

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 88201
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

WELL API NO. 30-025-46274
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 322743
7. Lease Name or Unit Agreement Name YARROW 32 STATE
8. Well Number 203H
9. OGRID Number 7377
10. Pool name or Wildcat [59900] TRIPLE X; BONE SPRING

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 ☐	
2. Name of Operator EOG Resources	
3. Address of Operator PO BOX 2267, MIDLAND, TX 79702	
4. Well Location Unit Letter <u>O</u> : <u>453</u> feet from the <u>SOUTH</u> line and <u>1607</u> feet from the <u>EAST</u> line Section <u>32</u> Township <u>23S</u> Range <u>33E</u> NMPM County <u>LEA CO., NM</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3672 GL	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: <u>APD CEMENT CHANGES</u>		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.

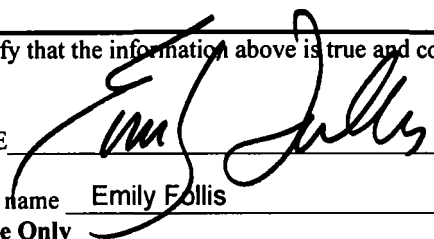
EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:
Updated cement design to reflect R-111-P requirements and ensure cement integrity in production string

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



TITLE

Sr. Regulatory Administrator

DATE

8/15/19

Type or print name Emily Follis

E-mail address: emily_follis@eog.com

PHONE: 432-848-9163

For State Use Only

Petroleum Engineer

APPROVED BY:



TITLE

DATE

08/19/19

Conditions of Approval (if any):

MUST BRING CEMENT TO SURFACE ON ALL 3 STRINGS

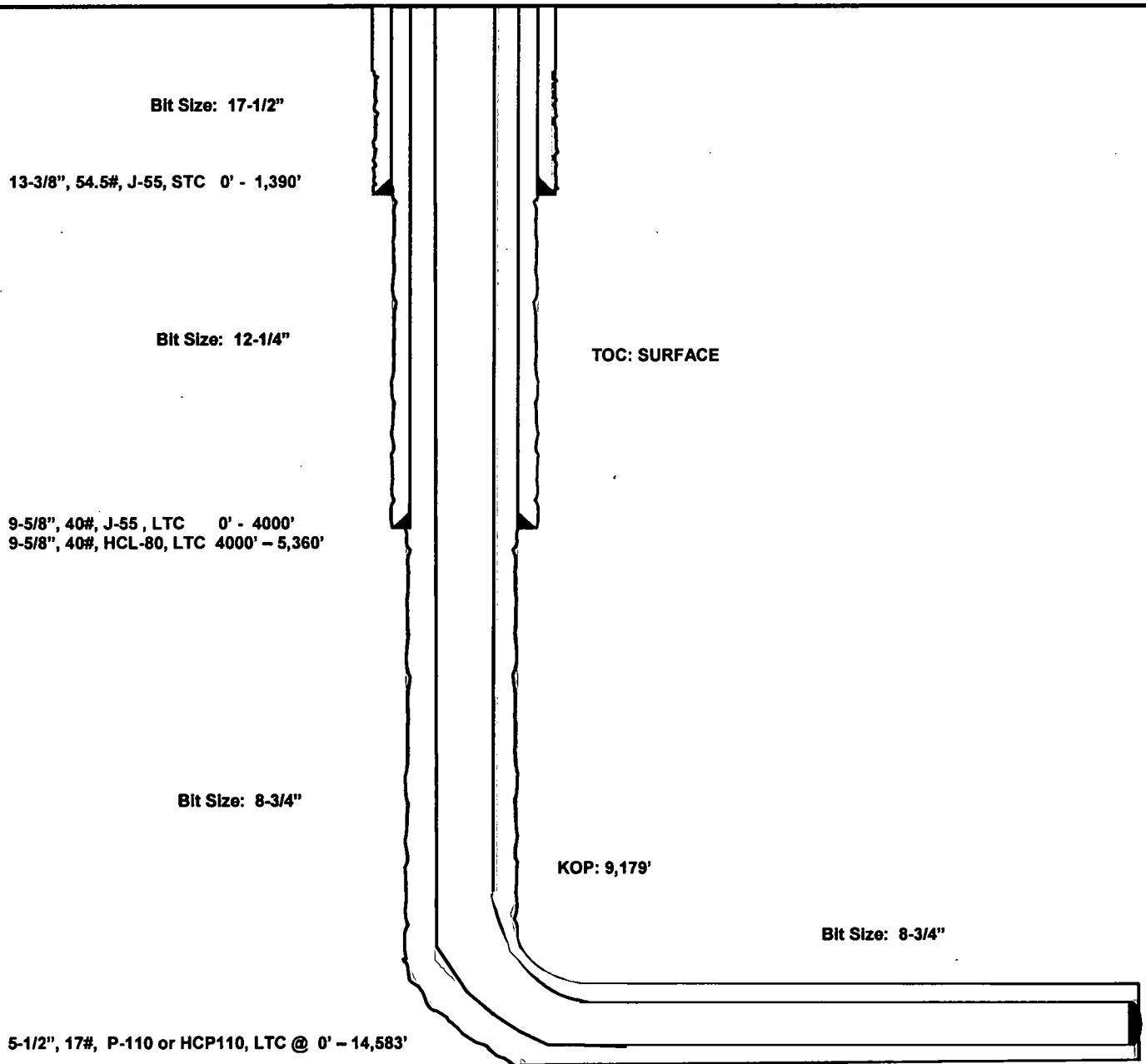
Yarrow 32 State #203H
Lea County, New Mexico

