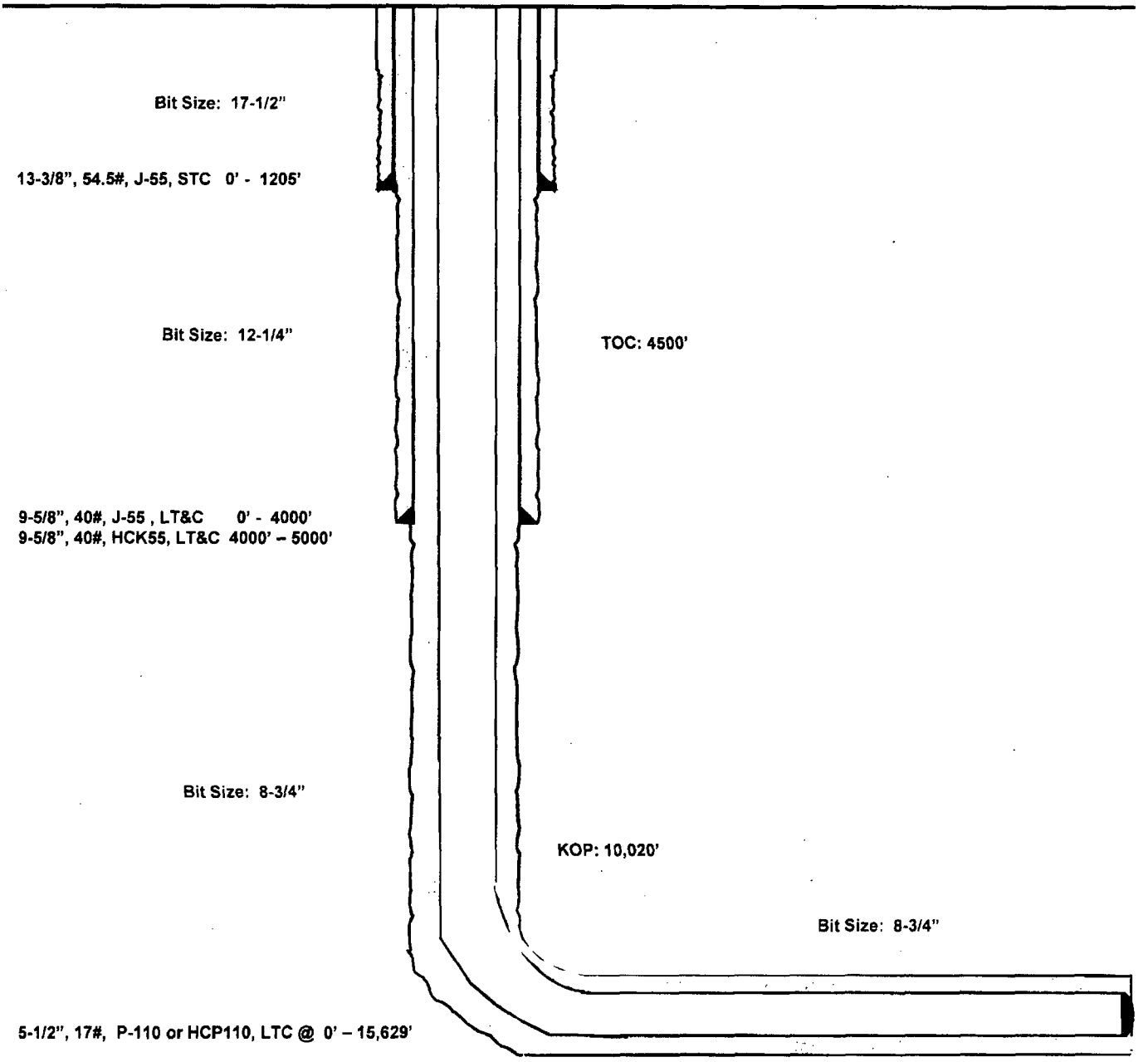
Hearns 27 State Com #401H
Lea County, New Mexico

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

Proposed Wellbore
Revised 3/17/15
API: 30-025-42087

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



Lateral: 15,629' MD, 10,593' TVD

BH Location: 230' FSL & 1480' FWL
Section 34
T-24-S, R-33-E

eog resources

Lea County, NM (NAD 27 NME)

