

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 88210
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-44761
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Diamond 31 Fed Com
8. Well Number 705H
9. OGRID Number 7377
10. Pool name or Wildcat WC-025 G-09 S243336I; Upper WC

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator EOG Resources, Inc.	
3. Address of Operator P.O. Box 2267 Midland, TX 79702	
4. Well Location Unit Letter 4 : 731 feet from the South line and 1478 feet from the West line Section 31 Township 24S Range 34E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3457' GR	

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: Chq BHL & HSU ☐		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 to our approved APD for this well to revise the BHL and HSU

Change BHL to: 2542' FSL & 2220' FWL 3-30-24S-34E (98092) WC-025 G-09 S243336I; Upper Wolfcamp

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 09/10/2018

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: Karen Sharp TITLE Staff Mgr DATE 9-12-18
Conditions of Approval (if any):

Intent ☒ As Drilled ☐

API # 30-025-44761			
Operator Name: EOG Resources, Inc.		Property Name: Diamond 31 Fed Com	Well Number 705H

Kick Off Point (KOP)

UL N	Section 31	Township 24S	Range 34E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD

First Take Point (FTP)

UL N	Section 31	Township 24S	Range 34E	Lot	Feet 100	From N/S South	Feet 2220	From E/W West	County Lea
Latitude N 32.1670703					Longitude W -103.5103303				NAD 83

Last Take Point (LTP)

UL K	Section 30	Township 24S	Range 34E	Lot	Feet 2542	From N/S South	Feet 2220	From E/W West	County Lea
Latitude N 32.1882801					Longitude W -103.5103299				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

☐ No

Is this well an infill well?

☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-44760			
Operator Name: EOG Resources, Inc.		Property Name: Diamond 31 Fed Com	Well Number 704H

KZ 06/29/2018

Revised Permit Information 9/6/18:

Well Name: Diamond 31 Fed Com No. 705H

Location:

SL: 731' FSL & 1478' FWL, Section 31, T-24-S, R-34-E, Lea Co., N.M.

BHL: 2542' FSL & 2220' FWL, Section 30, T-24-S, R-34-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 - 1,225'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,100'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,100' - 5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,500'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 - 11,000'	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	11,000'-20,067'	5.5"	20#	P110EC	VAM SFC	1.125	1.25	1.60

Variance is requested for annular clearance of the 5-1/2" x 7-5/8" to the top of cement.

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,225'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
5,100'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,500'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,600')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
20,067'	1000	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,000')

Mud Program:

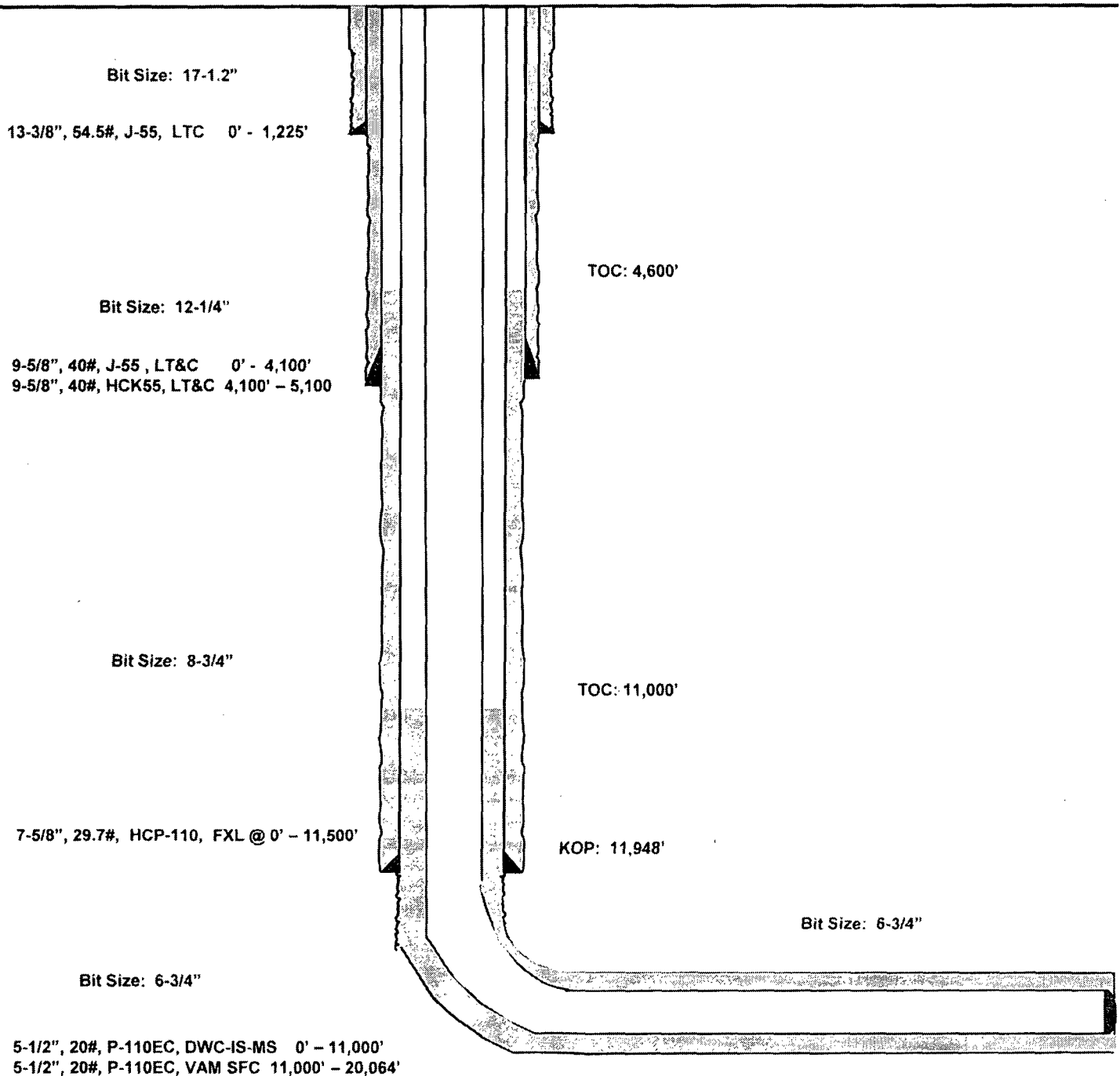
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1225'	Fresh - Gel	8.6-8.8	28-34	N/c
1225' - 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' - 11,500'	Oil Base	8.7-9.4	58-68	N/c - 6
11,500' - 20,067' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Diamond 31 Fed Com #705H

