

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 back**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NNNM023306
2. Name of Operator EOG RESOURCES INCORPORATED		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-686-3689		8. Well Name and No. DIAMOND 31 FED COM 705H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T24S R34E SESW 731FSL 1478FWL 32.168804 N Lat, 103.512726 W Lon		9. API Well No. 30-025-44761-00-X1
		10. Field and Pool or Exploratory Area WC025G09S243336I-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 recompleat 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 BHL and a 4-string casing design as attached.

Carlsbad Field Office
OCD Hobbs*REQUIRES NSL
SIDE LESS THAN 370**All previous COAs still apply.*

14. I hereby certify that the foregoing is true and correct. Electronic Submission #421519 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 05/30/2018 (18PP1130SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/25/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>ZOTA STEVENS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/01/2018</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 Hobbs

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 *****KZ*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44761	² Pool Code 98092	³ Pool Name WC-025 G-09 S243336I; Upper Wolfcamp
⁴ Property Code 4050	⁵ Property Name DIAMOND 31 FED COM	⁶ Well Number #705H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3457'

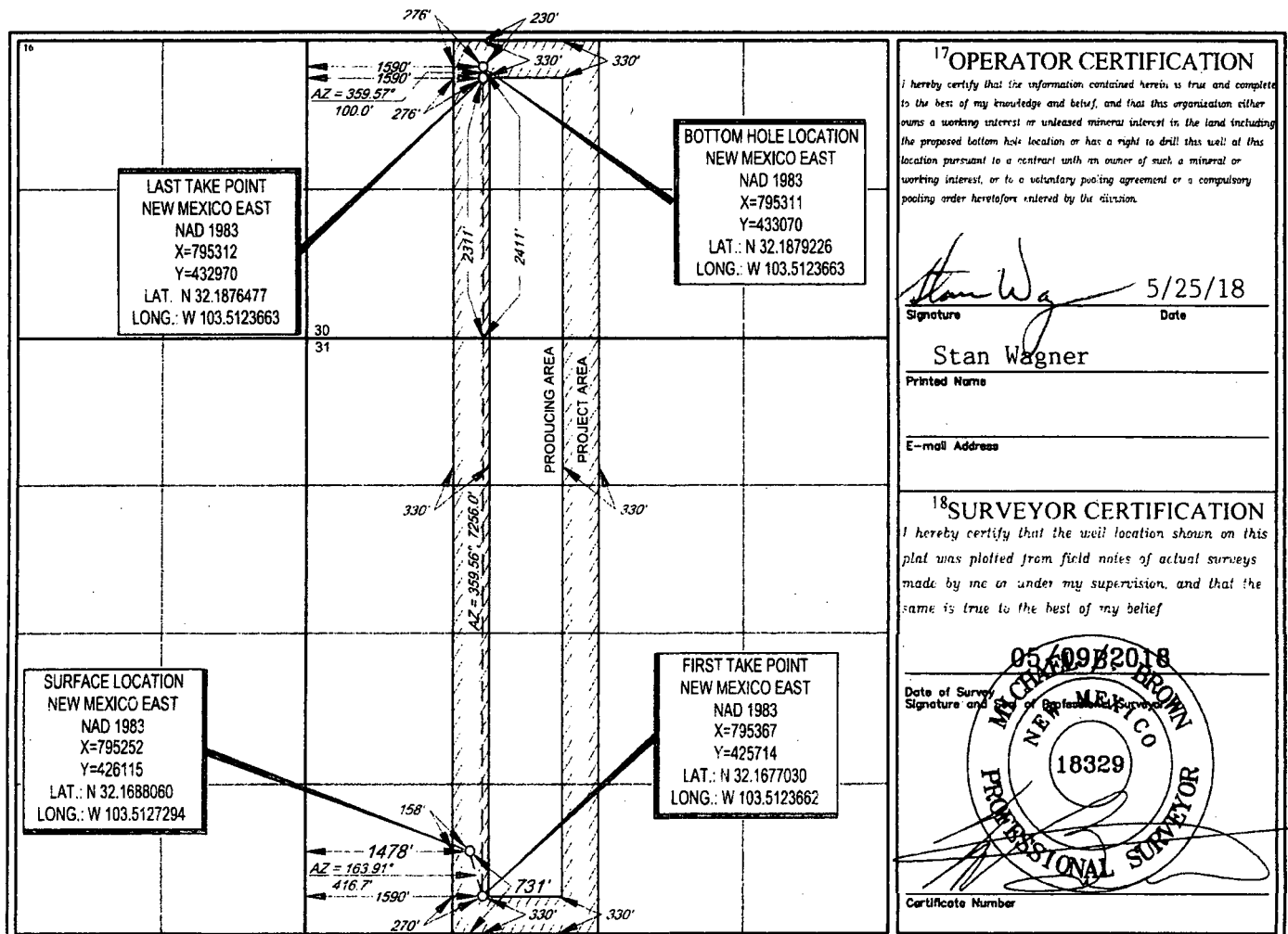
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	31	24-S	34-E	-	731'	SOUTH	1478'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	24-S	34-E	-	2411'	SOUTH	1590'	WEST	LEA