Hearns 27 State Com #401H

Catus #123

Plan #8

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

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.78°

Magnetic Field
Strength: 48142.1snT
Dip Angle: 60.05°
Date: 3/29/2016
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.77°
To convert a Magnetic Direction to a True Direction, Add 7.19° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #401H

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

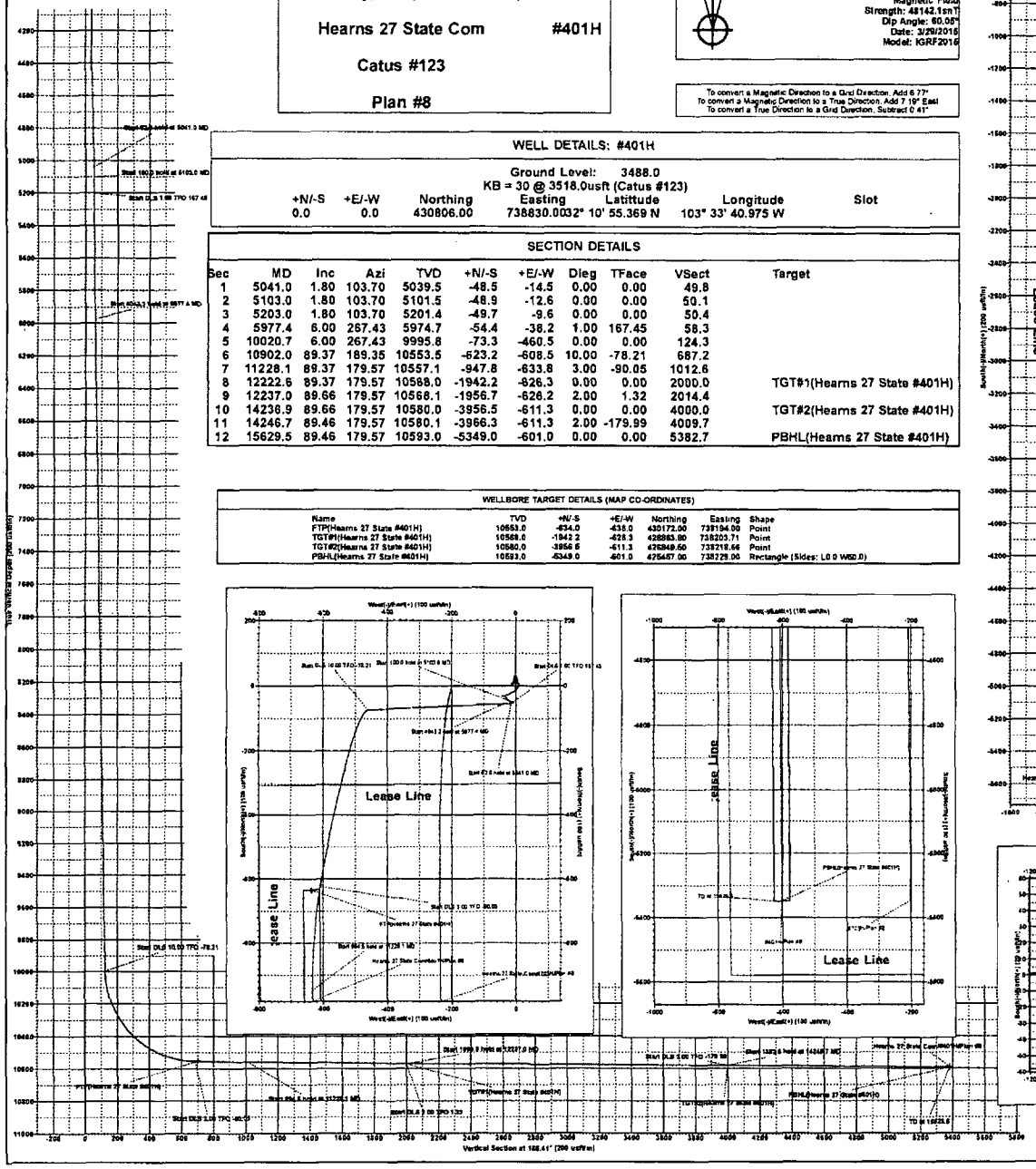
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	430806.00	738830.00	32° 10' 55.369 N	103° 33' 40.975 W	