731' FSL
1478' FWL
Section 31
T-24-S, R-34-E

Lea County, New Mexico
Proposed Wellbore
Revised 9/6/18
API: 30-025-44761

KB: 3,482'
GL: 3,457'



Lateral: 20,064' MD, 12,437' TVD
Upper Most Perf:
100' FSL & 2220' FWL Sec. 31
Lower Most Perf:
2542' FSL & 2220' FWL Sec. 30
BH Location: 2542' FSL & 2220' FWL
Section 30
T-24-S, R-34-E



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #705H

Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #705H

KB = 25' @ 3482.0usft 3437.0
Northing 428115.00 Easting 795252.00 Latitude 32° 10' 7.704 N Longitude 103° 30' 45.821 W

Alignments to Grid North
True North: -0.44°
Magnetic North: 8.46°
Magnetic Field
Strength: 47890.7usT
Dip Angle: 60.02°
Date: 8/29/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.46°
To convert a Magnetic Direction to a True Direction, Add 8.90° East
To convert a True Direction to a Grid Direction, Subtract 8.46°

SECTION DETAILS

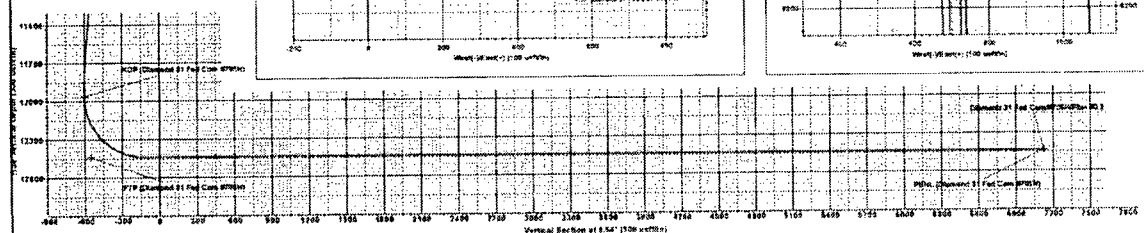
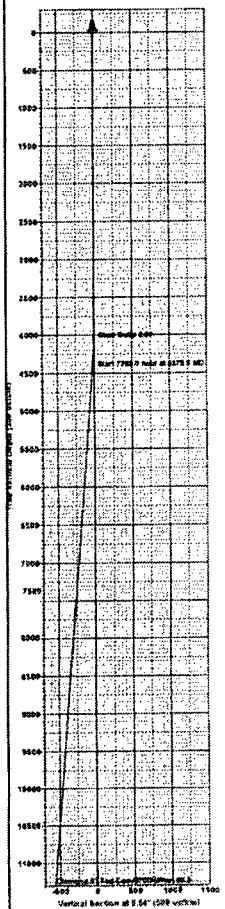
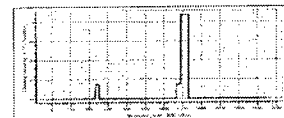
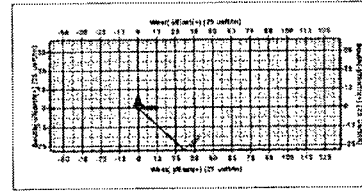
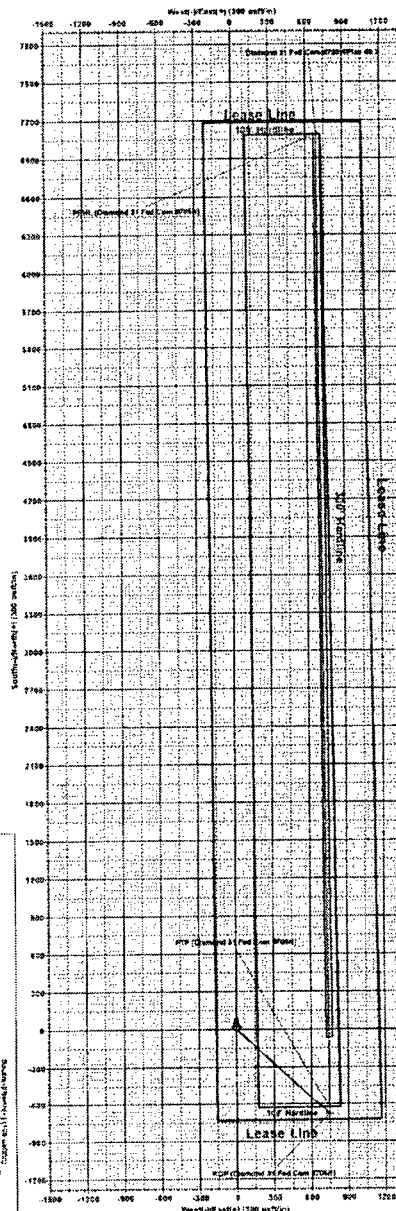
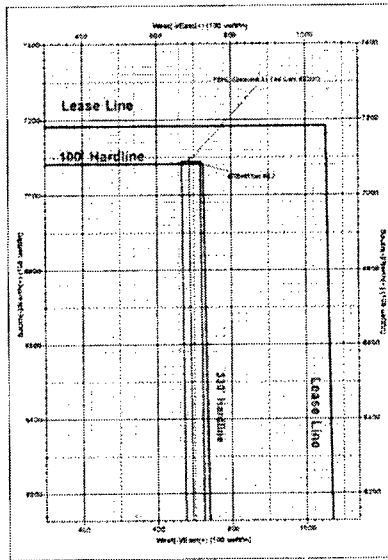
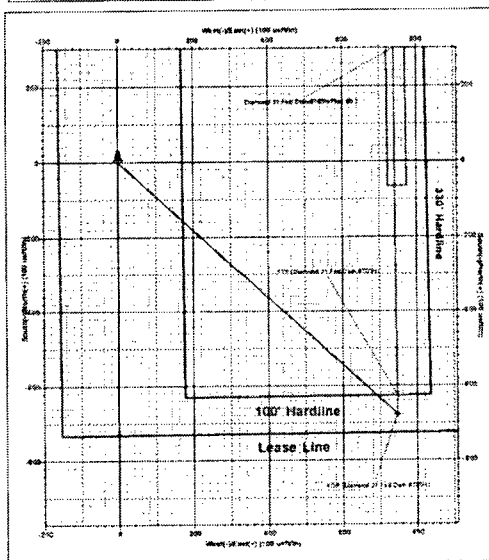
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4378.5	7.57	132.14	4377.4	-16.8	10.5	2.00	132.14	-14.9	
