

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6111
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88200
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

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.)		WELL API NO. 30-025-42087
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Hearns 27 State Com
4. Well Location Unit Letter N : 300 feet from the South line and 2120 feet from the West line Section 27 Township 24S Range 33E NMPM County Lea		8. Well Number 504H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3488' GR		9. OGRID Number 7377
		10. Pool name or Wildcat Triste Draw; Bone Spring, East

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: ☐		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 requests an amendment to our approved APD for this well to reflect a change in SHL & BHL.

SHL change from 210' FSL & 1360' FWL TO 300' FSL & 2120' FWL, Sec. 27-24S-33E
BHL change from 230' FSL & 1700' FWL TO 230' FSL & 2180' FWL, Sec. 34-24S-33E.

Spud Date:

Rig Release Date:

E-PERMITTING - - New Well ☐
Comp ☐ P&A ☐ TA ☐
CSNG ☐ Loc Chng ☒
ReComp ☐ Add New Well ☐
Cancl Well ☐ Create Pool ☐

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 02/10/15

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 02/11/15
Conditions of Approval (if any):

FEB 12 2015

Revised Permit Information:

Well Name: Hearn's 27 State Com No. 504H

Location:

SL: 300' FSL & 2120' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 2180' FWL, Section 34, T-24-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 – 1205'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5000'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-16,243'	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
1205'	500	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,000'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
16,243'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4500')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1300	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1205'	Fresh - Gel	8.6-8.8	28-34	N/c
1205' – 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' – 10,632'	Cut Brine	8.4-9.0	28-34	N/c
10,632' – 16,243' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Hearns 27 State Com #504H

Lea County, New Mexico

Revised 9/15/14

Proposed Wellbore

Revised 2/10/15

API: 30-025-42087

300' FSL
2120' FWL
Section 27
T-24-S, R-33-E

KB: 3,518'
GL: 3,488'

Bit Size: 17-1/2"
13-3/8", 54.5#, J-55, STC 0' - 1205'

Bit Size: 12-1/4"

TOC: 4500'

9-5/8", 40#, J-55, LT&C 0' - 4000'
9-5/8", 40#, HCK55, LT&C 4000' - 5000'

Bit Size: 8-3/4"

KOP: 10,632'

Bit Size: 8-3/4"

5-1/2", 17#, P-110 or HCP110, LTC @ 0' - 16,243'

Lateral: 16,243' MD, 11,200' TVD

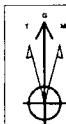
BH Location: 230' FSL & 2180' FWL
Section 34
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)
Hearns 27 State Com #504H
Plan #4

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.86°
Magnetic Field
Strength: 48228.7 nT
Dip Angle: 60.07°
Date: 6/25/2014
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.86°
To convert a Magnetic Direction to a True Direction, Add 7.27° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: Hearns 27 State Com #504H

