

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02965A
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-686-3689	7. If Unit or CA/Agreement, Name and/or No. NMNM135754
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T26S R33E SWSE 370FSL 1669FEL		8. Well Name and No. THOR 21 FED COM 708H
		9. API Well No. 30-025-43091-00-X1
		10. Field and Pool or Exploratory Area WC025G09S263327G-UP WOLFCAMP
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG Resources requests an amendment to our approved APD for this well to reflect a change in TVD.

Change from 12400' to 12265'. A new directional plan is attached.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #372899 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/18/2017 (17DLM0868SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/13/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>CHARLES NIMMER</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>04/18/2017</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>Hobbs</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

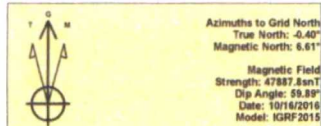
[Handwritten signature and initials]



Lea County, NM (NAD 27 NME)

Thor 21 Fed Com #708H

Plan #0.3



To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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

WELL DETAILS: #708H

Ground Level: 3261.0
K b= 25 @ 3288.0usft
Northing: 80929.50
Easting: 735448.50
Latitude: 32° 1' 21.409 N
Longitude: 103° 34' 35.082 W

SECTION DETAILS

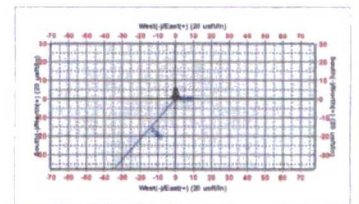
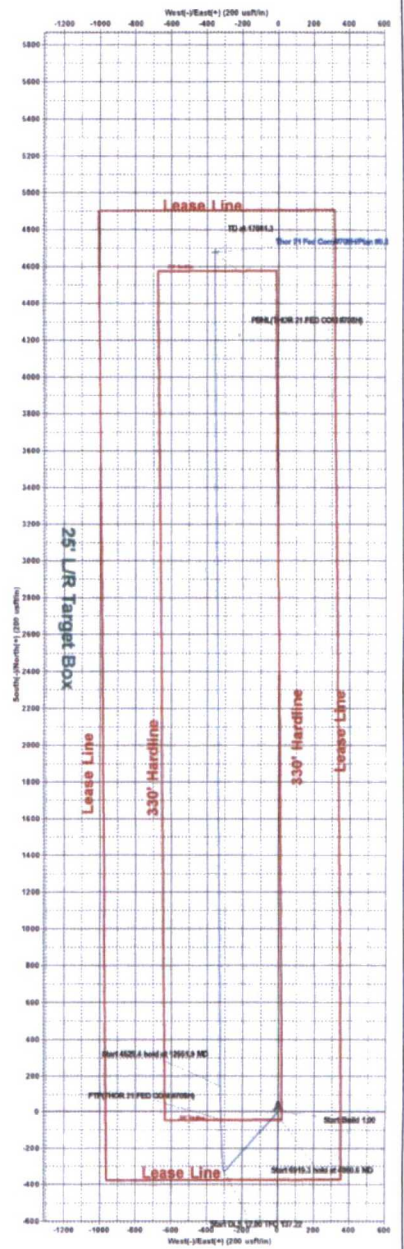
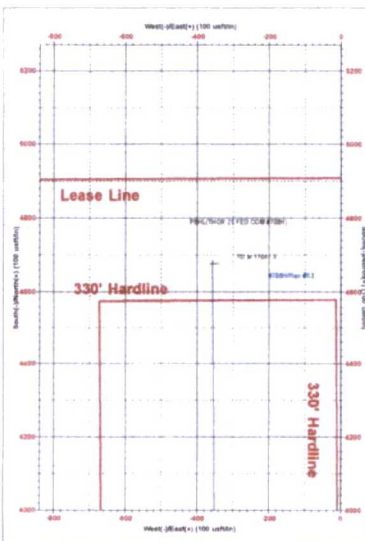
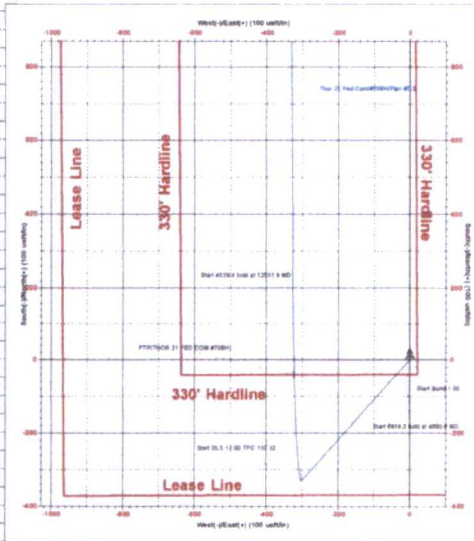
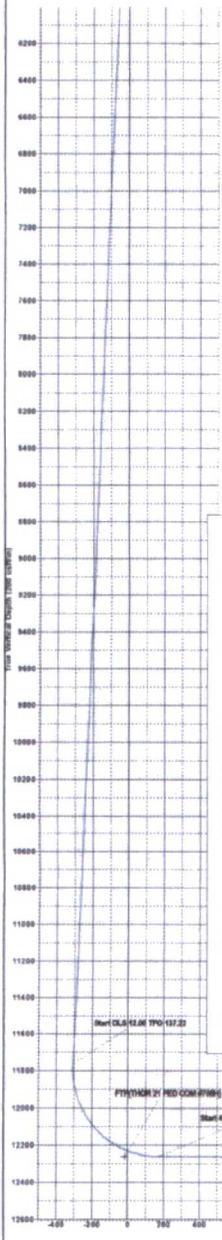
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4590.0	0.00	0.00	4590.0	0.0	0.0	0.00	0.00	0.0		
3	4860.6	3.81	222.33	4860.3	-6.4	-7.6	1.00	222.33	-7.8		
4	11779.9	3.61	222.33	11785.9	-330.1	-306.6	0.00	0.00	-306.2		
5	12861.9	80.00	389.60	12865.0	146.7	-325.5	12.00	137.22	171.0		
6	17081.3	90.00	359.60	12865.0	4876.0	-357.0	0.00	0.00	4899.6		PBHL(THOR 21 FED COM #708H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL(THOR 21 FED COM #708H)	12266.0	4876.0	-357.0	377487.00	735091.00
FTPT(THOR 21 FED COM #708H)	12868.0	-41.0	-324.0	372748.00	738134.00
Interp @ 8811.7 (#708H CH Plan #0.1)	9829.7	-214.8	-428.6	372568.19	735019.35