¹² Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

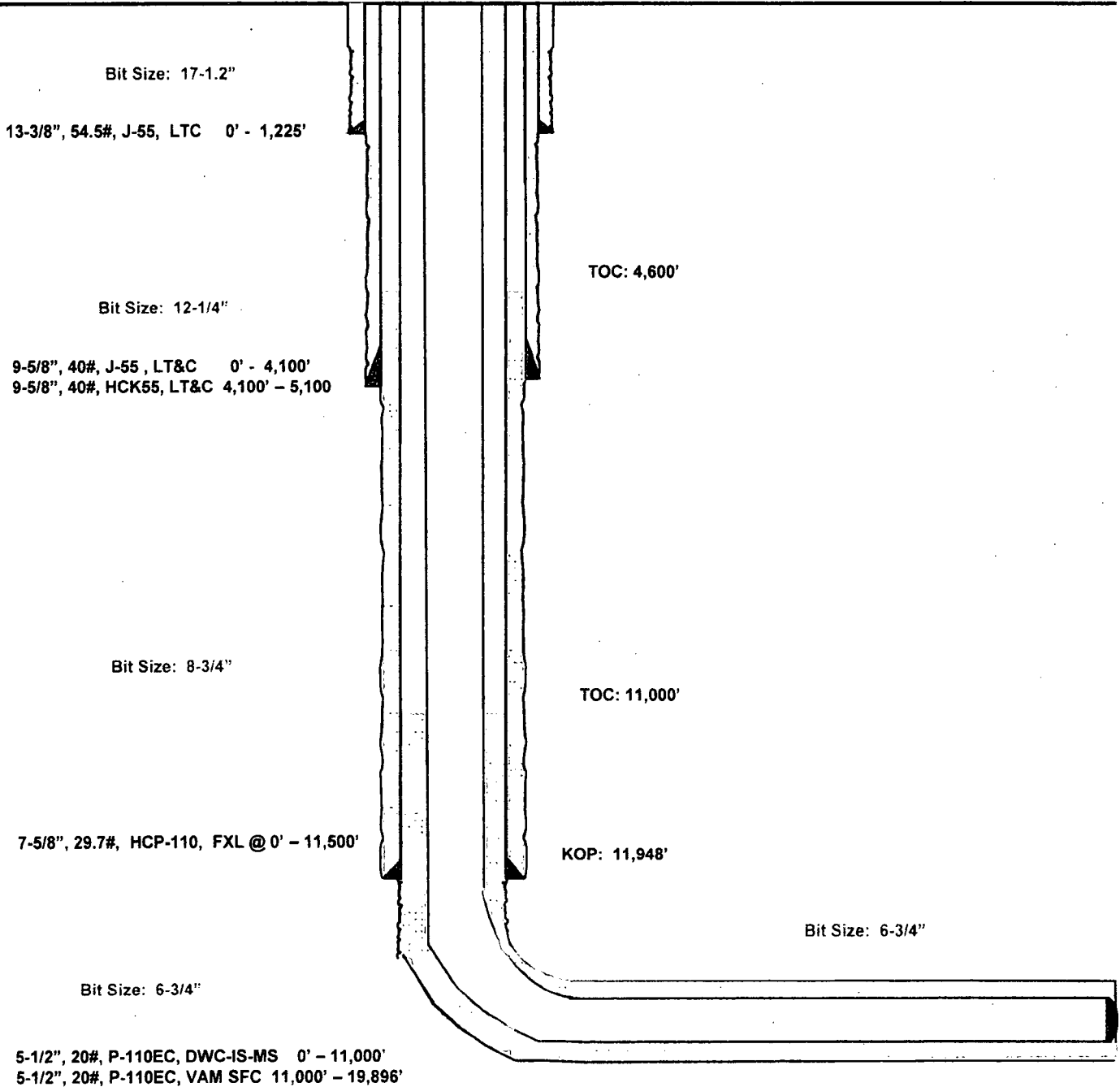


Diamond 31 Fed Com #705H

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

**Lea County, New Mexico
Proposed Wellbore
Revised 5/24/18
API: 30-025-44761**

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



**Lateral: 19,896' MD, 12,437' TVD
Upper Most Perf:
330' FSL & 1590' FWL Sec. 31
Lower Most Perf:
2311' FSL & 1590' FWL Sec. 30
BH Location: 2411' FSL & 1590' FWL
Section 30
T-24-S, R-34-E**

