

30-025-42087

Permit Information:

Well Name: Hearn 27 State Com No. 504H

Location:

SL: 210' FSL & 1350' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 1505' 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'-16,264'	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
16,264'	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' – 10,722'	Cut Brine	8.4-9.0	28-34	N/c
10,722' – 16,264' Lateral	Cut Brine	9.0-9.5	40-42	8-10

SEP 12 2014

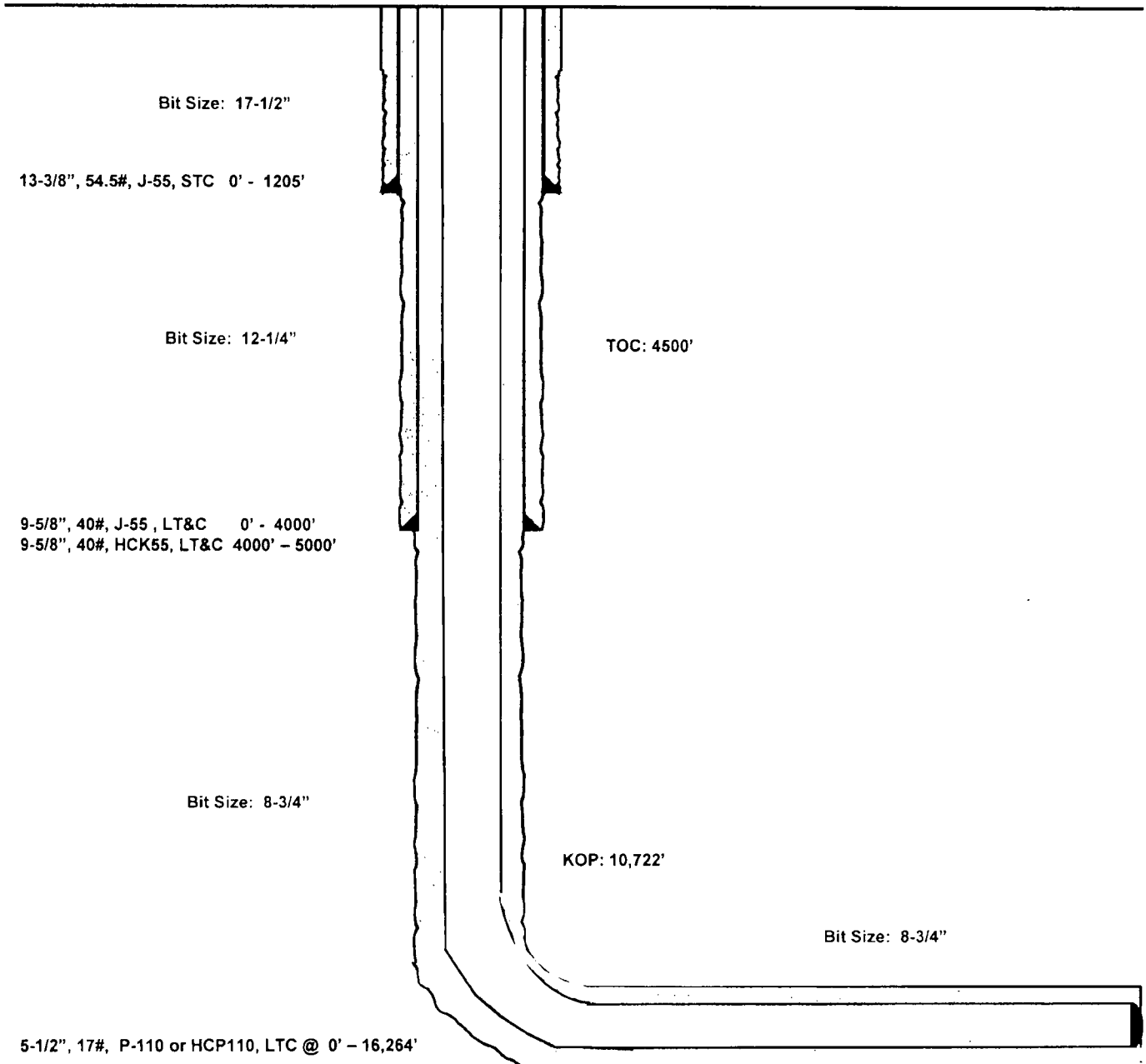
Hearns 27 State Com #504H
Lea County, New Mexico

210' FSL
1350' FWL
Section 27
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,501'
GL: 3,480'



Lateral: 16,264' MD, 11,200' TVD

BH Location: 230' FSL & 1505' FWL
Section 34
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)