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Thor 21 Fed Com

#708H

OH

Plan: Plan #0.3

Standard Planning Report

12 April, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Thor 21 Fed Com
Well: #708H
Wellbore: OH
Design: Plan #0.3

Local Co-ordinate Reference: Well #708H
TVD Reference: K b= 25 @ 3286.0usft
MD Reference: K b= 25 @ 3286.0usft
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	Thor 21 Fed Com		
Site Position:		Northing:	372,581.00 usft
From:	Map	Easting:	735,478.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 19.428 N
		Longitude:	103° 34' 24.750 W
		Grid Convergence:	0.40 °

Well	#708H		
Well Position	+N/-S	200.0 usft	Northing: 372,781.00 usft
	+E/-W	-30.0 usft	Easting: 735,448.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 1' 21.409 N
		Longitude:	103° 34' 25.082 W
		Ground Level:	3,261.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	10/16/2016	7.01
			Dip Angle
			(°)
			59.89
			Field Strength
			(nT)
			47.888

Design	Plan #0.3		
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
			(°)
			355.63

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,860.6	3.61	222.33	4,860.3	-8.4	-7.6	1.00	1.00	0.00	222.33	
11,779.9	3.61	222.33	11,765.9	-330.1	-300.6	0.00	0.00	0.00	0.00	
12,551.9	90.00	359.60	12,265.0	146.7	-325.3	12.00	11.19	17.78	137.22	
17,081.3	90.00	359.60	12,265.0	4,676.0	-357.0	0.00	0.00	0.00	0.00	PBHL(THOR 21 FED)



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 Site: Thor 21 Fed Com
 Well: #708H
 Wellbore: OH
 Design: Plan #0.3

Local Co-ordinate Reference: Well #708H
 TVD Reference: K b= 25 @ 3286.0usft
 MD Reference: K b= 25 @ 3286.0usft
 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	1.00	222.33	4,600.0	-0.6	-0.6	-0.6	1.00	1.00	0.00
4,700.0	2.00	222.33	4,700.0	-2.6	-2.4	-2.4	1.00	1.00	0.00
4,800.0	3.00	222.33	4,799.9	-5.8	-5.3	-5.4	1.00	1.00	0.00
4,860.6	3.61	222.33	4,860.3	-8.4	-7.6	-7.8	1.00	1.00	0.00
4,900.0	3.61	222.33	4,899.7	-10.2	-9.3	-9.5	0.00	0.00	0.00
5,000.0	3.61	222.33	4,999.5	-14.9	-13.5	-13.8	0.00	0.00	0.00
5,100.0	3.61	222.33	5,099.3	-19.5	-17.8	-18.1	0.00	0.00	0.00
5,200.0	3.61	222.33	5,199.1	-24.2	-22.0	-22.4	0.00	0.00	0.00



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TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well #708H

