

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

Form C-103
Revised July 18, 2013

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

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.)		WELL API NO. 30-025-44757
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 Diamond 31 Fed Com
4. Well Location Unit Letter 4 : 618 feet from the RECEIVED line and 625 feet from the West line Section 31 Township 24S Range 34E NMPM County Lea		8. Well Number 701H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3468' GR		9. OGRID Number 7377
		10. Pool name or Wildcat WC-025 G-09 S243336I; Upper WC

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: Chg 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: 2539' FSL & 330' 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): _____

S:\SURVEY\EGG MIDLAND\DIAMOND 31\FINAL PRODUCTS\LO DIAMOND31\FEDCOM 701H REV1 C-102.DWG 8/28/2018 7:33:25 AM Istewari

Intent ☒ As Drilled ☐

HQETS 007

SEP 11 2018

API #
30-025-44757

RECEIVED

Operator Name: EOG Resources, Inc.	Property Name: Diamond 31 Fed Com	Well Number 701H
---------------------------------------	--------------------------------------	---------------------

Kick Off Point (KOP)

UL	Section 31	Township 24S	Range 34E	Lot 4	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section 31	Township 24S	Range 34E	Lot 4	Feet 100	From N/S South	Feet 330	From E/W West	County Lea
Latitude N 32.1670716					Longitude W -103.5164379				NAD 83

Last Take Point (LTP)

UL	Section 30	Township 24S	Range 34E	Lot 3	Feet 2539	From N/S South	Feet 330	From E/W West	County Lea
Latitude N 32.1882795					Longitude W -103.5164390				NAD 83

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

☐ Yes

Is this well an infill well?

☐ No

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

API #	Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Revised Permit Information 9/6/18:

Well Name: Diamond 31 Fed Com No. 701H

Location:

SL: 618' FSL & 625' FWL, Section 31, T-24-S, R-34-E, Lea Co., N.M.

BHL: 2539' FSL & 330' 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' - 20,035'	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
20,035'	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' - 20,035' Lateral	Oil Base	10.0-11.5	58-68	3 - 6



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #701H

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: #701H

KB = 25' @ 3453.0usft
Northing 425986.00 Easting 794400.00
Latitude 32° 10' 8.891 N Longitude 103° 30' 55.743 W

Azimuths to Grid North
True North: -0.43°
Magnetic North: 8.47°
Magnetic Field
Strength: 47696.5uT
Dip Angle: 60.02°
Date: 8/28/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.47°
To convert a Magnetic Direction to a True Direction, Add 8.90° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