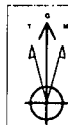
Hearns 27 State Com #504H

Nomac 55

Plan #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



Alignments to Grid North
True North: 0.41°
Magnetic North: 6.80°
Magnetic Field
Strength: 45268.8 nT
Dip Angle: 60.07°
Date: 8/23/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 6.80°
To convert a Magnetic Direction to a True Direction, Add 7.21° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: Hearns 27 State Com #504H

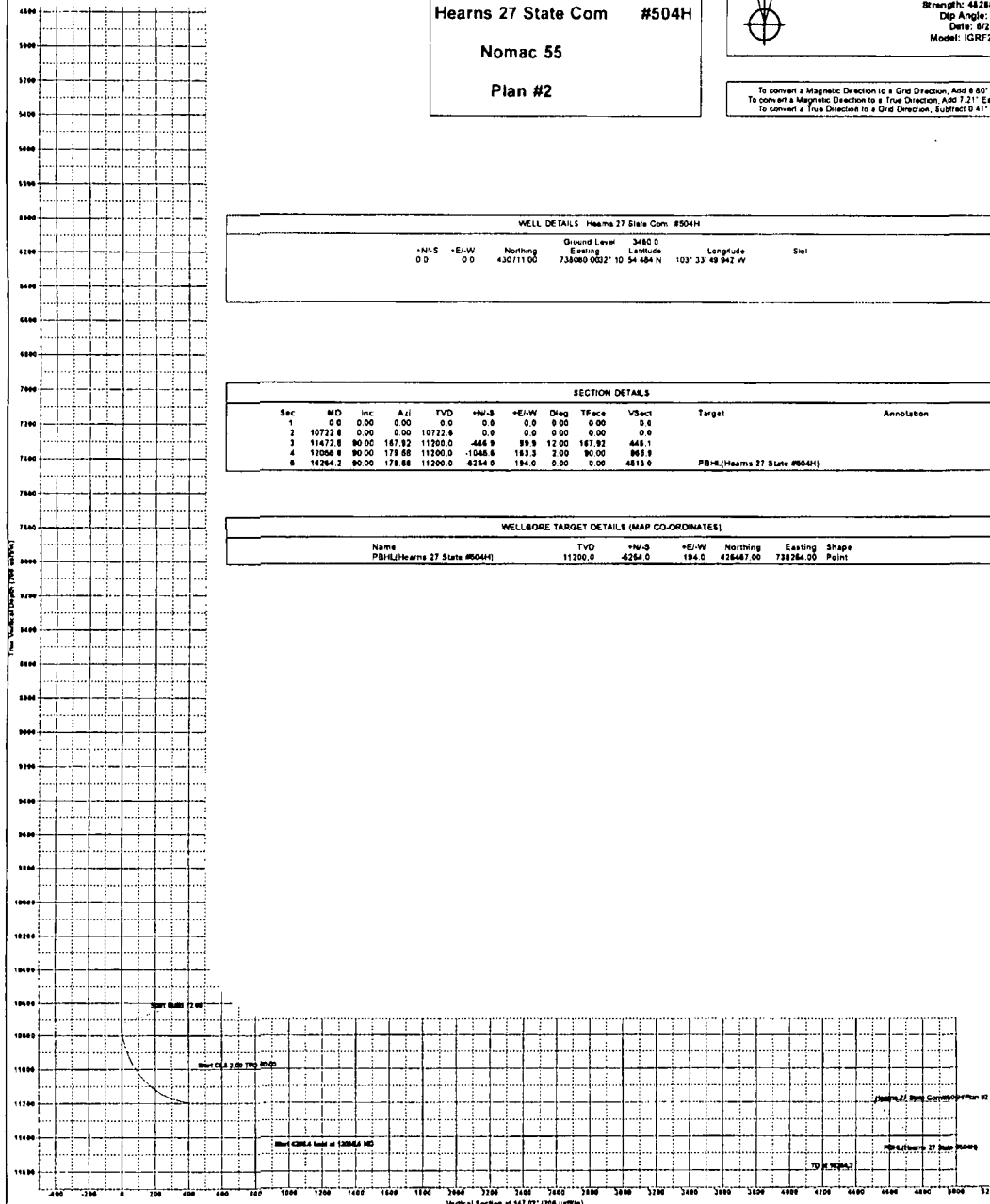
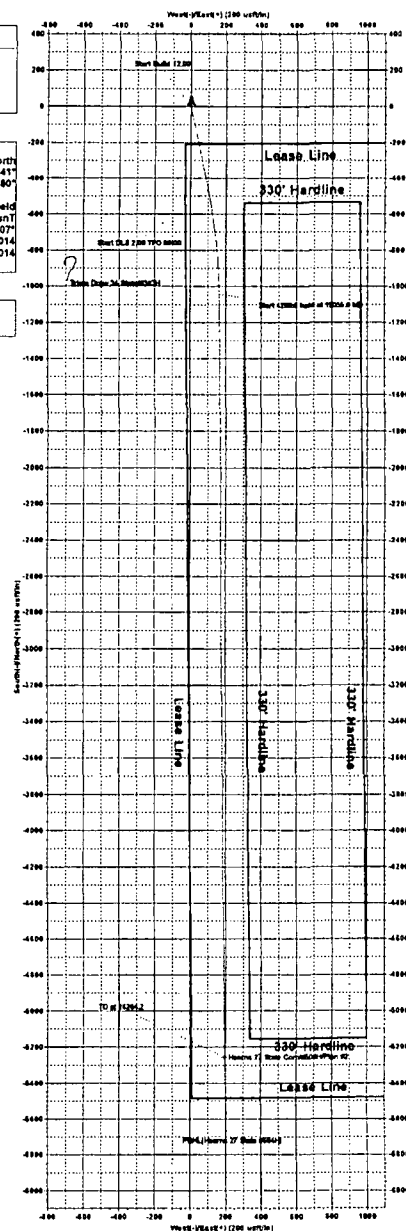
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	430711.00	738080.00	34.84 N	103° 33' 49.942 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSeal	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	10723.8	0.00	0.00	10723.8	0.0	0.0	0.00	0.00	0.0		
3	11472.8	90.00	167.92	11200.0	-466.9	89.9	12.00	167.92	448.1		
4	12056.8	90.00	178.68	11200.0	-1046.6	183.3	2.00	90.00	868.9		
5	16264.2	90.00	178.68	11200.0	-4234.9	194.0	0.00	0.00	4513.9	PBH (Hearns 27 State #504H)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBH (Hearns 27 State #504H)	11200.0	-4234.9	194.0	426467.00	738264.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#504H

