

Permit Information:

Well Name: Hearn's 27 State Com No. 501H

Location:

SL: 210' FSL & 570' FWL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

BIIL: 230' FSL & 380' 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'-16,267'	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
16,267'	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' – 16,267' Lateral	Cut Brine	9.0-9.5	40-42	8-10

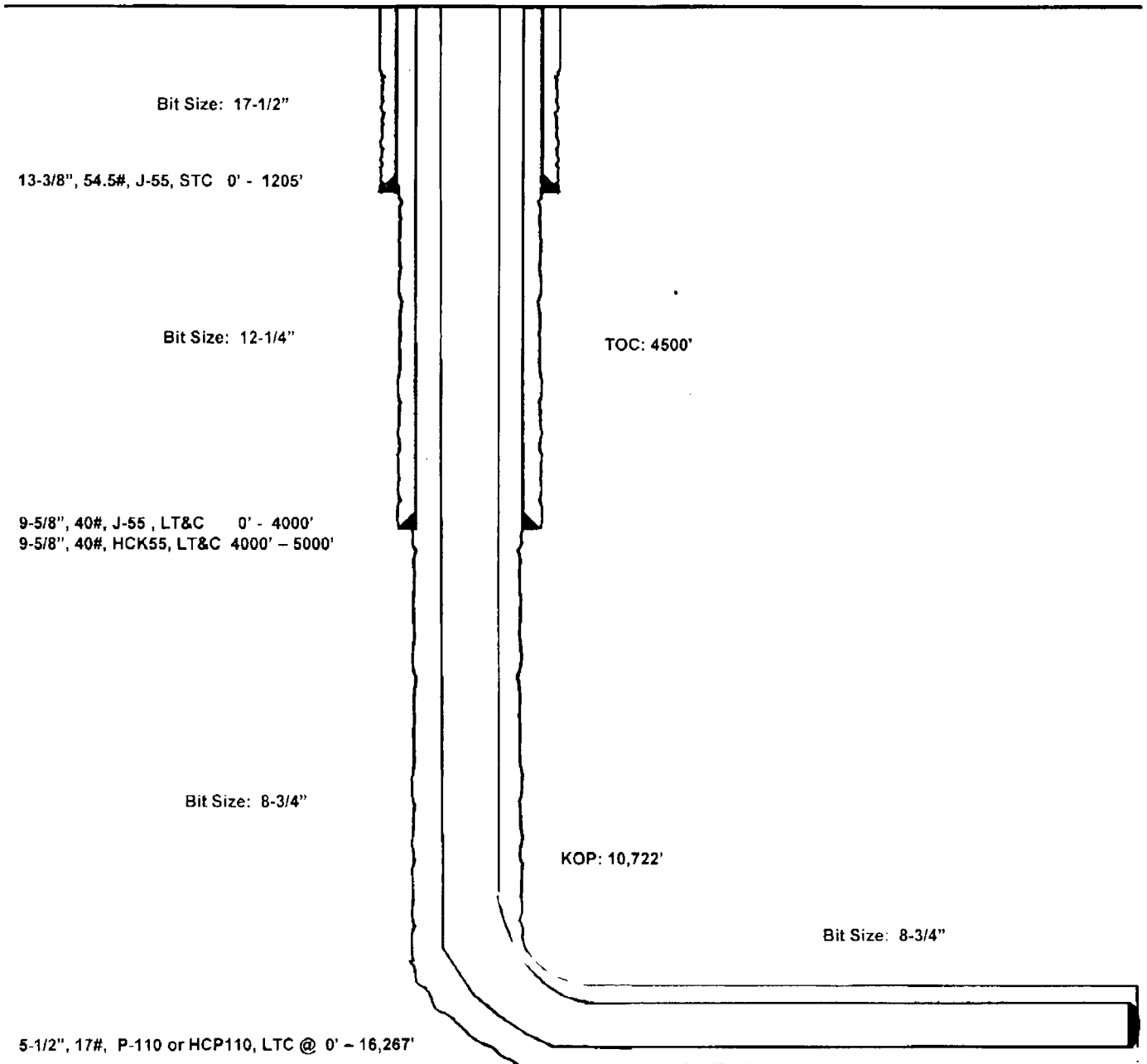
Hearns 27 State Com #501H
Lea County, New Mexico