K b= 25 @ 3286.0usft

K b= 25 @ 3286.0usft

Grid

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)
5,300.0	3.61	222.33	5,298.9	-28.8	-26.2	-26.7	0.00	0.00	0.00
5,400.0	3.61	222.33	5,398.7	-33.5	-30.5	-31.0	0.00	0.00	0.00
5,500.0	3.61	222.33	5,498.5	-38.1	-34.7	-35.4	0.00	0.00	0.00
5,600.0	3.61	222.33	5,598.3	-42.8	-38.9	-39.7	0.00	0.00	0.00
5,700.0	3.61	222.33	5,698.1	-47.4	-43.2	-44.0	0.00	0.00	0.00
5,800.0	3.61	222.33	5,797.9	-52.1	-47.4	-48.3	0.00	0.00	0.00
5,900.0	3.61	222.33	5,897.7	-56.7	-51.7	-52.6	0.00	0.00	0.00
6,000.0	3.61	222.33	5,997.5	-61.4	-55.9	-56.9	0.00	0.00	0.00
6,100.0	3.61	222.33	6,097.3	-66.0	-60.1	-61.2	0.00	0.00	0.00
6,200.0	3.61	222.33	6,197.1	-70.7	-64.4	-65.6	0.00	0.00	0.00
6,300.0	3.61	222.33	6,296.9	-75.3	-68.6	-69.9	0.00	0.00	0.00
6,400.0	3.61	222.33	6,396.7	-80.0	-72.8	-74.2	0.00	0.00	0.00
6,500.0	3.61	222.33	6,496.5	-84.6	-77.1	-78.5	0.00	0.00	0.00
6,600.0	3.61	222.33	6,596.3	-89.3	-81.3	-82.8	0.00	0.00	0.00
6,700.0	3.61	222.33	6,696.1	-93.9	-85.5	-87.1	0.00	0.00	0.00
6,800.0	3.61	222.33	6,795.9	-98.6	-89.8	-91.4	0.00	0.00	0.00
6,900.0	3.61	222.33	6,895.7	-103.2	-94.0	-95.7	0.00	0.00	0.00
7,000.0	3.61	222.33	6,995.5	-107.9	-98.2	-100.1	0.00	0.00	0.00
7,100.0	3.61	222.33	7,095.3	-112.5	-102.5	-104.4	0.00	0.00	0.00
7,200.0	3.61	222.33	7,195.1	-117.2	-106.7	-108.7	0.00	0.00	0.00
7,300.0	3.61	222.33	7,294.9	-121.8	-110.9	-113.0	0.00	0.00	0.00
7,400.0	3.61	222.33	7,394.7	-126.5	-115.2	-117.3	0.00	0.00	0.00
7,500.0	3.61	222.33	7,494.5	-131.1	-119.4	-121.6	0.00	0.00	0.00
7,600.0	3.61	222.33	7,594.3	-135.7	-123.6	-125.9	0.00	0.00	0.00
7,700.0	3.61	222.33	7,694.1	-140.4	-127.9	-130.3	0.00	0.00	0.00
7,800.0	3.61	222.33	7,793.9	-145.0	-132.1	-134.6	0.00	0.00	0.00
7,900.0	3.61	222.33	7,893.7	-149.7	-136.3	-138.9	0.00	0.00	0.00
8,000.0	3.61	222.33	7,993.5	-154.3	-140.6	-143.2	0.00	0.00	0.00
8,100.0	3.61	222.33	8,093.4	-159.0	-144.8	-147.5	0.00	0.00	0.00
8,200.0	3.61	222.33	8,193.2	-163.6	-149.0	-151.8	0.00	0.00	0.00
8,300.0	3.61	222.33	8,293.0	-168.3	-153.3	-156.1	0.00	0.00	0.00
8,400.0	3.61	222.33	8,392.8	-172.9	-157.5	-160.5	0.00	0.00	0.00
8,500.0	3.61	222.33	8,492.6	-177.6	-161.8	-164.8	0.00	0.00	0.00
8,600.0	3.61	222.33	8,592.4	-182.2	-166.0	-169.1	0.00	0.00	0.00
8,700.0	3.61	222.33	8,692.2	-186.9	-170.2	-173.4	0.00	0.00	0.00
8,800.0	3.61	222.33	8,792.0	-191.5	-174.5	-177.7	0.00	0.00	0.00
8,900.0	3.61	222.33	8,891.8	-196.2	-178.7	-182.0	0.00	0.00	0.00
9,000.0	3.61	222.33	8,991.6	-200.8	-182.9	-186.3	0.00	0.00	0.00
9,100.0	3.61	222.33	9,091.4	-205.5	-187.2	-190.6	0.00	0.00	0.00
9,200.0	3.61	222.33	9,191.2	-210.1	-191.4	-195.0	0.00	0.00	0.00
9,300.0	3.61	222.33	9,291.0	-214.8	-195.6	-199.3	0.00	0.00	0.00
9,400.0	3.61	222.33	9,390.8	-219.4	-199.9	-203.6	0.00	0.00	0.00
9,500.0	3.61	222.33	9,490.6	-224.1	-204.1	-207.9	0.00	0.00	0.00
9,600.0	3.61	222.33	9,590.4	-228.7	-208.3	-212.2	0.00	0.00	0.00
9,700.0	3.61	222.33	9,690.2	-233.4	-212.6	-216.5	0.00	0.00	0.00
9,800.0	3.61	222.33	9,790.0	-238.0	-216.8	-220.8	0.00	0.00	0.00
9,900.0	3.61	222.33	9,889.8	-242.7	-221.0	-225.2	0.00	0.00	0.00
10,000.0	3.61	222.33	9,989.6	-247.3	-225.3	-229.5	0.00	0.00	0.00
10,100.0	3.61	222.33	10,089.4	-252.0	-229.5	-233.8	0.00	0.00	0.00
10,200.0	3.61	222.33	10,189.2	-256.6	-233.7	-238.1	0.00	0.00	0.00
10,300.0	3.61	222.33	10,289.0	-261.3	-238.0	-242.4	0.00	0.00	0.00
10,400.0	3.61	222.33	10,388.8	-265.9	-242.2	-246.7	0.00	0.00	0.00
10,500.0	3.61	222.33	10,488.6	-270.6	-246.4	-251.0	0.00	0.00	0.00
10,600.0	3.61	222.33	10,588.4	-275.2	-250.7	-255.3	0.00	0.00	0.00