Revised Permit Information 5/24/18:

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: 2411' FSL & 1590' 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' - 19,896'	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
19,896'	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' – 19,896' Lateral	Oil Base	10.0-11.5	58-68	3 - 6



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 = 28' @ 3482.0 uft
Northing 426115.00 Easting 795262.00 Latitude 32° 10' 7.704 N Longitude 103° 30' 45.821 W

SECTION DETAILS

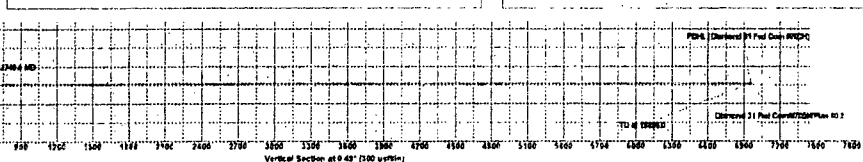
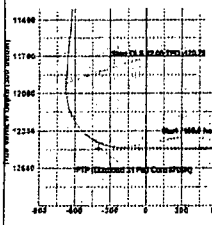
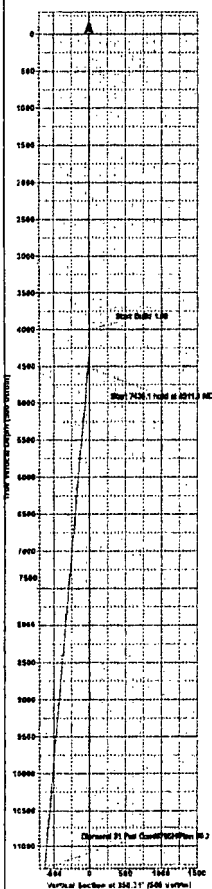
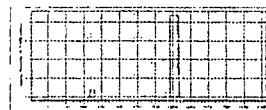
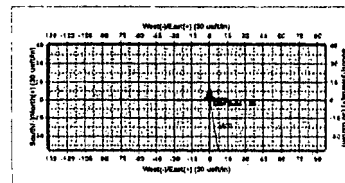
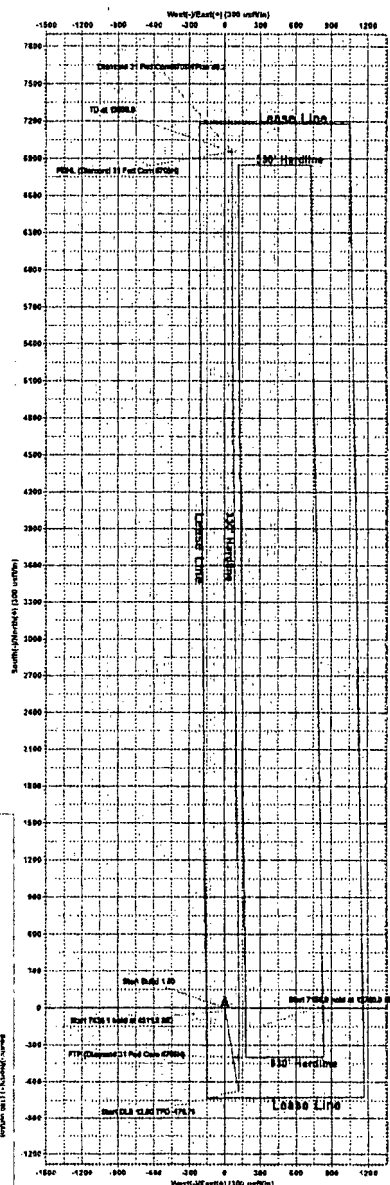
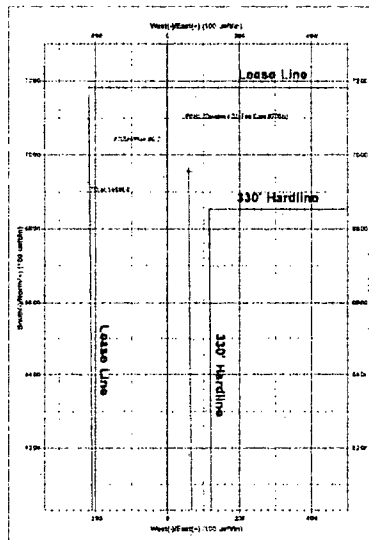
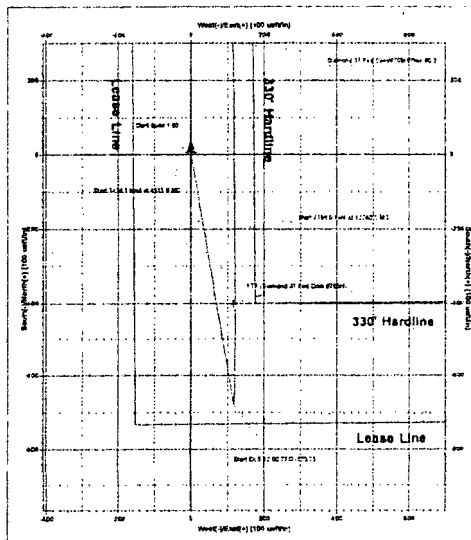
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.00	0.00	0.00	0.0	
3	4511.8	5.12	170.31	4511.1	-22.5	3.8	1.00	170.31	-22.5	
4	11947.9	5.12	170.31	11917.5	-678.4	115.5	0.00	0.00	-675.4	
5	12740.0	90.00	359.52	12437.0	-200.7	118.9	12.00	-170.75	-199.7	
6	19896.0	90.00	359.52	12437.0	6955.0	59.0	0.00	0.00	6955.3	PBHL (Diamond 31 Fed Com #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Diamond 31 Fed Com #705H)	12437.0	-401.0	116.0	426714.00	795387.00
PBHL (Diamond 31 Fed Com #705H)	12437.0	6955.0	59.0	433076.00	795311.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#705H

