

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 201H	
9. OGRID Number 7377 ✓	
10. Pool name or Wildcat Red Tank; Bone Spring, East	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3591' GR	

SUNDY 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 07/22/2016 RECEIVED** ✓

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 50 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 15810' MD, 11010' TVD (2nd BS Sand) TO: 14296' MD, 9491' TVD (Upper BS Shale)

Additionally, EOG requests the well number be changed from 501H to 201H to reflect a Upper BS Shale 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:

Well Name: Leghorn 32 State No. 201H

OCD - HOBBS
07/22/2016
RECEIVED**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' - 14,296'	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
14,296'	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:

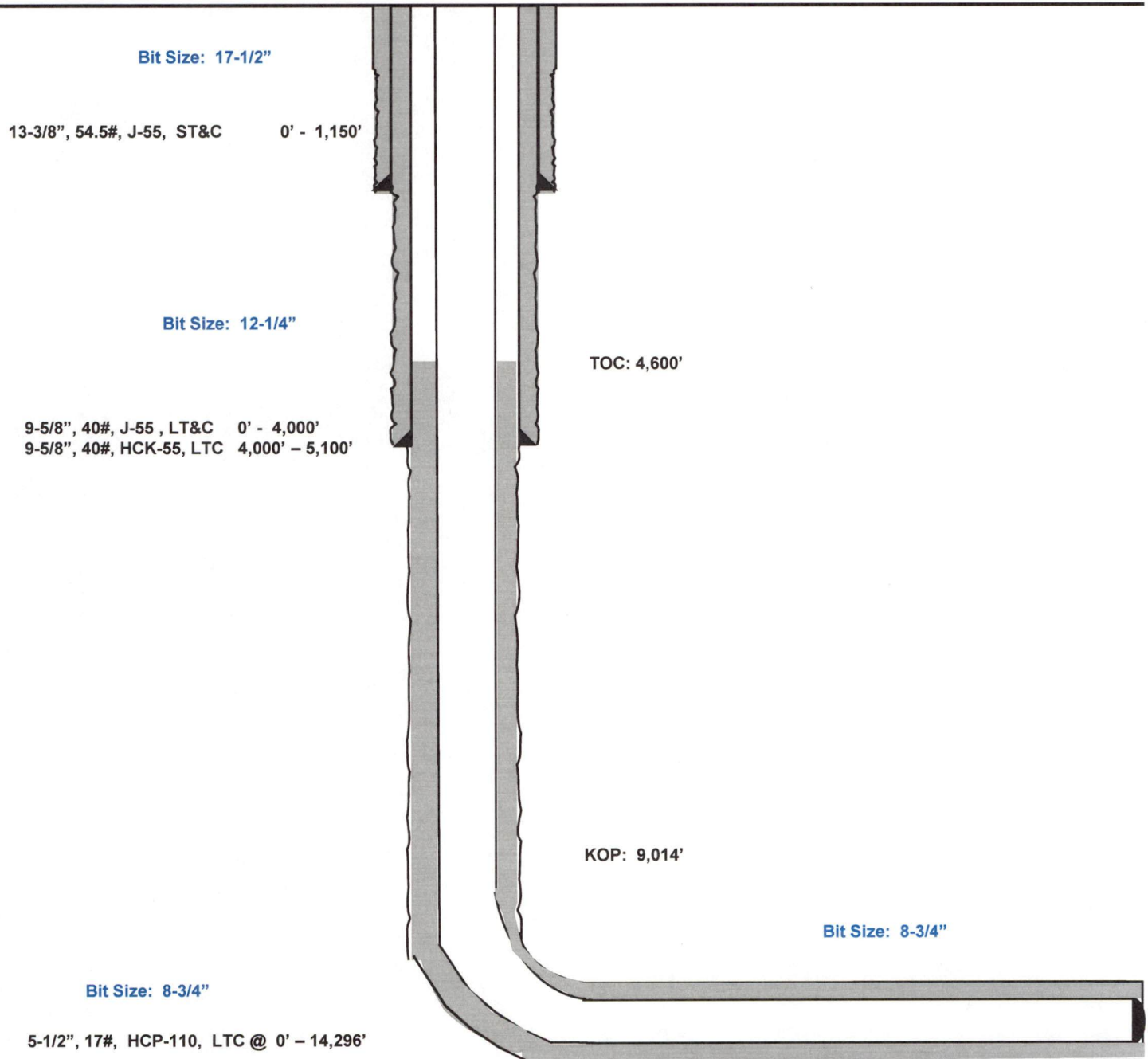
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 5,100'	Brine	8.8-10.0	28-34	N/c
5,100' - 9,014'	Brine	8.8-10.0	28-34	N/c
9,014' - 14,296' Lateral	Brine	8.8-10.0	28-34	N/c