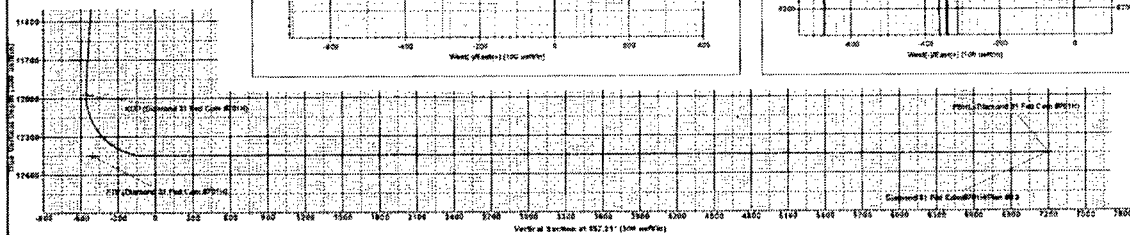
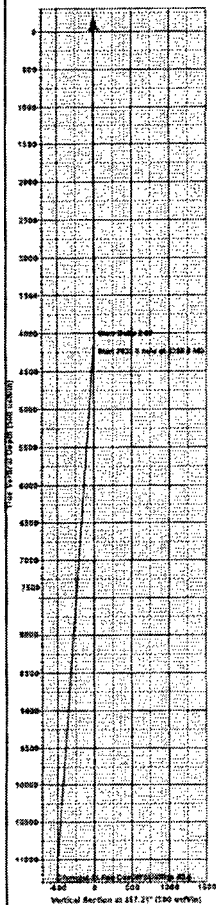
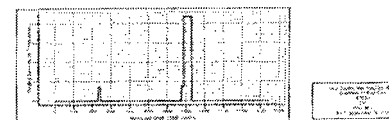
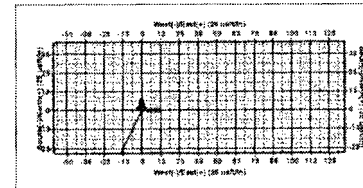
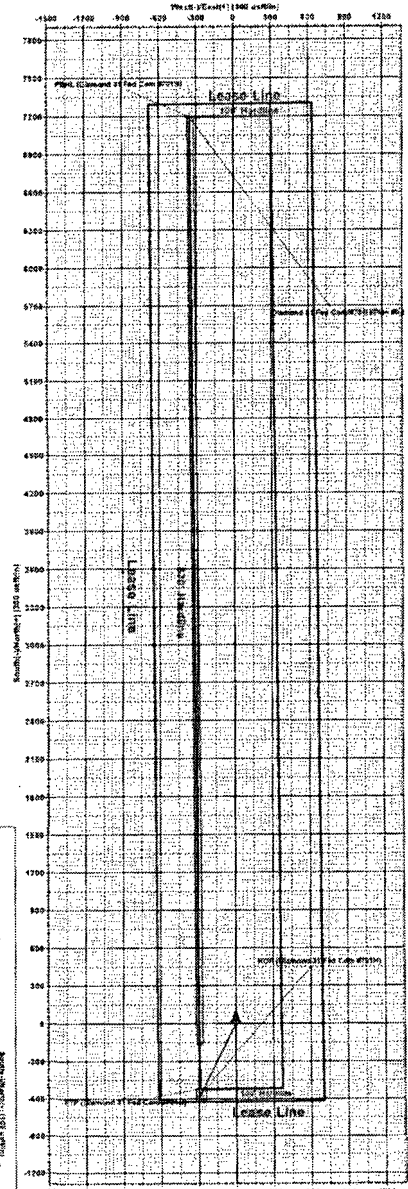
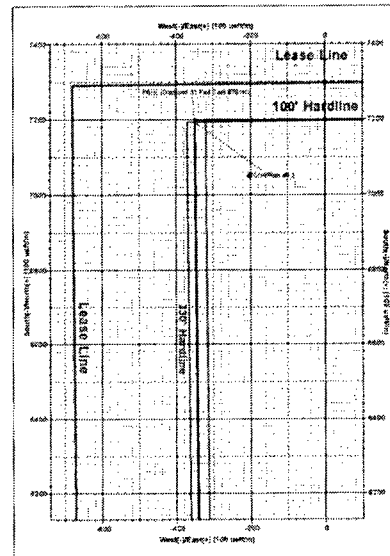
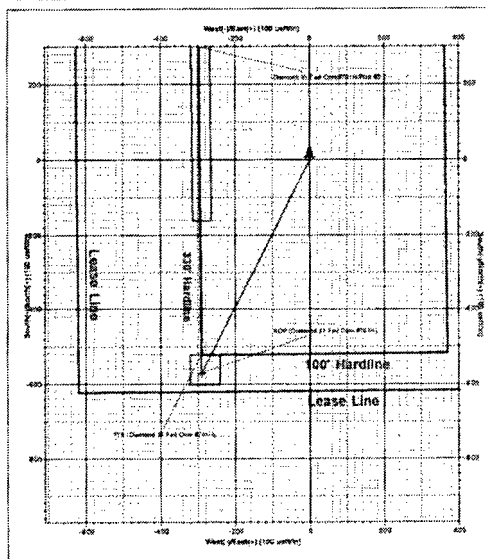
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4236.9	4.74	207.00	4236.6	-8.7	-4.4	2.00	207.00	-8.5	
4	11759.9	4.74	207.00	11733.9	-562.3	-286.6	0.00	0.00	-547.7	KOP (Diamond 31 Fed Com #701H)
5	11996.7	0.00	0.00	11970.5	-571.0	-291.0	2.00	180.00	-556.2	
6	12746.7	90.00	359.56	12448.0	-93.6	-294.6	12.00	359.56	-79.1	PBHL (Diamond 31 Fed Com #701H)
7	20034.5	90.00	359.56	12448.0	7194.0	-350.0	0.00	0.00	7202.5	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
Brushy Top (Diamond 31 Fed Com #701H)	7600.0	-571.0	-263.0	425425.00	794197.00
KOP (Diamond 31 Fed Com #701H)	11970.5	-571.0	-291.0	425425.00	794109.00
P19 (Diamond 31 Fed Com #701H)	12448.0	-621.0	-281.0	425475.00	794109.00
PBHL (Diamond 31 Fed Com #701H)	12448.0	7194.0	-350.0	433190.00	794050.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#701H

