

Submit 1 Copy To Appropriate District Office

State of New Mexico

Form C-103

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

HOBBS OGD
Minerals and Natural Resources
CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised July 18, 2013

FEB 12 2015
RECEIVED

WELL API NO. 30-025-42120
5. Indicate Type of Lease STATE [x] FEE []
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Hearn 27 State Com
8. Well Number 503H
9. OGRID Number 7377
10. Pool name or Wildcat Triste Draw; Bone Spring, East
4. Well Location Unit Letter N 300 feet from the South line and 2090 feet from the West line
Section 27 Township 24S Range 33E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3488' 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 [x]
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 requests an amendment in our approved APD for this well to reflect a change in location.

Change SHL FROM: 210' FSL & 1330' FWL TO: 300' FSL & 2090' FWL, Sec 27 24S 33E
Change BKL FROM: 230' FSL & 1260' FWL TO: 230' FSL & 1280' FWL, Sec 34 24S 33E

Spud Date: [] Rig Release Date: []
E-PERMITTING - - New Well []
Comp [] P&A [] TA []
CSNG [] Loc Chng [x]
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: [] 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. 503H

Location:

SL: 300' FSL & 2090' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 1280' 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'-16,292'	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
16,292'	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:

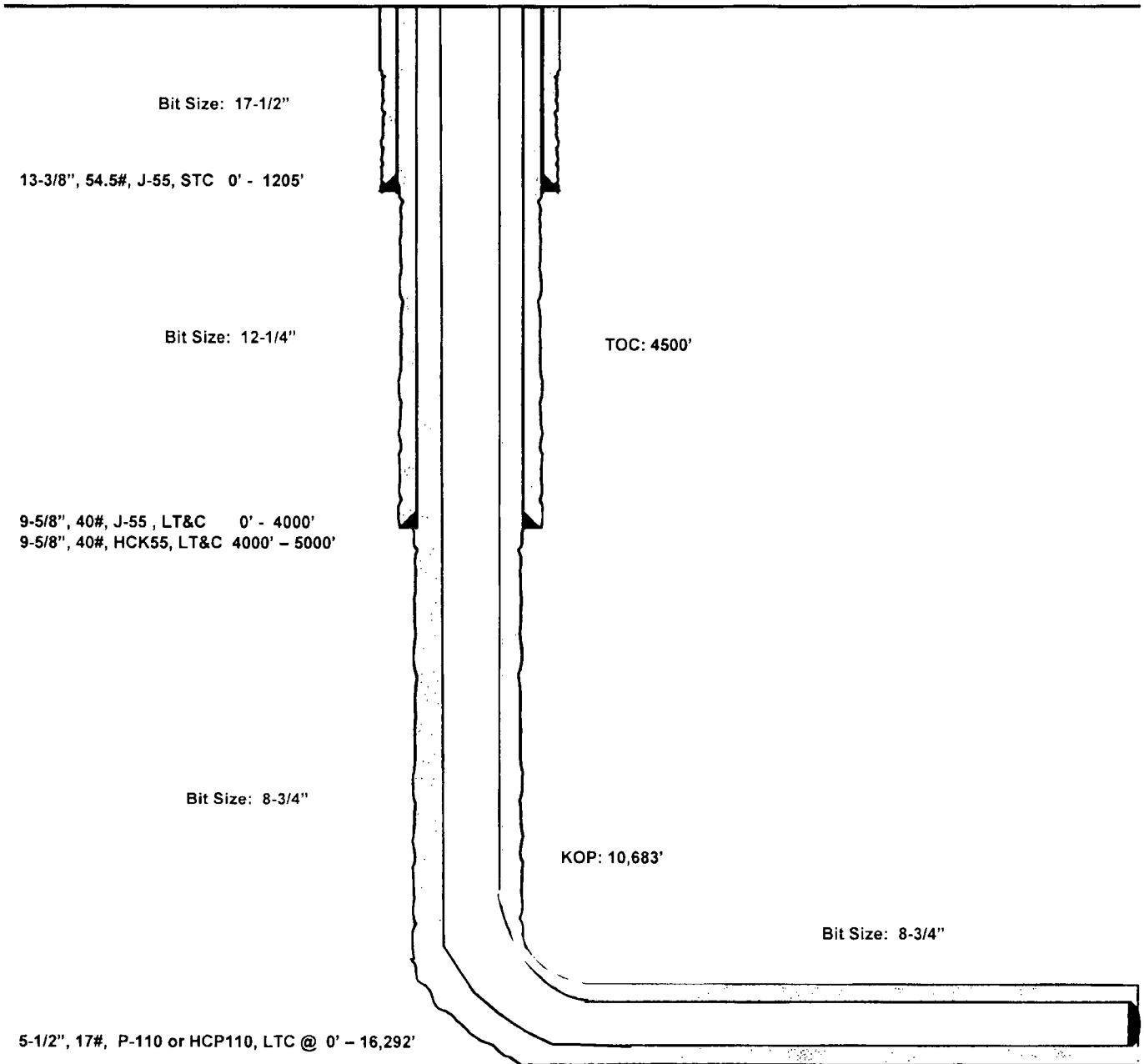
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1205'	Fresh - Gel	8.6-8.8	28-34	N/c
1205' – 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' – 10,683'	Cut Brine	8.4-9.0	28-34	N/c
10,683' – 16,292' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Hearns 27 State Com #503H
Lea County, New Mexico