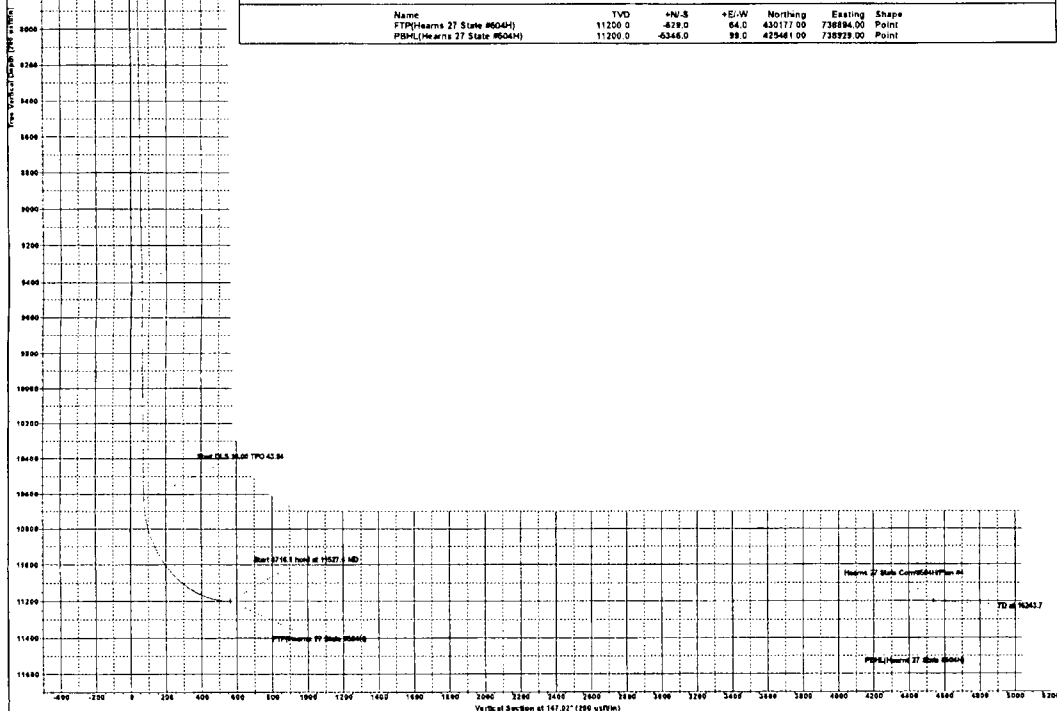
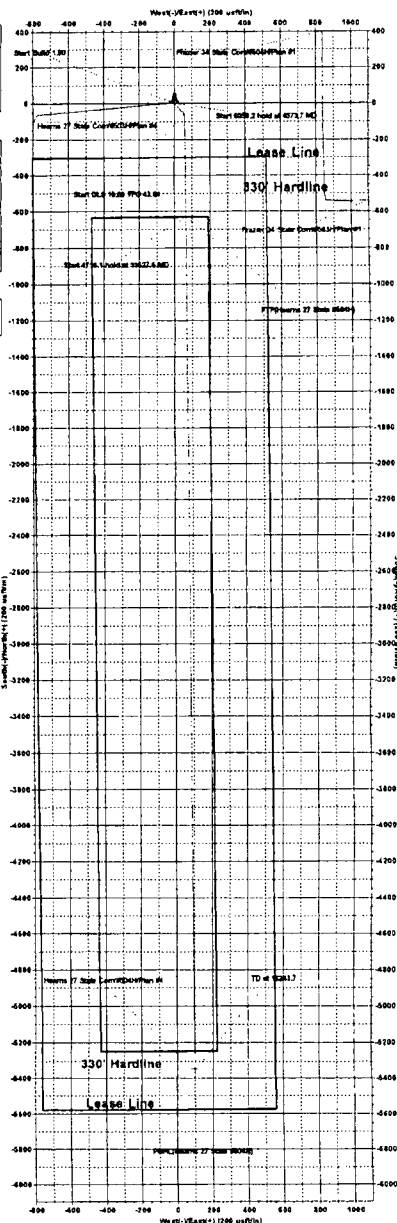
	+N/S	+E/W	Northing	Ground Level	Eastings	Latitude	Longitude	Skid
	0.0	0.0	430808.00	3488.0	738820.0022	10° 55' 36.9" N	103° 33' 40.975" W	

SECTION DETAILS

Sec	MD	Inc	Asi	TVD	+N/S	+E/W	Diag	TFace	VFace	Target	Annotation
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	4673.7	0.74	136.74	4673.7	-0.3	0.3	1.00	136.74	0.5		
4	10632.8	0.74	136.74	10632.8	-58.1	54.7	0.00	0.00	78.8		FTP(Hearns 27 State #504H)
5	11637.6	80.00	179.87	11200.0	-4346.0	64.0	10.00	43.84	562.6		PBM(Hearns 27 State #504H)
6	16243.7	80.00	179.87	11200.0	-4346.0	99.0	0.00	0.00	4537.6		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Eastings	Shape
FTP(Hearns 27 State #504H)	11200.0	-4346.0	64.0	430177.00	738694.00	Point
PBM(Hearns 27 State #504H)	11200.0	-4346.0	99.0	425461.00	738929.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#504H

OH

Plan: Plan #4

Standard Planning Report

10 February, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Hearn 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3513.0usft
MD Reference: KB = 25 @ 3513.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Hearn 27 State Com			
Site Position:		Northing:	430,710.00 usft	Latitude: 32° 10' 54.484 N
From: Map		Easting:	737,910.00 usft	Longitude: 103° 33' 51.687 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	#504H			
Well Position	+N/-S	96.0 usft	Northing:	430,806.00 usft
	+E/-W	920.0 usft	Easting:	738,830.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,488.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/23/2014	7.27	60.07	48,227

