

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 87401
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

HOBBS OCD SEP 12 2018 RECEIVED		WELL API NO. 30-025-44758
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.)		5. Indicate Type of Lease STATE ☐ FEE ☐
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		6. State Oil & Gas Lease No.
2. Name of Operator EOG Resources, Inc.		7. Lease Name or Unit Agreement Name Diamond 31 Fed Com
3. Address of Operator P.O. Box 2267 Midland, TX 79702		8. Well Number 702H
4. Well Location Unit Letter 4, 618 feet from the South line and 660 feet from the West line Section 31 Township 24S Range 34E NMPM County Lea		9. OGRID Number 7377
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3468' GR		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:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: Chg BHL & HSU ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
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: 2540' FSL & 960' 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
Stan Wagner

TITLE

Regulatory Analyst

DATE

09/10/2018

Type or print name

E-mail address:

PHONE:

432-686-3689

For State Use Only

APPROVED BY:

Karen Sharp
Karen Sharp

TITLE

Staff Mgr

DATE

9-12-18

Conditions of Approval (if any):

Intent ☒ As Drilled ☐

API # 30-025-44758			
Operator Name: EOG Resources, Inc.		Property Name: Diamond 31 Fed Com	Well Number 702H

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 960	From E/W West	County Lea
Latitude N 32.1670712					Longitude W -103.5144021				NAD 83

Last Take Point (LTP)

UL	Section 30	Township 24S	Range 34E	Lot 3	Feet 2540	From N/S South	Feet 960	From E/W West	County Lea
Latitude N 32.1882797					Longitude W -103.5144026				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 # 30-025-44757			
Operator Name: EOG Resources, Inc.		Property Name: Diamond 31 Fed Com	Well Number 701H

KZ 06/29/2018

Revised Permit Information 9/6/18:

Well Name: Diamond 31 Fed Com No. 702H

Location:

SL: 618' FSL & 660' FWL, Section 31, T-24-S, R-34-E, Lea Co., N.M.

BHL: 2540' FSL & 960' 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' - 20,089'	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
20,089'	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:

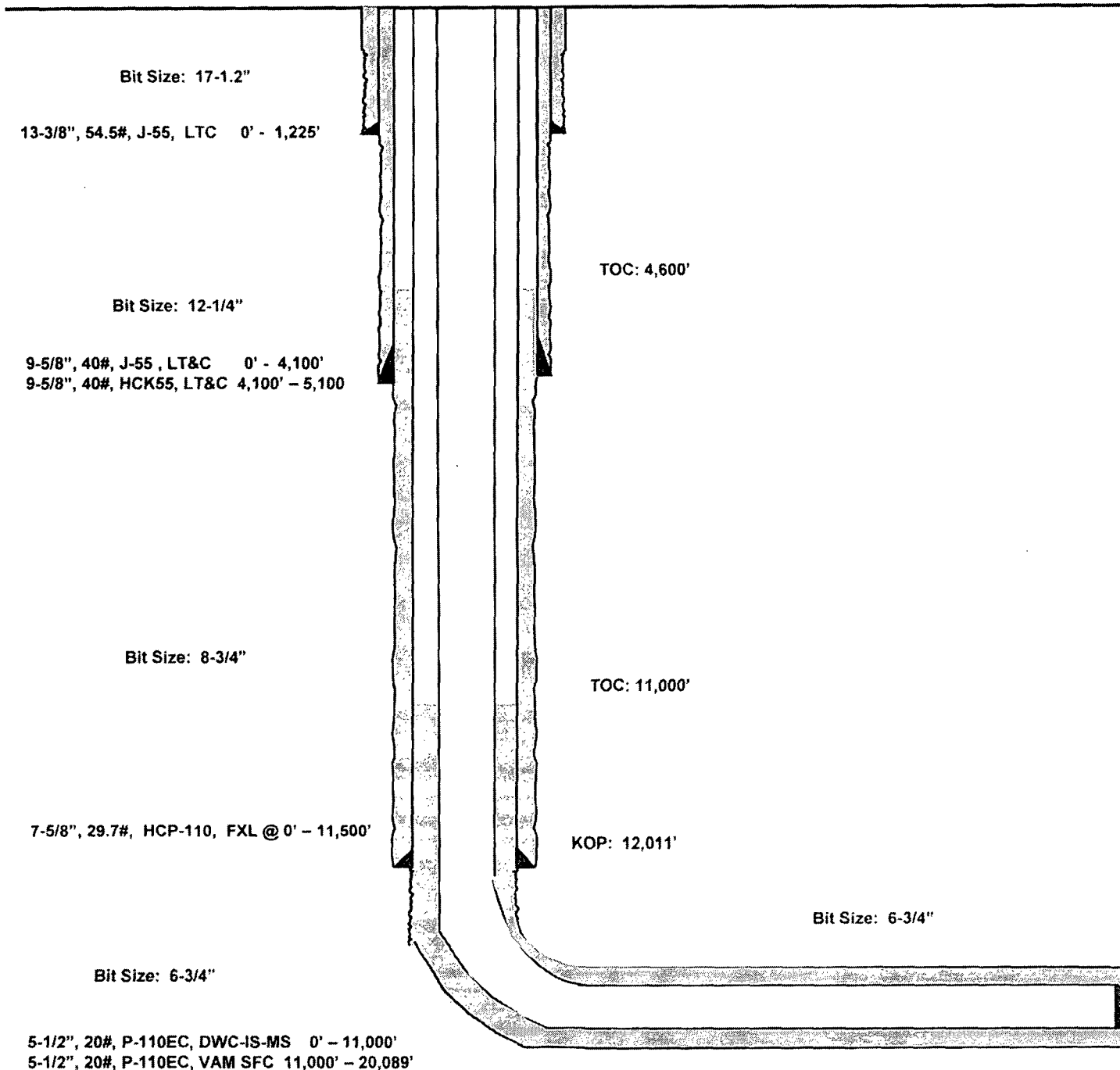
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1225'	Fresh - Gel	8.6-8.8	28-34	N/c
1225' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 11,500'	Oil Base	8.7-9.4	58-68	N/c - 6
11,500' – 20,089' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Diamond 31 Fed Com #702H