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

Proposed Wellbore

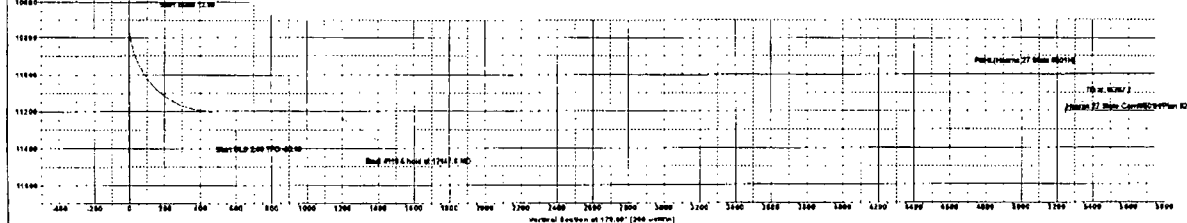
API: 30-025-

KB: 3,500'
GL: 3,479'



Lateral: 16,267' MD, 11,200' TVD

BH Location: 230' FSL & 380' FWL
Section 34
T-24-S, R-33-E





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#501H

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 27 State Com
Well: #501H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 21 @ 3500.0usft (Nomac 55)
MD Reference: KB = 21 @ 3500.0usft (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	Hearns 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	#501H					
Well Position	+N/-S	-5.0 usft	Northing:	430,705.00 usft	Latitude:	32° 10' 54.479 N
	+E/-W	-629.0 usft	Easting:	737,281.00 usft	Longitude:	103° 33' 59.006 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,479.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	6/23/2014	7.21	60.07	48.289

Design	Plan #2			
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	178.60

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	193.08	11,200.0	-465.1	-108.1	12.00	12.00	0.00	193.08	
12,147.6	90.00	179.58	11,200.0	-1,134.5	-182.3	2.00	0.00	-2.00	-90.00	
16,267.2	90.00	179.58	11,200.0	-5,254.0	-152.0	0.00	0.00	0.00	0.00	PBHL(Hearn 27 Stat



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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



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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