Revised Wellbore 8/14/19

453' FSL
1607' FEL
Section 32
T-23-S, R-33-E

API: 30-025-46274

KB: 3,697'
GL: 3,672'



Lateral: 14,583' MD, 9,642' TVD
BH Location: 100' FNL & 1735' FEL
Section 32
T-23-S, R-33-E

**EOG RESOURCES, INC.
YARROW 32 STATE #203H**

**HOBBS OCD
AUG 19 2019
RECEIVED**

Revised Permit Information 8/14/19:

Well Name: Yarrow 32 State #203H

Location:

SHL: 453' FSL & 1607' FEL, Section 32, T-23-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1735' FEL, Section 32, T-23-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' – 1,390'	13.375"	54.5#	J-55	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"	4000' – 5,360'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0' – 14,583'	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
1,390'	870	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,360'	540	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	380	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
14,583'	1,800	14.4	1.31	1 st Stage (Tail): Class H + 5% Salt (TOC @ 7,400')
	1,400	12.7	3.21	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ Surface)

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' – 1,390'	Fresh - Gel	8.6-8.8	28-34	N/c
1,390' – 5,360'	Brine	10.0-10.2	28-34	N/c
5,360' – 9,179'	Cut Brine	8.4-9.0	28-34	N/c
9,179' – 14,583' Lateral	Oil Base	9.0-9.5	40-42	8-10



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#203H

OH

Plan: Plan #0.1

Standard Planning Report

29 July, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #203H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Yarrow 32 State				
Site Position:		Northing:	457,304.00 usft	Latitude:	32° 15' 18.011 N
From:	Map	Easting:	771,862.00 usft	Longitude:	103° 35' 15.414 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	#203H					
Well Position	+N/-S	56.0 usft	Northing:	457,360.00 usft	Latitude:	32° 15' 18.637 N
	+E/-W	-1,047.0 usft	Easting:	770,815.00 usft	Longitude:	103° 35' 27.602 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,672.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/25/2019	6.74	60.06	47,736.35574592

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	358.04

Plan Survey Tool Program	Date 7/29/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,583.0 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,710.3	4.21	197.19	1,710.1	-7.4	-2.3	2.00	2.00	0.00	197.19	
7,265.0	4.21	197.19	7,249.9	-396.6	-122.7	0.00	0.00	0.00	0.00	
7,475.3	0.00	0.00	7,460.0	-404.0	-125.0	2.00	-2.00	0.00	180.00	
9,179.3	0.00	0.00	9,164.0	-404.0	-125.0	0.00	0.00	0.00	0.00	KOP (Yarrow 32 State
9,929.3	90.00	359.59	9,641.5	73.4	-128.4	12.00	12.00	-0.06	359.59	
14,583.0	90.00	359.59	9,641.5	4,727.0	-162.0	0.00	0.00	0.00	0.00	PBHL (Yarrow 32 Sta