OH

Plan: Plan #0.2

Standard Planning Report

24 May, 2018



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

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

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/29/2017	6.90
			Dip Angle
			60.02
			Field Strength
			47,890.72705556

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
			0.49

Plan Survey Tool Program	Date 5/24/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	19,896.0 Plan #0.2 (OH)	MWD
			OWSG MWD - Standard

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	
4,511.8	5.12	170.31	4,511.1	-22.5	3.8	1.00	1.00	0.00	170.31	
11,947.9	5.12	170.31	11,917.5	-676.4	115.5	0.00	0.00	0.00	0.00	
12,740.0	90.00	359.52	12,437.0	-200.7	118.9	12.00	10.72	-21.56	-170.75	
19,896.0	90.00	359.52	12,437.0	6,955.0	59.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 F)



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)
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	1.00	170.31	4,100.0	-0.9	0.1	-0.9	1.00	1.00	0.00
4,200.0	2.00	170.31	4,200.0	-3.4	0.6	-3.4	1.00	1.00	0.00
4,300.0	3.00	170.31	4,299.9	-7.7	1.3	-7.7	1.00	1.00	0.00
4,400.0	4.00	170.31	4,399.7	-13.8	2.3	-13.7	1.00	1.00	0.00
4,500.0	5.00	170.31	4,499.4	-21.5	3.7	-21.5	1.00	1.00	0.00
4,511.8	5.12	170.31	4,511.1	-22.5	3.8	-22.5	1.00	1.00	0.00
4,600.0	5.12	170.31	4,599.0	-30.3	5.2	-30.2	0.00	0.00	0.00
4,700.0	5.12	170.31	4,698.6	-39.1	6.7	-39.0	0.00	0.00	0.00
4,800.0	5.12	170.31	4,798.2	-47.9	8.2	-47.8	0.00	0.00	0.00
4,900.0	5.12	170.31	4,897.8	-56.7	9.7	-56.6	0.00	0.00	0.00
5,000.0	5.12	170.31	4,997.4	-65.4	11.2	-65.3	0.00	0.00	0.00
5,100.0	5.12	170.31	5,097.0	-74.2	12.7	-74.1	0.00	0.00	0.00
5,200.0	5.12	170.31	5,196.6	-83.0	14.2	-82.9	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)
5,300.0	5.12	170.31	5,296.2	-91.8	15.7	-91.7	0.00	0.00	0.00
5,400.0	5.12	170.31	5,395.8	-100.6	17.2	-100.5	0.00	0.00	0.00
5,500.0	5.12	170.31	5,495.4	-109.4	18.7	-109.3	0.00	0.00	0.00
5,600.0	5.12	170.31	5,595.0	-118.2	20.2	-118.0	0.00	0.00	0.00
5,700.0	5.12	170.31	5,694.6	-127.0	21.7	-126.8	0.00	0.00	0.00
5,800.0	5.12	170.31	5,794.2	-135.8	23.2	-135.6	0.00	0.00	0.00
5,900.0	5.12	170.31	5,893.8	-144.6	24.7	-144.4	0.00	0.00	0.00
6,000.0	5.12	170.31	5,993.4	-153.4	26.2	-153.2	0.00	0.00	0.00
6,100.0	5.12	170.31	6,093.0	-162.2	27.7	-161.9	0.00	0.00	0.00
6,200.0	5.12	170.31	6,192.6	-171.0	29.2	-170.7	0.00	0.00	0.00
6,300.0	5.12	170.31	6,292.2	-179.8	30.7	-179.5	0.00	0.00	0.00
6,400.0	5.12	170.31	6,391.8	-188.6	32.2	-188.3	0.00	0.00	0.00
6,500.0	5.12	170.31	6,491.4	-197.3	33.7	-197.1	0.00	0.00	0.00
6,600.0	5.12	170.31	6,591.0	-206.1	35.2	-205.8	0.00	0.00	0.00
6,700.0	5.12	170.31	6,690.6	-214.9	36.7	-214.6	0.00	0.00	0.00
6,800.0	5.12	170.31	6,790.2	-223.7	38.2	-223.4	0.00	0.00	0.00
6,900.0	5.12	170.31	6,889.8	-232.5	39.7	-232.2	0.00	0.00	0.00
7,000.0	5.12	170.31	6,989.4	-241.3	41.2	-241.0	0.00	0.00	0.00
7,100.0	5.12	170.31	7,089.0	-250.1	42.7	-249.7	0.00	0.00	0.00
