

Submit 1 Copy To Appropriate District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR TO CHANGE A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-42120
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Hearns 27 State Com
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		8. Well Number 503H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3488' GR		9. OGRID Number 7377
		10. Pool name or Wildcat Triste Draw; Bone Spring, East

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 BHL, TVD, and well number as attached.

TVD change from 11145' (16263' MD) TO: 12500' TVD, (17612' MD)
Change pool from Triste Draw; Bone Spring East (96682) TO: WC-025 G-09 S2433361; Upper WC (98092)

Change BHL FROM: 230' FSL & 1140' FWL TO: 230' FSL & 1880' FWL, Sec 34 24S 33E

Additionally, EOG requests the well number be changed to 703H.

Spud Date:

Rig Release Date:

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 03/18/15
Type or print name Stan Wagner E-mail address: _____ PHONE: 432-686-3689
For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 03/18/15
Conditions of Approval (if any): _____

MAR 18 2015

HOBBSOCD

MAR 18 2015

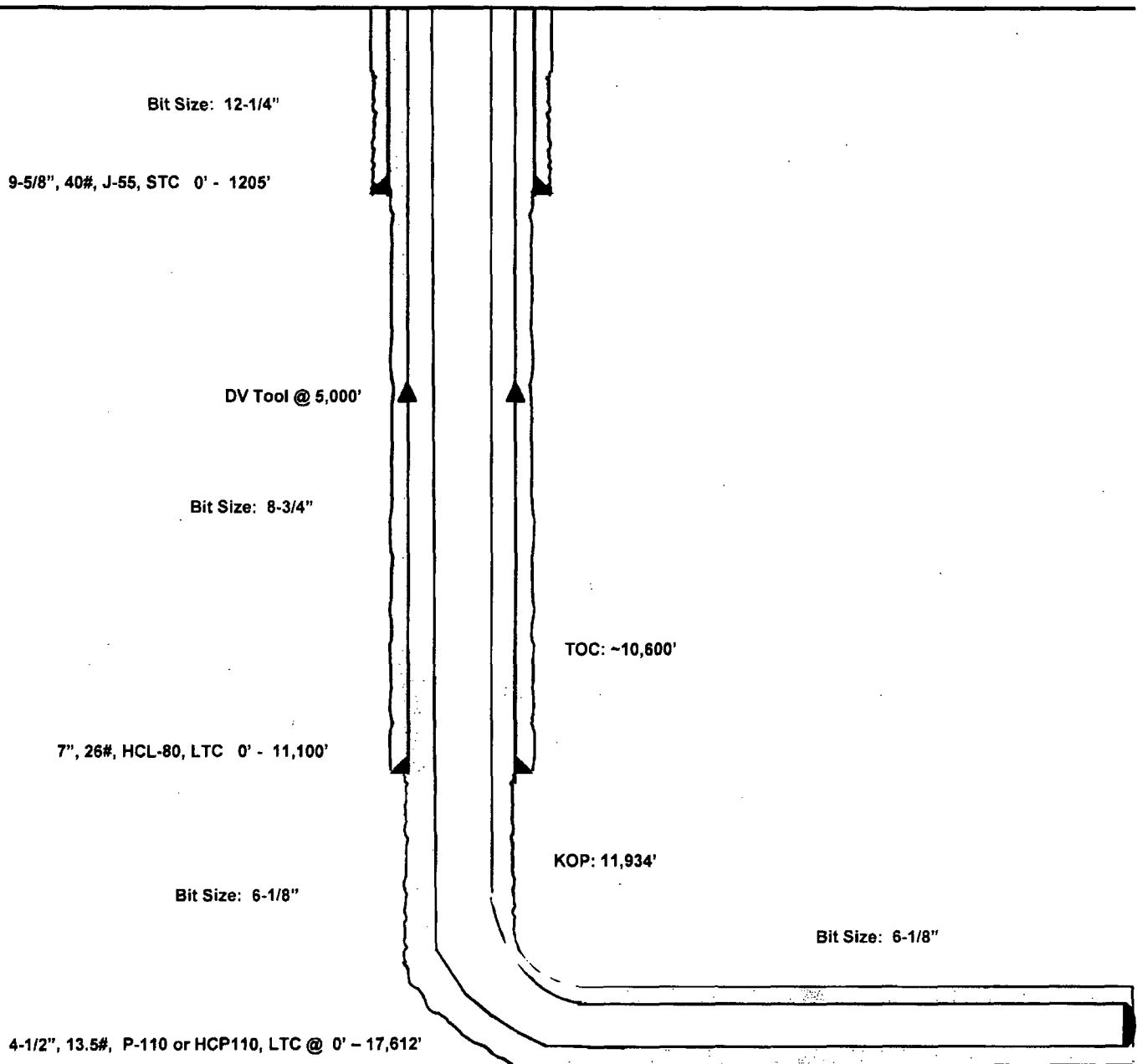
Hearns 27 State Com #703H
Lea County, New Mexico