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #203H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #203H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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	2.00	197.19	1,600.0	-1.7	-0.5	-1.6	2.00	2.00	0.00
1,700.0	4.00	197.19	1,699.8	-6.7	-2.1	-6.6	2.00	2.00	0.00
1,710.3	4.21	197.19	1,710.1	-7.4	-2.3	-7.3	2.00	2.00	0.00
1,800.0	4.21	197.19	1,799.6	-13.7	-4.2	-13.5	0.00	0.00	0.00
1,900.0	4.21	197.19	1,899.3	-20.7	-6.4	-20.4	0.00	0.00	0.00
2,000.0	4.21	197.19	1,999.0	-27.7	-8.6	-27.4	0.00	0.00	0.00
2,100.0	4.21	197.19	2,098.8	-34.7	-10.7	-34.3	0.00	0.00	0.00
2,200.0	4.21	197.19	2,198.5	-41.7	-12.9	-41.2	0.00	0.00	0.00
2,300.0	4.21	197.19	2,298.2	-48.7	-15.1	-48.2	0.00	0.00	0.00
2,400.0	4.21	197.19	2,398.0	-55.7	-17.2	-55.1	0.00	0.00	0.00
2,500.0	4.21	197.19	2,497.7	-62.7	-19.4	-62.0	0.00	0.00	0.00
2,600.0	4.21	197.19	2,597.4	-69.7	-21.6	-68.9	0.00	0.00	0.00
2,700.0	4.21	197.19	2,697.1	-76.7	-23.7	-75.9	0.00	0.00	0.00
2,800.0	4.21	197.19	2,796.9	-83.7	-25.9	-82.8	0.00	0.00	0.00
2,900.0	4.21	197.19	2,896.6	-90.7	-28.1	-89.7	0.00	0.00	0.00
3,000.0	4.21	197.19	2,996.3	-97.7	-30.2	-96.7	0.00	0.00	0.00
3,100.0	4.21	197.19	3,096.1	-104.8	-32.4	-103.6	0.00	0.00	0.00
3,200.0	4.21	197.19	3,195.8	-111.8	-34.6	-110.5	0.00	0.00	0.00
3,300.0	4.21	197.19	3,295.5	-118.8	-36.7	-117.4	0.00	0.00	0.00
3,400.0	4.21	197.19	3,395.3	-125.8	-38.9	-124.4	0.00	0.00	0.00
3,500.0	4.21	197.19	3,495.0	-132.8	-41.1	-131.3	0.00	0.00	0.00
3,600.0	4.21	197.19	3,594.7	-139.8	-43.3	-138.2	0.00	0.00	0.00
3,700.0	4.21	197.19	3,694.5	-146.8	-45.4	-145.2	0.00	0.00	0.00
3,800.0	4.21	197.19	3,794.2	-153.8	-47.6	-152.1	0.00	0.00	0.00
3,900.0	4.21	197.19	3,893.9	-160.8	-49.8	-159.0	0.00	0.00	0.00
4,000.0	4.21	197.19	3,993.6	-167.8	-51.9	-165.9	0.00	0.00	0.00
4,100.0	4.21	197.19	4,093.4	-174.8	-54.1	-172.9	0.00	0.00	0.00
4,200.0	4.21	197.19	4,193.1	-181.8	-56.3	-179.8	0.00	0.00	0.00
4,300.0	4.21	197.19	4,292.8	-188.8	-58.4	-186.7	0.00	0.00	0.00
4,400.0	4.21	197.19	4,392.6	-195.9	-60.6	-193.7	0.00	0.00	0.00
4,500.0	4.21	197.19	4,492.3	-202.9	-62.8	-200.6	0.00	0.00	0.00
4,600.0	4.21	197.19	4,592.0	-209.9	-64.9	-207.5	0.00	0.00	0.00
4,700.0	4.21	197.19	4,691.8	-216.9	-67.1	-214.5	0.00	0.00	0.00
4,800.0	4.21	197.19	4,791.5	-223.9	-69.3	-221.4	0.00	0.00	0.00
4,900.0	4.21	197.19	4,891.2	-230.9	-71.4	-228.3	0.00	0.00	0.00
5,000.0	4.21	197.19	4,990.9	-237.9	-73.6	-235.2	0.00	0.00	0.00
5,100.0	4.21	197.19	5,090.7	-244.9	-75.8	-242.2	0.00	0.00	0.00
5,200.0	4.21	197.19	5,190.4	-251.9	-77.9	-249.1	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #203H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	4.21	197.19	5,290.1	-258.9	-80.1	-256.0	0.00	0.00	0.00