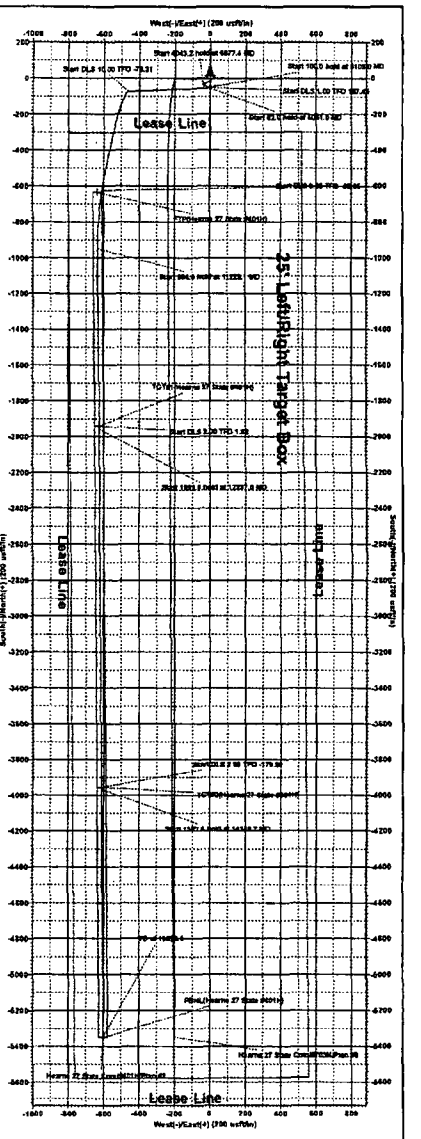
SECTION DETAILS

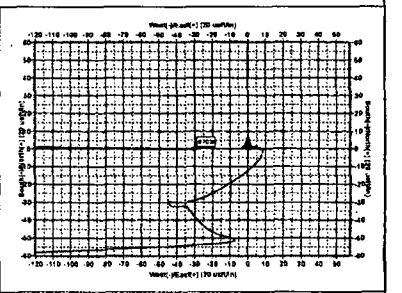
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	5041.0	1.80	103.70	5039.5	-48.5	-14.5	0.00	0.00	49.8	
2	5103.0	1.80	103.70	5101.5	-48.9	-12.6	0.00	0.00	50.1	
3	5203.0	1.80	103.70	5201.4	-49.7	-9.6	0.00	0.00	50.4	
4	5977.4	6.00	267.43	5974.7	-54.4	-36.2	1.00	167.45	58.3	
5	10020.7	6.00	267.43	9995.8	-73.3	-460.5	0.00	0.00	124.3	
6	10902.0	89.37	189.35	10553.5	-623.2	-608.5	10.00	-78.21	687.2	
7	11228.1	89.37	179.57	10557.1	-947.8	-633.8	3.00	-90.05	1012.6	
8	12222.6	89.37	179.57	10568.0	-1942.2	-626.3	0.00	0.00	2000.0	TGT#1(Hearns 27 State #401H)
9	12237.0	89.66	179.57	10568.1	-1956.7	-626.2	2.00	1.32	2014.4	
10	14236.9	89.66	179.57	10580.0	-3956.5	-611.3	0.00	0.00	4000.0	TGT#2(Hearns 27 State #401H)
11	14246.7	89.46	179.57	10580.1	-3966.3	-611.3	2.00	-179.99	4009.7	
12	15629.5	89.46	179.57	10593.0	-5349.0	-601.0	0.00	0.00	5382.7	PBHL(Hearns 27 State #401H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(Hearns 27 State #401H)	10553.0	-634.0	-638.0	430172.00	738194.00	Point
TGT#1(Hearns 27 State #401H)	10568.0	-1942.2	-626.3	428863.80	738203.71	Point
TGT#2(Hearns 27 State #401H)	10580.0	-3956.5	-611.3	426849.50	738218.66	Point
PBHL(Hearns 27 State #401H)	10593.0	-5349.0	-601.0	425457.00	738229.00	Rectangle (Sides: L0.0 W50.0)







EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Hearns 27 State Com
#401H

OH

Plan: Plan #8

Standard Planning Report

17 March, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #401H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Site:	Hearns 27 State Com	**North Reference:**	Grid
Well:	#401H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #8		