4	11646.5	7.57	132.14	11582.1	-659.2	728.5	0.00	0.00	-585.8	
5	12025.1	0.00	0.00	11959.5	-676.0	747.0	2.00	180.00	-600.7	KOP (Diamond 31 Fed Com #705H)
6	12775.0	90.00	359.56	12437.0	-198.6	743.4	12.00	350.56	-125.9	
7	20063.8	90.00	359.56	12437.0	7090.0	688.0	0.00	0.00	7123.3	PBHL (Diamond 31 Fed Com #705H)

CADastre DETAILS

No survey data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top (Diamond 31 Fed Com #705H)	7784.0	-461.0	145.0	425434.00	796397.00
KOP (Diamond 31 Fed Com #705H)	11959.5	-676.0	747.0	425438.00	796399.00
PTP (Diamond 31 Fed Com #705H)	12437.0	-626.0	747.0	425489.00	796399.00
PBHL (Diamond 31 Fed Com #705H)	12437.0	7090.0	688.0	433205.00	796840.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#705H

OH

Plan: Plan #0.2

Standard Planning Report

06 September, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Diamond 31 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3482.0usft
MD Reference: KB = 25' @ 3482.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Diamond 31 Fed Com				
Site Position:		Northing:	425,996.00 usft	Latitude:	32° 10' 6.586 N
From:	Map	Easting:	794,470.00 usft	Longitude:	103° 30' 54.929 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.44 °