5,400.0	4.21	197.19	5,389.9	-265.9	-82.3	-263.0	0.00	0.00	0.00
5,500.0	4.21	197.19	5,489.6	-272.9	-84.4	-269.9	0.00	0.00	0.00
5,600.0	4.21	197.19	5,589.3	-279.9	-86.6	-276.8	0.00	0.00	0.00
5,700.0	4.21	197.19	5,689.1	-287.0	-88.8	-283.7	0.00	0.00	0.00
5,800.0	4.21	197.19	5,788.8	-294.0	-91.0	-290.7	0.00	0.00	0.00
5,900.0	4.21	197.19	5,888.5	-301.0	-93.1	-297.6	0.00	0.00	0.00
6,000.0	4.21	197.19	5,988.3	-308.0	-95.3	-304.5	0.00	0.00	0.00
6,100.0	4.21	197.19	6,088.0	-315.0	-97.5	-311.5	0.00	0.00	0.00
6,200.0	4.21	197.19	6,187.7	-322.0	-99.6	-318.4	0.00	0.00	0.00
6,300.0	4.21	197.19	6,287.4	-329.0	-101.8	-325.3	0.00	0.00	0.00
6,400.0	4.21	197.19	6,387.2	-336.0	-104.0	-332.3	0.00	0.00	0.00
6,500.0	4.21	197.19	6,486.9	-343.0	-106.1	-339.2	0.00	0.00	0.00
6,600.0	4.21	197.19	6,586.6	-350.0	-108.3	-346.1	0.00	0.00	0.00
6,700.0	4.21	197.19	6,686.4	-357.0	-110.5	-353.0	0.00	0.00	0.00
6,800.0	4.21	197.19	6,786.1	-364.0	-112.6	-360.0	0.00	0.00	0.00
6,900.0	4.21	197.19	6,885.8	-371.0	-114.8	-366.9	0.00	0.00	0.00
7,000.0	4.21	197.19	6,985.6	-378.1	-117.0	-373.8	0.00	0.00	0.00
7,100.0	4.21	197.19	7,085.3	-385.1	-119.1	-380.8	0.00	0.00	0.00
7,200.0	4.21	197.19	7,185.0	-392.1	-121.3	-387.7	0.00	0.00	0.00
7,265.0	4.21	197.19	7,249.9	-396.6	-122.7	-392.2	0.00	0.00	0.00
7,300.0	3.51	197.19	7,284.8	-398.9	-123.4	-394.4	2.00	-2.00	0.00
7,400.0	1.51	197.19	7,384.7	-403.1	-124.7	-398.5	2.00	-2.00	0.00
7,475.3	0.00	0.00	7,460.0	-404.0	-125.0	-399.5	2.00	-2.00	0.00
7,500.0	0.00	0.00	7,484.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,584.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,684.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,784.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,884.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,984.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,084.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,184.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,284.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,384.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,484.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,584.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,684.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,784.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,884.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,984.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.7	-404.0	-125.0	-399.5	0.00	0.00	0.00
9,179.3	0.00	0.00	9,164.0	-404.0	-125.0	-399.5	0.00	0.00	0.00
KOP (Yarrow 32 State #203H)									
9,200.0	2.48	359.59	9,184.7	-403.6	-125.0	-399.0	12.00	12.00	0.00
9,225.0	5.48	359.59	9,209.6	-401.8	-125.0	-397.3	12.00	12.00	0.00
9,250.0	8.48	359.59	9,234.4	-398.8	-125.0	-394.3	12.00	12.00	0.00