Design	Plan #4			
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	147.02

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	
4,573.7	0.74	135.74	4,573.7	-0.3	0.3	1.00	1.00	0.00	135.74	
10,632.9	0.74	135.74	10,632.4	-56.1	54.7	0.00	0.00	0.00	0.00	
11,527.6	90.00	179.57	11,200.0	-629.0	64.0	10.00	9.98	4.90	43.84	FTP(Hearn 27 State
16,243.7	90.00	179.57	11,200.0	-5,345.0	99.0	0.00	0.00	0.00	0.00	PBHL(Hearn 27 Stat



EOG Resources, Inc.

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Project: Lea County, NM (NAD 27 NME)
Site: Hearn 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3513.0usft
MD Reference: KB = 25 @ 3513.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,573.7	0.74	135.74	4,573.7	-0.3	0.3	0.5	1.00	1.00	0.00
4,600.0	0.74	135.74	4,600.0	-0.6	0.6	0.8	0.00	0.00	0.00
4,700.0	0.74	135.74	4,700.0	-1.5	1.5	2.1	0.00	0.00	0.00
4,800.0	0.74	135.74	4,800.0	-2.4	2.4	3.3	0.00	0.00	0.00
4,900.0	0.74	135.74	4,900.0	-3.3	3.3	4.6	0.00	0.00	0.00
5,000.0	0.74	135.74	5,000.0	-4.3	4.2	5.8	0.00	0.00	0.00
5,100.0	0.74	135.74	5,100.0	-5.2	5.1	7.1	0.00	0.00	0.00
5,200.0	0.74	135.74	5,199.9	-6.1	6.0	8.4	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
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Project: Lea County, NM (NAD 27 NME)
Site: Hearn 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3513.0usft
MD Reference: KB = 25 @ 3513.0usft
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)
5,300.0	0.74	135.74	5,299.9	-7.0	6.8	9.6	0.00	0.00	0.00
5,400.0	0.74	135.74	5,399.9	-7.9	7.7	10.9	0.00	0.00	0.00
5,500.0	0.74	135.74	5,499.9	-8.9	8.6	12.1	0.00	0.00	0.00
5,600.0	0.74	135.74	5,599.9	-9.8	9.5	13.4	0.00	0.00	0.00
5,700.0	0.74	135.74	5,699.9	-10.7	10.4	14.7	0.00	0.00	0.00
5,800.0	0.74	135.74	5,799.9	-11.6	11.3	15.9	0.00	0.00	0.00
5,900.0	0.74	135.74	5,899.9	-12.5	12.2	17.2	0.00	0.00	0.00
6,000.0	0.74	135.74	5,999.9	-13.5	13.1	18.4	0.00	0.00	0.00
6,100.0	0.74	135.74	6,099.9	-14.4	14.0	19.7	0.00	0.00	0.00
6,200.0	0.74	135.74	6,199.9	-15.3	14.9	21.0	0.00	0.00	0.00
6,300.0	0.74	135.74	6,299.9	-16.2	15.8	22.2	0.00	0.00	0.00
6,400.0	0.74	135.74	6,399.8	-17.2	16.7	23.5	0.00	0.00	0.00
6,500.0	0.74	135.74	6,499.8	-18.1	17.6	24.7	0.00	0.00	0.00
6,600.0	0.74	135.74	6,599.8	-19.0	18.5	26.0	0.00	0.00	0.00
6,700.0	0.74	135.74	6,699.8	-19.9	19.4	27.3	0.00	0.00	0.00
6,800.0	0.74	135.74	6,799.8	-20.8	20.3	28.5	0.00	0.00	0.00
6,900.0	0.74	135.74	6,899.8	-21.8	21.2	29.8	0.00	0.00	0.00
7,000.0	0.74	135.74	6,999.8	-22.7	22.1	31.1	0.00	0.00	0.00
7,100.0	0.74	135.74	7,099.8	-23.6	23.0	32.3	0.00	0.00	0.00
7,200.0	0.74	135.74	7,199.8	-24.5	23.9	33.6	0.00	0.00	0.00
7,300.0	0.74	135.74	7,299.8	-25.4	24.8	34.8	0.00	0.00	0.00
7,400.0	0.74	135.74	7,399.8	-26.4	25.7	36.1	0.00	0.00	0.00
7,500.0	0.74	135.74	7,499.8	-27.3	26.6	37.4	0.00	0.00	0.00