300' FSL
2090' FWL
Section 27
T-24-S, R-33-E

Proposed Wellbore
Revised 2/10/15
API: 30-025-42120

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



Lateral: 16,292' MD, 11,200' TVD
BH Location: 230' FSL & 1280' FWL
Section 34
T-24-S, R-33-E

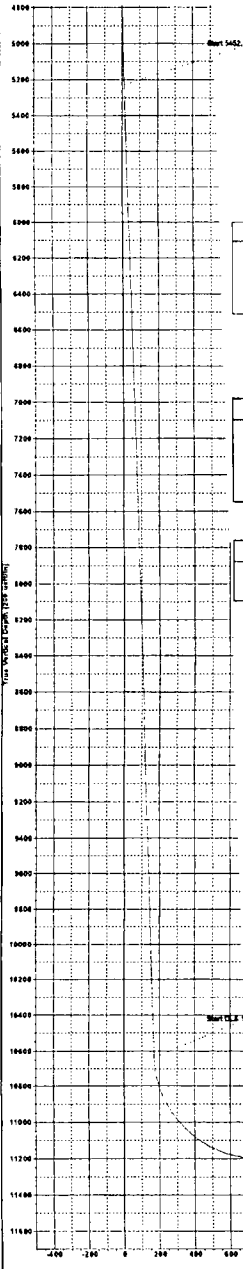


PROJECT DETAILS: Lea County, NM (NAD 27 NME)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

Lea County, NM (NAD 27 NME)
Hearns 27 State Com #503H
Plan #4

Azimuths to Grid North
 True North: -4.41°
 Magnetic North: 6.86°
Magnetic Field
 Strength: 48226.7 nT
 Dip Angle: 60.07°
 Date: 6/23/2014
 Model: IGRF2010