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	#401H					
Well Position	**+N/-S**	96.0 usft	**Northing:**	430,806.00 usft	**Latitude:**	32° 10' 55.369 N
	+E/-W	920.0 usft	**Easting:**	738,830.00 usft	**Longitude:**	103° 33' 40.975 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	3/29/2015	7.19	60.05	48,142

Design	Plan #8				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	5,041.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	186.41	

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
5,041.0	1.80	103.70	5,039.5	-48.5	-14.5	0.00	0.00	0.00	0.00	
5,103.0	1.80	103.70	5,101.5	-48.9	-12.6	0.00	0.00	0.00	0.00	
5,203.0	1.80	103.70	5,201.4	-49.7	-9.6	0.00	0.00	0.00	0.00	
5,977.4	6.00	267.43	5,974.7	-54.4	-38.2	1.00	0.54	21.14	167.45	
10,020.7	6.00	267.43	9,995.8	-73.3	-460.5	0.00	0.00	0.00	0.00	
10,902.0	89.37	189.35	10,553.5	-623.2	-608.5	10.00	9.46	-8.86	-78.21	
11,228.1	89.37	179.57	10,557.1	-947.8	-633.8	3.00	0.00	-3.00	-90.05	
12,222.6	89.37	179.57	10,568.0	-1,942.2	-626.3	0.00	0.00	0.00	0.00	TGT#1(Hearns 27 Sta
12,237.0	89.66	179.57	10,568.1	-1,956.7	-626.2	2.00	2.00	0.05	1.32	
14,236.9	89.66	179.57	10,580.0	-3,956.5	-611.3	0.00	0.00	0.00	0.00	TGT#2(Hearns 27 Sta
14,246.7	89.46	179.57	10,580.1	-3,966.3	-611.3	2.00	-2.00	0.00	-179.99	
15,629.5	89.46	179.57	10,593.0	-5,349.0	-601.0	0.00	0.00	0.00	0.00	PBHL(Hearns 27 Stat

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #401H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Site:	Hearns 27 State Com	**North Reference:**	Grid
Well:	#401H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #8		