Well	#705H					
Well Position	+N/-S	119.0 usft	Northing:	426,115.00 usft	Latitude:	32° 10' 7.704 N
	+E/-W	782.0 usft	Easting:	795,252.00 usft	Longitude:	103° 30' 45.821 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,457.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/29/2017	6.90	60.02	47,890.72705556

Design Plan #0.2

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	5.54

Plan Survey Tool Program Date 9/6/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,063.8 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,378.5	7.57	132.14	4,377.4	-16.8	18.5	2.00	2.00	0.00	132.14	
11,646.5	7.57	132.14	11,582.1	-659.2	728.5	0.00	0.00	0.00	0.00	
12,025.1	0.00	0.00	11,959.5	-676.0	747.0	2.00	-2.00	0.00	180.00	KOP (Diamond 31 Fe
12,775.0	90.00	359.56	12,437.0	-198.6	743.4	12.00	12.00	-0.06	359.56	
20,063.8	90.00	359.56	12,437.0	7,090.0	688.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 Fe

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Diamond 31 Fed.Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3482.0usft
 MD Reference: KB = 25' @ 3482.0usft
 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	2.00	132.14	4,100.0	-1.2	1.3	-1.0	2.00	2.00	0.00
4,200.0	4.00	132.14	4,199.8	-4.7	5.2	-4.2	2.00	2.00	0.00
4,300.0	6.00	132.14	4,299.5	-10.5	11.6	-9.4	2.00	2.00	0.00
4,378.5	7.57	132.14	4,377.4	-16.8	18.5	-14.9	2.00	2.00	0.00
4,400.0	7.57	132.14	4,398.7	-18.7	20.6	-16.6	0.00	0.00	0.00
4,500.0	7.57	132.14	4,497.8	-27.5	30.4	-24.4	0.00	0.00	0.00
4,600.0	7.57	132.14	4,597.0	-36.3	40.1	-32.3	0.00	0.00	0.00
4,700.0	7.57	132.14	4,696.1	-45.2	49.9	-40.1	0.00	0.00	0.00
4,800.0	7.57	132.14	4,795.2	-54.0	59.7	-48.0	0.00	0.00	0.00
4,900.0	7.57	132.14	4,894.4	-62.9	69.5	-55.9	0.00	0.00	0.00
5,000.0	7.57	132.14	4,993.5	-71.7	79.2	-63.7	0.00	0.00	0.00
5,100.0	7.57	132.14	5,092.6	-80.5	89.0	-71.6	0.00	0.00	0.00
5,200.0	7.57	132.14	5,191.7	-89.4	98.8	-79.4	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Diamond 31 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3482.0usft
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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)
5,300.0	7.57	132.14	5,290.9	-98.2	108.5	-87.3	0.00	0.00	0.00
5,400.0	7.57	132.14	5,390.0	-107.1	118.3	-95.1	0.00	0.00	0.00
5,500.0	7.57	132.14	5,489.1	-115.9	128.1	-103.0	0.00	0.00	0.00
5,600.0	7.57	132.14	5,588.3	-124.7	137.8	-110.8	0.00	0.00	0.00
5,700.0	7.57	132.14	5,687.4	-133.6	147.6	-118.7	0.00	0.00	0.00
5,800.0	7.57	132.14	5,786.5	-142.4	157.4	-126.5	0.00	0.00	0.00
5,900.0	7.57	132.14	5,885.6	-151.3	167.1	-134.4	0.00	0.00	0.00
6,000.0	7.57	132.14	5,984.8	-160.1	176.9	-142.3	0.00	0.00	0.00
6,100.0	7.57	132.14	6,083.9	-168.9	186.7	-150.1	0.00	0.00	0.00
6,200.0	7.57	132.14	6,183.0	-177.8	196.4	-158.0	0.00	0.00	0.00