618' FSL
660' FWL
Section 31
T-24-S, R-34-E

Lea County, New Mexico
Proposed Wellbore
Revised 9/6/18
API: 30-025-44758

KB: 3,473'
GL: 3,468'



Lateral: 20,089' MD, 12,503' TVD
Upper Most Perf:
100' FSL & 960' FWL Sec. 31
Lower Most Perf:
2540' FSL & 960' FWL Sec. 30
BH Location: 2540' FSL & 960' FWL
Section 30
T-24-S, R-34-E



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #702H

Plan #0.2



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.47°
Magnetic Field
Strength: 47893.5nT
Dip Angle: 60.02°
Date: 9/28/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.44°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

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: #702H

KB = 25 @ 5493.8usft 3458.0
Northing 425996.00 Easting 794435.00 Latitude 32° 10' 6.588 N Longitude 103° 30' 55.336 W

SECTION DETAILS

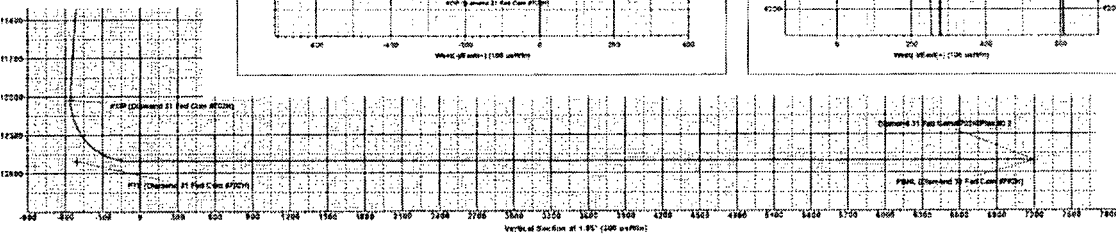
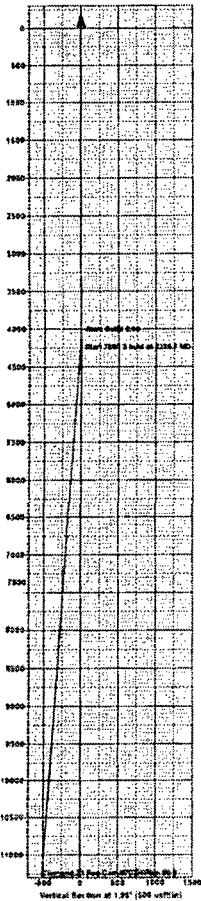
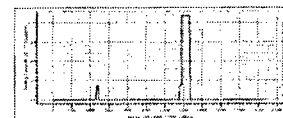
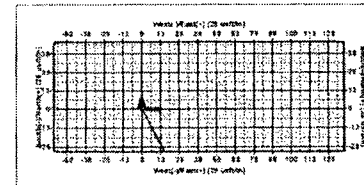
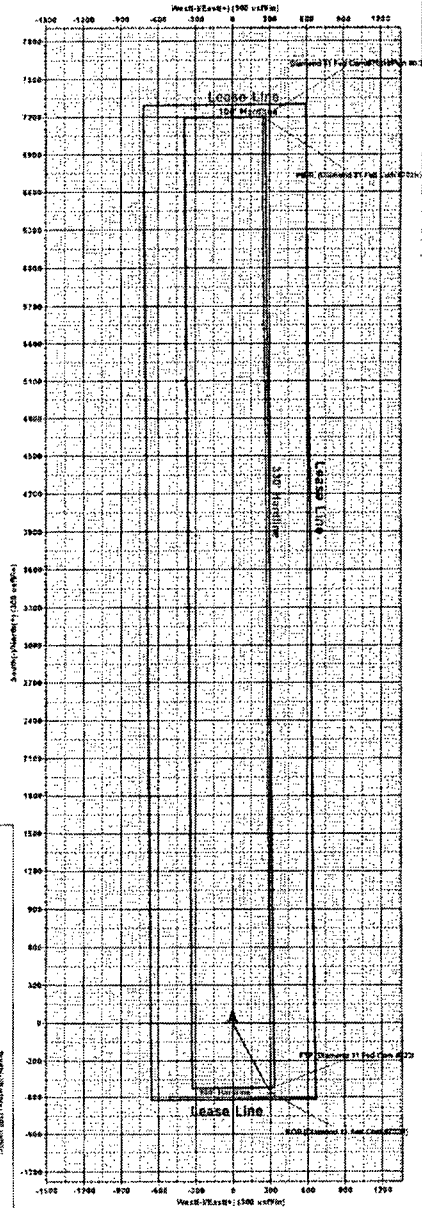
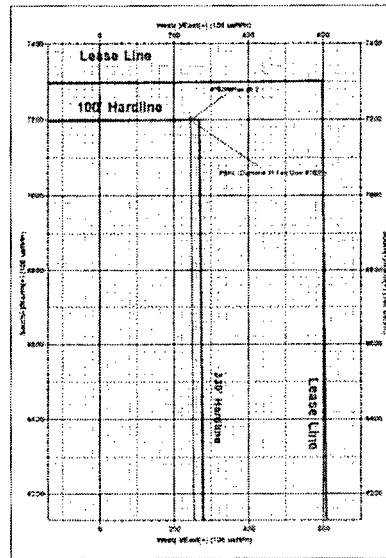
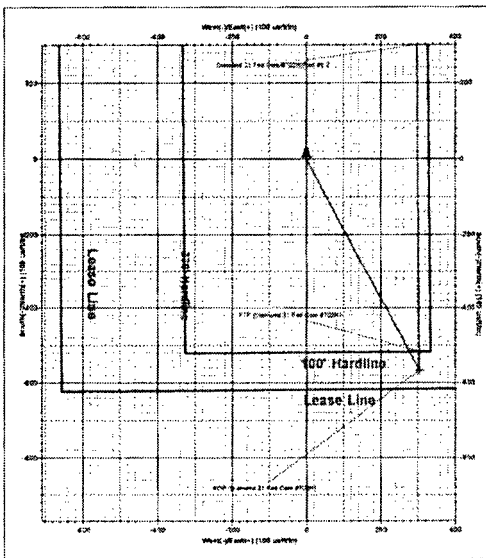
Soc	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4235.7	4.71	151.76	4235.5	-8.5	4.6	2.00	151.76	-8.4	
4	11815.9	4.71	151.76	11790.0	-557.5	299.4	0.00	0.00	-547.0	
5	12051.7	0.00	0.00	12025.5	-566.0	304.0	2.00	180.00	-555.3	KOP (Diamond 31 Fed Com #702H)
6	12801.7	90.00	359.56	12503.0	-88.6	300.4	12.00	350.56	-78.3	
7	20089.4	90.00	359.56	12503.0	7199.0	245.0	0.00	0.00	7203.2	PBHL (Diamond 31 Fed Com #702H)

CALCULATED

No casing data is available

WELLBONE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top (Diamond 31 Fed Com #702H)	7839.0	448.0	92.0	425428.00	794527.00
KOP (Diamond 31 Fed Com #702H)	12025.5	-566.0	304.0	425430.00	794739.00
FTP (Diamond 31 Fed Com #702H)	12503.0	-514.0	304.0	425480.00	794739.00
PBHL (Diamond 31 Fed Com #702H)	12503.0	7199.0	245.0	431185.00	794620.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

06 September, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
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:	#702H	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:	From:	Map	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
Northing:	425,996.00 usft	Latitude:	32° 10' 6.586 N
Easting:	794,470.00 usft	Longitude:	103° 30' 54.929 W
Grid Convergence:			0.44 °

Well	#702H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	-35.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Ground Level:	3,468.0 usft
		Latitude:	32° 10' 6.588 N
		Longitude:	103° 30' 55.336 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	8/28/2017	6.90
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,890.45824773