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 #503H

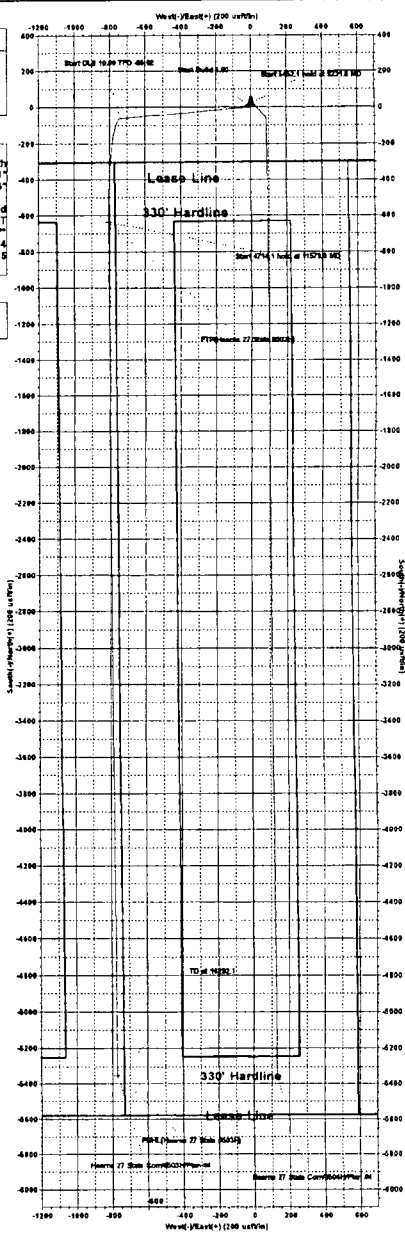
+N/S	+E/W	Northing	Ground Level	Easting	Latitude	Longitude	Spot
0.0	0.0	430808.00	3488.0	738800.00	10° 55' 37.1" N	103° 33' 41.324" W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Diag	TFace	V3sect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4509.0	0.00	0.00	4509.0	0.0	0.0	0.00	0.00	0.0		
3	8231.8	7.32	285.16	5228.6	-3.9	-46.5	1.00	285.16	10.7		
4	10653.6	7.32	285.16	10637.3	-2.6	-738.2	0.00	0.00	189.9	FTP(Hearns 27 State #503H)	
5	11578.0	80.00	179.87	11200.0	-438.0	-808.0	10.00	-88.82	747.1	PBH(Hearns 27 State #503H)	
6	16292.1	90.00	179.87	11200.0	-8350.0	-771.0	0.00	0.00	5405.2		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
FTP(Hearns 27 State #503H)	11200.0	-835.0	-436.0	420170.00	737994.00	Point
PBH(Hearns 27 State #503H)	11200.0	-8350.0	-771.0	425468.00	738029.00	Point



Scale: 1" = 100' (Horizontal)
 1" = 100' (Vertical)
 Date: 6/23/2014
 Drawn: [Name]
 Checked: [Name]



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#503H

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's 27 State Com
Well: #503H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #503H
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's 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	#503H					
Well Position	+N/-S	96.0 usft	Northing:	430,806.00 usft	Latitude:	32° 10' 55.371 N
	+E/-W	890.0 usft	Easting:	738,800.00 usft	Longitude:	103° 33' 41.324 W
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	188.41

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	
5,231.6	7.32	265.16	5,229.6	-3.9	-46.5	1.00	1.00	0.00	265.16	
10,683.6	7.32	265.16	10,637.3	-62.6	-738.2	0.00	0.00	0.00	0.00	
11,578.0	90.00	179.57	11,200.0	-636.0	-806.0	10.00	9.24	-9.57	-85.62	FTP(Hearn's 27 State
16,292.1	90.00	179.57	11,200.0	-5,350.0	-771.0	0.00	0.00	0.00	0.00	PBHL(Hearn's 27 Stat



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 Corn
Well: #503H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #503H
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	
4,600.0	1.00	265.16	4,600.0	-0.1	-0.9	0.2	1.00	1.00	0.00	
4,700.0	2.00	265.16	4,700.0	-0.3	-3.5	0.8	1.00	1.00	0.00	
4,800.0	3.00	265.16	4,799.9	-0.7	-7.8	1.8	1.00	1.00	0.00	
4,900.0	4.00	265.16	4,899.7	-1.2	-13.9	3.2	1.00	1.00	0.00	
5,000.0	5.00	265.16	4,999.4	-1.8	-21.7	5.0	1.00	1.00	0.00	
5,100.0	6.00	265.16	5,098.9	-2.6	-31.3	7.2	1.00	1.00	0.00	
5,200.0	7.00	265.16	5,198.3	-3.6	-42.6	9.8	1.00	1.00	0.00	
5,231.6	7.32	265.16	5,229.6	-3.9	-46.5	10.7	1.00	1.00	0.00	