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
212.0	1.00	66.20	212.0	0.7	1.7	-0.9	0.47	0.47	0.00
394.0	0.60	93.70	394.0	1.3	4.1	-1.8	0.30	-0.22	15.11
517.0	1.00	108.50	517.0	0.9	5.8	-1.6	0.36	0.33	12.03
699.0	0.40	118.30	698.9	0.1	7.8	-1.0	0.33	-0.33	5.38
879.0	0.50	173.30	878.9	-0.9	8.5	0.0	0.24	0.06	30.56
1,061.0	0.80	201.10	1,060.9	-2.9	8.1	2.0	0.23	0.16	15.27
1,213.0	1.30	207.10	1,212.9	-5.4	6.9	4.6	0.34	0.33	3.95
1,354.0	1.30	229.40	1,353.9	-7.9	5.0	7.3	0.36	0.00	15.82
1,544.0	1.50	225.20	1,543.8	-11.1	1.6	10.8	0.12	0.11	-2.21
1,734.0	1.70	235.70	1,733.7	-14.4	-2.5	14.6	0.19	0.11	5.53
1,923.0	1.80	238.70	1,922.6	-17.5	-7.4	18.2	0.07	0.05	1.59
2,113.0	1.80	237.50	2,112.6	-20.7	-12.4	21.9	0.02	0.00	-0.63
2,304.0	1.80	241.40	2,303.5	-23.7	-17.6	25.5	0.06	0.00	2.04
2,494.0	1.80	245.90	2,493.4	-26.4	-22.9	28.8	0.07	0.00	2.37
2,683.0	1.80	251.40	2,682.3	-28.5	-28.5	31.5	0.09	0.00	2.91
2,873.0	1.80	262.10	2,872.2	-29.9	-34.2	33.5	0.18	0.00	5.63
3,063.0	1.30	275.30	3,062.1	-30.1	-39.3	34.3	0.32	-0.26	6.95
3,252.0	1.00	280.60	3,251.1	-29.6	-43.1	34.2	0.17	-0.16	2.80
3,442.0	0.70	171.40	3,441.1	-30.4	-44.5	35.2	0.74	-0.16	-57.47
3,632.0	1.00	106.00	3,631.0	-32.0	-42.8	36.6	0.50	0.16	-34.42
3,823.0	0.80	80.00	3,822.0	-32.3	-39.9	36.5	0.24	-0.10	-13.61
4,014.0	0.70	87.20	4,013.0	-32.0	-37.4	36.0	0.07	-0.05	3.77
4,203.0	0.80	79.70	4,202.0	-31.7	-34.9	35.4	0.07	0.05	-3.97
4,392.0	1.80	163.30	4,390.9	-34.3	-32.8	37.7	1.00	0.53	44.23
4,583.0	2.90	128.00	4,581.8	-40.1	-28.1	43.0	0.93	0.58	-18.48
4,778.0	1.70	134.00	4,776.6	-45.2	-22.1	47.4	0.63	-0.62	3.08
4,964.0	2.00	103.70	4,962.5	-47.9	-17.0	49.5	0.54	0.16	-16.29
5,041.0	1.80	103.70	5,039.5	-48.5	-14.5	49.8	0.26	-0.26	0.00
5,103.0	1.80	103.70	5,101.5	-48.9	-12.6	50.1	0.00	0.00	0.00
5,203.0	1.80	103.70	5,201.4	-49.7	-9.6	50.4	0.00	0.00	0.00
5,300.0	0.88	117.58	5,298.4	-50.4	-7.4	50.9	1.00	-0.95	14.31
5,400.0	0.45	209.73	5,398.4	-51.1	-7.0	51.5	1.00	-0.43	92.15
5,500.0	1.27	253.28	5,498.4	-51.7	-8.2	52.3	1.00	0.83	43.56
5,600.0	2.25	261.14	5,598.3	-52.4	-11.2	53.3	1.00	0.97	7.85
5,700.0	3.24	264.22	5,698.2	-53.0	-16.0	54.4	1.00	0.99	3.08
5,800.0	4.23	265.86	5,798.0	-53.5	-22.5	55.7	1.00	0.99	1.64
5,900.0	5.23	266.88	5,897.7	-54.0	-30.7	57.1	1.00	1.00	1.02
5,977.4	6.00	267.43	5,974.7	-54.4	-38.2	58.3	1.00	1.00	0.72
6,000.0	6.00	267.43	5,997.2	-54.5	-40.6	58.7	0.00	0.00	0.00
6,100.0	6.00	267.43	6,096.6	-55.0	-51.0	60.3	0.00	0.00	0.00
6,200.0	6.00	267.43	6,196.1	-55.4	-61.5	62.0	0.00	0.00	0.00
6,300.0	6.00	267.43	6,295.5	-55.9	-71.9	63.6	0.00	0.00	0.00
6,400.0	6.00	267.43	6,395.0	-56.4	-82.4	65.2	0.00	0.00	0.00
6,500.0	6.00	267.43	6,494.4	-56.8	-92.8	66.8	0.00	0.00	0.00
6,600.0	6.00	267.43	6,593.9	-57.3	-103.3	68.5	0.00	0.00	0.00
6,700.0	6.00	267.43	6,693.3	-57.8	-113.7	70.1	0.00	0.00	0.00
6,800.0	6.00	267.43	6,792.8	-58.2	-124.1	71.7	0.00	0.00	0.00
6,900.0	6.00	267.43	6,892.2	-58.7	-134.6	73.4	0.00	0.00	0.00
7,000.0	6.00	267.43	6,991.7	-59.2	-145.0	75.0	0.00	0.00	0.00
7,100.0	6.00	267.43	7,091.1	-59.7	-155.5	76.6	0.00	0.00	0.00
7,200.0	6.00	267.43	7,190.6	-60.1	-165.9	78.3	0.00	0.00	0.00
7,300.0	6.00	267.43	7,290.0	-60.6	-176.4	79.9	0.00	0.00	0.00
7,400.0	6.00	267.43	7,389.5	-61.1	-186.8	81.5	0.00	0.00	0.00

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Site:	Hearns 27 State Com	**North Reference:**	Grid
Well:	#401H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #8		