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
			(°)
			1.95

Plan Survey Tool Program	Date 9/6/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	20,089.4 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	
4,235.7	4.71	151.76	4,235.5	-8.5	4.6	2.00	2.00	0.00	151.76	
11,815.9	4.71	151.76	11,790.0	-557.5	299.4	0.00	0.00	0.00	0.00	
12,051.7	0.00	0.00	12,025.5	-566.0	304.0	2.00	-2.00	0.00	180.00	KOP (Diamond 31 Fe
12,801.7	90.00	359.56	12,503.0	-88.6	300.4	12.00	12.00	-0.06	359.56	
20,089.4	90.00	359.56	12,503.0	7,199.0	245.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 Fi



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Diamond 31 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 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)
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	151.76	4,100.0	-1.5	0.8	-1.5	2.00	2.00	0.00
4,200.0	4.00	151.76	4,199.8	-6.1	3.3	-6.0	2.00	2.00	0.00
4,235.7	4.71	151.76	4,235.5	-8.5	4.6	-8.4	2.00	2.00	0.00
4,300.0	4.71	151.76	4,299.5	-13.2	7.1	-12.9	0.00	0.00	0.00
4,400.0	4.71	151.76	4,399.2	-20.4	11.0	-20.1	0.00	0.00	0.00
4,500.0	4.71	151.76	4,498.8	-27.7	14.9	-27.2	0.00	0.00	0.00
4,600.0	4.71	151.76	4,598.5	-34.9	18.8	-34.3	0.00	0.00	0.00
4,700.0	4.71	151.76	4,698.2	-42.2	22.6	-41.4	0.00	0.00	0.00
4,800.0	4.71	151.76	4,797.8	-49.4	26.5	-48.5	0.00	0.00	0.00
4,900.0	4.71	151.76	4,897.5	-56.6	30.4	-55.6	0.00	0.00	0.00
5,000.0	4.71	151.76	4,997.1	-63.9	34.3	-62.7	0.00	0.00	0.00
5,100.0	4.71	151.76	5,096.8	-71.1	38.2	-69.8	0.00	0.00	0.00
5,200.0	4.71	151.76	5,196.5	-78.4	42.1	-76.9	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: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 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	4.71	151.76	5,296.1	-85.6	46.0	-84.0	0.00	0.00	0.00
5,400.0	4.71	151.76	5,395.8	-92.9	49.9	-91.1	0.00	0.00	0.00
5,500.0	4.71	151.76	5,495.5	-100.1	53.8	-98.2	0.00	0.00	0.00
5,600.0	4.71	151.76	5,595.1	-107.3	57.6	-105.3	0.00	0.00	0.00
5,700.0	4.71	151.76	5,694.8	-114.6	61.5	-112.4	0.00	0.00	0.00
5,800.0	4.71	151.76	5,794.4	-121.8	65.4	-119.5	0.00	0.00	0.00
5,900.0	4.71	151.76	5,894.1	-129.1	69.3	-126.6	0.00	0.00	0.00
6,000.0	4.71	151.76	5,993.8	-136.3	73.2	-133.7	0.00	0.00	0.00
6,100.0	4.71	151.76	6,093.4	-143.5	77.1	-140.8	0.00	0.00	0.00
6,200.0	4.71	151.76	6,193.1	-150.8	81.0	-147.9	0.00	0.00	0.00
6,300.0	4.71	151.76	6,292.7	-158.0	84.9	-155.0	0.00	0.00	0.00
6,400.0	4.71	151.76	6,392.4	-165.3	88.8	-162.2	0.00	0.00	0.00
6,500.0	4.71	151.76	6,492.1	-172.5	92.7	-169.3	0.00	0.00	0.00
6,600.0	4.71	151.76	6,591.7	-179.7	96.5	-176.4	0.00	0.00	0.00
6,700.0	4.71	151.76	6,691.4	-187.0	100.4	-183.5	0.00	0.00	0.00
6,800.0	4.71	151.76	6,791.1	-194.2	104.3	-190.6	0.00	0.00	0.00
6,900.0	4.71	151.76	6,890.7	-201.5	108.2	-197.7	0.00	0.00	0.00
7,000.0	4.71	151.76	6,990.4	-208.7	112.1	-204.8	0.00	0.00	0.00
7,100.0	4.71	151.76	7,090.0	-216.0	116.0	-211.9	0.00	0.00	0.00