Leghorn 32 State #201H

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

Lea County, New Mexico
Proposed Wellbore
Revised 7/21/16
API: 30-025-43004

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



Lateral: 14,296' MD, 9,491' TVD

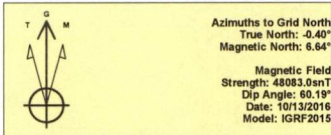
BH Location: 230' FSL & 330' FWL
Section 33
T-22-S, R-33-E



Lea County, NM (NAD 27 NME)

Leghorn 32 State #201H

Plan #0.3



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°

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: #201H

Ground Level: 3591.0
KB = 25 @ 3616.0usft
Northing: 493618.00
Easting: 730880.00
Latitude: 32° 21' 17.478 N
Longitude: 103° 35' 8.382 W

SECTION DETAILS

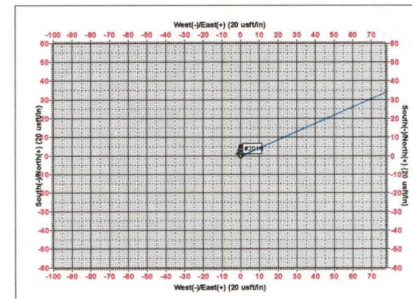
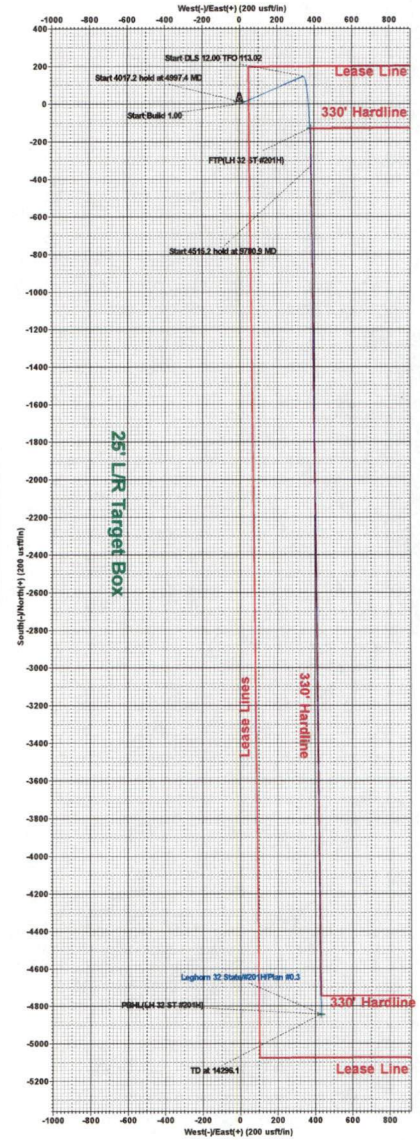
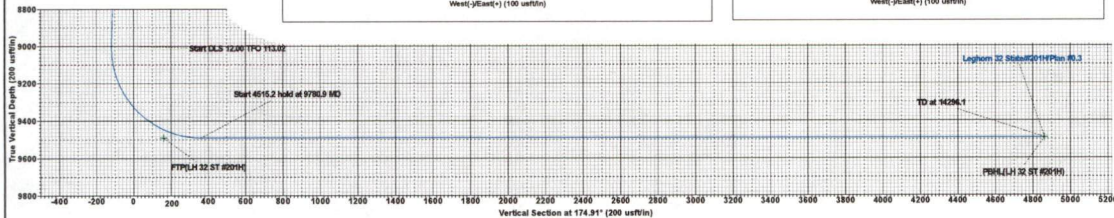
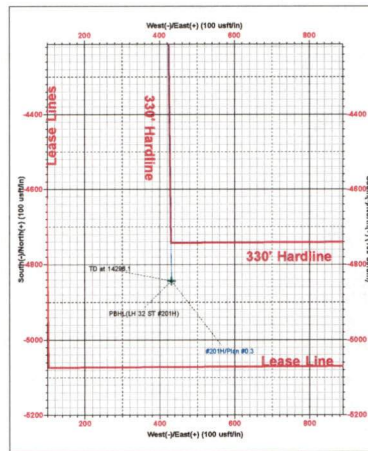
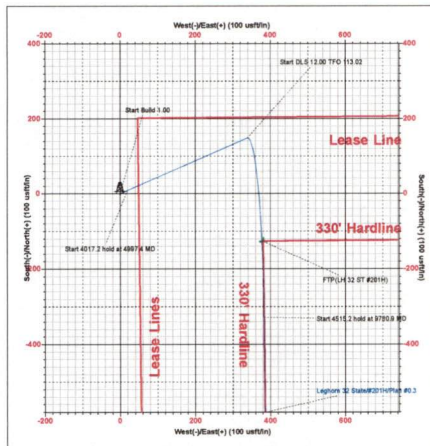
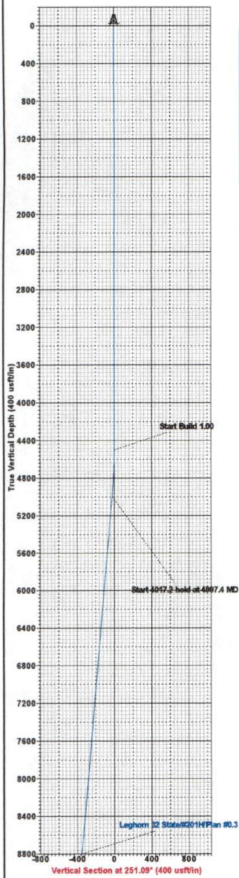
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4997.4	4.97	66.30	4996.8	8.7	19.8	1.00	66.30	-6.9	
4	9014.6	4.97	66.30	8998.9	148.7	338.7	0.00	0.00	-118.1	
5	9780.9	90.00	179.39	9491.0	-328.1	383.1	12.00	113.02	360.7	
6	14296.1	90.00	179.39	9491.0	-4843.0	431.0	0.00	0.00	4862.1	PBHL(LH 32 ST #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(LH 32 ST #201H)	9491.0	-127.0	381.0	493491.00	731281.00