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Wellbore: OH
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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	7.32	265.16	5,297.5	-4.7	-55.2	12.7	0.00	0.00	0.00
5,400.0	7.32	265.16	5,396.6	-5.7	-67.8	15.6	0.00	0.00	0.00
5,500.0	7.32	265.16	5,495.8	-6.8	-80.5	18.5	0.00	0.00	0.00
5,600.0	7.32	265.16	5,595.0	-7.9	-93.2	21.5	0.00	0.00	0.00
5,700.0	7.32	265.16	5,694.2	-9.0	-105.9	24.4	0.00	0.00	0.00
5,800.0	7.32	265.16	5,793.4	-10.0	-118.6	27.3	0.00	0.00	0.00
5,900.0	7.32	265.16	5,892.6	-11.1	-131.3	30.2	0.00	0.00	0.00
6,000.0	7.32	265.16	5,991.8	-12.2	-144.0	33.1	0.00	0.00	0.00
6,100.0	7.32	265.16	6,090.9	-13.3	-156.7	36.0	0.00	0.00	0.00
6,200.0	7.32	265.16	6,190.1	-14.3	-169.3	39.0	0.00	0.00	0.00
6,300.0	7.32	265.16	6,289.3	-15.4	-182.0	41.9	0.00	0.00	0.00
6,400.0	7.32	265.16	6,388.5	-16.5	-194.7	44.8	0.00	0.00	0.00
6,500.0	7.32	265.16	6,487.7	-17.6	-207.4	47.7	0.00	0.00	0.00
6,600.0	7.32	265.16	6,586.9	-18.6	-220.1	50.6	0.00	0.00	0.00
6,700.0	7.32	265.16	6,686.1	-19.7	-232.8	53.6	0.00	0.00	0.00
6,800.0	7.32	265.16	6,785.2	-20.8	-245.5	56.5	0.00	0.00	0.00
6,900.0	7.32	265.16	6,884.4	-21.9	-258.2	59.4	0.00	0.00	0.00
7,000.0	7.32	265.16	6,983.6	-22.9	-270.9	62.3	0.00	0.00	0.00
7,100.0	7.32	265.16	7,082.8	-24.0	-283.5	65.2	0.00	0.00	0.00
7,200.0	7.32	265.16	7,182.0	-25.1	-296.2	68.2	0.00	0.00	0.00
7,300.0	7.32	265.16	7,281.2	-26.2	-308.9	71.1	0.00	0.00	0.00
7,400.0	7.32	265.16	7,380.4	-27.2	-321.6	74.0	0.00	0.00	0.00
7,500.0	7.32	265.16	7,479.5	-28.3	-334.3	76.9	0.00	0.00	0.00
7,600.0	7.32	265.16	7,578.7	-29.4	-347.0	79.8	0.00	0.00	0.00
7,700.0	7.32	265.16	7,677.9	-30.5	-359.7	82.8	0.00	0.00	0.00
7,800.0	7.32	265.16	7,777.1	-31.6	-372.4	85.7	0.00	0.00	0.00
7,900.0	7.32	265.16	7,876.3	-32.6	-385.0	88.6	0.00	0.00	0.00