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)
7,500.0	6.00	267.43	7,488.9	-61.5	-197.2	83.2	0.00	0.00	0.00
7,600.0	6.00	267.43	7,588.4	-62.0	-207.7	84.8	0.00	0.00	0.00
7,700.0	6.00	267.43	7,687.8	-62.5	-218.1	86.4	0.00	0.00	0.00
7,800.0	6.00	267.43	7,787.3	-62.9	-228.6	88.1	0.00	0.00	0.00
7,900.0	6.00	267.43	7,886.8	-63.4	-239.0	89.7	0.00	0.00	0.00
8,000.0	6.00	267.43	7,986.2	-63.9	-249.4	91.3	0.00	0.00	0.00
8,100.0	6.00	267.43	8,085.7	-64.3	-259.9	93.0	0.00	0.00	0.00
8,200.0	6.00	267.43	8,185.1	-64.8	-270.3	94.6	0.00	0.00	0.00
8,300.0	6.00	267.43	8,284.6	-65.3	-280.8	96.2	0.00	0.00	0.00
8,400.0	6.00	267.43	8,384.0	-65.7	-291.2	97.9	0.00	0.00	0.00
8,500.0	6.00	267.43	8,483.5	-66.2	-301.7	99.5	0.00	0.00	0.00
8,600.0	6.00	267.43	8,582.9	-66.7	-312.1	101.1	0.00	0.00	0.00
8,700.0	6.00	267.43	8,682.4	-67.2	-322.5	102.7	0.00	0.00	0.00
8,800.0	6.00	267.43	8,781.8	-67.6	-333.0	104.4	0.00	0.00	0.00
8,900.0	6.00	267.43	8,881.3	-68.1	-343.4	106.0	0.00	0.00	0.00
9,000.0	6.00	267.43	8,980.7	-68.6	-353.9	107.6	0.00	0.00	0.00
9,100.0	6.00	267.43	9,080.2	-69.0	-364.3	109.3	0.00	0.00	0.00
9,200.0	6.00	267.43	9,179.6	-69.5	-374.8	110.9	0.00	0.00	0.00
9,300.0	6.00	267.43	9,279.1	-70.0	-385.2	112.5	0.00	0.00	0.00
9,400.0	6.00	267.43	9,378.5	-70.4	-395.6	114.2	0.00	0.00	0.00
9,500.0	6.00	267.43	9,478.0	-70.9	-406.1	115.8	0.00	0.00	0.00
9,600.0	6.00	267.43	9,577.4	-71.4	-416.5	117.4	0.00	0.00	0.00
9,700.0	6.00	267.43	9,676.9	-71.8	-427.0	119.1	0.00	0.00	0.00
9,800.0	6.00	267.43	9,776.3	-72.3	-437.4	120.7	0.00	0.00	0.00
9,900.0	6.00	267.43	9,875.8	-72.8	-447.9	122.3	0.00	0.00	0.00
10,000.0	6.00	267.43	9,975.2	-73.2	-458.3	124.0	0.00	0.00	0.00
10,020.7	6.00	267.43	9,995.8	-73.3	-460.5	124.3	0.00	0.00	0.00
10,050.0	7.20	243.85	10,024.9	-74.2	-463.6	125.5	10.00	4.07	-80.37
10,100.0	10.87	221.67	10,074.3	-79.1	-469.6	131.1	10.00	7.35	-44.36
10,150.0	15.31	211.35	10,123.0	-88.3	-476.2	140.9	10.00	8.88	-20.63
10,200.0	20.01	205.69	10,170.7	-101.6	-483.3	155.0	10.00	9.40	-11.33
10,250.0	24.83	202.13	10,216.9	-119.1	-491.0	173.2	10.00	9.63	-7.12
10,300.0	29.70	199.68	10,261.3	-140.5	-499.1	195.3	10.00	9.75	-4.91
10,350.0	34.60	197.86	10,303.6	-165.7	-507.6	221.3	10.00	9.81	-3.63
10,400.0	39.53	196.45	10,343.5	-194.5	-516.5	250.9	10.00	9.85	-2.83
10,450.0	44.47	195.30	10,380.7	-226.7	-525.6	283.9	10.00	9.88	-2.29
10,500.0	49.42	194.34	10,414.8	-262.0	-535.0	320.1	10.00	9.90	-1.92
10,550.0	54.38	193.51	10,445.6	-300.1	-544.4	359.1	10.00	9.91	-1.66
10,600.0	59.34	192.78	10,472.9	-340.9	-553.9	400.6	10.00	9.92	-1.46
10,650.0	64.31	192.12	10,496.5	-383.9	-563.4	444.4	10.00	9.93	-1.32
10,700.0	69.28	191.52	10,516.2	-428.9	-572.8	490.2	10.00	9.94	-1.21
10,750.0	74.25	190.95	10,531.9	-475.5	-582.1	537.5	10.00	9.94	-1.14
10,800.0	79.22	190.41	10,543.3	-523.3	-591.1	586.0	10.00	9.94	-1.08
10,850.0	84.19	189.88	10,550.6	-572.0	-599.8	635.4	10.00	9.95	-1.05
10,902.0	89.37	189.35	10,553.5	-623.2	-608.5	687.2	10.00	9.95	-1.03
10,916.5	89.37	188.91	10,553.6	-637.5	-610.8	701.7	3.00	0.00	-3.00
FTP(Hearns 27 State #401H)									
11,000.0	89.37	186.41	10,554.6	-720.2	-621.9	785.1	3.00	0.00	-3.00
11,100.0	89.37	183.41	10,555.7	-819.8	-630.5	885.1	3.00	0.00	-3.00
11,200.0	89.37	180.41	10,556.8	-919.7	-633.8	984.7	3.00	0.00	-3.00
11,228.1	89.37	179.57	10,557.1	-947.8	-633.8	1,012.6	3.00	0.00	-3.00
11,300.0	89.37	179.57	10,557.9	-1,019.7	-633.2	1,084.0	0.00	0.00	0.00
11,400.0	89.37	179.57	10,559.0	-1,119.7	-632.5	1,183.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #401H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 30 @ 3518.0usft (Catus #123)
Site:	Hearns 27 State Com	**North Reference:**	Grid
Well:	#401H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #8		

