

HOBBS OGD

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

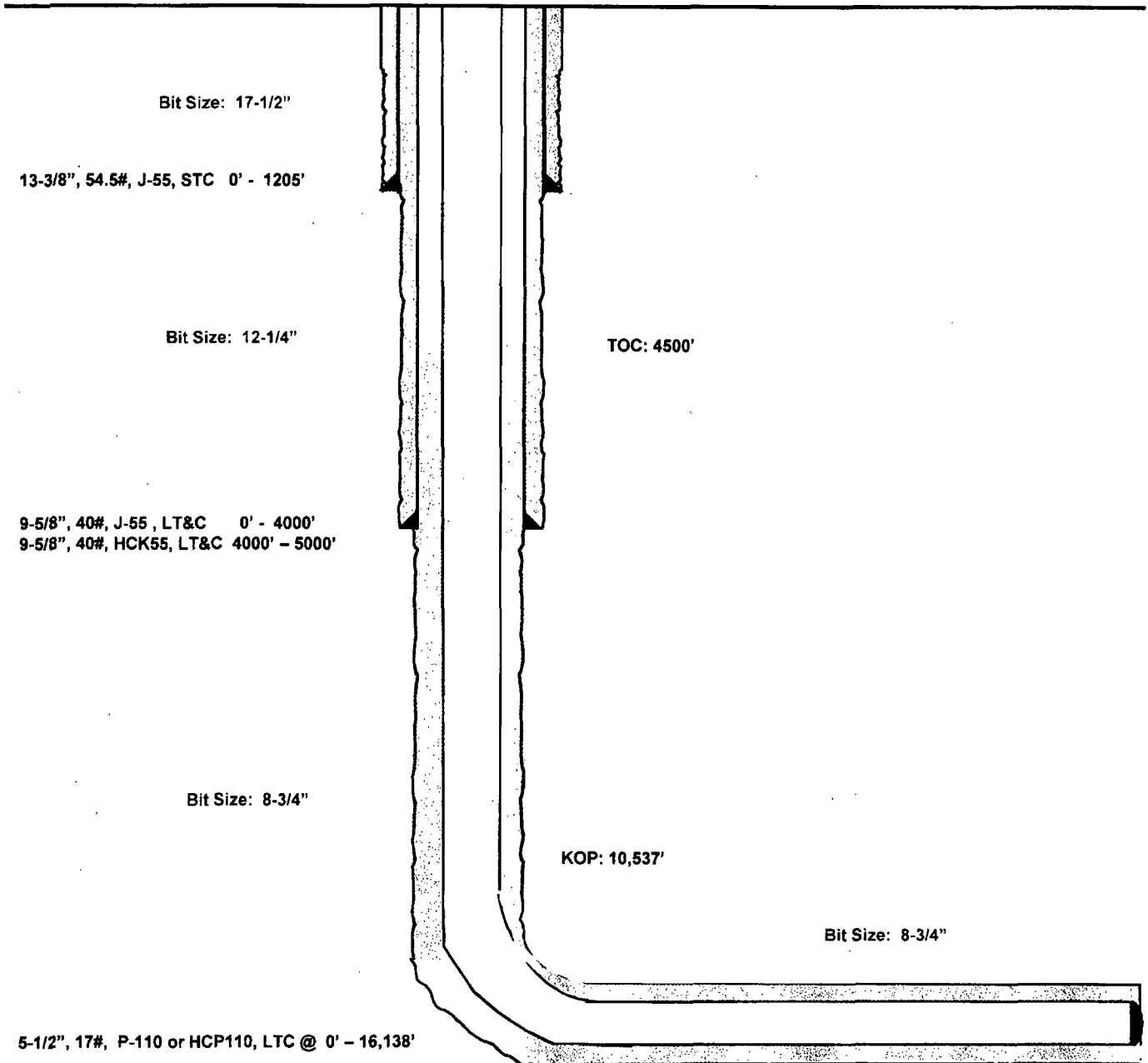
MAR 10 2015

RECEIVED

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

Proposed Wellbore
Revised 3/6/15
API: 30-025-42087

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



Lateral: 16,138' MD, 11,130' TVD

BH Location: 230' FSL & 1890' FWL
Section 34
T-24-S, R-33-E

MAR 10 2015



Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#504H

Catus #123

Plan #6

WELL DETAILS: #504H

Ground Level: 3488.0
KB = 30 @ 3518.0usft (Catus #123)