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Site: Thor 21 Fed Com
Well: #708H
Wellbore: OH
Design: Plan #0.3

Local Co-ordinate Reference: Well #708H
TVD Reference: K b= 25 @ 3286.0usft
MD Reference: K b= 25 @ 3286.0usft
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)
10,700.0	3.61	222.33	10,688.2	-279.9	-254.9	-259.7	0.00	0.00	0.00
10,800.0	3.61	222.33	10,788.0	-284.5	-259.1	-264.0	0.00	0.00	0.00
10,900.0	3.61	222.33	10,887.8	-289.2	-263.4	-268.3	0.00	0.00	0.00
11,000.0	3.61	222.33	10,987.6	-293.8	-267.6	-272.6	0.00	0.00	0.00
11,100.0	3.61	222.33	11,087.4	-298.5	-271.9	-276.9	0.00	0.00	0.00
11,200.0	3.61	222.33	11,187.2	-303.1	-276.1	-281.2	0.00	0.00	0.00
11,300.0	3.61	222.33	11,287.0	-307.8	-280.3	-285.5	0.00	0.00	0.00
11,400.0	3.61	222.33	11,386.8	-312.4	-284.6	-289.9	0.00	0.00	0.00
11,500.0	3.61	222.33	11,486.6	-317.1	-288.8	-294.2	0.00	0.00	0.00
11,600.0	3.61	222.33	11,586.4	-321.7	-293.0	-298.5	0.00	0.00	0.00
11,700.0	3.61	222.33	11,686.2	-326.4	-297.3	-302.8	0.00	0.00	0.00
11,779.9	3.61	222.33	11,765.9	-330.1	-300.6	-306.2	0.00	0.00	0.00
11,800.0	2.46	264.19	11,786.0	-330.6	-301.5	-306.7	12.00	-5.69	207.92
11,825.0	3.69	318.14	11,811.0	-330.0	-302.6	-306.1	12.00	4.94	215.81
11,850.0	6.26	336.68	11,835.9	-328.2	-303.6	-304.1	12.00	10.28	74.15
11,875.0	9.10	344.12	11,860.7	-325.0	-304.7	-300.9	12.00	11.35	29.77
11,900.0	12.02	348.01	11,885.3	-320.6	-305.8	-296.4	12.00	11.66	15.57
11,925.0	14.97	350.40	11,909.6	-314.9	-306.9	-290.6	12.00	11.79	9.53
11,950.0	17.93	352.01	11,933.5	-307.9	-308.0	-283.5	12.00	11.86	6.45
11,975.0	20.91	353.17	11,957.1	-299.6	-309.0	-275.2	12.00	11.90	4.66
12,000.0	23.89	354.06	11,980.2	-290.2	-310.1	-265.7	12.00	11.92	3.55
12,025.0	26.87	354.76	12,002.8	-279.5	-311.1	-255.0	12.00	11.94	2.80
12,050.0	29.86	355.33	12,024.8	-267.7	-312.1	-243.1	12.00	11.95	2.28
12,075.0	32.85	355.80	12,046.2	-254.7	-313.1	-230.1	12.00	11.96	1.90
12,100.0	35.84	356.21	12,066.8	-240.6	-314.1	-216.0	12.00	11.97	1.61