RECEIVED

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

Proposed Wellbore
Revised 3/17/15
API: 30-025-42120

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



Lateral: 17,612' MD, 12,500' TVD

BH Location: 230' FSL & 1880' FWL
Section 34
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#703H

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 5001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 5.78°

Magnetic Field
Strength: 48147.5nT
Dip Angle: 65.06°
Date: 3/10/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 5.78°
To convert a Magnetic Direction to a True Direction, Add 7.19° East
To convert a True Direction to a Grid Direction, Subtract 5.41°

WELL DETAILS: #703H

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

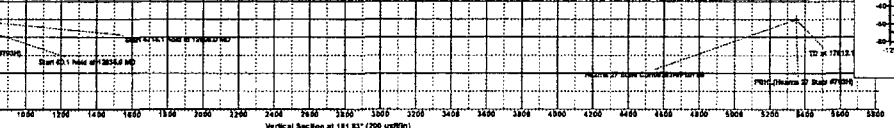
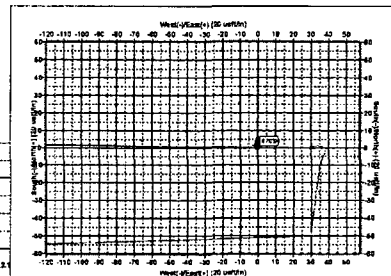
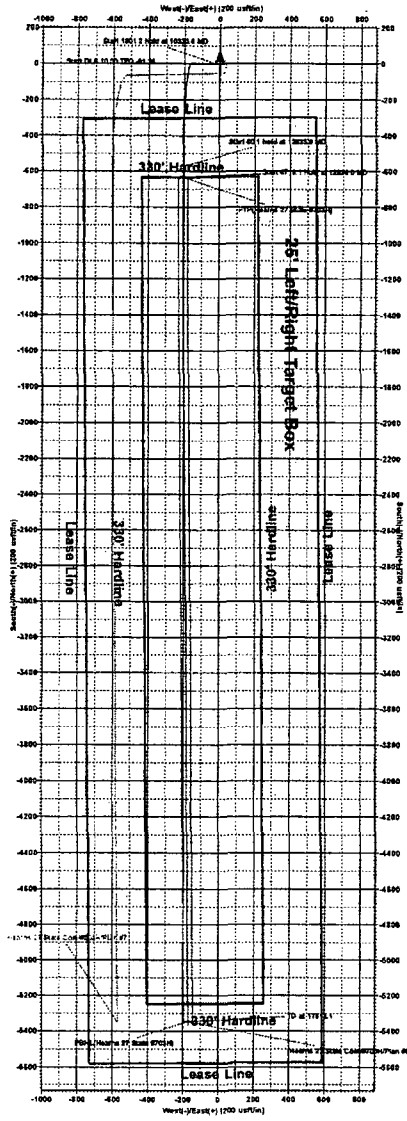
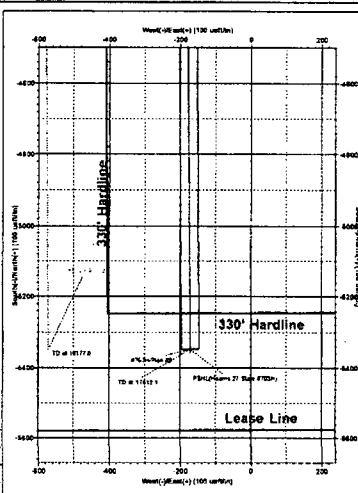
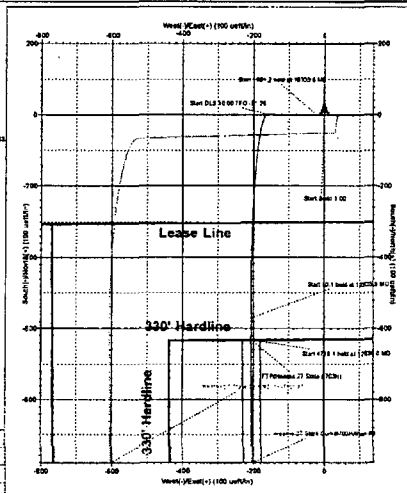
+N/-S	+E/-W	Northing	Easting	Longitude	Slot
0.0	0.0	430806.00	738800.0032° 10' 55.371 N	103° 33' 41.324 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9835.0	0.00	0.00	9835.0	0.0	0.0	0.00	0.00	0.0	
3	10333.6	4.99	270.84	10332.9	0.3	-21.7	1.00	270.84	0.4	
4	11934.8	4.99	270.84	11928.1	2.4	-160.8	0.00	0.00	2.8	
5	12835.9	90.00	179.57	12500.0	-570.9	-206.4	10.00	-91.26	577.3	
6	12896.0	90.00	179.57	12500.0	-631.0	-206.0	0.00	0.00	637.3	FTP(Hearns 27 State #703H) PBHL(Hearns 27 State #703H)
7	17612.1	90.00	179.57	12500.0	-5347.0	-171.0	0.00	0.00	5349.7	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(Hearns 27 State #503H) test	11095.0	-437.0	856.0	430169.00	737844.00	Point