OH

Plan: Plan #0.2

Standard Planning Report

06 September, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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

Well	#701H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	-70.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,468.0 usft
			Latitude:
			32° 10' 6.591 N
			Longitude:
			103° 30' 55.743 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/28/2017	(°)
			6.90
			Dip Angle
			(°)
			60.02
			Field Strength
			(nT)
			47,890.45413502

Design	Plan #0.2		
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
			(°)
			357.21

Plan Survey Tool Program	Date 9/6/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	20,034.5 Plan #0.2 (OH)	MWD
			OWSG MWD - Standard
			Remarks

Plan Sections											
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target	
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)		
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)			
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		
4,236.9	4.74	207.00	4,236.6	-8.7	-4.4	2.00	2.00	0.00	207.00		
11,759.9	4.74	207.00	11,733.9	-562.3	-286.6	0.00	0.00	0.00	0.00		
11,996.7	0.00	0.00	11,970.5	-571.0	-291.0	2.00	-2.00	0.00	180.00	KOP (Diamond 31 Fe	
12,746.7	90.00	359.56	12,448.0	-93.6	-294.6	12.00	12.00	-0.06	359.56		
20,034.5	90.00	359.56	12,448.0	7,194.0	-350.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 Fe	

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	207.00	4,100.0	-1.6	-0.8	-1.5	2.00	2.00	0.00
4,200.0	4.00	207.00	4,199.8	-6.2	-3.2	-6.1	2.00	2.00	0.00
4,236.9	4.74	207.00	4,236.6	-8.7	-4.4	-8.5	2.00	2.00	0.00
4,300.0	4.74	207.00	4,299.5	-13.4	-6.8	-13.0	0.00	0.00	0.00
4,400.0	4.74	207.00	4,399.2	-20.7	-10.6	-20.2	0.00	0.00	0.00
4,500.0	4.74	207.00	4,498.8	-28.1	-14.3	-27.4	0.00	0.00	0.00
4,600.0	4.74	207.00	4,598.5	-35.4	-18.1	-34.5	0.00	0.00	0.00
4,700.0	4.74	207.00	4,698.1	-42.8	-21.8	-41.7	0.00	0.00	0.00
4,800.0	4.74	207.00	4,797.8	-50.2	-25.6	-48.9	0.00	0.00	0.00
4,900.0	4.74	207.00	4,897.5	-57.5	-29.3	-56.0	0.00	0.00	0.00
5,000.0	4.74	207.00	4,997.1	-64.9	-33.1	-63.2	0.00	0.00	0.00
5,100.0	4.74	207.00	5,096.8	-72.2	-36.8	-70.4	0.00	0.00	0.00
5,200.0	4.74	207.00	5,196.4	-79.6	-40.6	-77.5	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: #701H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3493.0usft
 MD Reference: KB = 25' @ 3493.0usft
 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)
5,300.0	4.74	207.00	5,296.1	-86.9	-44.3	-84.7	0.00	0.00	0.00
5,400.0	4.74	207.00	5,395.8	-94.3	-48.1	-91.9	0.00	0.00	0.00
5,500.0	4.74	207.00	5,495.4	-101.7	-51.8	-99.0	0.00	0.00	0.00