9,275.0	11.48	359.59	9,259.0	-394.5	-125.1	-389.9	12.00	12.00	0.00
9,300.0	14.48	359.59	9,283.4	-388.8	-125.1	-384.3	12.00	12.00	0.00
9,325.0	17.48	359.59	9,307.4	-382.0	-125.2	-377.4	12.00	12.00	0.00
9,350.0	20.48	359.59	9,331.0	-373.8	-125.2	-369.3	12.00	12.00	0.00
9,375.0	23.48	359.59	9,354.2	-364.5	-125.3	-360.0	12.00	12.00	0.00
9,400.0	26.48	359.59	9,376.9	-353.9	-125.4	-349.4	12.00	12.00	0.00
9,425.0	29.48	359.59	9,399.0	-342.2	-125.4	-337.7	12.00	12.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #203H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #203H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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)
9,450.0	32.48	359.59	9,420.4	-329.3	-125.5	-324.8	12.00	12.00	0.00
9,475.0	35.48	359.59	9,441.1	-315.4	-125.6	-310.9	12.00	12.00	0.00
9,500.0	38.48	359.59	9,461.1	-300.3	-125.7	-295.8	12.00	12.00	0.00
9,525.0	41.48	359.59	9,480.2	-284.3	-125.9	-279.8	12.00	12.00	0.00
9,550.0	44.48	359.59	9,498.5	-267.2	-126.0	-262.7	12.00	12.00	0.00
9,575.0	47.48	359.59	9,515.9	-249.2	-126.1	-244.8	12.00	12.00	0.00
9,578.4	47.89	359.59	9,518.2	-246.7	-126.1	-242.3	12.00	12.00	0.00
FTP (Yarrow 32 State #203H)									
9,600.0	50.48	359.59	9,532.3	-230.4	-126.3	-225.9	12.00	12.00	0.00
9,625.0	53.48	359.59	9,547.7	-210.7	-126.4	-206.2	12.00	12.00	0.00
9,650.0	56.48	359.59	9,562.1	-190.2	-126.5	-185.8	12.00	12.00	0.00
9,675.0	59.48	359.59	9,575.3	-169.0	-126.7	-164.6	12.00	12.00	0.00
9,700.0	62.48	359.59	9,587.4	-147.2	-126.9	-142.7	12.00	12.00	0.00
9,725.0	65.48	359.59	9,598.4	-124.7	-127.0	-120.3	12.00	12.00	0.00
9,750.0	68.48	359.59	9,608.2	-101.7	-127.2	-97.3	12.00	12.00	0.00
9,775.0	71.48	359.59	9,616.7	-78.2	-127.3	-73.8	12.00	12.00	0.00
9,800.0	74.48	359.59	9,624.1	-54.3	-127.5	-49.9	12.00	12.00	0.00
9,825.0	77.48	359.59	9,630.1	-30.1	-127.7	-25.7	12.00	12.00	0.00
9,850.0	80.48	359.59	9,634.9	-5.5	-127.9	-1.1	12.00	12.00	0.00
9,875.0	83.48	359.59	9,638.4	19.2	-128.1	23.6	12.00	12.00	0.00
9,900.0	86.48	359.59	9,640.6	44.1	-128.2	48.5	12.00	12.00	0.00
9,925.0	89.48	359.59	9,641.4	69.1	-128.4	73.5	12.00	12.00	0.00
9,929.3	90.00	359.59	9,641.5	73.4	-128.4	77.8	12.00	12.00	0.00
10,000.0	90.00	359.59	9,641.5	144.1	-129.0	148.4	0.00	0.00	0.00
10,100.0	90.00	359.59	9,641.5	244.1	-129.7	248.4	0.00	0.00	0.00
10,200.0	90.00	359.59	9,641.5	344.1	-130.4	348.4	0.00	0.00	0.00
10,300.0	90.00	359.59	9,641.5	444.1	-131.1	448.3	0.00	0.00	0.00
10,400.0	90.00	359.59	9,641.5	544.1	-131.8	548.3	0.00	0.00	0.00
10,500.0	90.00	359.59	9,641.5	644.1	-132.6	648.3	0.00	0.00	0.00
10,600.0	90.00	359.59	9,641.5	744.1	-133.3	748.2	0.00	0.00	0.00
10,700.0	90.00	359.59	9,641.5	844.1	-134.0	848.2	0.00	0.00	0.00
10,800.0	90.00	359.59	9,641.5	944.1	-134.7	948.1	0.00	0.00	0.00