+N/-S	+E/-W	Northing
0.0	0.0	430806.00

Easting	Latitude	Longitude
738830.0032° 10'	55.369 N	103° 33' 40.975 W

Azimuths to Grid North
 True North: -0.41°
 Magnetic North: 6.78°
 Magnetic Field
 Strength: 48142.16nT
 Dip Angle: 80.05°
 Date: 3/29/2015
 Model: KGRF2015

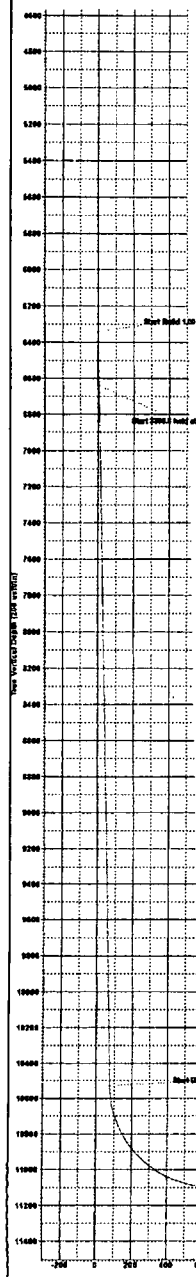
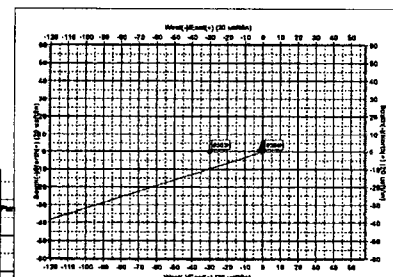
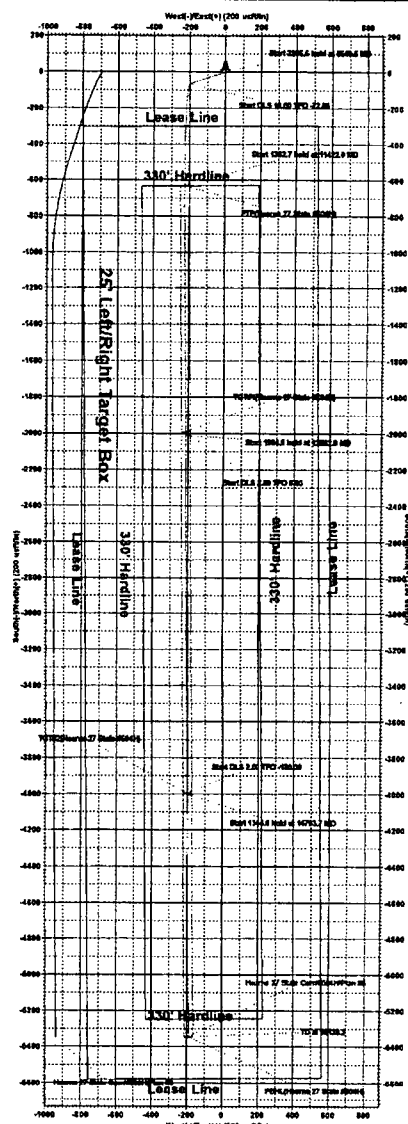
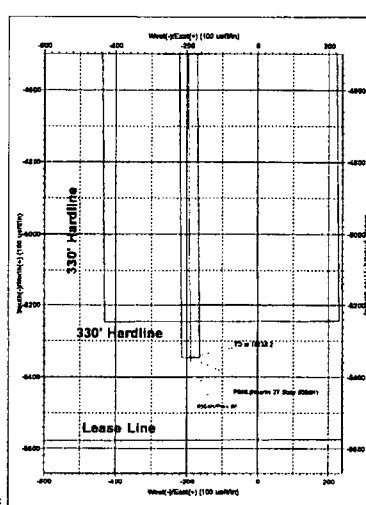
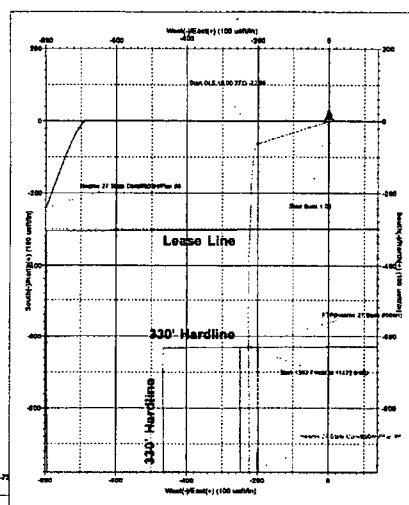
To convert a Magnetic Direction to a Grd Direction, Add 8.77°
 To convert a Magnetic Direction to a True Direction, Add 7.19° East
 To convert a True Direction to a Grd Direction, Subtract 0.41°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V8ect	Target
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
2	6340.0	0.00	0.00	6340.0	0.0	0.0	0.00	0.0	0.0	
3	6540.6	3.01	252.38	6640.4	-2.4	-7.5	1.00	252.38	2.7	
4	10537.1	3.01	252.38	10531.6	-64.2	-202.3	0.00	0.00	71.4	
5	11422.0	89.37	179.57	11095.0	-631.0	-226.0	10.00	-72.86	638.7	FTP(Hearns 27 State #504H)
6	12784.7	89.37	179.57	11110.0	-1893.6	-215.9	0.00	0.00	2000.0	TG#1(Hearns 27 State #504H)
7	12820.9	89.72	179.57	11119.1	-2019.9	-15.8	2.00	0.00	2017.4	
8	14786.6	89.72	179.57	11120.0	-3995.0	-20.1	2.00	0.00	4000.0	TG#2(Hearns 27 State #504H)
9	14793.7	89.57	179.57	11120.0	-4002.5	-201.0	2.00	-180.00	4007.1	
10	16138.2	89.57	179.57	11130.0	-5347.0	-191.0	0.00	0.00	5350.4	PBHL(Hearns 27 State #504H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTPO/Hearns 27 State #5044	11089.0	-651.0	-226.0	430178.00	738604.00	Point
TOT(Hearns 27 State #5044)	11110.0	-1893.6	-215.8	428212.49	738514.11	Point
TOT2(Hearns 27 State #5044)	11120.0	-3896.4	-201.0	426310.80	738628.97	Point
PBHL(Hearns 27 State #5044)	11132.0	-6347.0	-181.0	425456.00	738629.00	Rectangle (Sides: L2.0 W50.0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#504H