6,300.0	7.57	132.14	6,282.2	-186.6	206.2	-165.8	0.00	0.00	0.00
6,400.0	7.57	132.14	6,381.3	-195.5	216.0	-173.7	0.00	0.00	0.00
6,500.0	7.57	132.14	6,480.4	-204.3	225.7	-181.5	0.00	0.00	0.00
6,600.0	7.57	132.14	6,579.5	-213.1	235.5	-189.4	0.00	0.00	0.00
6,700.0	7.57	132.14	6,678.7	-222.0	245.3	-197.2	0.00	0.00	0.00
6,800.0	7.57	132.14	6,777.8	-230.8	255.1	-205.1	0.00	0.00	0.00
6,900.0	7.57	132.14	6,876.9	-239.7	264.8	-213.0	0.00	0.00	0.00
7,000.0	7.57	132.14	6,976.0	-248.5	274.6	-220.8	0.00	0.00	0.00
7,100.0	7.57	132.14	7,075.2	-257.3	284.4	-228.7	0.00	0.00	0.00
7,200.0	7.57	132.14	7,174.3	-266.2	294.1	-236.5	0.00	0.00	0.00
7,300.0	7.57	132.14	7,273.4	-275.0	303.9	-244.4	0.00	0.00	0.00
7,400.0	7.57	132.14	7,372.6	-283.9	313.7	-252.2	0.00	0.00	0.00
7,500.0	7.57	132.14	7,471.7	-292.7	323.4	-260.1	0.00	0.00	0.00
7,600.0	7.57	132.14	7,570.8	-301.5	333.2	-267.9	0.00	0.00	0.00
7,700.0	7.57	132.14	7,669.9	-310.4	343.0	-275.8	0.00	0.00	0.00
7,800.0	7.57	132.14	7,769.1	-319.2	352.7	-283.7	0.00	0.00	0.00
7,836.4	7.57	132.14	7,805.2	-322.4	356.3	-286.5	0.00	0.00	0.00
Brushy Top (Diamond 31 Fed Com #705H)									
7,900.0	7.57	132.14	7,866.2	-328.1	362.5	-291.5	0.00	0.00	0.00
8,000.0	7.57	132.14	7,967.3	-336.9	372.3	-299.4	0.00	0.00	0.00
8,100.0	7.57	132.14	8,066.5	-345.7	382.0	-307.2	0.00	0.00	0.00
8,200.0	7.57	132.14	8,165.6	-354.6	391.8	-315.1	0.00	0.00	0.00
8,300.0	7.57	132.14	8,264.7	-363.4	401.6	-322.9	0.00	0.00	0.00
8,400.0	7.57	132.14	8,363.8	-372.3	411.4	-330.8	0.00	0.00	0.00
8,500.0	7.57	132.14	8,463.0	-381.1	421.1	-338.6	0.00	0.00	0.00
8,600.0	7.57	132.14	8,562.1	-389.9	430.9	-346.5	0.00	0.00	0.00
8,700.0	7.57	132.14	8,661.2	-398.8	440.7	-354.3	0.00	0.00	0.00
8,800.0	7.57	132.14	8,760.4	-407.6	450.4	-362.2	0.00	0.00	0.00
8,900.0	7.57	132.14	8,859.5	-416.5	460.2	-370.1	0.00	0.00	0.00
9,000.0	7.57	132.14	8,958.6	-425.3	470.0	-377.9	0.00	0.00	0.00
9,100.0	7.57	132.14	9,057.7	-434.1	479.7	-385.8	0.00	0.00	0.00
9,200.0	7.57	132.14	9,156.9	-443.0	489.5	-393.6	0.00	0.00	0.00
9,300.0	7.57	132.14	9,256.0	-451.8	499.3	-401.5	0.00	0.00	0.00
9,400.0	7.57	132.14	9,355.1	-460.7	509.0	-409.3	0.00	0.00	0.00
9,500.0	7.57	132.14	9,454.3	-469.5	518.8	-417.2	0.00	0.00	0.00
9,600.0	7.57	132.14	9,553.4	-478.3	528.6	-425.0	0.00	0.00	0.00
9,700.0	7.57	132.14	9,652.5	-487.2	538.3	-432.9	0.00	0.00	0.00
9,800.0	7.57	132.14	9,751.6	-496.0	548.1	-440.8	0.00	0.00	0.00
9,900.0	7.57	132.14	9,850.8	-504.9	557.9	-448.6	0.00	0.00	0.00
10,000.0	7.57	132.14	9,949.9	-513.7	567.6	-456.5	0.00	0.00	0.00
10,100.0	7.57	132.14	10,049.0	-522.5	577.4	-464.3	0.00	0.00	0.00
10,200.0	7.57	132.14	10,148.2	-531.4	587.2	-472.2	0.00	0.00	0.00
10,300.0	7.57	132.14	10,247.3	-540.2	597.0	-480.0	0.00	0.00	0.00