5,600.0	4.74	207.00	5,595.1	-109.0	-55.6	-106.2	0.00	0.00	0.00
5,700.0	4.74	207.00	5,694.7	-116.4	-59.3	-113.4	0.00	0.00	0.00
5,800.0	4.74	207.00	5,794.4	-123.7	-63.1	-120.5	0.00	0.00	0.00
5,900.0	4.74	207.00	5,894.0	-131.1	-66.8	-127.7	0.00	0.00	0.00
6,000.0	4.74	207.00	5,993.7	-138.5	-70.6	-134.9	0.00	0.00	0.00
6,100.0	4.74	207.00	6,093.4	-145.8	-74.3	-142.0	0.00	0.00	0.00
6,200.0	4.74	207.00	6,193.0	-153.2	-78.1	-149.2	0.00	0.00	0.00
6,300.0	4.74	207.00	6,292.7	-160.5	-81.8	-156.4	0.00	0.00	0.00
6,400.0	4.74	207.00	6,392.3	-167.9	-85.6	-163.5	0.00	0.00	0.00
6,500.0	4.74	207.00	6,492.0	-175.2	-89.3	-170.7	0.00	0.00	0.00
6,600.0	4.74	207.00	6,591.7	-182.6	-93.1	-177.9	0.00	0.00	0.00
6,700.0	4.74	207.00	6,691.3	-190.0	-96.8	-185.0	0.00	0.00	0.00
6,800.0	4.74	207.00	6,791.0	-197.3	-100.6	-192.2	0.00	0.00	0.00
6,900.0	4.74	207.00	6,890.6	-204.7	-104.3	-199.4	0.00	0.00	0.00
7,000.0	4.74	207.00	6,990.3	-212.0	-108.1	-206.5	0.00	0.00	0.00
7,100.0	4.74	207.00	7,089.9	-219.4	-111.8	-213.7	0.00	0.00	0.00
7,200.0	4.74	207.00	7,189.6	-226.8	-115.6	-220.9	0.00	0.00	0.00
7,300.0	4.74	207.00	7,289.3	-234.1	-119.3	-228.0	0.00	0.00	0.00
7,400.0	4.74	207.00	7,388.9	-241.5	-123.1	-235.2	0.00	0.00	0.00
7,500.0	4.74	207.00	7,488.6	-248.8	-126.8	-242.4	0.00	0.00	0.00
7,600.0	4.74	207.00	7,588.2	-256.2	-130.6	-249.5	0.00	0.00	0.00
7,639.8	4.74	207.00	7,628.0	-259.1	-132.1	-252.4	0.00	0.00	0.00
Brushy Top (Diamond 31 Fed Com #701H)									
7,700.0	4.74	207.00	7,687.9	-263.5	-134.3	-256.7	0.00	0.00	0.00
7,800.0	4.74	207.00	7,787.6	-270.9	-138.1	-263.9	0.00	0.00	0.00
7,900.0	4.74	207.00	7,887.2	-278.3	-141.8	-271.0	0.00	0.00	0.00
8,000.0	4.74	207.00	7,986.9	-285.6	-145.6	-278.2	0.00	0.00	0.00
8,100.0	4.74	207.00	8,086.5	-293.0	-149.3	-285.4	0.00	0.00	0.00
8,200.0	4.74	207.00	8,186.2	-300.3	-153.1	-292.5	0.00	0.00	0.00
8,300.0	4.74	207.00	8,285.8	-307.7	-156.8	-299.7	0.00	0.00	0.00
8,400.0	4.74	207.00	8,385.5	-315.1	-160.6	-306.9	0.00	0.00	0.00
8,500.0	4.74	207.00	8,485.2	-322.4	-164.3	-314.0	0.00	0.00	0.00
8,600.0	4.74	207.00	8,584.8	-329.8	-168.1	-321.2	0.00	0.00	0.00
8,700.0	4.74	207.00	8,684.5	-337.1	-171.8	-328.4	0.00	0.00	0.00
8,800.0	4.74	207.00	8,784.1	-344.5	-175.6	-335.5	0.00	0.00	0.00
8,900.0	4.74	207.00	8,883.8	-351.8	-179.3	-342.7	0.00	0.00	0.00
9,000.0	4.74	207.00	8,983.5	-359.2	-183.1	-349.9	0.00	0.00	0.00
9,100.0	4.74	207.00	9,083.1	-366.6	-186.8	-357.0	0.00	0.00	0.00
9,200.0	4.74	207.00	9,182.8	-373.9	-190.6	-364.2	0.00	0.00	0.00
9,300.0	4.74	207.00	9,282.4	-381.3	-194.3	-371.4	0.00	0.00	0.00
9,400.0	4.74	207.00	9,382.1	-388.6	-198.1	-378.6	0.00	0.00	0.00