PBHL(LH 32 ST #201H)	9491.0	-4843.0	431.0	488775.00	731311.00



Lea County, NM (NAD 27 NME)
Leghorn 32 State #201H
Plan #0.3
10/13/2016



OCD - HOBBS
07/22/2016
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Leghorn 32 State

#201H

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 #201H
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:	#201H	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		Leghorn 32 State			
Site Position:		Northing:	493,618.00 usft	Latitude:	32° 21' 17.478 N
From:	Map	Easting:	730,880.00 usft	Longitude:	103° 35' 8.382 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	#201H					
Well Position	+N/-S	0.0 usft	Northing:	493,618.00 usft	Latitude:	32° 21' 17.478 N
	+E/-W	0.0 usft	Easting:	730,880.00 usft	Longitude:	103° 35' 8.382 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	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 #0.3			
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	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	
4,997.4	4.97	66.30	4,996.8	8.7	19.8	1.00	1.00	0.00	66.30	
9,014.6	4.97	66.30	8,998.9	148.7	338.7	0.00	0.00	0.00	0.00	
9,780.9	90.00	179.39	9,491.0	-328.1	383.1	12.00	11.10	14.76	113.02	
14,296.1	90.00	179.39	9,491.0	-4,843.0	431.0	0.00	0.00	0.00	0.00	PBHL(LH 32 ST #201