OH

Plan: Plan #6

Standard Planning Report

06 March, 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: Hears 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 30 @ 3518.0usft (Catus #123)
MD Reference: KB = 30 @ 3518.0usft (Catus #123)
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	Hears 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	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
		Latitude:	32° 10' 55.369 N
		Longitude:	103° 33' 40.975 W
		Ground Level:	3,488.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/29/2015	(°)
			7.19
		Dip Angle	(°)
		60.05	
		Field Strength	(nT)
		48,142	

Design	Plan #6		
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
			(°)
			182.05

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	
6,340.0	0.00	0.00	6,340.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,640.6	3.01	252.38	6,640.4	-2.4	-7.5	1.00	1.00	0.00	252.38	
10,537.1	3.01	252.38	10,531.6	-64.2	-202.3	0.00	0.00	0.00	0.00	
11,422.0	89.37	179.57	11,095.0	-631.0	-226.0	10.00	9.76	-8.23	-72.86	FTP(Hears 27 State
12,784.7	89.37	179.57	11,110.0	-1,993.6	-215.9	0.00	0.00	0.00	0.00	TGT#1(Hears 27 St
12,802.0	89.72	179.57	11,110.1	-2,010.9	-215.8	2.00	2.00	0.00	0.00	
14,786.6	89.72	179.57	11,120.0	-3,995.4	-201.0	0.00	0.00	0.00	0.00	TGT#2(Hears 27 St
14,793.7	89.57	179.57	11,120.0	-4,002.5	-201.0	2.00	-2.00	0.00	-180.00	
16,138.2	89.57	179.57	11,130.0	-5,347.0	-191.0	0.00	0.00	0.00	0.00	PBHL(Hears 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.

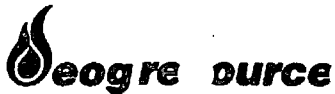
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 Survey Calculation Method: Minimum Curvature