9,500.0	4.74	207.00	9,481.8	-396.0	-201.8	-385.7	0.00	0.00	0.00
9,600.0	4.74	207.00	9,581.4	-403.4	-205.6	-392.9	0.00	0.00	0.00
9,700.0	4.74	207.00	9,681.1	-410.7	-209.3	-400.1	0.00	0.00	0.00
9,800.0	4.74	207.00	9,780.7	-418.1	-213.1	-407.2	0.00	0.00	0.00
9,900.0	4.74	207.00	9,880.4	-425.4	-216.8	-414.4	0.00	0.00	0.00
10,000.0	4.74	207.00	9,980.0	-432.8	-220.6	-421.6	0.00	0.00	0.00
10,100.0	4.74	207.00	10,079.7	-440.1	-224.3	-428.7	0.00	0.00	0.00
10,200.0	4.74	207.00	10,179.4	-447.5	-228.1	-435.9	0.00	0.00	0.00
10,300.0	4.74	207.00	10,279.0	-454.9	-231.8	-443.1	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: #701H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #701H
KB = 25' @ 3493.0usft
KB = 25' @ 3493.0usft
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)
10,400.0	4.74	207.00	10,378.7	-462.2	-235.6	-450.2	0.00	0.00	0.00
10,500.0	4.74	207.00	10,478.3	-469.6	-239.3	-457.4	0.00	0.00	0.00
10,600.0	4.74	207.00	10,578.0	-476.9	-243.1	-464.6	0.00	0.00	0.00
10,700.0	4.74	207.00	10,677.7	-484.3	-246.8	-471.7	0.00	0.00	0.00
10,800.0	4.74	207.00	10,777.3	-491.7	-250.6	-478.9	0.00	0.00	0.00
10,900.0	4.74	207.00	10,877.0	-499.0	-254.3	-486.1	0.00	0.00	0.00
11,000.0	4.74	207.00	10,976.6	-506.4	-258.1	-493.2	0.00	0.00	0.00
11,100.0	4.74	207.00	11,076.3	-513.7	-261.8	-500.4	0.00	0.00	0.00
11,200.0	4.74	207.00	11,175.9	-521.1	-265.6	-507.6	0.00	0.00	0.00
11,300.0	4.74	207.00	11,275.6	-528.4	-269.3	-514.7	0.00	0.00	0.00
11,400.0	4.74	207.00	11,375.3	-535.8	-273.1	-521.9	0.00	0.00	0.00
11,500.0	4.74	207.00	11,474.9	-543.2	-276.8	-529.1	0.00	0.00	0.00
11,600.0	4.74	207.00	11,574.6	-550.5	-280.6	-536.2	0.00	0.00	0.00
11,700.0	4.74	207.00	11,674.2	-557.9	-284.3	-543.4	0.00	0.00	0.00
11,759.9	4.74	207.00	11,733.9	-562.3	-286.6	-547.7	0.00	0.00	0.00
11,800.0	3.93	207.00	11,773.9	-565.0	-287.9	-550.3	2.00	-2.00	0.00
11,900.0	1.93	207.00	11,873.8	-569.5	-290.3	-554.8	2.00	-2.00	0.00
11,996.7	0.00	0.00	11,970.5	-571.0	-291.0	-556.2	2.00	-2.00	0.00
KOP (Diamond 31 Fed Com #701H)									
12,000.0	0.39	359.56	11,973.8	-571.0	-291.0	-556.2	12.00	12.00	0.00
12,025.0	3.39	359.56	11,998.7	-570.2	-291.0	-555.3	12.00	12.00	0.00
12,050.0	6.39	359.56	12,023.7	-568.0	-291.0	-553.2	12.00	12.00	0.00
12,075.0	9.39	359.56	12,048.4	-564.6	-291.0	-549.8	12.00	12.00	0.00
12,100.0	12.39	359.56	12,073.0	-559.9	-291.1	-545.1	12.00	12.00	0.00
12,125.0	15.39	359.56	12,097.2	-553.9	-291.1	-539.1	12.00	12.00	0.00
12,150.0	18.39	359.56	12,121.1	-546.6	-291.2	-531.8	12.00	12.00	0.00
12,175.0	21.39	359.56	12,144.6	-538.1	-291.2	-523.3	12.00	12.00	0.00