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #201H
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:	#201H	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	66.30	4,600.0	0.4	0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	66.30	4,700.0	1.4	3.2	-1.1	1.00	1.00	0.00
4,800.0	3.00	66.30	4,799.9	3.2	7.2	-2.5	1.00	1.00	0.00
4,900.0	4.00	66.30	4,899.7	5.6	12.8	-4.5	1.00	1.00	0.00
4,997.4	4.97	66.30	4,996.8	8.7	19.8	-6.9	1.00	1.00	0.00
5,000.0	4.97	66.30	4,999.4	8.8	20.0	-7.0	0.00	0.00	0.00
5,100.0	4.97	66.30	5,099.0	12.2	27.9	-9.7	0.00	0.00	0.00
5,200.0	4.97	66.30	5,198.6	15.7	35.8	-12.5	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #201H
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:	#201H	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	4.97	66.30	5,298.2	19.2	43.8	-15.3	0.00	0.00	0.00
5,400.0	4.97	66.30	5,397.9	22.7	51.7	-18.0	0.00	0.00	0.00
5,500.0	4.97	66.30	5,497.5	26.2	59.7	-20.8	0.00	0.00	0.00
5,600.0	4.97	66.30	5,597.1	29.7	67.6	-23.6	0.00	0.00	0.00
5,700.0	4.97	66.30	5,696.7	33.2	75.5	-26.3	0.00	0.00	0.00
5,800.0	4.97	66.30	5,796.4	36.6	83.5	-29.1	0.00	0.00	0.00
5,900.0	4.97	66.30	5,896.0	40.1	91.4	-31.9	0.00	0.00	0.00
6,000.0	4.97	66.30	5,995.6	43.6	99.4	-34.6	0.00	0.00	0.00
6,100.0	4.97	66.30	6,095.2	47.1	107.3	-37.4	0.00	0.00	0.00
6,200.0	4.97	66.30	6,194.8	50.6	115.2	-40.2	0.00	0.00	0.00
6,300.0	4.97	66.30	6,294.5	54.1	123.2	-42.9	0.00	0.00	0.00
6,400.0	4.97	66.30	6,394.1	57.6	131.1	-45.7	0.00	0.00	0.00
6,500.0	4.97	66.30	6,493.7	61.0	139.0	-48.5	0.00	0.00	0.00
6,600.0	4.97	66.30	6,593.3	64.5	147.0	-51.2	0.00	0.00	0.00
6,700.0	4.97	66.30	6,693.0	68.0	154.9	-54.0	0.00	0.00	0.00
6,800.0	4.97	66.30	6,792.6	71.5	162.9	-56.8	0.00	0.00	0.00
6,900.0	4.97	66.30	6,892.2	75.0	170.8	-59.6	0.00	0.00	0.00
7,000.0	4.97	66.30	6,991.8	78.5	178.7	-62.3	0.00	0.00	0.00
7,100.0	4.97	66.30	7,091.5	82.0	186.7	-65.1	0.00	0.00	0.00
7,200.0	4.97	66.30	7,191.1	85.4	194.6	-67.9	0.00	0.00	0.00
7,300.0	4.97	66.30	7,290.7	88.9	202.6	-70.6	0.00	0.00	0.00