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)
5,400.0	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
6,340.0	0.00	0.00	6,340.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.60	252.38	6,400.0	-0.1	-0.3	0.1	1.00	1.00	0.00
6,500.0	1.60	252.38	6,500.0	-0.7	-2.1	0.8	1.00	1.00	0.00
6,600.0	2.60	252.38	6,599.9	-1.8	-5.6	2.0	1.00	1.00	0.00
6,640.6	3.01	252.38	6,640.4	-2.4	-7.5	2.7	1.00	1.00	0.00
6,700.0	3.01	252.38	6,699.8	-3.3	-10.5	3.7	0.00	0.00	0.00
6,800.0	3.01	252.38	6,799.6	-4.9	-15.5	5.5	0.00	0.00	0.00
6,900.0	3.01	252.38	6,899.5	-6.5	-20.5	7.2	0.00	0.00	0.00
7,000.0	3.01	252.38	6,999.4	-8.1	-25.5	9.0	0.00	0.00	0.00
7,100.0	3.01	252.38	7,099.2	-9.7	-30.5	10.8	0.00	0.00	0.00
7,200.0	3.01	252.38	7,199.1	-11.3	-35.5	12.5	0.00	0.00	0.00
7,300.0	3.01	252.38	7,299.0	-12.8	-40.5	14.3	0.00	0.00	0.00
7,400.0	3.01	252.38	7,398.8	-14.4	-45.5	16.1	0.00	0.00	0.00
7,500.0	3.01	252.38	7,498.7	-16.0	-50.5	17.8	0.00	0.00	0.00
7,600.0	3.01	252.38	7,598.5	-17.6	-55.5	19.6	0.00	0.00	0.00
7,700.0	3.01	252.38	7,698.4	-19.2	-60.5	21.3	0.00	0.00	0.00
7,800.0	3.01	252.38	7,798.3	-20.8	-65.5	23.1	0.00	0.00	0.00
7,900.0	3.01	252.38	7,898.1	-22.4	-70.5	24.9	0.00	0.00	0.00
8,000.0	3.01	252.38	7,998.0	-24.0	-75.5	26.6	0.00	0.00	0.00
8,100.0	3.01	252.38	8,097.9	-25.5	-80.5	28.4	0.00	0.00	0.00
8,200.0	3.01	252.38	8,197.7	-27.1	-85.4	30.2	0.00	0.00	0.00
8,300.0	3.01	252.38	8,297.6	-28.7	-90.4	31.9	0.00	0.00	0.00
8,400.0	3.01	252.38	8,397.4	-30.3	-95.4	33.7	0.00	0.00	0.00
8,500.0	3.01	252.38	8,497.3	-31.9	-100.4	35.5	0.00	0.00	0.00
8,600.0	3.01	252.38	8,597.2	-33.5	-105.4	37.2	0.00	0.00	0.00
8,700.0	3.01	252.38	8,697.0	-35.1	-110.4	39.0	0.00	0.00	0.00
8,800.0	3.01	252.38	8,796.9	-36.7	-115.4	40.7	0.00	0.00	0.00
8,900.0	3.01	252.38	8,896.8	-38.2	-120.4	42.5	0.00	0.00	0.00
9,000.0	3.01	252.38	8,996.6	-39.8	-125.4	44.3	0.00	0.00	0.00
9,100.0	3.01	252.38	9,096.5	-41.4	-130.4	46.0	0.00	0.00	0.00
9,200.0	3.01	252.38	9,196.3	-43.0	-135.4	47.8	0.00	0.00	0.00
9,300.0	3.01	252.38	9,296.2	-44.6	-140.4	49.6	0.00	0.00	0.00
9,400.0	3.01	252.38	9,396.1	-46.2	-145.4	51.3	0.00	0.00	0.00
9,500.0	3.01	252.38	9,495.9	-47.8	-150.4	53.1	0.00	0.00	0.00
9,600.0	3.01	252.38	9,595.8	-49.3	-155.4	54.9	0.00	0.00	0.00