12,200.0	24.39	359.56	12,167.7	-528.4	-291.3	-513.6	12.00	12.00	0.00
12,225.0	27.39	359.56	12,190.2	-517.5	-291.4	-502.7	12.00	12.00	0.00
12,250.0	30.39	359.56	12,212.1	-505.4	-291.5	-490.6	12.00	12.00	0.00
12,275.0	33.39	359.56	12,233.3	-492.2	-291.6	-477.4	12.00	12.00	0.00
12,300.0	36.39	359.56	12,253.8	-477.9	-291.7	-463.1	12.00	12.00	0.00
12,325.0	39.39	359.56	12,273.5	-462.5	-291.8	-447.8	12.00	12.00	0.00
12,350.0	42.39	359.56	12,292.4	-446.2	-291.9	-431.5	12.00	12.00	0.00
12,375.0	45.39	359.56	12,310.4	-428.8	-292.1	-414.1	12.00	12.00	0.00
12,400.0	48.39	359.56	12,327.5	-410.6	-292.2	-395.9	12.00	12.00	0.00
FTP (Diamond 31 Fed Com #701H)									
12,425.0	51.39	359.56	12,343.6	-391.5	-292.4	-376.8	12.00	12.00	0.00
12,450.0	54.39	359.56	12,358.7	-371.5	-292.5	-356.9	12.00	12.00	0.00
12,475.0	57.39	359.56	12,372.7	-350.8	-292.7	-336.2	12.00	12.00	0.00
12,500.0	60.39	359.56	12,385.6	-329.4	-292.8	-314.8	12.00	12.00	0.00
12,525.0	63.39	359.56	12,397.4	-307.4	-293.0	-292.8	12.00	12.00	0.00
12,550.0	66.39	359.56	12,408.0	-284.8	-293.2	-270.2	12.00	12.00	0.00
12,575.0	69.39	359.56	12,417.4	-261.6	-293.4	-247.0	12.00	12.00	0.00
12,600.0	72.39	359.56	12,425.6	-238.0	-293.5	-223.4	12.00	12.00	0.00
12,625.0	75.39	359.56	12,432.5	-214.0	-293.7	-199.4	12.00	12.00	0.00
12,650.0	78.39	359.56	12,438.2	-189.6	-293.9	-175.1	12.00	12.00	0.00
12,675.0	81.39	359.56	12,442.6	-165.0	-294.1	-150.5	12.00	12.00	0.00
12,700.0	84.39	359.56	12,445.7	-140.2	-294.3	-125.7	12.00	12.00	0.00
12,725.0	87.39	359.56	12,447.5	-115.3	-294.5	-100.8	12.00	12.00	0.00
12,746.7	90.00	359.56	12,448.0	-93.6	-294.6	-79.1	12.00	12.00	0.00
12,800.0	90.00	359.56	12,448.0	-40.3	-295.0	-25.9	0.00	0.00	0.00
12,900.0	90.00	359.56	12,448.0	59.7	-295.8	74.0	0.00	0.00	0.00
13,000.0	90.00	359.56	12,448.0	159.7	-296.6	173.9	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: #701H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3493.0usft
 MD Reference: KB = 25' @ 3493.0usft
 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	12,448.0	259.7	-297.3	273.8	0.00	0.00	0.00
13,200.0	90.00	359.56	12,448.0	359.7	-298.1	373.8	0.00	0.00	0.00
13,300.0	90.00	359.56	12,448.0	459.7	-298.8	473.7	0.00	0.00	0.00
13,400.0	90.00	359.56	12,448.0	559.7	-299.6	573.6	0.00	0.00	0.00
13,500.0	90.00	359.56	12,448.0	659.7	-300.4	673.5	0.00	0.00	0.00
13,600.0	90.00	359.56	12,448.0	759.7	-301.1	773.4	0.00	0.00	0.00
13,700.0	90.00	359.56	12,448.0	859.7	-301.9	873.3	0.00	0.00	0.00
13,800.0	90.00	359.56	12,448.0	959.7	-302.6	973.3	0.00	0.00	0.00
13,900.0	90.00	359.56	12,448.0	1,059.7	-303.4	1,073.2	0.00	0.00	0.00