7,200.0	5.12	170.31	7,188.6	-258.9	44.2	-258.5	0.00	0.00	0.00
7,300.0	5.12	170.31	7,288.2	-267.7	45.7	-267.3	0.00	0.00	0.00
7,400.0	5.12	170.31	7,387.8	-276.5	47.2	-276.1	0.00	0.00	0.00
7,500.0	5.12	170.31	7,487.4	-285.3	48.7	-284.9	0.00	0.00	0.00
7,600.0	5.12	170.31	7,587.0	-294.1	50.2	-293.6	0.00	0.00	0.00
7,700.0	5.12	170.31	7,686.6	-302.9	51.7	-302.4	0.00	0.00	0.00
7,800.0	5.12	170.31	7,786.2	-311.7	53.2	-311.2	0.00	0.00	0.00
7,900.0	5.12	170.31	7,885.8	-320.5	54.7	-320.0	0.00	0.00	0.00
8,000.0	5.12	170.31	7,985.4	-329.3	56.2	-328.8	0.00	0.00	0.00
8,100.0	5.12	170.31	8,085.0	-338.0	57.7	-337.5	0.00	0.00	0.00
8,200.0	5.12	170.31	8,184.6	-346.8	59.2	-346.3	0.00	0.00	0.00
8,300.0	5.12	170.31	8,284.2	-355.6	60.7	-355.1	0.00	0.00	0.00
8,400.0	5.12	170.31	8,383.8	-364.4	62.2	-363.9	0.00	0.00	0.00
8,500.0	5.12	170.31	8,483.4	-373.2	63.7	-372.7	0.00	0.00	0.00
8,600.0	5.12	170.31	8,583.0	-382.0	65.2	-381.4	0.00	0.00	0.00
8,700.0	5.12	170.31	8,682.6	-390.8	66.7	-390.2	0.00	0.00	0.00
8,800.0	5.12	170.31	8,782.2	-399.6	68.2	-399.0	0.00	0.00	0.00
8,900.0	5.12	170.31	8,881.8	-408.4	69.7	-407.8	0.00	0.00	0.00
9,000.0	5.12	170.31	8,981.4	-417.2	71.2	-416.6	0.00	0.00	0.00
9,100.0	5.12	170.31	9,081.0	-426.0	72.7	-425.3	0.00	0.00	0.00
9,200.0	5.12	170.31	9,180.6	-434.8	74.2	-434.1	0.00	0.00	0.00
9,300.0	5.12	170.31	9,280.2	-443.6	75.7	-442.9	0.00	0.00	0.00
9,400.0	5.12	170.31	9,379.8	-452.4	77.2	-451.7	0.00	0.00	0.00
9,500.0	5.12	170.31	9,479.4	-461.2	78.7	-460.5	0.00	0.00	0.00
9,600.0	5.12	170.31	9,579.0	-469.9	80.2	-469.2	0.00	0.00	0.00
9,700.0	5.12	170.31	9,678.6	-478.7	81.7	-478.0	0.00	0.00	0.00
9,800.0	5.12	170.31	9,778.2	-487.5	83.2	-486.8	0.00	0.00	0.00
9,900.0	5.12	170.31	9,877.8	-496.3	84.7	-495.6	0.00	0.00	0.00
10,000.0	5.12	170.31	9,977.4	-505.1	86.2	-504.4	0.00	0.00	0.00
10,100.0	5.12	170.31	10,077.0	-513.9	87.7	-513.2	0.00	0.00	0.00
10,200.0	5.12	170.31	10,176.6	-522.7	89.2	-521.9	0.00	0.00	0.00
10,300.0	5.12	170.31	10,276.2	-531.5	90.7	-530.7	0.00	0.00	0.00
10,400.0	5.12	170.31	10,375.8	-540.3	92.2	-539.5	0.00	0.00	0.00
10,500.0	5.12	170.31	10,475.4	-549.1	93.8	-548.3	0.00	0.00	0.00
10,600.0	5.12	170.31	10,575.0	-557.9	95.3	-557.1	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
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 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)
10,700.0	5.12	170.31	10,674.6	-566.7	96.8	-565.8	0.00	0.00	0.00
10,800.0	5.12	170.31	10,774.2	-575.5	98.3	-574.6	0.00	0.00	0.00
10,900.0	5.12	170.31	10,873.9	-584.3	99.8	-583.4	0.00	0.00	0.00
11,000.0	5.12	170.31	10,973.5	-593.1	101.3	-592.2	0.00	0.00	0.00
11,100.0	5.12	170.31	11,073.1	-601.8	102.8	-601.0	0.00	0.00	0.00
11,200.0	5.12	170.31	11,172.7	-610.6	104.3	-609.7	0.00	0.00	0.00
11,300.0	5.12	170.31	11,272.3	-619.4	105.8	-618.5	0.00	0.00	0.00
11,400.0	5.12	170.31	11,371.9	-628.2	107.3	-627.3	0.00	0.00	0.00
11,500.0	5.12	170.31	11,471.5	-637.0	108.8	-636.1	0.00	0.00	0.00