OH

Plan: Plan #2

Standard Planning Report

02 September, 2014



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 #2

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 21 @ 3510.0usft (Nomac 55)
MD Reference: KB = 21 @ 3510.0usft (Nomac 55)
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
From:	Map	Easting:	737,910.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 10' 54.484 N
		Longitude:	103° 33' 51.687 W
		Grid Convergence:	0.41 °

Well	#504H		
Well Position	+N/-S	1.0 usft	Northing: 430,711.00 usft
	+E/-W	150.0 usft	Easting: 738,060.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 10' 54.484 N
		Longitude:	103° 33' 49.942 W
		Ground Level:	3,480.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF201014	6/23/2014	7.21
			Dip Angle
			60.07
			Field Strength
			48,289

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			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	
10,722.5	0.00	0.00	10,722.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,472.5	90.00	167.92	11,200.0	-466.9	99.9	12.00	12.00	0.00	167.92	
12,055.6	90.00	179.58	11,200.0	-1,045.5	163.3	2.00	0.00	2.00	90.00	
16,264.2	90.00	179.58	11,200.0	-5,254.0	194.0	0.00	0.00	0.00	0.00	PBHL(Hearn's 27 Stat



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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)
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	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



EOG Resources, Inc.

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Wellbore: OH
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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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	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: #504H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 21 @ 3510.0usft (Nomac 55)
MD Reference: KB = 21 @ 3510.0usft (Nomac 55)
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)
10,722.5	0.00	0.00	10,722.5	0.0	0.0	0.0	0.00	0.00	0.00
10,725.0	0.30	167.92	10,725.0	0.0	0.0	0.0	12.00	12.00	0.00
10,750.0	3.30	167.92	10,750.0	-0.8	0.2	0.7	12.00	12.00	0.00
10,775.0	6.30	167.92	10,774.9	-2.8	0.6	2.7	12.00	12.00	0.00
10,800.0	9.30	167.92	10,799.7	-6.1	1.3	5.9	12.00	12.00	0.00
10,825.0	12.30	167.92	10,824.2	-10.7	2.3	10.2	12.00	12.00	0.00
10,850.0	15.30	167.92	10,848.5	-16.5	3.5	15.8	12.00	12.00	0.00
10,875.0	18.30	167.92	10,872.4	-23.6	5.1	22.6	12.00	12.00	0.00
10,900.0	21.30	167.92	10,895.9	-31.9	6.8	30.5	12.00	12.00	0.00
10,925.0	24.30	167.92	10,919.0	-41.4	8.9	39.5	12.00	12.00	0.00
10,950.0	27.30	167.92	10,941.5	-52.0	11.1	49.7	12.00	12.00	0.00
10,975.0	30.30	167.92	10,963.4	-63.8	13.6	60.9	12.00	12.00	0.00
11,000.0	33.30	167.92	10,984.6	-76.7	16.4	73.2	12.00	12.00	0.00