7,600.0	0.74	135.74	7,599.7	-28.2	27.5	38.6	0.00	0.00	0.00
7,700.0	0.74	135.74	7,699.7	-29.1	28.4	39.9	0.00	0.00	0.00
7,800.0	0.74	135.74	7,799.7	-30.0	29.3	41.1	0.00	0.00	0.00
7,900.0	0.74	135.74	7,899.7	-31.0	30.2	42.4	0.00	0.00	0.00
8,000.0	0.74	135.74	7,999.7	-31.9	31.1	43.7	0.00	0.00	0.00
8,100.0	0.74	135.74	8,099.7	-32.8	32.0	44.9	0.00	0.00	0.00
8,200.0	0.74	135.74	8,199.7	-33.7	32.9	46.2	0.00	0.00	0.00
8,300.0	0.74	135.74	8,299.7	-34.6	33.8	47.4	0.00	0.00	0.00
8,400.0	0.74	135.74	8,399.7	-35.6	34.7	48.7	0.00	0.00	0.00
8,500.0	0.74	135.74	8,499.7	-36.5	35.6	50.0	0.00	0.00	0.00
8,600.0	0.74	135.74	8,599.7	-37.4	36.5	51.2	0.00	0.00	0.00
8,700.0	0.74	135.74	8,699.7	-38.3	37.4	52.5	0.00	0.00	0.00
8,800.0	0.74	135.74	8,799.6	-39.2	38.2	53.7	0.00	0.00	0.00
8,900.0	0.74	135.74	8,899.6	-40.2	39.1	55.0	0.00	0.00	0.00
9,000.0	0.74	135.74	8,999.6	-41.1	40.0	56.3	0.00	0.00	0.00
9,100.0	0.74	135.74	9,099.6	-42.0	40.9	57.5	0.00	0.00	0.00
9,200.0	0.74	135.74	9,199.6	-42.9	41.8	58.8	0.00	0.00	0.00
9,300.0	0.74	135.74	9,299.6	-43.8	42.7	60.0	0.00	0.00	0.00
9,400.0	0.74	135.74	9,399.6	-44.8	43.6	61.3	0.00	0.00	0.00
9,500.0	0.74	135.74	9,499.6	-45.7	44.5	62.6	0.00	0.00	0.00
9,600.0	0.74	135.74	9,599.6	-46.6	45.4	63.8	0.00	0.00	0.00
9,700.0	0.74	135.74	9,699.6	-47.5	46.3	65.1	0.00	0.00	0.00
9,800.0	0.74	135.74	9,799.6	-48.5	47.2	66.3	0.00	0.00	0.00
9,900.0	0.74	135.74	9,899.6	-49.4	48.1	67.6	0.00	0.00	0.00
10,000.0	0.74	135.74	9,999.5	-50.3	49.0	68.9	0.00	0.00	0.00
10,100.0	0.74	135.74	10,099.5	-51.2	49.9	70.1	0.00	0.00	0.00
10,200.0	0.74	135.74	10,199.5	-52.1	50.8	71.4	0.00	0.00	0.00
10,300.0	0.74	135.74	10,299.5	-53.1	51.7	72.7	0.00	0.00	0.00
10,400.0	0.74	135.74	10,399.5	-54.0	52.6	73.9	0.00	0.00	0.00
10,500.0	0.74	135.74	10,499.5	-54.9	53.5	75.2	0.00	0.00	0.00
10,600.0	0.74	135.74	10,599.5	-55.8	54.4	76.4	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Hearn's 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3513.0usft
MD Reference: KB = 25 @ 3513.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,632.9	0.74	135.74	10,632.4	-56.1	54.7	76.8	0.00	0.00	0.00
10,650.0	2.30	166.77	10,649.5	-56.5	54.8	77.3	10.00	9.14	181.26
10,700.0	7.26	175.57	10,699.3	-60.7	55.3	81.0	10.00	9.92	17.60
10,750.0	12.25	177.23	10,748.6	-69.1	55.8	88.4	10.00	9.99	3.32
10,800.0	17.25	177.93	10,796.9	-81.8	56.3	99.3	10.00	9.99	1.41
10,850.0	22.25	178.33	10,843.9	-98.7	56.9	113.8	10.00	10.00	0.79
10,900.0	27.25	178.58	10,889.3	-119.6	57.5	131.6	10.00	10.00	0.51
10,950.0	32.25	178.77	10,932.7	-144.4	58.0	152.7	10.00	10.00	0.36
11,000.0	37.25	178.90	10,973.8	-172.9	58.6	176.9	10.00	10.00	0.28
11,050.0	42.25	179.01	11,012.2	-204.9	59.2	204.1	10.00	10.00	0.22
11,100.0	47.25	179.10	11,047.7	-240.0	59.8	233.9	10.00	10.00	0.18