10,900.0	90.00	359.59	9,641.5	1,044.1	-135.4	1,048.1	0.00	0.00	0.00
11,000.0	90.00	359.59	9,641.5	1,144.1	-136.2	1,148.1	0.00	0.00	0.00
11,100.0	90.00	359.59	9,641.5	1,244.1	-136.9	1,248.0	0.00	0.00	0.00
11,200.0	90.00	359.59	9,641.5	1,344.1	-137.6	1,348.0	0.00	0.00	0.00
11,300.0	90.00	359.59	9,641.5	1,444.1	-138.3	1,448.0	0.00	0.00	0.00
11,400.0	90.00	359.59	9,641.5	1,544.1	-139.0	1,547.9	0.00	0.00	0.00
11,500.0	90.00	359.59	9,641.5	1,644.1	-139.8	1,647.9	0.00	0.00	0.00
11,600.0	90.00	359.59	9,641.5	1,744.1	-140.5	1,747.9	0.00	0.00	0.00
11,700.0	90.00	359.59	9,641.5	1,844.1	-141.2	1,847.8	0.00	0.00	0.00
11,800.0	90.00	359.59	9,641.5	1,944.1	-141.9	1,947.8	0.00	0.00	0.00
11,900.0	90.00	359.59	9,641.5	2,044.1	-142.7	2,047.7	0.00	0.00	0.00
12,000.0	90.00	359.59	9,641.5	2,144.1	-143.4	2,147.7	0.00	0.00	0.00
12,100.0	90.00	359.59	9,641.5	2,244.1	-144.1	2,247.7	0.00	0.00	0.00
12,200.0	90.00	359.59	9,641.5	2,344.1	-144.8	2,347.6	0.00	0.00	0.00
12,300.0	90.00	359.59	9,641.5	2,444.0	-145.5	2,447.6	0.00	0.00	0.00
12,400.0	90.00	359.59	9,641.5	2,544.0	-146.3	2,547.6	0.00	0.00	0.00
12,500.0	90.00	359.59	9,641.5	2,644.0	-147.0	2,647.5	0.00	0.00	0.00
12,600.0	90.00	359.59	9,641.5	2,744.0	-147.7	2,747.5	0.00	0.00	0.00
12,700.0	90.00	359.59	9,641.5	2,844.0	-148.4	2,847.5	0.00	0.00	0.00
12,800.0	90.00	359.59	9,641.5	2,944.0	-149.1	2,947.4	0.00	0.00	0.00
12,900.0	90.00	359.59	9,641.5	3,044.0	-149.9	3,047.4	0.00	0.00	0.00
13,000.0	90.00	359.59	9,641.5	3,144.0	-150.6	3,147.3	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #203H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#203H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,100.0	90.00	359.59	9,641.5	3,244.0	-151.3	3,247.3	0.00	0.00	0.00
13,200.0	90.00	359.59	9,641.5	3,344.0	-152.0	3,347.3	0.00	0.00	0.00
13,300.0	90.00	359.59	9,641.5	3,444.0	-152.7	3,447.2	0.00	0.00	0.00
13,400.0	90.00	359.59	9,641.5	3,544.0	-153.5	3,547.2	0.00	0.00	0.00
13,500.0	90.00	359.59	9,641.5	3,644.0	-154.2	3,647.2	0.00	0.00	0.00
13,600.0	90.00	359.59	9,641.5	3,744.0	-154.9	3,747.1	0.00	0.00	0.00
13,700.0	90.00	359.59	9,641.5	3,844.0	-155.6	3,847.1	0.00	0.00	0.00
13,800.0	90.00	359.59	9,641.5	3,944.0	-156.4	3,947.1	0.00	0.00	0.00
13,900.0	90.00	359.59	9,641.5	4,044.0	-157.1	4,047.0	0.00	0.00	0.00
14,000.0	90.00	359.59	9,641.5	4,144.0	-157.8	4,147.0	0.00	0.00	0.00
14,100.0	90.00	359.59	9,641.5	4,244.0	-158.5	4,246.9	0.00	0.00	0.00
14,200.0	90.00	359.59	9,641.5	4,344.0	-159.2	4,346.9	0.00	0.00	0.00
14,300.0	90.00	359.59	9,641.5	4,444.0	-160.0	4,446.9	0.00	0.00	0.00
14,400.0	90.00	359.59	9,641.5	4,544.0	-160.7	4,546.8	0.00	0.00	0.00
14,500.0	90.00	359.59	9,641.5	4,644.0	-161.4	4,646.8	0.00	0.00	0.00
14,583.0	90.00	359.59	9,641.5	4,727.0	-162.0	4,729.8	0.00	0.00	0.00