11,025.0	36.30	167.92	11,005.2	-90.6	19.4	86.6	12.00	12.00	0.00
11,050.0	39.30	167.92	11,024.9	-105.6	22.6	100.9	12.00	12.00	0.00
11,075.0	42.30	167.92	11,043.8	-121.6	26.0	116.1	12.00	12.00	0.00
11,100.0	45.30	167.92	11,061.9	-138.5	29.6	132.3	12.00	12.00	0.00
11,125.0	48.30	167.92	11,079.0	-156.3	33.5	149.3	12.00	12.00	0.00
11,150.0	51.30	167.92	11,095.1	-175.0	37.4	167.2	12.00	12.00	0.00
11,175.0	54.30	167.92	11,110.2	-194.4	41.6	185.8	12.00	12.00	0.00
11,200.0	57.30	167.92	11,124.3	-214.7	45.9	205.1	12.00	12.00	0.00
11,225.0	60.30	167.92	11,137.2	-235.6	50.4	225.1	12.00	12.00	0.00
11,250.0	63.30	167.92	11,149.1	-257.1	55.0	245.6	12.00	12.00	0.00
11,275.0	66.30	167.92	11,159.7	-279.2	59.8	266.8	12.00	12.00	0.00
11,300.0	69.30	167.92	11,169.1	-301.9	64.6	288.4	12.00	12.00	0.00
11,325.0	72.30	167.92	11,177.4	-324.9	69.5	310.4	12.00	12.00	0.00
11,350.0	75.30	167.92	11,184.3	-348.4	74.6	332.9	12.00	12.00	0.00
11,375.0	78.30	167.92	11,190.0	-372.2	79.7	355.6	12.00	12.00	0.00
11,400.0	81.30	167.92	11,194.5	-396.3	84.8	378.6	12.00	12.00	0.00
11,425.0	84.30	167.92	11,197.6	-420.5	90.0	401.8	12.00	12.00	0.00
11,450.0	87.30	167.92	11,199.4	-444.9	95.2	425.0	12.00	12.00	0.00
11,472.5	90.00	167.92	11,200.0	-466.9	99.9	446.1	12.00	12.00	0.00
11,500.0	90.00	168.47	11,200.0	-493.8	105.5	471.7	2.00	0.00	2.00
11,600.0	90.00	170.47	11,200.0	-592.1	123.8	564.1	2.00	0.00	2.00
11,700.0	90.00	172.47	11,200.0	-691.0	138.7	655.1	2.00	0.00	2.00
11,800.0	90.00	174.47	11,200.0	-790.4	150.0	744.7	2.00	0.00	2.00
11,900.0	90.00	176.47	11,200.0	-890.0	157.9	832.6	2.00	0.00	2.00
12,000.0	90.00	178.47	11,200.0	-989.9	162.3	918.8	2.00	0.00	2.00
12,055.6	90.00	179.58	11,200.0	-1,045.5	163.3	965.9	2.00	0.00	2.00
12,100.0	90.00	179.58	11,200.0	-1,089.9	163.6	1,003.4	0.00	0.00	0.00
12,200.0	90.00	179.58	11,200.0	-1,189.9	164.3	1,087.6	0.00	0.00	0.00
12,300.0	90.00	179.58	11,200.0	-1,289.9	165.1	1,171.9	0.00	0.00	0.00
12,400.0	90.00	179.58	11,200.0	-1,389.9	165.8	1,256.2	0.00	0.00	0.00
12,500.0	90.00	179.58	11,200.0	-1,489.9	166.5	1,340.5	0.00	0.00	0.00
12,600.0	90.00	179.58	11,200.0	-1,589.9	167.3	1,424.8	0.00	0.00	0.00
12,700.0	90.00	179.58	11,200.0	-1,689.9	168.0	1,509.1	0.00	0.00	0.00
12,800.0	90.00	179.58	11,200.0	-1,789.9	168.7	1,593.3	0.00	0.00	0.00
12,900.0	90.00	179.58	11,200.0	-1,889.9	169.4	1,677.6	0.00	0.00	0.00
13,000.0	90.00	179.58	11,200.0	-1,989.9	170.2	1,761.9	0.00	0.00	0.00
13,100.0	90.00	179.58	11,200.0	-2,089.9	170.9	1,846.2	0.00	0.00	0.00
13,200.0	90.00	179.58	11,200.0	-2,189.9	171.6	1,930.5	0.00	0.00	0.00
13,300.0	90.00	179.58	11,200.0	-2,289.9	172.4	2,014.7	0.00	0.00	0.00
13,400.0	90.00	179.58	11,200.0	-2,389.9	173.1	2,099.0	0.00	0.00	0.00
13,500.0	90.00	179.58	11,200.0	-2,489.9	173.8	2,183.3	0.00	0.00	0.00