8,000.0	7.32	265.16	7,975.5	-33.7	-397.7	91.5	0.00	0.00	0.00
8,100.0	7.32	265.16	8,074.7	-34.8	-410.4	94.4	0.00	0.00	0.00
8,200.0	7.32	265.16	8,173.9	-35.9	-423.1	97.4	0.00	0.00	0.00
8,300.0	7.32	265.16	8,273.0	-36.9	-435.8	100.3	0.00	0.00	0.00
8,400.0	7.32	265.16	8,372.2	-38.0	-448.5	103.2	0.00	0.00	0.00
8,500.0	7.32	265.16	8,471.4	-39.1	-461.2	106.1	0.00	0.00	0.00
8,600.0	7.32	265.16	8,570.6	-40.2	-473.9	109.0	0.00	0.00	0.00
8,700.0	7.32	265.16	8,669.8	-41.2	-486.5	112.0	0.00	0.00	0.00
8,800.0	7.32	265.16	8,769.0	-42.3	-499.2	114.9	0.00	0.00	0.00
8,900.0	7.32	265.16	8,868.2	-43.4	-511.9	117.8	0.00	0.00	0.00
9,000.0	7.32	265.16	8,967.3	-44.5	-524.6	120.7	0.00	0.00	0.00
9,100.0	7.32	265.16	9,066.5	-45.5	-537.3	123.6	0.00	0.00	0.00
9,200.0	7.32	265.16	9,165.7	-46.6	-550.0	126.6	0.00	0.00	0.00
9,300.0	7.32	265.16	9,264.9	-47.7	-562.7	129.5	0.00	0.00	0.00
9,400.0	7.32	265.16	9,364.1	-48.8	-575.4	132.4	0.00	0.00	0.00
9,500.0	7.32	265.16	9,463.3	-49.8	-588.0	135.3	0.00	0.00	0.00
9,600.0	7.32	265.16	9,562.5	-50.9	-600.7	138.2	0.00	0.00	0.00
9,700.0	7.32	265.16	9,661.6	-52.0	-613.4	141.2	0.00	0.00	0.00
9,800.0	7.32	265.16	9,760.8	-53.1	-626.1	144.1	0.00	0.00	0.00
9,900.0	7.32	265.16	9,860.0	-54.1	-638.8	147.0	0.00	0.00	0.00
10,000.0	7.32	265.16	9,959.2	-55.2	-651.5	149.9	0.00	0.00	0.00
10,100.0	7.32	265.16	10,058.4	-56.3	-664.2	152.8	0.00	0.00	0.00
10,200.0	7.32	265.16	10,157.6	-57.4	-676.9	155.7	0.00	0.00	0.00
10,300.0	7.32	265.16	10,256.8	-58.4	-689.6	158.7	0.00	0.00	0.00
10,400.0	7.32	265.16	10,355.9	-59.5	-702.2	161.6	0.00	0.00	0.00
10,500.0	7.32	265.16	10,455.1	-60.6	-714.9	164.5	0.00	0.00	0.00
10,600.0	7.32	265.16	10,554.3	-61.7	-727.6	167.4	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 Corn
 Well: #503H
 Wellbore: OH
 Design: Plan #4