PBHL (Yarrow 32 State #203H)

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									
KOP (Yarrow 32 State #1 - plan hits target center - Point	0.00	0.00	9,164.0	-404.0	-125.0	456,956.00	770,690.00	32° 15' 14.648 N	103° 35' 29.090 W
PBHL (Yarrow 32 State #1 - plan hits target center - Point	0.00	0.00	9,641.5	4,727.0	-162.0	462,087.00	770,653.00	32° 16' 5.422 N	103° 35' 29.108 W
FTP (Yarrow 32 State #2 - plan misses target center by 163.4usft at 9578.4usft MD (9518.2 TVD, -246.7 N, -126.1 E) - Point	0.00	0.00	9,641.5	-354.0	-125.0	457,006.00	770,690.00	32° 15' 15.142 N	103° 35' 29.086 W



Lea County, NM (NAD 83 NME)

Yarrow 32 State #203H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #203H

KB = 25 @ 3687.0ust
Northing 457360.00 Easting 770815.00
Latitude 32° 15' 18.837 N Longitude 103° 35' 27.602 W

SECTION DETAILS

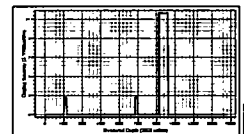
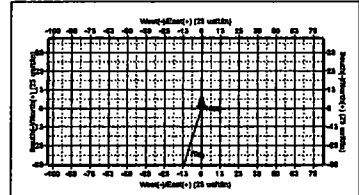