11,600.0	5.12	170.31	11,571.1	-645.8	110.3	-644.9	0.00	0.00	0.00
11,700.0	5.12	170.31	11,670.7	-654.6	111.8	-653.6	0.00	0.00	0.00
11,800.0	5.12	170.31	11,770.3	-663.4	113.3	-662.4	0.00	0.00	0.00
11,900.0	5.12	170.31	11,869.9	-672.2	114.8	-671.2	0.00	0.00	0.00
11,947.9	5.12	170.31	11,917.5	-676.4	115.5	-675.4	0.00	0.00	0.00
11,950.0	4.87	169.83	11,919.7	-676.6	115.5	-675.6	12.00	-11.84	-22.73
11,975.0	1.98	154.96	11,944.6	-678.0	115.9	-677.0	12.00	-11.56	-59.46
12,000.0	1.46	33.82	11,969.6	-678.1	116.2	-677.1	12.00	-2.07	-484.56
12,025.0	4.28	10.55	11,994.6	-677.0	116.6	-676.0	12.00	11.30	-93.07
12,050.0	7.25	5.99	12,019.4	-674.5	116.9	-673.5	12.00	11.87	-18.26
12,075.0	10.24	4.07	12,044.2	-670.7	117.3	-669.7	12.00	11.94	-7.67
12,100.0	13.23	3.02	12,068.6	-665.6	117.6	-664.6	12.00	11.97	-4.23
12,125.0	16.22	2.34	12,092.8	-659.3	117.9	-658.2	12.00	11.98	-2.69
12,150.0	19.22	1.88	12,116.6	-651.7	118.1	-650.6	12.00	11.99	-1.87
12,175.0	22.22	1.53	12,140.0	-642.8	118.4	-641.8	12.00	11.99	-1.38
12,200.0	25.22	1.26	12,162.9	-632.8	118.6	-631.7	12.00	11.99	-1.07
12,225.0	28.21	1.05	12,185.2	-621.5	118.9	-620.5	12.00	11.99	-0.85
12,250.0	31.21	0.88	12,206.9	-609.2	119.1	-608.1	12.00	11.99	-0.70
12,275.0	34.21	0.73	12,228.0	-595.6	119.3	-594.6	12.00	12.00	-0.59
12,300.0	37.21	0.60	12,248.3	-581.1	119.4	-580.0	12.00	12.00	-0.51
12,325.0	40.21	0.49	12,267.8	-565.4	119.6	-564.4	12.00	12.00	-0.44
12,350.0	43.21	0.39	12,286.4	-548.8	119.7	-547.8	12.00	12.00	-0.39
12,375.0	46.21	0.31	12,304.2	-531.2	119.8	-530.2	12.00	12.00	-0.35
12,400.0	49.21	0.23	12,321.0	-512.7	119.9	-511.7	12.00	12.00	-0.31
12,425.0	52.21	0.16	12,336.8	-493.4	120.0	-492.3	12.00	12.00	-0.29
12,450.0	55.21	0.09	12,351.6	-473.2	120.0	-472.2	12.00	12.00	-0.26
12,475.0	58.21	0.03	12,365.4	-452.3	120.0	-451.3	12.00	12.00	-0.25
12,500.0	61.21	359.97	12,378.0	-430.7	120.0	-429.7	12.00	12.00	-0.23
12,525.0	64.21	359.92	12,389.4	-408.5	120.0	-407.5	12.00	12.00	-0.22
12,550.0	67.21	359.87	12,399.7	-385.7	120.0	-384.7	12.00	12.00	-0.21
FTP (Diamond 31 Fed Com #705H)									
12,575.0	70.21	359.82	12,408.8	-362.5	119.9	-361.4	12.00	12.00	-0.20
12,600.0	73.21	359.77	12,416.6	-338.7	119.8	-337.7	12.00	12.00	-0.19
12,625.0	76.21	359.72	12,423.2	-314.6	119.7	-313.6	12.00	12.00	-0.18
12,650.0	79.20	359.68	12,428.5	-290.2	119.6	-289.2	12.00	12.00	-0.18
12,675.0	82.20	359.63	12,432.6	-265.5	119.4	-264.5	12.00	12.00	-0.18
12,700.0	85.20	359.59	12,435.3	-240.7	119.3	-239.7	12.00	12.00	-0.17
12,725.0	88.20	359.55	12,436.8	-215.7	119.1	-214.7	12.00	12.00	-0.17
12,740.0	90.00	359.52	12,437.0	-200.7	118.9	-199.7	12.00	12.00	-0.17
12,800.0	90.00	359.52	12,437.0	-140.7	118.4	-139.7	0.00	0.00	0.00
12,900.0	90.00	359.52	12,437.0	-40.7	117.6	-39.7	0.00	0.00	0.00
13,000.0	90.00	359.52	12,437.0	59.3	116.8	60.3	0.00	0.00	0.00
13,100.0	90.00	359.52	12,437.0	159.3	115.9	160.2	0.00	0.00	0.00
13,200.0	90.00	359.52	12,437.0	259.3	115.1	260.2	0.00	0.00	0.00