Local Co-ordinate Reference: Well #503H
 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)
10,683.6	7.32	265.16	10,637.3	-62.6	-738.2	169.9	0.00	0.00	0.00
10,700.0	7.62	252.74	10,653.5	-63.0	-740.3	170.6	10.00	1.84	-75.81
10,750.0	10.24	224.72	10,702.9	-67.1	-746.6	175.6	10.00	5.24	-56.04
10,800.0	14.19	210.00	10,751.8	-75.6	-752.8	184.9	10.00	7.90	-29.44
10,850.0	18.64	201.88	10,799.7	-88.3	-758.8	198.4	10.00	8.91	-16.24
10,900.0	23.31	196.86	10,846.4	-105.2	-764.7	215.9	10.00	9.34	-10.04
10,950.0	28.09	193.45	10,891.5	-126.1	-770.3	237.4	10.00	9.56	-6.81
11,000.0	32.93	190.97	10,934.5	-150.9	-775.6	262.8	10.00	9.68	-4.96
11,050.0	37.81	189.07	10,975.3	-179.4	-780.6	291.7	10.00	9.76	-3.81
11,100.0	42.71	187.55	11,013.4	-211.4	-785.3	324.0	10.00	9.80	-3.05
11,150.0	47.63	186.28	11,048.7	-246.6	-789.5	359.4	10.00	9.84	-2.53
11,200.0	52.56	185.20	11,080.7	-284.7	-793.3	397.7	10.00	9.86	-2.16
11,250.0	57.50	184.25	11,109.4	-325.5	-796.7	438.6	10.00	9.88	-1.89
11,300.0	62.44	183.40	11,134.4	-368.7	-799.6	481.7	10.00	9.89	-1.70
11,350.0	67.39	182.63	11,155.6	-413.9	-802.0	526.8	10.00	9.90	-1.55
11,400.0	72.35	181.91	11,172.8	-460.8	-803.8	573.5	10.00	9.91	-1.44
11,450.0	77.31	181.23	11,185.9	-509.1	-805.1	621.4	10.00	9.91	-1.36
11,500.0	82.26	180.57	11,194.7	-558.2	-805.9	670.1	10.00	9.92	-1.31
11,550.0	87.22	179.93	11,199.3	-608.0	-806.1	719.4	10.00	9.92	-1.28
11,578.0	90.00	179.57	11,200.0	-636.0	-806.0	747.1	10.00	9.92	-1.27
FTP(Hearn's 27 State #503H)									
11,600.0	90.00	179.57	11,200.0	-658.0	-805.8	768.8	0.00	0.00	0.00
11,700.0	90.00	179.57	11,200.0	-758.0	-805.1	867.6	0.00	0.00	0.00
11,800.0	90.00	179.57	11,200.0	-858.0	-804.4	966.4	0.00	0.00	0.00
11,900.0	90.00	179.57	11,200.0	-958.0	-803.6	1,065.2	0.00	0.00	0.00
12,000.0	90.00	179.57	11,200.0	-1,058.0	-802.9	1,164.1	0.00	0.00	0.00
12,100.0	90.00	179.57	11,200.0	-1,158.0	-802.1	1,262.9	0.00	0.00	0.00
12,200.0	90.00	179.57	11,200.0	-1,258.0	-801.4	1,361.7	0.00	0.00	0.00
12,300.0	90.00	179.57	11,200.0	-1,358.0	-800.6	1,460.5	0.00	0.00	0.00
12,400.0	90.00	179.57	11,200.0	-1,458.0	-799.9	1,559.3	0.00	0.00	0.00
12,500.0	90.00	179.57	11,200.0	-1,558.0	-799.2	1,658.1	0.00	0.00	0.00
12,600.0	90.00	179.57	11,200.0	-1,658.0	-798.4	1,756.9	0.00	0.00	0.00
12,700.0	90.00	179.57	11,200.0	-1,758.0	-797.7	1,855.7	0.00	0.00	0.00
12,800.0	90.00	179.57	11,200.0	-1,858.0	-796.9	1,954.6	0.00	0.00	0.00
12,900.0	90.00	179.57	11,200.0	-1,958.0	-796.2	2,053.4	0.00	0.00	0.00
13,000.0	90.00	179.57	11,200.0	-2,058.0	-795.4	2,152.2	0.00	0.00	0.00
13,100.0	90.00	179.57	11,200.0	-2,158.0	-794.7	2,251.0	0.00	0.00	0.00
13,200.0	90.00	179.57	11,200.0	-2,258.0	-794.0	2,349.8	0.00	0.00	0.00