7,200.0	4.71	151.76	7,189.7	-223.2	119.9	-219.0	0.00	0.00	0.00
7,300.0	4.71	151.76	7,289.4	-230.4	123.8	-226.1	0.00	0.00	0.00
7,400.0	4.71	151.76	7,389.0	-237.7	127.7	-233.2	0.00	0.00	0.00
7,500.0	4.71	151.76	7,488.7	-244.9	131.5	-240.3	0.00	0.00	0.00
7,600.0	4.71	151.76	7,588.3	-252.2	135.4	-247.4	0.00	0.00	0.00
7,631.8	4.71	151.76	7,620.0	-254.5	136.7	-249.7	0.00	0.00	0.00
Brushy Top(Diamond 31 Fed Com #702H)									
7,700.0	4.71	151.76	7,688.0	-259.4	139.3	-254.5	0.00	0.00	0.00
7,800.0	4.71	151.76	7,787.7	-266.6	143.2	-261.6	0.00	0.00	0.00
7,900.0	4.71	151.76	7,887.3	-273.9	147.1	-268.7	0.00	0.00	0.00
8,000.0	4.71	151.76	7,987.0	-281.1	151.0	-275.8	0.00	0.00	0.00
8,100.0	4.71	151.76	8,086.7	-288.4	154.9	-282.9	0.00	0.00	0.00
8,200.0	4.71	151.76	8,186.3	-295.6	158.8	-290.0	0.00	0.00	0.00
8,300.0	4.71	151.76	8,286.0	-302.9	162.7	-297.1	0.00	0.00	0.00
8,400.0	4.71	151.76	8,385.6	-310.1	166.6	-304.3	0.00	0.00	0.00
8,500.0	4.71	151.76	8,485.3	-317.3	170.4	-311.4	0.00	0.00	0.00
8,600.0	4.71	151.76	8,585.0	-324.6	174.3	-318.5	0.00	0.00	0.00
8,700.0	4.71	151.76	8,684.6	-331.8	178.2	-325.6	0.00	0.00	0.00
8,800.0	4.71	151.76	8,784.3	-339.1	182.1	-332.7	0.00	0.00	0.00
8,900.0	4.71	151.76	8,883.9	-346.3	186.0	-339.8	0.00	0.00	0.00
9,000.0	4.71	151.76	8,983.6	-353.5	189.9	-346.9	0.00	0.00	0.00
9,100.0	4.71	151.76	9,083.3	-360.8	193.8	-354.0	0.00	0.00	0.00
9,200.0	4.71	151.76	9,182.9	-368.0	197.7	-361.1	0.00	0.00	0.00
9,300.0	4.71	151.76	9,282.6	-375.3	201.6	-368.2	0.00	0.00	0.00
9,400.0	4.71	151.76	9,382.3	-382.5	205.4	-375.3	0.00	0.00	0.00
9,500.0	4.71	151.76	9,481.9	-389.8	209.3	-382.4	0.00	0.00	0.00
9,600.0	4.71	151.76	9,581.6	-397.0	213.2	-389.5	0.00	0.00	0.00
9,700.0	4.71	151.76	9,681.2	-404.2	217.1	-396.6	0.00	0.00	0.00
9,800.0	4.71	151.76	9,780.9	-411.5	221.0	-403.7	0.00	0.00	0.00
9,900.0	4.71	151.76	9,880.6	-418.7	224.9	-410.8	0.00	0.00	0.00
10,000.0	4.71	151.76	9,980.2	-426.0	228.8	-417.9	0.00	0.00	0.00
10,100.0	4.71	151.76	10,079.9	-433.2	232.7	-425.0	0.00	0.00	0.00
10,200.0	4.71	151.76	10,179.6	-440.4	236.6	-432.1	0.00	0.00	0.00
10,300.0	4.71	151.76	10,279.2	-447.7	240.5	-439.2	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: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 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)
10,400.0	4.71	151.76	10,378.9	-454.9	244.3	-446.4	0.00	0.00	0.00
10,500.0	4.71	151.76	10,478.5	-462.2	248.2	-453.5	0.00	0.00	0.00
10,600.0	4.71	151.76	10,578.2	-469.4	252.1	-460.6	0.00	0.00	0.00
10,700.0	4.71	151.76	10,677.9	-476.6	256.0	-467.7	0.00	0.00	0.00
10,800.0	4.71	151.76	10,777.5	-483.9	259.9	-474.8	0.00	0.00	0.00
10,900.0	4.71	151.76	10,877.2	-491.1	263.8	-481.9	0.00	0.00	0.00
11,000.0	4.71	151.76	10,976.8	-498.4	267.7	-489.0	0.00	0.00	0.00
11,100.0	4.71	151.76	11,076.5	-505.6	271.6	-496.1	0.00	0.00	0.00
11,200.0	4.71	151.76	11,176.2	-512.9	275.5	-503.2	0.00	0.00	0.00
11,300.0	4.71	151.76	11,275.8	-520.1	279.3	-510.3	0.00	0.00	0.00