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13,300.0	90.00	359.52	12,437.0	359.3	114.3	360.2	0.00	0.00	0.00
13,400.0	90.00	359.52	12,437.0	459.3	113.4	460.2	0.00	0.00	0.00
13,500.0	90.00	359.52	12,437.0	559.3	112.6	560.2	0.00	0.00	0.00
13,600.0	90.00	359.52	12,437.0	659.3	111.7	660.2	0.00	0.00	0.00
13,700.0	90.00	359.52	12,437.0	759.2	110.9	760.2	0.00	0.00	0.00
13,800.0	90.00	359.52	12,437.0	859.2	110.1	860.1	0.00	0.00	0.00
13,900.0	90.00	359.52	12,437.0	959.2	109.2	960.1	0.00	0.00	0.00
14,000.0	90.00	359.52	12,437.0	1,059.2	108.4	1,060.1	0.00	0.00	0.00
14,100.0	90.00	359.52	12,437.0	1,159.2	107.6	1,160.1	0.00	0.00	0.00
14,200.0	90.00	359.52	12,437.0	1,259.2	106.7	1,260.1	0.00	0.00	0.00
14,300.0	90.00	359.52	12,437.0	1,359.2	105.9	1,360.1	0.00	0.00	0.00
14,400.0	90.00	359.52	12,437.0	1,459.2	105.0	1,460.1	0.00	0.00	0.00
14,500.0	90.00	359.52	12,437.0	1,559.2	104.2	1,560.0	0.00	0.00	0.00
14,600.0	90.00	359.52	12,437.0	1,659.2	103.4	1,660.0	0.00	0.00	0.00
14,700.0	90.00	359.52	12,437.0	1,759.2	102.5	1,760.0	0.00	0.00	0.00
14,800.0	90.00	359.52	12,437.0	1,859.2	101.7	1,860.0	0.00	0.00	0.00
14,900.0	90.00	359.52	12,437.0	1,959.2	100.9	1,960.0	0.00	0.00	0.00
15,000.0	90.00	359.52	12,437.0	2,059.2	100.0	2,060.0	0.00	0.00	0.00
15,100.0	90.00	359.52	12,437.0	2,159.2	99.2	2,160.0	0.00	0.00	0.00
15,200.0	90.00	359.52	12,437.0	2,259.2	98.3	2,259.9	0.00	0.00	0.00
15,300.0	90.00	359.52	12,437.0	2,359.2	97.5	2,359.9	0.00	0.00	0.00
15,400.0	90.00	359.52	12,437.0	2,459.2	96.7	2,459.9	0.00	0.00	0.00
15,500.0	90.00	359.52	12,437.0	2,559.2	95.8	2,559.9	0.00	0.00	0.00
15,600.0	90.00	359.52	12,437.0	2,659.2	95.0	2,659.9	0.00	0.00	0.00
15,700.0	90.00	359.52	12,437.0	2,759.2	94.2	2,759.9	0.00	0.00	0.00
15,800.0	90.00	359.52	12,437.0	2,859.2	93.3	2,859.9	0.00	0.00	0.00
15,900.0	90.00	359.52	12,437.0	2,959.2	92.5	2,959.8	0.00	0.00	0.00
16,000.0	90.00	359.52	12,437.0	3,059.2	91.6	3,059.8	0.00	0.00	0.00
16,100.0	90.00	359.52	12,437.0	3,159.2	90.8	3,159.8	0.00	0.00	0.00
16,200.0	90.00	359.52	12,437.0	3,259.2	90.0	3,259.8	0.00	0.00	0.00
16,300.0	90.00	359.52	12,437.0	3,359.2	89.1	3,359.8	0.00	0.00	0.00
16,400.0	90.00	359.52	12,437.0	3,459.2	88.3	3,459.8	0.00	0.00	0.00
16,500.0	90.00	359.52	12,437.0	3,559.1	87.4	3,559.8	0.00	0.00	0.00