13,300.0	90.00	179.57	11,200.0	-2,358.0	-793.2	2,448.6	0.00	0.00	0.00
13,400.0	90.00	179.57	11,200.0	-2,458.0	-792.5	2,547.4	0.00	0.00	0.00
13,500.0	90.00	179.57	11,200.0	-2,557.9	-791.7	2,646.2	0.00	0.00	0.00
13,600.0	90.00	179.57	11,200.0	-2,657.9	-791.0	2,745.1	0.00	0.00	0.00
13,700.0	90.00	179.57	11,200.0	-2,757.9	-790.2	2,843.9	0.00	0.00	0.00
13,800.0	90.00	179.57	11,200.0	-2,857.9	-789.5	2,942.7	0.00	0.00	0.00
13,900.0	90.00	179.57	11,200.0	-2,957.9	-788.8	3,041.5	0.00	0.00	0.00
14,000.0	90.00	179.57	11,200.0	-3,057.9	-788.0	3,140.3	0.00	0.00	0.00
14,100.0	90.00	179.57	11,200.0	-3,157.9	-787.3	3,239.1	0.00	0.00	0.00
14,200.0	90.00	179.57	11,200.0	-3,257.9	-786.5	3,337.9	0.00	0.00	0.00
14,300.0	90.00	179.57	11,200.0	-3,357.9	-785.8	3,436.8	0.00	0.00	0.00
14,400.0	90.00	179.57	11,200.0	-3,457.9	-785.0	3,535.6	0.00	0.00	0.00
14,500.0	90.00	179.57	11,200.0	-3,557.9	-784.3	3,634.4	0.00	0.00	0.00
14,600.0	90.00	179.57	11,200.0	-3,657.9	-783.6	3,733.2	0.00	0.00	0.00
14,700.0	90.00	179.57	11,200.0	-3,757.9	-782.8	3,832.0	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: #503H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well #503H
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)
14,800.0	90.00	179.57	11,200.0	-3,857.9	-782.1	3,930.8	0.00	0.00	0.00
14,900.0	90.00	179.57	11,200.0	-3,957.9	-781.3	4,029.6	0.00	0.00	0.00
15,000.0	90.00	179.57	11,200.0	-4,057.9	-780.6	4,128.4	0.00	0.00	0.00
15,100.0	90.00	179.57	11,200.0	-4,157.9	-779.9	4,227.3	0.00	0.00	0.00
15,200.0	90.00	179.57	11,200.0	-4,257.9	-779.1	4,326.1	0.00	0.00	0.00
15,300.0	90.00	179.57	11,200.0	-4,357.9	-778.4	4,424.9	0.00	0.00	0.00
15,400.0	90.00	179.57	11,200.0	-4,457.9	-777.6	4,523.7	0.00	0.00	0.00
15,500.0	90.00	179.57	11,200.0	-4,557.9	-776.9	4,622.5	0.00	0.00	0.00
15,600.0	90.00	179.57	11,200.0	-4,657.9	-776.1	4,721.3	0.00	0.00	0.00
15,700.0	90.00	179.57	11,200.0	-4,757.9	-775.4	4,820.1	0.00	0.00	0.00
15,800.0	90.00	179.57	11,200.0	-4,857.9	-774.7	4,918.9	0.00	0.00	0.00
15,900.0	90.00	179.57	11,200.0	-4,957.9	-773.9	5,017.8	0.00	0.00	0.00
16,000.0	90.00	179.57	11,200.0	-5,057.9	-773.2	5,116.6	0.00	0.00	0.00
16,100.0	90.00	179.57	11,200.0	-5,157.9	-772.4	5,215.4	0.00	0.00	0.00
16,200.0	90.00	179.57	11,200.0	-5,257.9	-771.7	5,314.2	0.00	0.00	0.00
16,292.1	90.00	179.57	11,200.0	-5,350.0	-771.0	5,405.2	0.00	0.00	0.00
PBHL(Hearn's 27 State #503H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(Hearn's 27 State #503H) - plan hits target center - Point	0.00	0.00	11,200.0	-5,350.0	-771.0	425,456.00	738,029.00	32° 10' 2.485 N	103° 33' 50.739 W
FTP(Hearn's 27 State #503H) - plan hits target center - Point	0.00	0.00	11,200.0	-636.0	-806.0	430,170.00	737,994.00	32° 10' 49.135 N	103° 33' 50.755 W