TGTW(Hearns 27 State #503H)	11110.0	-1863.0	436.7	429934.70	737863.27	Point
TGTW(Hearns 27 State #503H)	11130.0	-3800.0	821.7	429968.40	737878.28	Point
PBHL(Hearns 27 State #503H) test	11146.0	-4351.0	821.0	429466.00	737879.00	Rectangle (Sides: L0.0 W50.0)
FTP(Hearns 27 State #703H)	12500.0	-431.0	-206.0	430176.00	738394.00	Point
PBHL(Hearns 27 State #703H)	12500.0	-4347.0	-171.0	429469.00	738329.00	Rectangle (Sides: L0.0 W50.0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hearns 27 State Com

#703H

OH

Plan: Plan #8

Standard Planning Report

13 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: #703H
Wellbore: OH
Design: Plan #8

Local Co-ordinate Reference: Well #703H
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	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	#703H			
Well Position	+N/-S	96.0 usft	Northing:	430,806.00 usft
	+E/-W	890.0 usft	Easting:	738,800.00 usft
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	3/10/2015	7.19	60.06	48,147

Design	Plan #8			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	181.83

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	
9,835.0	0.00	0.00	9,835.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,333.6	4.99	270.84	10,332.9	0.3	-21.7	1.00	1.00	0.00	270.84	
11,934.8	4.99	270.84	11,928.1	2.4	-160.8	0.00	0.00	0.00	0.00	
12,835.9	90.00	179.57	12,500.0	-570.9	-206.4	10.00	9.43	-10.13	-91.26	
12,896.0	90.00	179.57	12,500.0	-631.0	-208.0	0.00	0.00	0.00	0.00	FTP(Hears 27 State
17,612.1	90.00	179.57	12,500.0	-5,347.0	-171.0	0.00	0.00	0.00	0.00	PBHL(Hears 27 Stat