Database: EDM 5000.14
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Wellbore: OH
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Local Co-ordinate Reference: Well #705H
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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)
10,400.0	7.57	132.14	10,346.4	-549.1	606.7	-487.9	0.00	0.00	0.00
10,500.0	7.57	132.14	10,445.5	-557.9	616.5	-495.7	0.00	0.00	0.00
10,600.0	7.57	132.14	10,544.7	-566.7	626.3	-503.6	0.00	0.00	0.00
10,700.0	7.57	132.14	10,643.8	-575.6	636.0	-511.5	0.00	0.00	0.00
10,800.0	7.57	132.14	10,742.9	-584.4	645.8	-519.3	0.00	0.00	0.00
10,900.0	7.57	132.14	10,842.1	-593.3	655.6	-527.2	0.00	0.00	0.00
11,000.0	7.57	132.14	10,941.2	-602.1	665.3	-535.0	0.00	0.00	0.00
11,100.0	7.57	132.14	11,040.3	-610.9	675.1	-542.9	0.00	0.00	0.00
11,200.0	7.57	132.14	11,139.4	-619.8	684.9	-550.7	0.00	0.00	0.00
11,300.0	7.57	132.14	11,238.6	-628.6	694.6	-558.6	0.00	0.00	0.00
11,400.0	7.57	132.14	11,337.7	-637.5	704.4	-566.4	0.00	0.00	0.00
11,500.0	7.57	132.14	11,436.8	-646.3	714.2	-574.3	0.00	0.00	0.00
11,600.0	7.57	132.14	11,536.0	-655.1	723.9	-582.1	0.00	0.00	0.00
11,646.5	7.57	132.14	11,582.1	-659.2	728.5	-585.8	0.00	0.00	0.00
11,700.0	6.50	132.14	11,635.1	-663.6	733.3	-589.7	2.00	-2.00	0.00
11,800.0	4.50	132.14	11,734.7	-670.1	740.4	-595.4	2.00	-2.00	0.00
11,900.0	2.50	132.14	11,834.5	-674.2	745.0	-599.1	2.00	-2.00	0.00
12,000.0	0.50	132.14	11,934.4	-675.9	746.9	-600.6	2.00	-2.00	0.00
12,025.1	0.00	0.00	11,959.5	-676.0	747.0	-600.7	2.00	-2.00	0.00
KOP (Diamond 31 Fed Com #705H)									
12,050.0	2.99	359.56	11,984.4	-675.3	747.0	-600.0	12.00	12.00	0.00
12,075.0	5.99	359.56	12,009.4	-673.4	747.0	-598.1	12.00	12.00	0.00
12,100.0	8.99	359.56	12,034.1	-670.1	747.0	-594.9	12.00	12.00	0.00
12,125.0	11.99	359.56	12,058.7	-665.6	746.9	-590.3	12.00	12.00	0.00
12,150.0	14.99	359.56	12,083.0	-659.7	746.9	-584.5	12.00	12.00	0.00
12,175.0	17.99	359.56	12,107.0	-652.6	746.8	-577.5	12.00	12.00	0.00
12,200.0	20.99	359.56	12,130.6	-644.3	746.8	-569.2	12.00	12.00	0.00
12,225.0	23.99	359.56	12,153.7	-634.7	746.7	-559.7	12.00	12.00	0.00
12,250.0	26.99	359.56	12,176.2	-624.0	746.6	-549.0	12.00	12.00	0.00
12,275.0	29.99	359.56	12,198.2	-612.1	746.5	-537.1	12.00	12.00	0.00
12,300.0	32.99	359.56	12,219.5	-599.0	746.4	-524.1	12.00	12.00	0.00
12,325.0	35.99	359.56	12,240.1	-584.8	746.3	-510.0	12.00	12.00	0.00
12,350.0	38.99	359.56	12,259.9	-569.6	746.2	-494.9	12.00	12.00	0.00
12,375.0	41.99	359.56	12,278.9	-553.4	746.1	-478.8	12.00	12.00	0.00
12,400.0	44.99	359.56	12,297.1	-536.2	745.9	-461.6	12.00	12.00	0.00
12,425.0	47.99	359.56	12,314.3	-518.1	745.8	-443.6	12.00	12.00	0.00
FTP (Diamond 31 Fed Com #705H)									
12,450.0	50.99	359.56	12,330.5	-499.1	745.7	-424.7	12.00	12.00	0.00
12,475.0	53.99	359.56	12,345.7	-479.2	745.5	-405.0	12.00	12.00	0.00
12,500.0	56.99	359.56	12,359.9	-458.6	745.3	-384.5	12.00	12.00	0.00
12,525.0	59.99	359.56	12,373.0	-437.3	745.2	-363.3	12.00	12.00	0.00
12,550.0	62.99	359.56	12,384.9	-415.4	745.0	-341.5	12.00	12.00	0.00
12,575.0	65.99	359.56	12,395.7	-392.8	744.8	-319.0	12.00	12.00	0.00
12,600.0	68.99	359.56	12,405.2	-369.7	744.7	-296.0	12.00	12.00	0.00
12,625.0	71.99	359.56	12,413.6	-346.1	744.5	-272.6	12.00	12.00	0.00
12,650.0	74.99	359.56	12,420.7	-322.2	744.3	-248.8	12.00	12.00	0.00
12,675.0	77.99	359.56	12,426.5	-297.9	744.1	-224.6	12.00	12.00	0.00
12,700.0	80.99	359.56	12,431.1	-273.3	743.9	-200.2	12.00	12.00	0.00
12,725.0	83.99	359.56	12,434.3	-248.5	743.8	-175.5	12.00	12.00	0.00
12,750.0	86.99	359.56	12,436.3	-223.6	743.6	-150.7	12.00	12.00	0.00
12,775.0	90.00	359.56	12,437.0	-198.6	743.4	-125.8	12.00	12.00	0.00
12,800.0	90.00	359.56	12,437.0	-173.6	743.2	-101.0	0.00	0.00	0.00
12,900.0	90.00	359.56	12,437.0	-73.6	742.4	-1.6	0.00	0.00	0.00
