000.0	90.00	179.39	11,010.0	-2,032.4	401.2	2,059.9	0.00	0.00	0.00
13,100.0	90.00	179.39	11,010.0	-2,132.4	402.3	2,159.6	0.00	0.00	0.00
13,200.0	90.00	179.39	11,010.0	-2,232.4	403.3	2,259.3	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 @ 3616.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3616.0usft
Site:	Leghorn 32 State	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	-2,332.3	404.4	2,359.0	0.00	0.00	0.00
13,400.0	90.00	179.39	11,010.0	-2,432.3	405.4	2,458.7	0.00	0.00	0.00
13,500.0	90.00	179.39	11,010.0	-2,532.3	406.5	2,558.4	0.00	0.00	0.00
13,600.0	90.00	179.39	11,010.0	-2,632.3	407.6	2,658.1	0.00	0.00	0.00
13,700.0	90.00	179.39	11,010.0	-2,732.3	408.6	2,757.8	0.00	0.00	0.00
13,800.0	90.00	179.39	11,010.0	-2,832.3	409.7	2,857.5	0.00	0.00	0.00
13,900.0	90.00	179.39	11,010.0	-2,932.3	410.7	2,957.2	0.00	0.00	0.00
14,000.0	90.00	179.39	11,010.0	-3,032.3	411.8	3,056.9	0.00	0.00	0.00
14,100.0	90.00	179.39	11,010.0	-3,132.3	412.9	3,156.6	0.00	0.00	0.00
14,200.0	90.00	179.39	11,010.0	-3,232.3	413.9	3,256.3	0.00	0.00	0.00
14,300.0	90.00	179.39	11,010.0	-3,332.3	415.0	3,356.0	0.00	0.00	0.00
14,400.0	90.00	179.39	11,010.0	-3,432.3	416.0	3,455.7	0.00	0.00	0.00
14,500.0	90.00	179.39	11,010.0	-3,532.3	417.1	3,555.3	0.00	0.00	0.00
14,600.0	90.00	179.39	11,010.0	-3,632.3	418.2	3,655.0	0.00	0.00	0.00
14,700.0	90.00	179.39	11,010.0	-3,732.3	419.2	3,754.7	0.00	0.00	0.00
14,800.0	90.00	179.39	11,010.0	-3,832.3	420.3	3,854.4	0.00	0.00	0.00
14,900.0	90.00	179.39	11,010.0	-3,932.3	421.3	3,954.1	0.00	0.00	0.00
15,000.0	90.00	179.39	11,010.0	-4,032.3	422.4	4,053.8	0.00	0.00	0.00
15,100.0	90.00	179.39	11,010.0	-4,132.2	423.5	4,153.5	0.00	0.00	0.00
15,200.0	90.00	179.39	11,010.0	-4,232.2	424.5	4,253.2	0.00	0.00	0.00
15,300.0	90.00	179.39	11,010.0	-4,332.2	425.6	4,352.9	0.00	0.00	0.00
15,400.0	90.00	179.39	11,010.0	-4,432.2	426.6	4,452.6	0.00	0.00	0.00
15,500.0	90.00	179.39	11,010.0	-4,532.2	427.7	4,552.3	0.00	0.00	0.00
15,600.0	90.00	179.39	11,010.0	-4,632.2	428.8	4,652.0	0.00	0.00	0.00
15,700.0	90.00	179.39	11,010.0	-4,732.2	429.8	4,751.7	0.00	0.00	0.00
15,800.0	90.00	179.39	11,010.0	-4,832.2	430.9	4,851.4	0.00	0.00	0.00
15,810.8	90.00	179.39	11,010.0	-4,843.0	431.0	4,862.1	0.00	0.00	0.00
PBHL(LH 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									
FTP(LH 32 ST #701H)	0.00	0.01	11,010.0	-127.0	381.0	493,491.00	731,261.00	32° 21' 16.195 N	103° 35' 3.951 W
- plan misses target center by 40.6usft at 11104.7usft MD (10972.4 TVD, -142.2 N, 378.9 E)									
- Point									
PBHL(LH 32 ST #701H)	0.00	0.01	11,010.0	-4,843.0	431.0	488,775.00	731,311.00	32° 20' 29.526 N	103° 35' 3.753 W
- plan hits target center									
- Point									