11,150.0	52.25	179.18	11,080.0	-278.2	60.3	266.2	10.00	10.00	0.15
11,200.0	57.24	179.25	11,108.9	-319.0	60.9	300.7	10.00	10.00	0.13
11,250.0	62.24	179.31	11,134.1	-362.2	61.4	337.3	10.00	10.00	0.12
11,300.0	67.24	179.36	11,155.4	-407.4	62.0	375.5	10.00	10.00	0.11
11,350.0	72.24	179.41	11,172.7	-454.3	62.5	415.1	10.00	10.00	0.10
11,400.0	77.24	179.46	11,185.9	-502.5	62.9	455.8	10.00	10.00	0.10
11,450.0	82.24	179.51	11,194.8	-551.7	63.4	497.3	10.00	10.00	0.09
11,500.0	87.24	179.55	11,199.3	-601.4	63.8	539.3	10.00	10.00	0.09
11,527.6	90.00	179.57	11,200.0	-629.0	64.0	562.5	10.00	10.00	0.09
FTP(Hearn's 27 State #504H)									
11,600.0	90.00	179.57	11,200.0	-701.4	64.5	623.5	0.00	0.00	0.00
11,700.0	90.00	179.57	11,200.0	-801.4	65.3	707.8	0.00	0.00	0.00
11,800.0	90.00	179.57	11,200.0	-901.4	66.0	792.1	0.00	0.00	0.00
11,900.0	90.00	179.57	11,200.0	-1,001.4	66.8	876.4	0.00	0.00	0.00
12,000.0	90.00	179.57	11,200.0	-1,101.4	67.5	960.7	0.00	0.00	0.00
12,100.0	90.00	179.57	11,200.0	-1,201.4	68.2	1,045.0	0.00	0.00	0.00
12,200.0	90.00	179.57	11,200.0	-1,301.4	69.0	1,129.3	0.00	0.00	0.00
12,300.0	90.00	179.57	11,200.0	-1,401.4	69.7	1,213.6	0.00	0.00	0.00
12,400.0	90.00	179.57	11,200.0	-1,501.4	70.5	1,297.8	0.00	0.00	0.00
12,500.0	90.00	179.57	11,200.0	-1,601.4	71.2	1,382.1	0.00	0.00	0.00
12,600.0	90.00	179.57	11,200.0	-1,701.4	72.0	1,466.4	0.00	0.00	0.00
12,700.0	90.00	179.57	11,200.0	-1,801.4	72.7	1,550.7	0.00	0.00	0.00
12,800.0	90.00	179.57	11,200.0	-1,901.4	73.4	1,635.0	0.00	0.00	0.00
12,900.0	90.00	179.57	11,200.0	-2,001.4	74.2	1,719.3	0.00	0.00	0.00
13,000.0	90.00	179.57	11,200.0	-2,101.4	74.9	1,803.6	0.00	0.00	0.00
13,100.0	90.00	179.57	11,200.0	-2,201.4	75.7	1,887.9	0.00	0.00	0.00
13,200.0	90.00	179.57	11,200.0	-2,301.4	76.4	1,972.2	0.00	0.00	0.00
13,300.0	90.00	179.57	11,200.0	-2,401.4	77.2	2,056.4	0.00	0.00	0.00
13,400.0	90.00	179.57	11,200.0	-2,501.4	77.9	2,140.7	0.00	0.00	0.00
13,500.0	90.00	179.57	11,200.0	-2,601.4	78.6	2,225.0	0.00	0.00	0.00
13,600.0	90.00	179.57	11,200.0	-2,701.4	79.4	2,309.3	0.00	0.00	0.00
13,700.0	90.00	179.57	11,200.0	-2,801.4	80.1	2,393.6	0.00	0.00	0.00
13,800.0	90.00	179.57	11,200.0	-2,901.4	80.9	2,477.9	0.00	0.00	0.00
13,900.0	90.00	179.57	11,200.0	-3,001.4	81.6	2,562.2	0.00	0.00	0.00
14,000.0	90.00	179.57	11,200.0	-3,101.4	82.3	2,646.5	0.00	0.00	0.00
14,100.0	90.00	179.57	11,200.0	-3,201.4	83.1	2,730.7	0.00	0.00	0.00
14,200.0	90.00	179.57	11,200.0	-3,301.4	83.8	2,815.0	0.00	0.00	0.00
14,300.0	90.00	179.57	11,200.0	-3,401.4	84.6	2,899.3	0.00	0.00	0.00
14,400.0	90.00	179.57	11,200.0	-3,501.4	85.3	2,983.6	0.00	0.00	0.00
14,500.0	90.00	179.57	11,200.0	-3,601.4	86.1	3,067.9	0.00	0.00	0.00
14,600.0	90.00	179.57	11,200.0	-3,701.3	86.8	3,152.2	0.00	0.00	0.00
14,700.0	90.00	179.57	11,200.0	-3,801.3	87.5	3,236.5	0.00	0.00	0.00