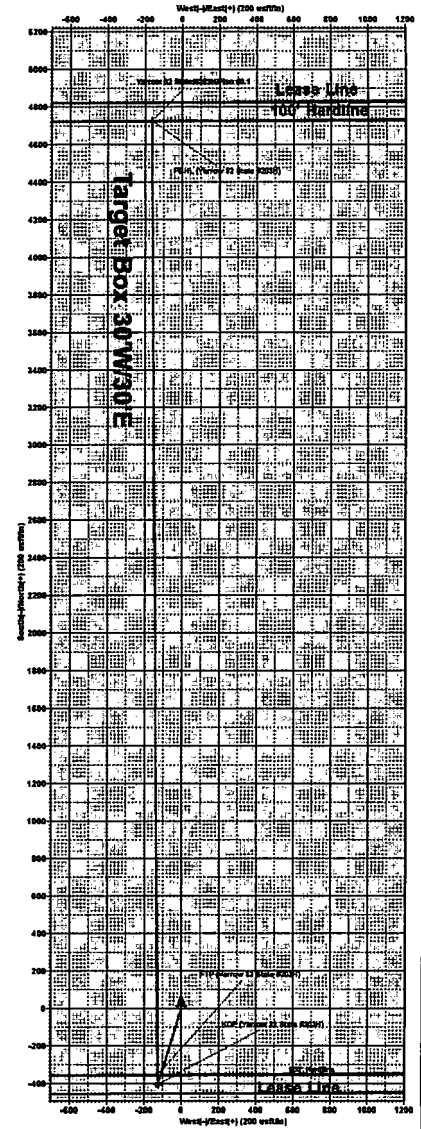
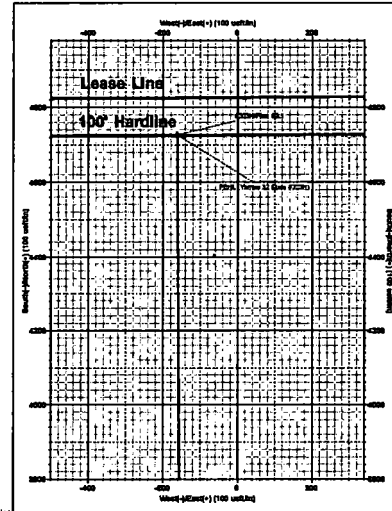
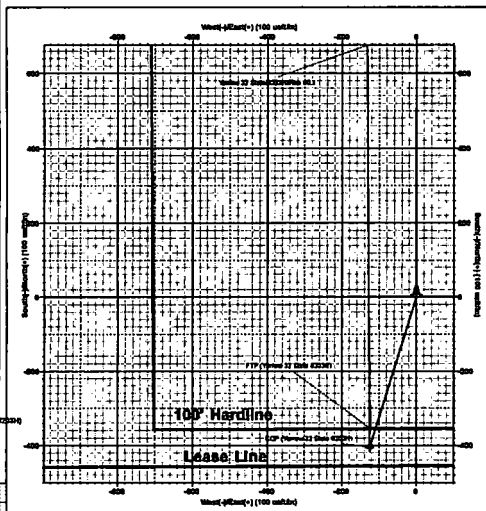
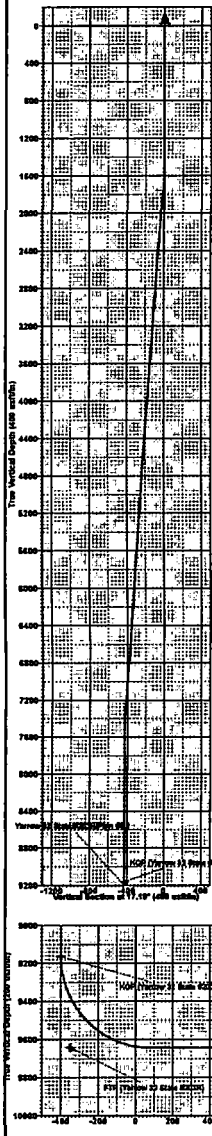
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
1710.3	4.21	197.19	1710.1	-7.4	-2.3	2.00	187.19	-7.3	
7265.0	4.21	197.19	7249.9	-398.6	-122.7	0.00	0.00	-392.2	
7475.3	0.00	0.00	7460.0	-404.0	-125.0	2.00	180.00	-399.5	
9179.3	0.00	0.00	9164.0	-404.0	-125.0	0.00	0.00	-399.5	KOP (Yarrow 32 State #203H)
9929.3	90.00	359.59	9841.5	73.4	-128.4	12.00	359.59	77.8	
14583.0	90.00	359.59	9841.5	4727.0	-162.0	0.00	0.00	4729.8	PBHL (Yarrow 32 State #203H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Yarrow 32 State #203H)	9164.0	-404.0	-125.0	456856.00	770830.00
PBHL (Yarrow 32 State #203H)	9841.5	4727.0	-162.0	462087.00	770853.00
FTP (Yarrow 32 State #203H)	9841.5	-384.0	-128.0	457008.00	770890.00



Lea County, NM (NAD 83 NME)
Yarrow 32 State #203H
Plan #0.1