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid 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	193.08	10,725.0	0.0	0.0	0.0	12.00	12.00	0.00
10,750.0	3.30	193.08	10,750.0	-0.8	-0.2	0.8	12.00	12.00	0.00
10,775.0	6.30	193.08	10,774.9	-2.8	-0.7	2.8	12.00	12.00	0.00
10,800.0	9.30	193.08	10,799.7	-6.1	-1.4	6.1	12.00	12.00	0.00
10,825.0	12.30	193.08	10,824.2	-10.7	-2.5	10.6	12.00	12.00	0.00
10,850.0	15.30	193.08	10,848.5	-16.5	-3.8	16.4	12.00	12.00	0.00
10,875.0	18.30	193.08	10,872.4	-23.5	-5.5	23.4	12.00	12.00	0.00
10,900.0	21.30	193.08	10,895.9	-31.8	-7.4	31.6	12.00	12.00	0.00
10,925.0	24.30	193.08	10,919.0	-41.2	-9.6	41.0	12.00	12.00	0.00
10,950.0	27.30	193.08	10,941.5	-51.8	-12.0	51.5	12.00	12.00	0.00
10,975.0	30.30	193.08	10,963.4	-63.5	-14.8	63.2	12.00	12.00	0.00
11,000.0	33.30	193.08	10,984.6	-76.4	-17.7	75.9	12.00	12.00	0.00
11,025.0	36.30	193.08	11,005.2	-90.3	-21.0	89.7	12.00	12.00	0.00
11,050.0	39.30	193.08	11,024.9	-105.2	-24.4	104.6	12.00	12.00	0.00
11,075.0	42.30	193.08	11,043.8	-121.1	-28.1	120.4	12.00	12.00	0.00
11,100.0	45.30	193.08	11,061.9	-137.9	-32.0	137.1	12.00	12.00	0.00
11,125.0	48.30	193.08	11,079.0	-155.7	-36.2	154.8	12.00	12.00	0.00
11,150.0	51.30	193.08	11,095.1	-174.3	-40.5	173.3	12.00	12.00	0.00
11,175.0	54.30	193.08	11,110.2	-193.7	-45.0	192.5	12.00	12.00	0.00
11,200.0	57.30	193.08	11,124.3	-213.8	-49.7	212.5	12.00	12.00	0.00
11,225.0	60.30	193.08	11,137.2	-234.7	-54.5	233.3	12.00	12.00	0.00
11,250.0	63.30	193.08	11,149.1	-256.1	-59.5	254.6	12.00	12.00	0.00
11,275.0	66.30	193.08	11,159.7	-278.1	-64.6	276.5	12.00	12.00	0.00
11,300.0	69.30	193.08	11,169.1	-300.7	-69.9	298.9	12.00	12.00	0.00
11,325.0	72.30	193.08	11,177.4	-323.7	-75.2	321.7	12.00	12.00	0.00
11,350.0	75.30	193.08	11,184.3	-347.1	-80.6	345.0	12.00	12.00	0.00
11,375.0	78.30	193.08	11,190.0	-370.8	-86.1	368.6	12.00	12.00	0.00
11,400.0	81.30	193.08	11,194.5	-394.7	-91.7	392.4	12.00	12.00	0.00
11,425.0	84.30	193.08	11,197.6	-418.9	-97.3	416.4	12.00	12.00	0.00
11,450.0	87.30	193.08	11,199.4	-443.2	-103.0	440.5	12.00	12.00	0.00
11,472.5	90.00	193.08	11,200.0	-465.1	-108.1	462.3	12.00	12.00	0.00
11,500.0	90.00	192.53	11,200.0	-491.9	-114.2	489.0	2.00	0.00	-2.00
11,600.0	90.00	190.53	11,200.0	-589.9	-134.1	586.4	2.00	0.00	-2.00
11,700.0	90.00	188.53	11,200.0	-688.5	-150.7	684.6	2.00	0.00	-2.00
11,800.0	90.00	186.53	11,200.0	-787.6	-163.8	783.4	2.00	0.00	-2.00
11,900.0	90.00	184.53	11,200.0	-887.1	-173.4	882.7	2.00	0.00	-2.00
12,000.0	90.00	182.53	11,200.0	-987.0	-179.6	982.3	2.00	0.00	-2.00
12,100.0	90.00	180.53	11,200.0	-1,086.9	-182.3	1,082.1	2.00	0.00	-2.00
12,147.6	90.00	179.58	11,200.0	-1,134.5	-182.3	1,129.7	2.00	0.00	-2.00
12,200.0	90.00	179.58	11,200.0	-1,186.9	-181.9	1,182.1	0.00	0.00	0.00
12,300.0	90.00	179.58	11,200.0	-1,286.9	-181.2	1,282.1	0.00	0.00	0.00
12,400.0	90.00	179.58	11,200.0	-1,386.9	-180.4	1,382.1	0.00	0.00	0.00
12,500.0	90.00	179.58	11,200.0	-1,486.9	-179.7	1,482.1	0.00	0.00	0.00
12,600.0	90.00	179.58	11,200.0	-1,586.9	-179.0	1,582.1	0.00	0.00	0.00