9,700.0	3.01	252.38	9,695.7	-50.9	-160.4	56.6	0.00	0.00	0.00
9,800.0	3.01	252.38	9,795.5	-52.5	-165.4	58.4	0.00	0.00	0.00
9,900.0	3.01	252.38	9,895.4	-54.1	-170.4	60.2	0.00	0.00	0.00
10,000.0	3.01	252.38	9,995.2	-55.7	-175.4	61.9	0.00	0.00	0.00
10,100.0	3.01	252.38	10,095.1	-57.3	-180.4	63.7	0.00	0.00	0.00
10,200.0	3.01	252.38	10,195.0	-58.9	-185.4	65.4	0.00	0.00	0.00
10,300.0	3.01	252.38	10,294.8	-60.5	-190.4	67.2	0.00	0.00	0.00
10,400.0	3.01	252.38	10,394.7	-62.0	-195.4	69.0	0.00	0.00	0.00
10,500.0	3.01	252.38	10,494.6	-63.6	-200.4	70.7	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 27 State Com
Well: #504H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 30 @ 3518.0usft (Catus #123)
MD Reference: KB = 30 @ 3518.0usft (Catus #123)
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)
10,537.1	3.01	252.38	10,531.6	-64.2	-202.3	71.4	0.00	0.00	0.00
10,550.0	3.60	232.43	10,544.5	-64.6	-202.9	71.8	10.00	4.63	-155.29
10,600.0	7.72	201.26	10,594.2	-68.7	-205.4	75.9	10.00	8.24	-62.34
10,650.0	12.50	192.62	10,643.4	-77.1	-207.8	84.4	10.00	9.56	-17.27
10,700.0	17.40	188.75	10,691.7	-89.8	-210.1	97.2	10.00	9.80	-7.74
10,750.0	22.35	186.55	10,738.7	-106.6	-212.3	114.1	10.00	9.89	-4.40
10,800.0	27.31	185.12	10,784.1	-127.5	-214.4	135.1	10.00	9.93	-2.87
10,850.0	32.29	184.10	10,827.5	-152.2	-216.4	159.9	10.00	9.95	-2.04
10,900.0	37.27	183.32	10,868.5	-180.7	-218.2	188.4	10.00	9.96	-1.55
10,950.0	42.25	182.71	10,907.0	-212.6	-219.9	220.3	10.00	9.97	-1.23
11,000.0	47.24	182.20	10,942.5	-247.8	-221.4	255.5	10.00	9.97	-1.01
11,050.0	52.23	181.77	10,974.8	-285.9	-222.7	293.7	10.00	9.98	-0.86
11,100.0	57.22	181.39	11,003.6	-326.7	-223.8	334.5	10.00	9.98	-0.75
11,150.0	62.21	181.06	11,028.9	-369.8	-224.8	377.6	10.00	9.98	-0.67
11,200.0	67.20	180.75	11,050.2	-415.0	-225.5	422.8	10.00	9.98	-0.61
11,250.0	72.19	180.47	11,067.6	-461.9	-226.0	469.7	10.00	9.99	-0.57
11,300.0	77.19	180.20	11,080.8	-510.1	-226.2	517.8	10.00	9.99	-0.54
11,350.0	82.18	179.94	11,089.7	-559.3	-226.3	567.0	10.00	9.99	-0.52
11,400.0	87.18	179.68	11,094.3	-609.0	-226.1	616.7	10.00	9.99	-0.51
11,422.0	89.37	179.57	11,095.0	-631.0	-226.0	638.7	10.00	9.99	-0.50
FTP(Hearn 27 State #504H)									
11,500.0	89.37	179.57	11,095.9	-709.0	-225.4	716.6	0.00	0.00	0.00