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 Company: EOG Resources - Midland
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 Site: Hearn 27 State Com
 Well: #703H
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Local Co-ordinate Reference: Well #703H
 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)
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
9,835.0	0.00	0.00	9,835.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.65	270.84	9,900.0	0.0	-0.4	0.0	1.00	1.00	0.00
10,000.0	1.65	270.84	10,000.0	0.0	-2.4	0.0	1.00	1.00	0.00
10,100.0	2.65	270.84	10,099.9	0.1	-6.1	0.1	1.00	1.00	0.00
10,200.0	3.65	270.84	10,199.8	0.2	-11.6	0.2	1.00	1.00	0.00
10,300.0	4.65	270.84	10,299.5	0.3	-18.9	0.3	1.00	1.00	0.00
10,333.6	4.99	270.84	10,332.9	0.3	-21.7	0.4	1.00	1.00	0.00
10,400.0	4.99	270.84	10,399.1	0.4	-27.4	0.5	0.00	0.00	0.00
10,500.0	4.99	270.84	10,498.7	0.5	-36.1	0.6	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #8

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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)
10,600.0	4.99	270.84	10,598.4	0.7	-44.8	0.8	0.00	0.00	0.00
10,700.0	4.99	270.84	10,698.0	0.8	-53.5	0.9	0.00	0.00	0.00
10,800.0	4.99	270.84	10,797.6	0.9	-62.2	1.1	0.00	0.00	0.00
10,900.0	4.99	270.84	10,897.2	1.0	-70.9	1.2	0.00	0.00	0.00
11,000.0	4.99	270.84	10,996.8	1.2	-79.6	1.4	0.00	0.00	0.00
11,100.0	4.99	270.84	11,096.5	1.3	-88.3	1.5	0.00	0.00	0.00
11,173.1	4.99	270.84	11,169.3	1.4	-94.6	1.6	0.00	0.00	0.00
FTP(Hears 27 State #503H)test									
11,200.0	4.99	270.84	11,196.1	1.4	-97.0	1.7	0.00	0.00	0.00
11,300.0	4.99	270.84	11,295.7	1.6	-105.7	1.8	0.00	0.00	0.00
11,400.0	4.99	270.84	11,395.3	1.7	-114.3	2.0	0.00	0.00	0.00
11,500.0	4.99	270.84	11,495.0	1.8	-123.0	2.1	0.00	0.00	0.00
11,600.0	4.99	270.84	11,594.6	1.9	-131.7	2.3	0.00	0.00	0.00
11,700.0	4.99	270.84	11,694.2	2.1	-140.4	2.4	0.00	0.00	0.00
11,800.0	4.99	270.84	11,793.8	2.2	-149.1	2.6	0.00	0.00	0.00
11,900.0	4.99	270.84	11,893.4	2.3	-157.8	2.7	0.00	0.00	0.00
11,934.8	4.99	270.84	11,928.1	2.4	-160.8	2.8	0.00	0.00	0.00
11,950.0	5.18	253.76	11,943.3	2.2	-162.1	3.0	10.00	1.28	-112.39
12,000.0	8.11	217.29	11,992.9	-1.3	-166.4	6.6	10.00	5.87	-72.93