7,400.0	4.97	66.30	7,390.3	92.4	210.5	-73.4	0.00	0.00	0.00
7,500.0	4.97	66.30	7,490.0	95.9	218.4	-76.2	0.00	0.00	0.00
7,600.0	4.97	66.30	7,589.6	99.4	226.4	-78.9	0.00	0.00	0.00
7,700.0	4.97	66.30	7,689.2	102.9	234.3	-81.7	0.00	0.00	0.00
7,800.0	4.97	66.30	7,788.8	106.4	242.3	-84.5	0.00	0.00	0.00
7,900.0	4.97	66.30	7,888.4	109.8	250.2	-87.2	0.00	0.00	0.00
8,000.0	4.97	66.30	7,988.1	113.3	258.1	-90.0	0.00	0.00	0.00
8,100.0	4.97	66.30	8,087.7	116.8	266.1	-92.8	0.00	0.00	0.00
8,200.0	4.97	66.30	8,187.3	120.3	274.0	-95.5	0.00	0.00	0.00
8,300.0	4.97	66.30	8,286.9	123.8	281.9	-98.3	0.00	0.00	0.00
8,400.0	4.97	66.30	8,386.6	127.3	289.9	-101.1	0.00	0.00	0.00
8,500.0	4.97	66.30	8,486.2	130.8	297.8	-103.8	0.00	0.00	0.00
8,600.0	4.97	66.30	8,585.8	134.2	305.8	-106.6	0.00	0.00	0.00
8,700.0	4.97	66.30	8,685.4	137.7	313.7	-109.4	0.00	0.00	0.00
8,800.0	4.97	66.30	8,785.1	141.2	321.6	-112.1	0.00	0.00	0.00
8,900.0	4.97	66.30	8,884.7	144.7	329.6	-114.9	0.00	0.00	0.00
9,000.0	4.97	66.30	8,984.3	148.2	337.5	-117.7	0.00	0.00	0.00
9,014.6	4.97	66.30	8,998.9	148.7	338.7	-118.1	0.00	0.00	0.00
9,025.0	4.63	80.64	9,009.2	148.9	339.5	-118.3	12.00	-3.31	138.23
9,050.0	5.12	116.07	9,034.1	148.6	341.5	-117.8	12.00	1.96	141.72
9,075.0	7.00	138.67	9,059.0	147.0	343.5	-116.0	12.00	7.50	90.39
9,100.0	9.47	150.70	9,083.7	144.0	345.5	-112.8	12.00	9.89	48.13
9,125.0	12.18	157.62	9,108.3	139.8	347.5	-108.5	12.00	10.84	27.65
9,150.0	15.00	162.00	9,132.6	134.3	349.5	-102.8	12.00	11.28	17.55
9,175.0	17.87	165.02	9,156.6	127.5	351.5	-95.8	12.00	11.51	12.06
9,200.0	20.78	167.22	9,180.1	119.5	353.5	-87.7	12.00	11.64	8.79
9,225.0	23.72	168.89	9,203.3	110.2	355.5	-78.3	12.00	11.73	6.71
9,250.0	26.66	170.22	9,225.9	99.8	357.4	-67.7	12.00	11.79	5.30
9,275.0	29.62	171.30	9,247.9	88.1	359.3	-55.9	12.00	11.83	4.32
9,300.0	32.58	172.20	9,269.4	75.3	361.1	-43.0	12.00	11.86	3.60
9,325.0	35.55	172.96	9,290.1	61.4	362.9	-29.0	12.00	11.88	3.06
9,350.0	38.53	173.62	9,310.0	46.5	364.7	-14.0	12.00	11.89	2.64
9,375.0	41.50	174.20	9,329.2	30.5	366.4	2.1	12.00	11.91	2.32