13,000.0	90.00	359.56	12,437.0	26.4	741.7	97.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Diamond 31 Fed Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3482.0usft
 MD Reference: KB = 25' @ 3482.0usft
 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)
13,100.0	90.00	359.56	12,437.0	126.4	740.9	197.4	0.00	0.00	0.00
13,200.0	90.00	359.56	12,437.0	226.4	740.1	296.8	0.00	0.00	0.00
13,300.0	90.00	359.56	12,437.0	326.4	739.4	396.3	0.00	0.00	0.00
13,400.0	90.00	359.56	12,437.0	426.4	738.6	495.7	0.00	0.00	0.00
13,500.0	90.00	359.56	12,437.0	526.4	737.9	595.2	0.00	0.00	0.00
13,600.0	90.00	359.56	12,437.0	626.4	737.1	694.6	0.00	0.00	0.00
13,700.0	90.00	359.56	12,437.0	726.4	736.3	794.1	0.00	0.00	0.00
13,800.0	90.00	359.56	12,437.0	826.4	735.6	893.6	0.00	0.00	0.00
13,900.0	90.00	359.56	12,437.0	926.4	734.8	993.0	0.00	0.00	0.00
14,000.0	90.00	359.56	12,437.0	1,026.4	734.1	1,092.5	0.00	0.00	0.00
14,100.0	90.00	359.56	12,437.0	1,126.4	733.3	1,191.9	0.00	0.00	0.00
14,200.0	90.00	359.56	12,437.0	1,226.4	732.5	1,291.4	0.00	0.00	0.00
14,300.0	90.00	359.56	12,437.0	1,326.4	731.8	1,390.8	0.00	0.00	0.00
14,400.0	90.00	359.56	12,437.0	1,426.4	731.0	1,490.3	0.00	0.00	0.00
14,500.0	90.00	359.56	12,437.0	1,526.3	730.3	1,589.7	0.00	0.00	0.00
14,600.0	90.00	359.56	12,437.0	1,626.3	729.5	1,689.2	0.00	0.00	0.00
14,700.0	90.00	359.56	12,437.0	1,726.3	728.7	1,788.7	0.00	0.00	0.00
14,800.0	90.00	359.56	12,437.0	1,826.3	728.0	1,888.1	0.00	0.00	0.00
14,900.0	90.00	359.56	12,437.0	1,926.3	727.2	1,987.6	0.00	0.00	0.00
15,000.0	90.00	359.56	12,437.0	2,026.3	726.5	2,087.0	0.00	0.00	0.00
15,100.0	90.00	359.56	12,437.0	2,126.3	725.7	2,186.5	0.00	0.00	0.00
15,200.0	90.00	359.56	12,437.0	2,226.3	725.0	2,285.9	0.00	0.00	0.00
15,300.0	90.00	359.56	12,437.0	2,326.3	724.2	2,385.4	0.00	0.00	0.00
15,400.0	90.00	359.56	12,437.0	2,426.3	723.4	2,484.9	0.00	0.00	0.00
15,500.0	90.00	359.56	12,437.0	2,526.3	722.7	2,584.3	0.00	0.00	0.00
15,600.0	90.00	359.56	12,437.0	2,626.3	721.9	2,683.8	0.00	0.00	0.00
15,700.0	90.00	359.56	12,437.0	2,726.3	721.2	2,783.2	0.00	0.00	0.00
15,800.0	90.00	359.56	12,437.0	2,826.3	720.4	2,882.7	0.00	0.00	0.00
15,900.0	90.00	359.56	12,437.0	2,926.3	719.6	2,982.1	0.00	0.00	0.00
16,000.0	90.00	359.56	12,437.0	3,026.3	718.9	3,081.6	0.00	0.00	0.00
16,100.0	90.00	359.56	12,437.0	3,126.3	718.1	3,181.0	0.00	0.00	0.00
16,200.0	90.00	359.56	12,437.0	3,226.3	717.4	3,280.5	0.00	0.00	0.00
16,300.0	90.00	359.56	12,437.0	3,326.3	716.6	3,380.0	0.00	0.00	0.00
16,400.0	90.00	359.56	12,437.0	3,426.3	715.8	3,479.4	0.00	0.00	0.00
16,500.0	90.00	359.56	12,437.0	3,526.3	715.1	3,578.9	0.00	0.00	0.00
16,600.0	90.00	359.56	12,437.0	3,626.3	714.3	3,678.3	0.00	0.00	0.00
16,700.0	90.00	359.56	12,437.0	3,726.3	713.6	3,777.8	0.00	0.00	0.00
16,800.0	90.00	359.56	12,437.0	3,826.3	712.8	3,877.2	0.00	0.00	0.00
16,900.0	90.00	359.56	12,437.0	3,926.3	712.0	3,976.7	0.00	0.00	0.00
17,000.0	90.00	359.56	12,437.0	4,026.3	711.3	4,076.2	0.00	0.00	0.00
17,100.0	90.00	359.56	12,437.0	4,126.3	710.5	4,175.6	0.00	0.00	0.00
17,200.0	90.00	359.56	12,437.0	4,226.3	709.8	4,275.1	0.00	0.00	0.00
17,300.0	90.00	359.56	12,437.0	4,326.3	709.0	4,374.5	0.00	0.00	0.00
17,400.0	90.00	359.56	12,437.0	4,426.3	708.2	4,474.0	0.00	0.00	0.00
17,500.0	90.00	359.56	12,437.0	4,526.3	707.5	4,573.4	0.00	0.00	0.00
17,600.0	90.00	359.56	12,437.0	4,626.3	706.7	4,672.9	0.00	0.00	0.00
17,700.0	90.00	359.56	12,437.0	4,726.3	706.0	4,772.3	0.00	0.00	0.00
17,800.0	90.00	359.56	12,437.0	4,826.3	705.2	4,871.8	0.00	0.00	0.00
17,900.0	90.00	359.56	12,437.0	4,926.3	704.4	4,971.3	0.00	0.00	0.00
18,000.0	90.00	359.56	12,437.0	5,026.2	703.7	5,070.7	0.00	0.00	0.00
18,100.0	90.00	359.56	12,437.0	5,126.2	702.9	5,170.2	0.00	0.00	0.00
18,200.0	90.00	359.56	12,437.0	5,226.2	702.2	5,269.6	0.00	0.00	0.00
18,300.0	90.00	359.56	12,437.0	5,326.2	701.4	5,369.1	0.00	0.00	0.00
18,400.0	90.00	359.56	12,437.0	5,426.2	700.6	5,468.5	0.00	0.00	0.00