12,125.0	38.83	356.55	12,086.7	-225.5	-315.1	-200.9	12.00	11.97	1.40
12,150.0	41.83	356.86	12,105.7	-209.3	-316.0	-184.7	12.00	11.97	1.23
12,175.0	44.82	357.13	12,123.9	-192.2	-316.9	-167.5	12.00	11.98	1.09
12,200.0	47.82	357.38	12,141.2	-174.2	-317.8	-149.5	12.00	11.98	0.98
12,225.0	50.81	357.60	12,157.5	-155.2	-318.6	-130.5	12.00	11.98	0.89
12,250.0	53.81	357.81	12,172.8	-135.5	-319.4	-110.8	12.00	11.98	0.82
12,275.0	56.80	358.00	12,187.0	-114.9	-320.1	-90.2	12.00	11.98	0.76
12,300.0	59.80	358.17	12,200.1	-93.7	-320.9	-69.0	12.00	11.98	0.71
12,325.0	62.80	358.34	12,212.1	-71.8	-321.5	-47.1	12.00	11.99	0.67
12,350.0	65.79	358.50	12,223.0	-49.2	-322.1	-24.6	12.00	11.99	0.63
12,375.0	68.79	358.65	12,232.6	-26.2	-322.7	-1.5	12.00	11.99	0.60
12,400.0	71.79	358.79	12,241.1	-2.7	-323.2	22.0	12.00	11.99	0.58
12,425.0	74.78	358.93	12,248.2	21.3	-323.7	45.9	12.00	11.99	0.56
12,450.0	77.78	359.07	12,254.2	45.6	-324.1	70.1	12.00	11.99	0.54
12,475.0	80.78	359.20	12,258.8	70.1	-324.5	94.6	12.00	11.99	0.53
12,500.0	83.77	359.33	12,262.2	94.9	-324.8	119.3	12.00	11.99	0.52
12,525.0	86.77	359.46	12,264.2	119.8	-325.1	144.2	12.00	11.99	0.52
12,551.9	90.00	359.60	12,265.0	146.7	-325.3	171.0	12.00	11.99	0.51
12,600.0	90.00	359.60	12,265.0	194.8	-325.6	219.0	0.00	0.00	0.00
12,700.0	90.00	359.60	12,265.0	294.8	-326.3	318.8	0.00	0.00	0.00
12,800.0	90.00	359.60	12,265.0	394.8	-327.0	418.5	0.00	0.00	0.00
12,900.0	90.00	359.60	12,265.0	494.8	-327.7	518.3	0.00	0.00	0.00
13,000.0	90.00	359.60	12,265.0	594.8	-328.4	618.0	0.00	0.00	0.00
13,100.0	90.00	359.60	12,265.0	694.8	-329.1	717.8	0.00	0.00	0.00
13,200.0	90.00	359.60	12,265.0	794.8	-329.8	817.6	0.00	0.00	0.00
13,300.0	90.00	359.60	12,265.0	894.8	-330.5	917.3	0.00	0.00	0.00
13,400.0	90.00	359.60	12,265.0	994.8	-331.2	1,017.1	0.00	0.00	0.00
13,500.0	90.00	359.60	12,265.0	1,094.8	-331.9	1,116.8	0.00	0.00	0.00
13,600.0	90.00	359.60	12,265.0	1,194.8	-332.6	1,216.6	0.00	0.00	0.00