12,050.0	12.44	202.87	12,042.1	-9.0	-170.7	14.5	10.00	8.65	-28.85
12,100.0	17.13	196.01	12,090.5	-21.1	-174.8	26.7	10.00	9.38	-13.71
12,150.0	21.96	192.07	12,137.6	-37.3	-178.8	43.0	10.00	9.65	-7.89
12,200.0	26.84	189.50	12,183.1	-57.6	-182.6	63.4	10.00	9.77	-5.14
12,250.0	31.76	187.67	12,226.7	-81.8	-186.2	87.7	10.00	9.84	-3.65
12,300.0	36.70	186.29	12,268.0	-109.7	-189.6	115.7	10.00	9.88	-2.76
12,350.0	41.66	185.20	12,306.8	-141.1	-192.8	147.2	10.00	9.90	-2.18
12,400.0	46.62	184.30	12,342.6	-175.8	-195.7	182.0	10.00	9.92	-1.80
12,450.0	51.58	183.54	12,375.4	-213.5	-198.2	219.7	10.00	9.93	-1.52
12,500.0	56.55	182.88	12,404.7	-253.9	-200.5	260.2	10.00	9.94	-1.33
12,550.0	61.53	182.29	12,430.4	-296.7	-202.4	303.0	10.00	9.95	-1.18
12,600.0	66.50	181.75	12,452.3	-341.6	-204.0	348.0	10.00	9.95	-1.08
12,650.0	71.48	181.25	12,470.2	-388.3	-205.2	394.6	10.00	9.96	-1.00
12,700.0	76.46	180.78	12,484.0	-438.3	-206.1	442.7	10.00	9.96	-0.94
12,750.0	81.44	180.33	12,493.6	-485.4	-206.5	491.7	10.00	9.96	-0.90
12,800.0	86.42	179.89	12,498.9	-535.1	-206.6	541.4	10.00	9.96	-0.88
12,835.9	90.00	179.57	12,500.0	-570.9	-206.4	577.3	10.00	9.96	-0.87
12,896.0	90.00	179.57	12,500.0	-631.0	-206.0	637.3	0.00	0.00	0.00
FTP(Hears 27 State #703H)									
12,900.0	90.00	179.57	12,500.0	-635.0	-206.0	641.3	0.00	0.00	0.00
13,000.0	90.00	179.57	12,500.0	-735.0	-205.2	741.2	0.00	0.00	0.00
13,100.0	90.00	179.57	12,500.0	-835.0	-204.5	841.1	0.00	0.00	0.00
13,200.0	90.00	179.57	12,500.0	-935.0	-203.7	941.1	0.00	0.00	0.00
13,300.0	90.00	179.57	12,500.0	-1,035.0	-203.0	1,041.0	0.00	0.00	0.00
13,400.0	90.00	179.57	12,500.0	-1,135.0	-202.3	1,140.9	0.00	0.00	0.00
13,500.0	90.00	179.57	12,500.0	-1,235.0	-201.5	1,240.8	0.00	0.00	0.00
13,600.0	90.00	179.57	12,500.0	-1,335.0	-200.8	1,340.8	0.00	0.00	0.00
13,700.0	90.00	179.57	12,500.0	-1,435.0	-200.0	1,440.7	0.00	0.00	0.00
13,800.0	90.00	179.57	12,500.0	-1,535.0	-199.3	1,540.6	0.00	0.00	0.00
13,900.0	90.00	179.57	12,500.0	-1,635.0	-198.5	1,640.5	0.00	0.00	0.00
14,000.0	90.00	179.57	12,500.0	-1,735.0	-197.8	1,740.5	0.00	0.00	0.00
14,100.0	90.00	179.57	12,500.0	-1,835.0	-197.1	1,840.4	0.00	0.00	0.00
14,128.8	90.00	179.57	12,500.0	-1,863.8	-196.9	1,869.1	0.00	0.00	0.00
TGT#1(Hears 27 State #503H)									