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)
11,500.0	89.37	179.57	10,560.1	-1,219.7	-631.7	1,282.6	0.00	0.00	0.00
11,600.0	89.37	179.57	10,561.2	-1,319.7	-631.0	1,381.9	0.00	0.00	0.00
11,700.0	89.37	179.57	10,562.3	-1,419.7	-630.2	1,481.2	0.00	0.00	0.00
11,800.0	89.37	179.57	10,563.4	-1,519.7	-629.5	1,580.5	0.00	0.00	0.00
11,900.0	89.37	179.57	10,564.5	-1,619.7	-628.7	1,679.7	0.00	0.00	0.00
12,000.0	89.37	179.57	10,565.6	-1,719.7	-628.0	1,779.0	0.00	0.00	0.00
12,100.0	89.37	179.57	10,566.7	-1,819.7	-627.2	1,878.3	0.00	0.00	0.00
12,200.0	89.37	179.57	10,567.8	-1,919.6	-626.5	1,977.6	0.00	0.00	0.00
12,222.6	89.37	179.57	10,568.0	-1,942.2	-626.3	2,000.0	0.00	0.00	0.00
TGT#1(Hearns 27 State #401H)									
12,237.0	89.66	179.57	10,568.1	-1,956.7	-626.2	2,014.4	2.00	2.00	0.05
12,300.0	89.66	179.57	10,568.5	-2,019.6	-625.7	2,076.9	0.00	0.00	0.00
12,400.0	89.66	179.57	10,569.1	-2,119.6	-625.0	2,176.2	0.00	0.00	0.00
12,500.0	89.66	179.57	10,569.7	-2,219.6	-624.2	2,275.4	0.00	0.00	0.00
12,600.0	89.66	179.57	10,570.3	-2,319.6	-623.5	2,374.7	0.00	0.00	0.00
12,700.0	89.66	179.57	10,570.9	-2,419.6	-622.7	2,474.0	0.00	0.00	0.00
12,800.0	89.66	179.57	10,571.5	-2,519.6	-622.0	2,573.3	0.00	0.00	0.00
12,900.0	89.66	179.57	10,572.1	-2,619.6	-621.3	2,672.6	0.00	0.00	0.00
13,000.0	89.66	179.57	10,572.7	-2,719.6	-620.5	2,771.9	0.00	0.00	0.00
13,100.0	89.66	179.57	10,573.2	-2,819.6	-619.8	2,871.2	0.00	0.00	0.00
13,200.0	89.66	179.57	10,573.8	-2,919.6	-619.0	2,970.5	0.00	0.00	0.00
13,300.0	89.66	179.57	10,574.4	-3,019.6	-618.3	3,069.7	0.00	0.00	0.00
13,400.0	89.66	179.57	10,575.0	-3,119.6	-617.5	3,169.0	0.00	0.00	0.00
13,500.0	89.66	179.57	10,575.6	-3,219.6	-616.8	3,268.3	0.00	0.00	0.00
13,600.0	89.66	179.57	10,576.2	-3,319.6	-616.1	3,367.6	0.00	0.00	0.00
13,700.0	89.66	179.57	10,576.8	-3,419.6	-615.3	3,466.9	0.00	0.00	0.00
13,800.0	89.66	179.57	10,577.4	-3,519.6	-614.6	3,566.2	0.00	0.00	0.00
13,900.0	89.66	179.57	10,578.0	-3,619.6	-613.8	3,665.5	0.00	0.00	0.00
14,000.0	89.66	179.57	10,578.6	-3,719.6	-613.1	3,764.8	0.00	0.00	0.00
14,100.0	89.66	179.57	10,579.2	-3,819.6	-612.4	3,864.0	0.00	0.00	0.00
14,200.0	89.66	179.57	10,579.8	-3,919.6	-611.6	3,963.3	0.00	0.00	0.00