11,400.0	4.71	151.76	11,375.5	-527.3	283.2	-517.4	0.00	0.00	0.00
11,500.0	4.71	151.76	11,475.2	-534.6	287.1	-524.5	0.00	0.00	0.00
11,600.0	4.71	151.76	11,574.8	-541.8	291.0	-531.6	0.00	0.00	0.00
11,700.0	4.71	151.76	11,674.5	-549.1	294.9	-538.7	0.00	0.00	0.00
11,800.0	4.71	151.76	11,774.1	-556.3	298.8	-545.8	0.00	0.00	0.00
11,815.9	4.71	151.76	11,790.0	-557.5	299.4	-547.0	0.00	0.00	0.00
11,900.0	3.03	151.76	11,873.9	-562.5	302.1	-551.9	2.00	-2.00	0.00
12,000.0	1.03	151.76	11,973.8	-565.6	303.8	-554.9	2.00	-2.00	0.00
12,051.7	0.00	0.00	12,025.5	-566.0	304.0	-555.3	2.00	-2.00	0.00
KOP (Diamond 31 Fed Com #702H)									
12,075.0	2.80	359.56	12,048.8	-565.4	304.0	-554.8	12.00	12.00	0.00
12,100.0	5.80	359.56	12,073.7	-563.6	304.0	-552.9	12.00	12.00	0.00
12,125.0	8.80	359.56	12,098.5	-560.4	304.0	-549.7	12.00	12.00	0.00
12,150.0	11.80	359.56	12,123.1	-555.9	303.9	-545.3	12.00	12.00	0.00
12,175.0	14.80	359.56	12,147.4	-550.2	303.9	-539.5	12.00	12.00	0.00
12,200.0	17.80	359.56	12,171.4	-543.1	303.8	-532.5	12.00	12.00	0.00
12,225.0	20.80	359.56	12,195.0	-534.9	303.8	-524.2	12.00	12.00	0.00
12,250.0	23.80	359.56	12,218.2	-525.4	303.7	-514.8	12.00	12.00	0.00
12,275.0	26.80	359.56	12,240.8	-514.7	303.6	-504.1	12.00	12.00	0.00
12,300.0	29.80	359.56	12,262.8	-502.9	303.5	-492.3	12.00	12.00	0.00
12,325.0	32.80	359.56	12,284.1	-489.9	303.4	-479.3	12.00	12.00	0.00
12,350.0	35.80	359.56	12,304.8	-475.8	303.3	-465.2	12.00	12.00	0.00
12,375.0	38.80	359.56	12,324.7	-460.7	303.2	-450.1	12.00	12.00	0.00
12,400.0	41.80	359.56	12,343.7	-444.5	303.1	-433.9	12.00	12.00	0.00
12,425.0	44.80	359.56	12,361.9	-427.3	302.9	-416.8	12.00	12.00	0.00
12,450.0	47.80	359.56	12,379.2	-409.3	302.8	-398.7	12.00	12.00	0.00
FTP (Diamond 31 Fed Com #702H)									
12,475.0	50.80	359.56	12,395.5	-390.3	302.7	-379.8	12.00	12.00	0.00
12,500.0	53.80	359.56	12,410.8	-370.5	302.5	-360.0	12.00	12.00	0.00
12,525.0	56.80	359.56	12,425.0	-350.0	302.4	-339.5	12.00	12.00	0.00
12,550.0	59.80	359.56	12,438.2	-328.7	302.2	-318.3	12.00	12.00	0.00
12,575.0	62.80	359.56	12,450.2	-306.8	302.0	-296.4	12.00	12.00	0.00
12,600.0	65.80	359.56	12,461.0	-284.3	301.9	-273.9	12.00	12.00	0.00
12,625.0	68.80	359.56	12,470.6	-261.2	301.7	-250.8	12.00	12.00	0.00
12,650.0	71.80	359.56	12,479.1	-237.7	301.5	-227.3	12.00	12.00	0.00
12,675.0	74.80	359.56	12,486.3	-213.7	301.3	-203.4	12.00	12.00	0.00
12,700.0	77.80	359.56	12,492.2	-189.5	301.1	-179.1	12.00	12.00	0.00
12,725.0	80.80	359.56	12,496.8	-164.9	301.0	-154.6	12.00	12.00	0.00
12,750.0	83.80	359.56	12,500.2	-140.1	300.8	-129.8	12.00	12.00	0.00
12,775.0	86.80	359.56	12,502.2	-115.2	300.6	-104.9	12.00	12.00	0.00
12,801.7	90.00	359.56	12,503.0	-88.6	300.4	-78.3	12.00	12.00	0.00
12,900.0	90.00	359.56	12,503.0	9.8	299.6	19.9	0.00	0.00	0.00
13,000.0	90.00	359.56	12,503.0	109.8	298.9	119.9	0.00	0.00	0.00
13,100.0	90.00	359.56	12,503.0	209.8	298.1	219.8	0.00	0.00	0.00