12,700.0	90.00	179.58	11,200.0	-1,686.9	-178.2	1,682.0	0.00	0.00	0.00
12,800.0	90.00	179.58	11,200.0	-1,786.9	-177.5	1,782.0	0.00	0.00	0.00
12,900.0	90.00	179.58	11,200.0	-1,886.9	-176.8	1,882.0	0.00	0.00	0.00
13,000.0	90.00	179.58	11,200.0	-1,986.9	-176.0	1,982.0	0.00	0.00	0.00
13,100.0	90.00	179.58	11,200.0	-2,086.9	-175.3	2,082.0	0.00	0.00	0.00
13,200.0	90.00	179.58	11,200.0	-2,186.9	-174.6	2,182.0	0.00	0.00	0.00
13,300.0	90.00	179.58	11,200.0	-2,286.9	-173.8	2,282.0	0.00	0.00	0.00
13,400.0	90.00	179.58	11,200.0	-2,386.9	-173.1	2,381.9	0.00	0.00	0.00
13,500.0	90.00	179.58	11,200.0	-2,486.9	-172.4	2,481.9	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: #501H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 21 @ 3500.0usft (Nomac 55)
MD Reference: KB = 21 @ 3500.0usft (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)
13,600.0	90.00	179.58	11,200.0	-2,586.9	-171.6	2,581.9	0.00	0.00	0.00
13,700.0	90.00	179.58	11,200.0	-2,686.9	-170.9	2,681.9	0.00	0.00	0.00
13,800.0	90.00	179.58	11,200.0	-2,786.9	-170.1	2,781.9	0.00	0.00	0.00
13,900.0	90.00	179.58	11,200.0	-2,886.9	-169.4	2,881.9	0.00	0.00	0.00
14,000.0	90.00	179.58	11,200.0	-2,986.9	-168.7	2,981.9	0.00	0.00	0.00
14,100.0	90.00	179.58	11,200.0	-3,086.9	-167.9	3,081.8	0.00	0.00	0.00
14,200.0	90.00	179.58	11,200.0	-3,186.9	-167.2	3,181.8	0.00	0.00	0.00
14,300.0	90.00	179.58	11,200.0	-3,286.9	-166.5	3,281.8	0.00	0.00	0.00
14,400.0	90.00	179.58	11,200.0	-3,386.8	-165.7	3,381.8	0.00	0.00	0.00
14,500.0	90.00	179.58	11,200.0	-3,486.8	-165.0	3,481.8	0.00	0.00	0.00
14,600.0	90.00	179.58	11,200.0	-3,586.8	-164.3	3,581.8	0.00	0.00	0.00
14,700.0	90.00	179.58	11,200.0	-3,686.8	-163.5	3,681.8	0.00	0.00	0.00
14,800.0	90.00	179.58	11,200.0	-3,786.8	-162.8	3,781.7	0.00	0.00	0.00
14,900.0	90.00	179.58	11,200.0	-3,886.8	-162.1	3,881.7	0.00	0.00	0.00
15,000.0	90.00	179.58	11,200.0	-3,986.8	-161.3	3,981.7	0.00	0.00	0.00
15,100.0	90.00	179.58	11,200.0	-4,086.8	-160.6	4,081.7	0.00	0.00	0.00
15,200.0	90.00	179.58	11,200.0	-4,186.8	-159.9	4,181.7	0.00	0.00	0.00
15,300.0	90.00	179.58	11,200.0	-4,286.8	-159.1	4,281.7	0.00	0.00	0.00
15,400.0	90.00	179.58	11,200.0	-4,386.8	-158.4	4,381.7	0.00	0.00	0.00
15,500.0	90.00	179.58	11,200.0	-4,486.8	-157.6	4,481.6	0.00	0.00	0.00
15,600.0	90.00	179.58	11,200.0	-4,586.8	-156.9	4,581.6	0.00	0.00	0.00
15,700.0	90.00	179.58	11,200.0	-4,686.8	-156.2	4,681.6	0.00	0.00	0.00
15,800.0	90.00	179.58	11,200.0	-4,786.8	-155.4	4,781.6	0.00	0.00	0.00
15,900.0	90.00	179.58	11,200.0	-4,886.8	-154.7	4,881.6	0.00	0.00	0.00
16,000.0	90.00	179.58	11,200.0	-4,986.8	-154.0	4,981.6	0.00	0.00	0.00
16,100.0	90.00	179.58	11,200.0	-5,086.8	-153.2	5,081.6	0.00	0.00	0.00
16,200.0	90.00	179.58	11,200.0	-5,186.8	-152.5	5,181.5	0.00	0.00	0.00
16,267.2	90.00	179.58	11,200.0	-5,254.0	-152.0	5,248.7	0.00	0.00	0.00

PBHL(Hearn's 27 State #501H)

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									
PBHL(Hearn's 27 State #	0.00	0.00	11,200.0	-5,254.0	-152.0	425,451.00	737,129.00	32° 10' 2.499 N	103° 34' 1.210 W
- plan hits target center									
- Point									