14,236.9	89.66	179.57	10,580.0	-3,956.5	-611.3	4,000.0	0.00	0.00	0.00
TGT#2(Hearns 27 State #401H)									
14,246.7	89.46	179.57	10,580.1	-3,966.3	-611.3	4,009.7	2.00	-2.00	0.00
14,300.0	89.46	179.57	10,580.6	-4,019.5	-610.9	4,062.6	0.00	0.00	0.00
14,400.0	89.46	179.57	10,581.5	-4,119.5	-610.1	4,161.9	0.00	0.00	0.00
14,500.0	89.46	179.57	10,582.4	-4,219.5	-609.4	4,261.2	0.00	0.00	0.00
14,600.0	89.46	179.57	10,583.4	-4,319.5	-608.6	4,360.5	0.00	0.00	0.00
14,700.0	89.46	179.57	10,584.3	-4,419.5	-607.9	4,459.8	0.00	0.00	0.00
14,800.0	89.46	179.57	10,585.2	-4,519.5	-607.2	4,559.0	0.00	0.00	0.00
14,900.0	89.46	179.57	10,586.2	-4,619.5	-606.4	4,658.3	0.00	0.00	0.00
15,000.0	89.46	179.57	10,587.1	-4,719.5	-605.7	4,757.6	0.00	0.00	0.00
15,100.0	89.46	179.57	10,588.1	-4,819.5	-604.9	4,856.9	0.00	0.00	0.00
15,200.0	89.46	179.57	10,589.0	-4,919.5	-604.2	4,956.2	0.00	0.00	0.00
15,300.0	89.46	179.57	10,589.9	-5,019.5	-603.4	5,055.5	0.00	0.00	0.00
15,400.0	89.46	179.57	10,590.9	-5,119.5	-602.7	5,154.8	0.00	0.00	0.00
15,500.0	89.46	179.57	10,591.8	-5,219.5	-602.0	5,254.0	0.00	0.00	0.00
15,600.0	89.46	179.57	10,592.7	-5,319.5	-601.2	5,353.3	0.00	0.00	0.00
15,629.5	89.46	179.57	10,593.0	-5,349.0	-601.0	5,382.7	0.00	0.00	0.00
PBHL(Hearns 27 State #401H)									

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Site:	Hearns 27 State Com	**North Reference:**	Grid
Well:	#401H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #8		

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(Hearns 27 State #4	0.00	0.00	10,553.0	-634.0	-636.0	430,172.00	738,194.00	32° 10' 49.140 N	103° 33' 48.427 W
- plan misses target center by 25.5usft at 10916.5usft MD (10553.6 TVD, -637.5 N, -610.8 E)									
- Point									
TGT#1(Hearns 27 State	0.00	0.00	10,568.0	-1,942.2	-626.3	428,863.80	738,203.71	32° 10' 36.194 N	103° 33' 48.423 W
- plan hits target center									
- Point									
TGT#2(Hearns 27 State	0.00	0.00	10,580.0	-3,956.5	-611.3	426,849.50	738,218.66	32° 10' 16.261 N	103° 33' 48.417 W
- plan hits target center									
- Point									
PBHL(Hearns 27 State #	90.00	179.58	10,593.0	-5,349.0	-601.0	425,457.00	738,229.00	32° 10' 2.480 N	103° 33' 48.413 W
- plan hits target center									
- Rectangle (sides W50.0 H0.0 D4,716.1)									