14,000.0	90.00	359.56	12,448.0	1,159.7	-304.2	1,173.1	0.00	0.00	0.00
14,100.0	90.00	359.56	12,448.0	1,259.7	-304.9	1,273.0	0.00	0.00	0.00
14,200.0	90.00	359.56	12,448.0	1,359.7	-305.7	1,372.9	0.00	0.00	0.00
14,300.0	90.00	359.56	12,448.0	1,459.7	-306.4	1,472.8	0.00	0.00	0.00
14,400.0	90.00	359.56	12,448.0	1,559.7	-307.2	1,572.7	0.00	0.00	0.00
14,500.0	90.00	359.56	12,448.0	1,659.7	-307.9	1,672.7	0.00	0.00	0.00
14,600.0	90.00	359.56	12,448.0	1,759.7	-308.7	1,772.6	0.00	0.00	0.00
14,700.0	90.00	359.56	12,448.0	1,859.7	-309.5	1,872.5	0.00	0.00	0.00
14,800.0	90.00	359.56	12,448.0	1,959.7	-310.2	1,972.4	0.00	0.00	0.00
14,900.0	90.00	359.56	12,448.0	2,059.6	-311.0	2,072.3	0.00	0.00	0.00
15,000.0	90.00	359.56	12,448.0	2,159.6	-311.7	2,172.2	0.00	0.00	0.00
15,100.0	90.00	359.56	12,448.0	2,259.6	-312.5	2,272.2	0.00	0.00	0.00
15,200.0	90.00	359.56	12,448.0	2,359.6	-313.3	2,372.1	0.00	0.00	0.00
15,300.0	90.00	359.56	12,448.0	2,459.6	-314.0	2,472.0	0.00	0.00	0.00
15,400.0	90.00	359.56	12,448.0	2,559.6	-314.8	2,571.9	0.00	0.00	0.00
15,500.0	90.00	359.56	12,448.0	2,659.6	-315.5	2,671.8	0.00	0.00	0.00
15,600.0	90.00	359.56	12,448.0	2,759.6	-316.3	2,771.7	0.00	0.00	0.00
15,700.0	90.00	359.56	12,448.0	2,859.6	-317.1	2,871.7	0.00	0.00	0.00
15,800.0	90.00	359.56	12,448.0	2,959.6	-317.8	2,971.6	0.00	0.00	0.00
15,900.0	90.00	359.56	12,448.0	3,059.6	-318.6	3,071.5	0.00	0.00	0.00
16,000.0	90.00	359.56	12,448.0	3,159.6	-319.3	3,171.4	0.00	0.00	0.00
16,100.0	90.00	359.56	12,448.0	3,259.6	-320.1	3,271.3	0.00	0.00	0.00
16,200.0	90.00	359.56	12,448.0	3,359.6	-320.9	3,371.2	0.00	0.00	0.00
16,300.0	90.00	359.56	12,448.0	3,459.6	-321.6	3,471.2	0.00	0.00	0.00
16,400.0	90.00	359.56	12,448.0	3,559.6	-322.4	3,571.1	0.00	0.00	0.00
16,500.0	90.00	359.56	12,448.0	3,659.6	-323.1	3,671.0	0.00	0.00	0.00
16,600.0	90.00	359.56	12,448.0	3,759.6	-323.9	3,770.9	0.00	0.00	0.00
16,700.0	90.00	359.56	12,448.0	3,859.6	-324.7	3,870.8	0.00	0.00	0.00
16,800.0	90.00	359.56	12,448.0	3,959.6	-325.4	3,970.7	0.00	0.00	0.00
16,900.0	90.00	359.56	12,448.0	4,059.6	-326.2	4,070.6	0.00	0.00	0.00
17,000.0	90.00	359.56	12,448.0	4,159.6	-326.9	4,170.6	0.00	0.00	0.00
17,100.0	90.00	359.56	12,448.0	4,259.6	-327.7	4,270.5	0.00	0.00	0.00
17,200.0	90.00	359.56	12,448.0	4,359.6	-328.5	4,370.4	0.00	0.00	0.00
17,300.0	90.00	359.56	12,448.0	4,459.6	-329.2	4,470.3	0.00	0.00	0.00
17,400.0	90.00	359.56	12,448.0	4,559.6	-330.0	4,570.2	0.00	0.00	0.00
17,500.0	90.00	359.56	12,448.0	4,659.6	-330.7	4,670.1	0.00	0.00	0.00
17,600.0	90.00	359.56	12,448.0	4,759.6	-331.5	4,770.1	0.00	0.00	0.00
17,700.0	90.00	359.56	12,448.0	4,859.6	-332.3	4,870.0	0.00	0.00	0.00