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Design: Plan #4

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TVD Reference: KB = 25 @ 3513.0usft
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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)
14,800.0	90.00	179.57	11,200.0	-3,901.3	88.3	3,320.8	0.00	0.00	0.00
14,900.0	90.00	179.57	11,200.0	-4,001.3	89.0	3,405.1	0.00	0.00	0.00
15,000.0	90.00	179.57	11,200.0	-4,101.3	89.8	3,489.3	0.00	0.00	0.00
15,100.0	90.00	179.57	11,200.0	-4,201.3	90.5	3,573.6	0.00	0.00	0.00
15,200.0	90.00	179.57	11,200.0	-4,301.3	91.3	3,657.9	0.00	0.00	0.00
15,300.0	90.00	179.57	11,200.0	-4,401.3	92.0	3,742.2	0.00	0.00	0.00
15,400.0	90.00	179.57	11,200.0	-4,501.3	92.7	3,826.5	0.00	0.00	0.00
15,500.0	90.00	179.57	11,200.0	-4,601.3	93.5	3,910.8	0.00	0.00	0.00
15,600.0	90.00	179.57	11,200.0	-4,701.3	94.2	3,995.1	0.00	0.00	0.00
15,700.0	90.00	179.57	11,200.0	-4,801.3	95.0	4,079.4	0.00	0.00	0.00
15,800.0	90.00	179.57	11,200.0	-4,901.3	95.7	4,163.6	0.00	0.00	0.00
15,900.0	90.00	179.57	11,200.0	-5,001.3	96.4	4,247.9	0.00	0.00	0.00
16,000.0	90.00	179.57	11,200.0	-5,101.3	97.2	4,332.2	0.00	0.00	0.00
16,100.0	90.00	179.57	11,200.0	-5,201.3	97.9	4,416.5	0.00	0.00	0.00
16,200.0	90.00	179.57	11,200.0	-5,301.3	98.7	4,500.8	0.00	0.00	0.00
16,243.7	90.00	179.57	11,200.0	-5,345.0	99.0	4,537.6	0.00	0.00	0.00

PBHL(Hearn's 27 State #504H)

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
PBHL(Hearn's 27 State #4 - plan hits target center - Point	0.00	0.00	11,200.0	-5,345.0	99.0	425,461.00	738,929.00	32° 10' 2.470 N	103° 33' 40.269 W
FTP(Hearn's 27 State #5 - plan hits target center - Point	0.00	0.00	11,200.0	-629.0	64.0	430,177.00	738,894.00	32° 10' 49.140 N	103° 33' 40.283 W