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Wellbore: OH
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Local Co-ordinate Reference: Well #702H
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)
13,200.0	90.00	359.56	12,503.0	309.8	297.3	319.7	0.00	0.00	0.00
13,300.0	90.00	359.56	12,503.0	409.8	296.6	419.6	0.00	0.00	0.00
13,400.0	90.00	359.56	12,503.0	509.7	295.8	519.5	0.00	0.00	0.00
13,500.0	90.00	359.56	12,503.0	609.7	295.1	619.4	0.00	0.00	0.00
13,600.0	90.00	359.56	12,503.0	709.7	294.3	719.3	0.00	0.00	0.00
13,700.0	90.00	359.56	12,503.0	809.7	293.5	819.3	0.00	0.00	0.00
13,800.0	90.00	359.56	12,503.0	909.7	292.8	919.2	0.00	0.00	0.00
13,900.0	90.00	359.56	12,503.0	1,009.7	292.0	1,019.1	0.00	0.00	0.00
14,000.0	90.00	359.56	12,503.0	1,109.7	291.3	1,119.0	0.00	0.00	0.00
14,100.0	90.00	359.56	12,503.0	1,209.7	290.5	1,218.9	0.00	0.00	0.00
14,200.0	90.00	359.56	12,503.0	1,309.7	289.7	1,318.8	0.00	0.00	0.00
14,300.0	90.00	359.56	12,503.0	1,409.7	289.0	1,418.7	0.00	0.00	0.00
14,400.0	90.00	359.56	12,503.0	1,509.7	288.2	1,518.7	0.00	0.00	0.00
14,500.0	90.00	359.56	12,503.0	1,609.7	287.5	1,618.6	0.00	0.00	0.00
14,600.0	90.00	359.56	12,503.0	1,709.7	286.7	1,718.5	0.00	0.00	0.00
14,700.0	90.00	359.56	12,503.0	1,809.7	285.9	1,818.4	0.00	0.00	0.00
14,800.0	90.00	359.56	12,503.0	1,909.7	285.2	1,918.3	0.00	0.00	0.00
14,900.0	90.00	359.56	12,503.0	2,009.7	284.4	2,018.2	0.00	0.00	0.00
15,000.0	90.00	359.56	12,503.0	2,109.7	283.7	2,118.1	0.00	0.00	0.00
15,100.0	90.00	359.56	12,503.0	2,209.7	282.9	2,218.0	0.00	0.00	0.00
15,200.0	90.00	359.56	12,503.0	2,309.7	282.1	2,318.0	0.00	0.00	0.00
15,300.0	90.00	359.56	12,503.0	2,409.7	281.4	2,417.9	0.00	0.00	0.00
15,400.0	90.00	359.56	12,503.0	2,509.7	280.6	2,517.8	0.00	0.00	0.00
15,500.0	90.00	359.56	12,503.0	2,609.7	279.9	2,617.7	0.00	0.00	0.00
15,600.0	90.00	359.56	12,503.0	2,709.7	279.1	2,717.6	0.00	0.00	0.00
15,700.0	90.00	359.56	12,503.0	2,809.7	278.4	2,817.5	0.00	0.00	0.00
15,800.0	90.00	359.56	12,503.0	2,909.7	277.6	2,917.4	0.00	0.00	0.00
15,900.0	90.00	359.56	12,503.0	3,009.7	276.8	3,017.4	0.00	0.00	0.00
16,000.0	90.00	359.56	12,503.0	3,109.7	276.1	3,117.3	0.00	0.00	0.00
16,100.0	90.00	359.56	12,503.0	3,209.7	275.3	3,217.2	0.00	0.00	0.00
16,200.0	90.00	359.56	12,503.0	3,309.7	274.6	3,317.1	0.00	0.00	0.00
16,300.0	90.00	359.56	12,503.0	3,409.7	273.8	3,417.0	0.00	0.00	0.00
16,400.0	90.00	359.56	12,503.0	3,509.7	273.0	3,516.9	0.00	0.00	0.00
16,500.0	90.00	359.56	12,503.0	3,609.7	272.3	3,616.8	0.00	0.00	0.00
16,600.0	90.00	359.56	12,503.0	3,709.7	271.5	3,716.7	0.00	0.00	0.00
16,700.0	90.00	359.56	12,503.0	3,809.7	270.8	3,816.7	0.00	0.00	0.00
16,800.0	90.00	359.56	12,503.0	3,909.7	270.0	3,916.6	0.00	0.00	0.00
16,900.0	90.00	359.56	12,503.0	4,009.6	269.2	4,016.5	0.00	0.00	0.00
17,000.0	90.00	359.56	12,503.0	4,109.6	268.5	4,116.4	0.00	0.00	0.00
17,100.0	90.00	359.56	12,503.0	4,209.6	267.7	4,216.3	0.00	0.00	0.00
17,200.0	90.00	359.56	12,503.0	4,309.6	267.0	4,316.2	0.00	0.00	0.00
17,300.0	90.00	359.56	12,503.0	4,409.6	266.2	4,416.1	0.00	0.00	0.00
17,400.0	90.00	359.56	12,503.0	4,509.6	265.4	4,516.1	0.00	0.00	0.00
17,500.0	90.00	359.56	12,503.0	4,609.6	264.7	4,616.0	0.00	0.00	0.00
17,600.0	90.00	359.56	12,503.0	4,709.6	263.9	4,715.9	0.00	0.00	0.00
17,700.0	90.00	359.56	12,503.0	4,809.6	263.2	4,815.8	0.00	0.00	0.00
17,800.0	90.00	359.56	12,503.0	4,909.6	262.4	4,915.7	0.00	0.00	0.00
17,900.0	90.00	359.56	12,503.0	5,009.6	261.6	5,015.6	0.00	0.00	0.00
18,000.0	90.00	359.56	12,503.0	5,109.6	260.9	5,115.5	0.00	0.00	0.00
18,100.0	90.00	359.56	12,503.0	5,209.6	260.1	5,215.4	0.00	0.00	0.00
18,200.0	90.00	359.56	12,503.0	5,309.6	259.4	5,315.4	0.00	0.00	0.00
18,300.0	90.00	359.56	12,503.0	5,409.6	258.6	5,415.3	0.00	0.00	0.00
18,400.0	90.00	359.56	12,503.0	5,509.6	257.8	5,515.2	0.00	0.00	0.00
18,500.0	90.00	359.56	12,503.0	5,609.6	257.1	5,615.1	0.00	0.00	0.00