11,600.0	89.37	179.57	11,097.0	-809.0	-224.7	816.5	0.00	0.00	0.00
11,700.0	89.37	179.57	11,098.1	-909.0	-223.9	916.4	0.00	0.00	0.00
11,800.0	89.37	179.57	11,099.2	-1,009.0	-223.2	1,016.3	0.00	0.00	0.00
11,900.0	89.37	179.57	11,100.3	-1,109.0	-222.5	1,116.2	0.00	0.00	0.00
12,000.0	89.37	179.57	11,101.4	-1,209.0	-221.7	1,216.1	0.00	0.00	0.00
12,100.0	89.37	179.57	11,102.5	-1,309.0	-221.0	1,316.0	0.00	0.00	0.00
12,200.0	89.37	179.57	11,103.6	-1,409.0	-220.2	1,415.9	0.00	0.00	0.00
12,300.0	89.37	179.57	11,104.7	-1,509.0	-219.5	1,515.8	0.00	0.00	0.00
12,400.0	89.37	179.57	11,105.8	-1,608.9	-218.7	1,615.7	0.00	0.00	0.00
12,500.0	89.37	179.57	11,106.9	-1,708.9	-218.0	1,715.6	0.00	0.00	0.00
12,600.0	89.37	179.57	11,108.0	-1,808.9	-217.3	1,815.5	0.00	0.00	0.00
12,700.0	89.37	179.57	11,109.1	-1,908.9	-216.5	1,915.4	0.00	0.00	0.00
12,784.7	89.37	179.57	11,110.0	-1,993.6	-215.9	2,000.0	0.00	0.00	0.00
TGT#1(Hearn 27 State #504H)									
12,802.0	89.72	179.57	11,110.1	-2,010.9	-215.8	2,017.4	2.00	2.00	0.00
12,900.0	89.72	179.57	11,110.6	-2,108.9	-215.0	2,115.2	0.00	0.00	0.00
13,000.0	89.72	179.57	11,111.1	-2,208.9	-214.3	2,215.1	0.00	0.00	0.00
13,100.0	89.72	179.57	11,111.6	-2,308.9	-213.5	2,315.0	0.00	0.00	0.00
13,200.0	89.72	179.57	11,112.1	-2,408.9	-212.8	2,415.0	0.00	0.00	0.00
13,300.0	89.72	179.57	11,112.6	-2,508.9	-212.1	2,514.9	0.00	0.00	0.00
13,400.0	89.72	179.57	11,113.1	-2,608.9	-211.3	2,614.8	0.00	0.00	0.00
13,500.0	89.72	179.57	11,113.6	-2,708.9	-210.6	2,714.7	0.00	0.00	0.00
13,600.0	89.72	179.57	11,114.1	-2,808.9	-209.8	2,814.6	0.00	0.00	0.00
13,700.0	89.72	179.57	11,114.6	-2,908.9	-209.1	2,914.5	0.00	0.00	0.00
13,800.0	89.72	179.57	11,115.1	-3,008.9	-208.4	3,014.4	0.00	0.00	0.00
13,900.0	89.72	179.57	11,115.6	-3,108.9	-207.6	3,114.3	0.00	0.00	0.00
14,000.0	89.72	179.57	11,116.1	-3,208.9	-206.9	3,214.2	0.00	0.00	0.00
14,100.0	89.72	179.57	11,116.6	-3,308.9	-206.1	3,314.1	0.00	0.00	0.00
14,200.0	89.72	179.57	11,117.1	-3,408.9	-205.4	3,414.0	0.00	0.00	0.00
14,300.0	89.72	179.57	11,117.6	-3,508.9	-204.6	3,513.9	0.00	0.00	0.00
14,400.0	89.72	179.57	11,118.1	-3,608.8	-203.9	3,613.8	0.00	0.00	0.00
14,500.0	89.72	179.57	11,118.5	-3,708.8	-203.2	3,713.7	0.00	0.00	0.00