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13,600.0	90.00	179.58	11,200.0	-2,589.9	174.6	2,267.6	0.00	0.00	0.00
13,700.0	90.00	179.58	11,200.0	-2,689.9	175.3	2,351.9	0.00	0.00	0.00
13,800.0	90.00	179.58	11,200.0	-2,789.9	176.0	2,436.2	0.00	0.00	0.00
13,900.0	90.00	179.58	11,200.0	-2,889.9	176.7	2,520.4	0.00	0.00	0.00
14,000.0	90.00	179.58	11,200.0	-2,989.9	177.5	2,604.7	0.00	0.00	0.00
14,100.0	90.00	179.58	11,200.0	-3,089.9	178.2	2,689.0	0.00	0.00	0.00
14,200.0	90.00	179.58	11,200.0	-3,189.9	178.9	2,773.3	0.00	0.00	0.00
14,300.0	90.00	179.58	11,200.0	-3,289.9	179.7	2,857.6	0.00	0.00	0.00
14,400.0	90.00	179.58	11,200.0	-3,389.9	180.4	2,941.8	0.00	0.00	0.00
14,500.0	90.00	179.58	11,200.0	-3,489.9	181.1	3,026.1	0.00	0.00	0.00
14,600.0	90.00	179.58	11,200.0	-3,589.9	181.9	3,110.4	0.00	0.00	0.00
14,700.0	90.00	179.58	11,200.0	-3,689.9	182.6	3,194.7	0.00	0.00	0.00
14,800.0	90.00	179.58	11,200.0	-3,789.9	183.3	3,279.0	0.00	0.00	0.00
14,900.0	90.00	179.58	11,200.0	-3,889.9	184.0	3,363.3	0.00	0.00	0.00
15,000.0	90.00	179.58	11,200.0	-3,989.8	184.8	3,447.5	0.00	0.00	0.00
15,100.0	90.00	179.58	11,200.0	-4,089.8	185.5	3,531.8	0.00	0.00	0.00
15,200.0	90.00	179.58	11,200.0	-4,189.8	186.2	3,616.1	0.00	0.00	0.00
15,300.0	90.00	179.58	11,200.0	-4,289.8	187.0	3,700.4	0.00	0.00	0.00
15,400.0	90.00	179.58	11,200.0	-4,389.8	187.7	3,784.7	0.00	0.00	0.00
15,500.0	90.00	179.58	11,200.0	-4,489.8	188.4	3,868.9	0.00	0.00	0.00
15,600.0	90.00	179.58	11,200.0	-4,589.8	189.2	3,953.2	0.00	0.00	0.00
15,700.0	90.00	179.58	11,200.0	-4,689.8	189.9	4,037.5	0.00	0.00	0.00
15,800.0	90.00	179.58	11,200.0	-4,789.8	190.6	4,121.8	0.00	0.00	0.00
15,900.0	90.00	179.58	11,200.0	-4,889.8	191.3	4,206.1	0.00	0.00	0.00
16,000.0	90.00	179.58	11,200.0	-4,989.8	192.1	4,290.4	0.00	0.00	0.00
16,100.0	90.00	179.58	11,200.0	-5,089.8	192.8	4,374.6	0.00	0.00	0.00
16,200.0	90.00	179.58	11,200.0	-5,189.8	193.5	4,458.9	0.00	0.00	0.00
16,264.2	90.00	179.58	11,200.0	-5,254.0	194.0	4,513.0	0.00	0.00	0.00

PBHL(Hearn's 27 State #504H)

Design Targets

Target Name

- hit/mis target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL(Hearn's 27 State #	0.00	0.00	11,200.0	-5,254.0	194.0	425,457.00	738,254.00	32° 10' 2.479 N	103° 33' 48.122 W
- plan hits target center									
- Point									