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #201H
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:	#201H	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)
9,400.0	44.48	174.72	9,347.4	13.5	368.0	19.1	12.00	11.92	2.06
9,425.0	47.46	175.18	9,364.8	-4.4	369.6	37.1	12.00	11.93	1.85
9,450.0	50.45	175.60	9,381.2	-23.2	371.1	56.0	12.00	11.93	1.68
9,475.0	53.43	175.99	9,396.6	-42.8	372.6	75.6	12.00	11.94	1.55
9,500.0	56.42	176.35	9,411.0	-63.2	373.9	96.1	12.00	11.94	1.43
9,525.0	59.40	176.68	9,424.3	-84.3	375.2	117.3	12.00	11.95	1.33
9,550.0	62.39	176.99	9,436.4	-106.1	376.4	139.1	12.00	11.95	1.25
9,575.0	65.38	177.29	9,447.4	-128.6	377.5	161.5	12.00	11.95	1.19
9,590.8	67.27	177.47	9,453.8	-143.0	378.2	176.0	12.00	11.95	1.14
FTP(LH 32 ST #201H)									
9,600.0	68.37	177.57	9,457.3	-151.5	378.6	184.5	12.00	11.96	1.12
9,625.0	71.36	177.85	9,465.9	-175.0	379.5	207.9	12.00	11.96	1.09
9,650.0	74.35	178.11	9,473.2	-198.8	380.3	231.8	12.00	11.96	1.05
9,675.0	77.34	178.36	9,479.3	-223.1	381.1	256.0	12.00	11.96	1.02
9,700.0	80.33	178.61	9,484.2	-247.6	381.7	280.4	12.00	11.96	1.00
9,725.0	83.32	178.86	9,487.7	-272.3	382.3	305.1	12.00	11.96	0.98
9,750.0	86.31	179.10	9,490.0	-297.2	382.7	330.0	12.00	11.96	0.97
9,775.0	89.30	179.34	9,491.0	-322.2	383.1	354.9	12.00	11.96	0.96
9,780.9	90.00	179.39	9,491.0	-328.1	383.1	360.7	12.00	11.96	0.96
9,800.0	90.00	179.39	9,491.0	-347.2	383.3	379.8	0.00	0.00	0.00
9,900.0	90.00	179.39	9,491.0	-447.2	384.4	479.5	0.00	0.00	0.00
10,000.0	90.00	179.39	9,491.0	-547.2	385.5	579.2	0.00	0.00	0.00
10,100.0	90.00	179.39	9,491.0	-647.2	386.5	678.9	0.00	0.00	0.00
10,200.0	90.00	179.39	9,491.0	-747.2	387.6	778.6	0.00	0.00	0.00
10,300.0	90.00	179.39	9,491.0	-847.2	388.6	878.3	0.00	0.00	0.00
10,400.0	90.00	179.39	9,491.0	-947.2	389.7	978.0	0.00	0.00	0.00
10,500.0	90.00	179.39	9,491.0	-1,047.1	390.8	1,077.7	0.00	0.00	0.00
10,600.0	90.00	179.39	9,491.0	-1,147.1	391.8	1,177.4	0.00	0.00	0.00
10,700.0	90.00	179.39	9,491.0	-1,247.1	392.9	1,277.1	0.00	0.00	0.00
10,800.0	90.00	179.39	9,491.0	-1,347.1	393.9	1,376.7	0.00	0.00	0.00
10,900.0	90.00	179.39	9,491.0	-1,447.1	395.0	1,476.4	0.00	0.00	0.00
11,000.0	90.00	179.39	9,491.0	-1,547.1	396.1	1,576.1	0.00	0.00	0.00
11,100.0	90.00	179.39	9,491.0	-1,647.1	397.1	1,675.8	0.00	0.00	0.00
11,200.0	90.00	179.39	9,491.0	-1,747.1	398.2	1,775.5	0.00	0.00	0.00
11,300.0	90.00	179.39	9,491.0	-1,847.1	399.2	1,875.2	0.00	0.00	0.00
11,400.0	90.00	179.39	9,491.0	-1,947.1	400.3	1,974.9	0.00	0.00	0.00