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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)
14,600.0	89.72	179.57	11,119.0	-3,808.8	-202.4	3,813.6	0.00	0.00	0.00
14,700.0	89.72	179.57	11,119.5	-3,908.8	-201.7	3,913.5	0.00	0.00	0.00
14,786.6	89.72	179.57	11,120.0	-3,995.4	-201.0	4,000.0	0.00	0.00	0.00
TGT#2(Hearn 27 State #504H)									
14,793.7	89.57	179.57	11,120.0	-4,002.5	-201.0	4,007.1	2.00	-2.00	0.00
14,800.0	89.57	179.57	11,120.1	-4,008.8	-200.9	4,013.4	0.00	0.00	0.00
14,900.0	89.57	179.57	11,120.8	-4,108.8	-200.2	4,113.4	0.00	0.00	0.00
15,000.0	89.57	179.57	11,121.5	-4,208.8	-199.4	4,213.3	0.00	0.00	0.00
15,100.0	89.57	179.57	11,122.3	-4,308.8	-198.7	4,313.2	0.00	0.00	0.00
15,200.0	89.57	179.57	11,123.0	-4,408.8	-198.0	4,413.1	0.00	0.00	0.00
15,300.0	89.57	179.57	11,123.8	-4,508.8	-197.2	4,513.0	0.00	0.00	0.00
15,400.0	89.57	179.57	11,124.5	-4,608.8	-196.5	4,612.9	0.00	0.00	0.00
15,500.0	89.57	179.57	11,125.3	-4,708.8	-195.7	4,712.8	0.00	0.00	0.00
15,600.0	89.57	179.57	11,126.0	-4,808.8	-195.0	4,812.7	0.00	0.00	0.00
15,700.0	89.57	179.57	11,126.7	-4,908.8	-194.3	4,912.6	0.00	0.00	0.00
15,800.0	89.57	179.57	11,127.5	-5,008.8	-193.5	5,012.5	0.00	0.00	0.00
15,900.0	89.57	179.57	11,128.2	-5,108.8	-192.8	5,112.4	0.00	0.00	0.00
16,000.0	89.57	179.57	11,129.0	-5,208.8	-192.0	5,212.3	0.00	0.00	0.00
16,100.0	89.57	179.57	11,129.7	-5,308.8	-191.3	5,312.2	0.00	0.00	0.00
16,138.2	89.57	179.57	11,130.0	-5,347.0	-191.0	5,350.4	0.00	0.00	0.00
PBHL(Hearn 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
FTP(Hearn 27 State #5 - plan hits target center - Point	0.00	0.00	11,095.0	-631.0	-226.0	430,175.00	738,604.00	32° 10' 49.141 N	103° 33' 43.657 W
TGT#1(Hearn 27 State - plan hits target center - Point	0.00	0.00	11,110.0	-1,993.6	-215.9	428,812.40	738,614.11	32° 10' 35.657 N	103° 33' 43.653 W
TGT#2(Hearn 27 State - plan hits target center - Point	0.00	0.01	11,120.0	-3,995.4	-201.0	426,810.60	738,628.97	32° 10' 15.847 N	103° 33' 43.647 W
PBHL(Hearn 27 State # - plan hits target center - Rectangle (sides W50.0 H0.0 D4,716.1)	90.00	179.58	11,130.0	-5,347.0	-191.0	425,459.00	738,639.00	32° 10' 2.471 N	103° 33' 43.643 W