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Well #708H

K b= 25 @ 3286.0usft

K b= 25 @ 3286.0usft

Grid

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)
13,700.0	90.00	359.60	12,265.0	1,294.8	-333.3	1,316.4	0.00	0.00	0.00
13,800.0	90.00	359.60	12,265.0	1,394.7	-334.0	1,416.1	0.00	0.00	0.00
13,900.0	90.00	359.60	12,265.0	1,494.7	-334.7	1,515.9	0.00	0.00	0.00
14,000.0	90.00	359.60	12,265.0	1,594.7	-335.4	1,615.7	0.00	0.00	0.00
14,100.0	90.00	359.60	12,265.0	1,694.7	-336.1	1,715.4	0.00	0.00	0.00
14,200.0	90.00	359.60	12,265.0	1,794.7	-336.8	1,815.2	0.00	0.00	0.00
14,300.0	90.00	359.60	12,265.0	1,894.7	-337.5	1,914.9	0.00	0.00	0.00
14,400.0	90.00	359.60	12,265.0	1,994.7	-338.2	2,014.7	0.00	0.00	0.00
14,500.0	90.00	359.60	12,265.0	2,094.7	-338.9	2,114.5	0.00	0.00	0.00
14,600.0	90.00	359.60	12,265.0	2,194.7	-339.6	2,214.2	0.00	0.00	0.00
14,700.0	90.00	359.60	12,265.0	2,294.7	-340.3	2,314.0	0.00	0.00	0.00
14,800.0	90.00	359.60	12,265.0	2,394.7	-341.0	2,413.7	0.00	0.00	0.00
14,900.0	90.00	359.60	12,265.0	2,494.7	-341.7	2,513.5	0.00	0.00	0.00
15,000.0	90.00	359.60	12,265.0	2,594.7	-342.4	2,613.3	0.00	0.00	0.00
15,100.0	90.00	359.60	12,265.0	2,694.7	-343.1	2,713.0	0.00	0.00	0.00
15,200.0	90.00	359.60	12,265.0	2,794.7	-343.8	2,812.8	0.00	0.00	0.00
15,300.0	90.00	359.60	12,265.0	2,894.7	-344.5	2,912.5	0.00	0.00	0.00
15,400.0	90.00	359.60	12,265.0	2,994.7	-345.2	3,012.3	0.00	0.00	0.00
15,500.0	90.00	359.60	12,265.0	3,094.7	-345.9	3,112.1	0.00	0.00	0.00
15,600.0	90.00	359.60	12,265.0	3,194.7	-346.6	3,211.8	0.00	0.00	0.00
15,700.0	90.00	359.60	12,265.0	3,294.7	-347.3	3,311.6	0.00	0.00	0.00
15,800.0	90.00	359.60	12,265.0	3,394.7	-348.0	3,411.3	0.00	0.00	0.00
15,900.0	90.00	359.60	12,265.0	3,494.7	-348.7	3,511.1	0.00	0.00	0.00
16,000.0	90.00	359.60	12,265.0	3,594.7	-349.4	3,610.9	0.00	0.00	0.00
16,100.0	90.00	359.60	12,265.0	3,694.7	-350.1	3,710.6	0.00	0.00	0.00
16,200.0	90.00	359.60	12,265.0	3,794.7	-350.8	3,810.4	0.00	0.00	0.00
16,300.0	90.00	359.60	12,265.0	3,894.7	-351.5	3,910.1	0.00	0.00	0.00
16,400.0	90.00	359.60	12,265.0	3,994.7	-352.2	4,009.9	0.00	0.00	0.00
16,500.0	90.00	359.60	12,265.0	4,094.7	-352.9	4,109.7	0.00	0.00	0.00
16,600.0	90.00	359.60	12,265.0	4,194.7	-353.6	4,209.4	0.00	0.00	0.00
16,700.0	90.00	359.60	12,265.0	4,294.7	-354.3	4,309.2	0.00	0.00	0.00
16,800.0	90.00	359.60	12,265.0	4,394.7	-355.0	4,408.9	0.00	0.00	0.00
16,900.0	90.00	359.60	12,265.0	4,494.7	-355.7	4,508.7	0.00	0.00	0.00
17,000.0	90.00	359.60	12,265.0	4,594.7	-356.4	4,608.5	0.00	0.00	0.00
17,081.3	90.00	359.60	12,265.0	4,676.0	-357.0	4,689.6	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(THOR 21 FED CO - hit/miss target - Shape - Point	0.00	0.01	12,265.0	4,676.0	-357.0	377,457.00	735,091.00	32° 2' 7.707 N	103° 34' 28.847 W
FTP(THOR 21 FED CO - plan misses target center by 35.6usft at 12373.9usft MD (12232.2 TVD, -27.2 N, -322.7 E) - Point	0.00	0.00	12,265.0	-41.0	-324.0	372,740.00	735,124.00	32° 1' 21.026 N	103° 34' 28.849 W