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Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
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)
18,600.0	90.00	359.56	12,503.0	5,709.6	256.3	5,715.0	0.00	0.00	0.00
18,700.0	90.00	359.56	12,503.0	5,809.6	255.6	5,814.9	0.00	0.00	0.00
18,800.0	90.00	359.56	12,503.0	5,909.6	254.8	5,914.8	0.00	0.00	0.00
18,900.0	90.00	359.56	12,503.0	6,009.6	254.0	6,014.8	0.00	0.00	0.00
19,000.0	90.00	359.56	12,503.0	6,109.6	253.3	6,114.7	0.00	0.00	0.00
19,100.0	90.00	359.56	12,503.0	6,209.6	252.5	6,214.6	0.00	0.00	0.00
19,200.0	90.00	359.56	12,503.0	6,309.6	251.8	6,314.5	0.00	0.00	0.00
19,300.0	90.00	359.56	12,503.0	6,409.6	251.0	6,414.4	0.00	0.00	0.00
19,400.0	90.00	359.56	12,503.0	6,509.6	250.2	6,514.3	0.00	0.00	0.00
19,500.0	90.00	359.56	12,503.0	6,609.6	249.5	6,614.2	0.00	0.00	0.00
19,600.0	90.00	359.56	12,503.0	6,709.6	248.7	6,714.1	0.00	0.00	0.00
19,700.0	90.00	359.56	12,503.0	6,809.6	248.0	6,814.1	0.00	0.00	0.00
19,800.0	90.00	359.56	12,503.0	6,909.6	247.2	6,914.0	0.00	0.00	0.00
19,900.0	90.00	359.56	12,503.0	7,009.6	246.4	7,013.9	0.00	0.00	0.00
20,000.0	90.00	359.56	12,503.0	7,109.6	245.7	7,113.8	0.00	0.00	0.00
20,089.4	90.00	359.56	12,503.0	7,199.0	245.0	7,203.2	0.00	0.00	0.00
PBHL (Diamond 31 Fed Com #702H)									

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 - plan hits target center - Point	0.00	0.00	12,025.5	-566.0	304.0	425,430.00	794,739.00	32° 10' 0.965 N		103° 30' 51.849 W
FTP (Diamond 31 Fed C - plan misses target center by 163.5usft at 12450.0usft MD (12379.2 TVD, -409.3 N, 302.8 E) - Point	0.00	0.00	12,503.0	-516.0	304.0	425,480.00	794,739.00	32° 10' 1.460 N		103° 30' 51.845 W
PBHL (Diamond 31 Fed - plan hits target center - Point	0.00	0.01	12,503.0	7,199.0	245.0	433,195.00	794,680.00	32° 11' 17.805 N		103° 30' 51.848 W