17,800.0	90.00	359.56	12,448.0	4,959.6	-333.0	4,969.9	0.00	0.00	0.00
17,900.0	90.00	359.56	12,448.0	5,059.6	-333.8	5,069.8	0.00	0.00	0.00
18,000.0	90.00	359.56	12,448.0	5,159.6	-334.5	5,169.7	0.00	0.00	0.00
18,100.0	90.00	359.56	12,448.0	5,259.6	-335.3	5,269.6	0.00	0.00	0.00
18,200.0	90.00	359.56	12,448.0	5,359.6	-336.1	5,369.6	0.00	0.00	0.00
18,300.0	90.00	359.56	12,448.0	5,459.6	-336.8	5,469.5	0.00	0.00	0.00
18,400.0	90.00	359.56	12,448.0	5,559.5	-337.6	5,569.4	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	12,448.0	5,659.5	-338.3	5,669.3	0.00	0.00	0.00
18,600.0	90.00	359.56	12,448.0	5,759.5	-339.1	5,769.2	0.00	0.00	0.00
18,700.0	90.00	359.56	12,448.0	5,859.5	-339.9	5,869.1	0.00	0.00	0.00
18,800.0	90.00	359.56	12,448.0	5,959.5	-340.6	5,969.0	0.00	0.00	0.00
18,900.0	90.00	359.56	12,448.0	6,059.5	-341.4	6,069.0	0.00	0.00	0.00
19,000.0	90.00	359.56	12,448.0	6,159.5	-342.1	6,168.9	0.00	0.00	0.00
19,100.0	90.00	359.56	12,448.0	6,259.5	-342.9	6,268.8	0.00	0.00	0.00
19,200.0	90.00	359.56	12,448.0	6,359.5	-343.7	6,368.7	0.00	0.00	0.00
19,300.0	90.00	359.56	12,448.0	6,459.5	-344.4	6,468.6	0.00	0.00	0.00
19,400.0	90.00	359.56	12,448.0	6,559.5	-345.2	6,568.5	0.00	0.00	0.00
19,500.0	90.00	359.56	12,448.0	6,659.5	-345.9	6,668.5	0.00	0.00	0.00
19,600.0	90.00	359.56	12,448.0	6,759.5	-346.7	6,768.4	0.00	0.00	0.00
19,700.0	90.00	359.56	12,448.0	6,859.5	-347.5	6,868.3	0.00	0.00	0.00
19,800.0	90.00	359.56	12,448.0	6,959.5	-348.2	6,968.2	0.00	0.00	0.00
19,900.0	90.00	359.56	12,448.0	7,059.5	-349.0	7,068.1	0.00	0.00	0.00
20,000.0	90.00	359.56	12,448.0	7,159.5	-349.7	7,168.0	0.00	0.00	0.00
20,034.5	90.00	359.56	12,448.0	7,194.0	-350.0	7,202.5	0.00	0.00	0.00

PBHL (Diamond 31 Fed Com #701H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP (Diamond 31 Fed C	0.00	0.00	11,970.5	-571.0	-291.0	425,425.00	794,109.00	32° 10' 0.963 N	103° 30' 59.179 W
- plan hits target center									
- Polygon									
Point 1			11,970.5	50.0	-30.0	425,475.00	794,079.00		
Point 2			11,970.5	50.0	50.0	425,475.00	794,159.00		
Point 3			11,970.5	-30.0	50.0	425,395.00	794,159.00		
Point 4			11,970.5	-30.0	-30.0	425,395.00	794,079.00		
FTP (Diamond 31 Fed C	0.00	0.00	12,448.0	-521.0	-291.0	425,475.00	794,109.00	32° 10' 1.458 N	103° 30' 59.174 W
- plan misses target center by 163.4usft at 12400.0usft MD (12327.5 TVD, -410.6 N, -292.2 E)									
- Point									
PBHL (Diamond 31 Fed	90.00	359.56	12,448.0	7,194.0	-350.0	433,190.00	794,050.00	32° 11' 17.803 N	103° 30' 59.179 W
- plan hits target center									
- Rectangle (sides W50.0 H0.0 D7,355.0)									