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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)
18,500.0	90.00	359.56	12,437.0	5,526.2	699.9	5,568.0	0.00	0.00	0.00
18,600.0	90.00	359.56	12,437.0	5,626.2	699.1	5,667.5	0.00	0.00	0.00
18,700.0	90.00	359.56	12,437.0	5,726.2	698.4	5,766.9	0.00	0.00	0.00
18,800.0	90.00	359.56	12,437.0	5,826.2	697.6	5,866.4	0.00	0.00	0.00
18,900.0	90.00	359.56	12,437.0	5,926.2	696.8	5,965.8	0.00	0.00	0.00
19,000.0	90.00	359.56	12,437.0	6,026.2	696.1	6,065.3	0.00	0.00	0.00
19,100.0	90.00	359.56	12,437.0	6,126.2	695.3	6,164.7	0.00	0.00	0.00
19,200.0	90.00	359.56	12,437.0	6,226.2	694.6	6,264.2	0.00	0.00	0.00
19,300.0	90.00	359.56	12,437.0	6,326.2	693.8	6,363.6	0.00	0.00	0.00
19,400.0	90.00	359.56	12,437.0	6,426.2	693.0	6,463.1	0.00	0.00	0.00
19,500.0	90.00	359.56	12,437.0	6,526.2	692.3	6,562.6	0.00	0.00	0.00
19,600.0	90.00	359.56	12,437.0	6,626.2	691.5	6,662.0	0.00	0.00	0.00
19,700.0	90.00	359.56	12,437.0	6,726.2	690.8	6,761.5	0.00	0.00	0.00
19,800.0	90.00	359.56	12,437.0	6,826.2	690.0	6,860.9	0.00	0.00	0.00
19,900.0	90.00	359.56	12,437.0	6,926.2	689.2	6,960.4	0.00	0.00	0.00
20,000.0	90.00	359.56	12,437.0	7,026.2	688.5	7,059.8	0.00	0.00	0.00
20,063.8	90.00	359.56	12,437.0	7,090.0	688.0	7,123.3	0.00	0.00	0.00

PBHL (Diamond 31 Fed Com #705H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Diamond 31 Fed C - hit/miss target - Shape - Point)	0.00	0.00	11,959.5	-676.0	747.0	425,439.00	795,999.00	32° 10' 0.959 N	103° 30' 37.191 W
PBHL (Diamond 31 Fed - plan hits target center - Rectangle (sides W50.0 H0.0 D7,156.0))	90.00	359.56	12,437.0	7,090.0	688.0	433,205.00	795,940.00	32° 11' 17.809 N	103° 30' 37.186 W
FTP (Diamond 31 Fed C - plan misses target center by 163.4usft at 12425.0usft MD (12314.3 TVD, -518.1 N, 745.8 E) - Point)	0.00	0.00	12,437.0	-626.0	747.0	425,489.00	795,999.00	32° 10' 1.454 N	103° 30' 37.186 W