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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)
14,200.0	90.00	179.57	12,500.0	-1,935.0	-196.3	1,940.3	0.00	0.00	0.00
14,300.0	90.00	179.57	12,500.0	-2,035.0	-195.6	2,040.2	0.00	0.00	0.00
14,400.0	90.00	179.57	12,500.0	-2,135.0	-194.8	2,140.1	0.00	0.00	0.00
14,500.0	90.00	179.57	12,500.0	-2,235.0	-194.1	2,240.1	0.00	0.00	0.00
14,600.0	90.00	179.57	12,500.0	-2,335.0	-193.4	2,340.0	0.00	0.00	0.00
14,700.0	90.00	179.57	12,500.0	-2,435.0	-192.6	2,439.9	0.00	0.00	0.00
14,800.0	90.00	179.57	12,500.0	-2,535.0	-191.9	2,539.8	0.00	0.00	0.00
14,900.0	90.00	179.57	12,500.0	-2,635.0	-191.1	2,639.8	0.00	0.00	0.00
15,000.0	90.00	179.57	12,500.0	-2,735.0	-190.4	2,739.7	0.00	0.00	0.00
15,100.0	90.00	179.57	12,500.0	-2,835.0	-189.6	2,839.6	0.00	0.00	0.00
15,200.0	90.00	179.57	12,500.0	-2,935.0	-188.9	2,939.5	0.00	0.00	0.00
15,300.0	90.00	179.57	12,500.0	-3,035.0	-188.2	3,039.4	0.00	0.00	0.00
15,400.0	90.00	179.57	12,500.0	-3,135.0	-187.4	3,139.4	0.00	0.00	0.00
15,500.0	90.00	179.57	12,500.0	-3,235.0	-186.7	3,239.3	0.00	0.00	0.00
15,600.0	90.00	179.57	12,500.0	-3,335.0	-185.9	3,339.2	0.00	0.00	0.00
15,700.0	90.00	179.57	12,500.0	-3,435.0	-185.2	3,439.1	0.00	0.00	0.00
15,800.0	90.00	179.57	12,500.0	-3,535.0	-184.4	3,539.1	0.00	0.00	0.00
15,900.0	90.00	179.57	12,500.0	-3,635.0	-183.7	3,639.0	0.00	0.00	0.00
16,000.0	90.00	179.57	12,500.0	-3,735.0	-183.0	3,738.9	0.00	0.00	0.00
16,100.0	90.00	179.57	12,500.0	-3,835.0	-182.2	3,838.8	0.00	0.00	0.00
16,160.2	90.00	179.57	12,500.0	-3,895.1	-181.8	3,898.9	0.00	0.00	0.00
TGT#2(Hearn 27 State #503H)									
16,200.0	90.00	179.57	12,500.0	-3,935.0	-181.5	3,938.7	0.00	0.00	0.00
16,300.0	90.00	179.57	12,500.0	-4,035.0	-180.7	4,038.7	0.00	0.00	0.00
16,400.0	90.00	179.57	12,500.0	-4,134.9	-180.0	4,138.6	0.00	0.00	0.00
16,500.0	90.00	179.57	12,500.0	-4,234.9	-179.3	4,238.5	0.00	0.00	0.00
16,600.0	90.00	179.57	12,500.0	-4,334.9	-178.5	4,338.4	0.00	0.00	0.00
16,700.0	90.00	179.57	12,500.0	-4,434.9	-177.8	4,438.4	0.00	0.00	0.00
16,800.0	90.00	179.57	12,500.0	-4,534.9	-177.0	4,538.3	0.00	0.00	0.00
16,900.0	90.00	179.57	12,500.0	-4,634.9	-176.3	4,638.2	0.00	0.00	0.00
17,000.0	90.00	179.57	12,500.0	-4,734.9	-175.5	4,738.1	0.00	0.00	0.00
17,100.0	90.00	179.57	12,500.0	-4,834.9	-174.8	4,838.0	0.00	0.00	0.00
17,200.0	90.00	179.57	12,500.0	-4,934.9	-174.1	4,938.0	0.00	0.00	0.00
17,300.0	90.00	179.57	12,500.0	-5,034.9	-173.3	5,037.9	0.00	0.00	0.00
17,400.0	90.00	179.57	12,500.0	-5,134.9	-172.6	5,137.8	0.00	0.00	0.00
17,500.0	90.00	179.57	12,500.0	-5,234.9	-171.8	5,237.7	0.00	0.00	0.00
17,600.0	90.00	179.57	12,500.0	-5,334.9	-171.1	5,337.7	0.00	0.00	0.00
17,610.5	90.00	179.57	12,500.0	-5,345.4	-171.0	5,348.2	0.00	0.00	0.00
PBHL(Hearn 27 State #503H) test									
17,612.1	90.00	179.57	12,500.0	-5,347.0	-171.0	5,349.7	0.00	0.00	0.00
PBHL(Hearn 27 State #703H)									



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Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL(Hearn 27 State #1 - plan hits target center - Rectangle (sides W50.0 H0.0 D4,714.6)	90.00	179.58	12,500.0	-5,347.0	-171.0	425,459.00	738,629.00	32° 10' 2.472 N	103° 33' 43.759 W
FTP(Hearn 27 State #7 - plan hits target center - Point	0.00	0.00	12,500.0	-631.0	-206.0	430,175.00	738,594.00	32° 10' 49.142 N	103° 33' 43.773 W