11,500.0	90.00	179.39	9,491.0	-2,047.1	401.4	2,074.6	0.00	0.00	0.00
11,600.0	90.00	179.39	9,491.0	-2,147.1	402.4	2,174.3	0.00	0.00	0.00
11,700.0	90.00	179.39	9,491.0	-2,247.1	403.5	2,274.0	0.00	0.00	0.00
11,800.0	90.00	179.39	9,491.0	-2,347.1	404.5	2,373.7	0.00	0.00	0.00
11,900.0	90.00	179.39	9,491.0	-2,447.1	405.6	2,473.4	0.00	0.00	0.00
12,000.0	90.00	179.39	9,491.0	-2,547.1	406.7	2,573.1	0.00	0.00	0.00
12,100.0	90.00	179.39	9,491.0	-2,647.1	407.7	2,672.8	0.00	0.00	0.00
12,200.0	90.00	179.39	9,491.0	-2,747.1	408.8	2,772.5	0.00	0.00	0.00
12,300.0	90.00	179.39	9,491.0	-2,847.0	409.8	2,872.2	0.00	0.00	0.00
12,400.0	90.00	179.39	9,491.0	-2,947.0	410.9	2,971.9	0.00	0.00	0.00
12,500.0	90.00	179.39	9,491.0	-3,047.0	412.0	3,071.6	0.00	0.00	0.00
12,600.0	90.00	179.39	9,491.0	-3,147.0	413.0	3,171.3	0.00	0.00	0.00
12,700.0	90.00	179.39	9,491.0	-3,247.0	414.1	3,270.9	0.00	0.00	0.00
12,800.0	90.00	179.39	9,491.0	-3,347.0	415.1	3,370.6	0.00	0.00	0.00
12,900.0	90.00	179.39	9,491.0	-3,447.0	416.2	3,470.3	0.00	0.00	0.00
13,000.0	90.00	179.39	9,491.0	-3,547.0	417.3	3,570.0	0.00	0.00	0.00
13,100.0	90.00	179.39	9,491.0	-3,647.0	418.3	3,669.7	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #201H
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:	#201H	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)
13,200.0	90.00	179.39	9,491.0	-3,747.0	419.4	3,769.4	0.00	0.00	0.00
13,300.0	90.00	179.39	9,491.0	-3,847.0	420.4	3,869.1	0.00	0.00	0.00
13,400.0	90.00	179.39	9,491.0	-3,947.0	421.5	3,968.8	0.00	0.00	0.00
13,500.0	90.00	179.39	9,491.0	-4,047.0	422.6	4,068.5	0.00	0.00	0.00
13,600.0	90.00	179.39	9,491.0	-4,147.0	423.6	4,168.2	0.00	0.00	0.00
13,700.0	90.00	179.39	9,491.0	-4,247.0	424.7	4,267.9	0.00	0.00	0.00
13,800.0	90.00	179.39	9,491.0	-4,347.0	425.7	4,367.6	0.00	0.00	0.00
13,900.0	90.00	179.39	9,491.0	-4,447.0	426.8	4,467.3	0.00	0.00	0.00
14,000.0	90.00	179.39	9,491.0	-4,547.0	427.9	4,567.0	0.00	0.00	0.00
14,100.0	90.00	179.39	9,491.0	-4,646.9	428.9	4,666.7	0.00	0.00	0.00
14,200.0	90.00	179.39	9,491.0	-4,746.9	430.0	4,766.4	0.00	0.00	0.00
14,296.1	90.00	179.39	9,491.0	-4,843.0	431.0	4,862.1	0.00	0.00	0.00
PBHL(LH 32 ST #201H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(LH 32 ST #201H) - plan misses target center by 40.6usft at 9590.8usft MD (9453.8 TVD, -143.0 N, 378.2 E) - Point	0.00	0.01	9,491.0	-127.0	381.0	493,491.00	731,261.00	32° 21' 16.195 N	103° 35' 3.951 W
PBHL(LH 32 ST #201H) - plan hits target center - Point	0.00	0.01	9,491.0	-4,843.0	431.0	488,775.00	731,311.00	32° 20' 29.526 N	103° 35' 3.753 W