16,600.0	90.00	359.52	12,437.0	3,659.1	86.6	3,659.7	0.00	0.00	0.00
16,700.0	90.00	359.52	12,437.0	3,759.1	85.8	3,759.7	0.00	0.00	0.00
16,800.0	90.00	359.52	12,437.0	3,859.1	84.9	3,859.7	0.00	0.00	0.00
16,900.0	90.00	359.52	12,437.0	3,959.1	84.1	3,959.7	0.00	0.00	0.00
17,000.0	90.00	359.52	12,437.0	4,059.1	83.3	4,059.7	0.00	0.00	0.00
17,100.0	90.00	359.52	12,437.0	4,159.1	82.4	4,159.7	0.00	0.00	0.00
17,200.0	90.00	359.52	12,437.0	4,259.1	81.6	4,259.7	0.00	0.00	0.00
17,300.0	90.00	359.52	12,437.0	4,359.1	80.7	4,359.6	0.00	0.00	0.00
17,400.0	90.00	359.52	12,437.0	4,459.1	79.9	4,459.6	0.00	0.00	0.00
17,500.0	90.00	359.52	12,437.0	4,559.1	79.1	4,559.6	0.00	0.00	0.00
17,600.0	90.00	359.52	12,437.0	4,659.1	78.2	4,659.6	0.00	0.00	0.00
17,700.0	90.00	359.52	12,437.0	4,759.1	77.4	4,759.6	0.00	0.00	0.00
17,800.0	90.00	359.52	12,437.0	4,859.1	76.6	4,859.6	0.00	0.00	0.00
17,900.0	90.00	359.52	12,437.0	4,959.1	75.7	4,959.6	0.00	0.00	0.00
18,000.0	90.00	359.52	12,437.0	5,059.1	74.9	5,059.5	0.00	0.00	0.00
18,100.0	90.00	359.52	12,437.0	5,159.1	74.0	5,159.5	0.00	0.00	0.00
18,200.0	90.00	359.52	12,437.0	5,259.1	73.2	5,259.5	0.00	0.00	0.00
18,300.0	90.00	359.52	12,437.0	5,359.1	72.4	5,359.5	0.00	0.00	0.00
18,400.0	90.00	359.52	12,437.0	5,459.1	71.5	5,459.5	0.00	0.00	0.00
18,500.0	90.00	359.52	12,437.0	5,559.1	70.7	5,559.5	0.00	0.00	0.00
18,600.0	90.00	359.52	12,437.0	5,659.1	69.9	5,659.5	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)
18,700.0	90.00	359.52	12,437.0	5,759.1	69.0	5,759.4	0.00	0.00	0.00
18,800.0	90.00	359.52	12,437.0	5,859.1	68.2	5,859.4	0.00	0.00	0.00
18,900.0	90.00	359.52	12,437.0	5,959.1	67.3	5,959.4	0.00	0.00	0.00
19,000.0	90.00	359.52	12,437.0	6,059.1	66.5	6,059.4	0.00	0.00	0.00
19,100.0	90.00	359.52	12,437.0	6,159.1	65.7	6,159.4	0.00	0.00	0.00
19,200.0	90.00	359.52	12,437.0	6,259.1	64.8	6,259.4	0.00	0.00	0.00
19,300.0	90.00	359.52	12,437.0	6,359.1	64.0	6,359.4	0.00	0.00	0.00
19,400.0	90.00	359.52	12,437.0	6,459.0	63.2	6,459.4	0.00	0.00	0.00
19,500.0	90.00	359.52	12,437.0	6,559.0	62.3	6,559.3	0.00	0.00	0.00
19,600.0	90.00	359.52	12,437.0	6,659.0	61.5	6,659.3	0.00	0.00	0.00
19,700.0	90.00	359.52	12,437.0	6,759.0	60.6	6,759.3	0.00	0.00	0.00
19,800.0	90.00	359.52	12,437.0	6,859.0	59.8	6,859.3	0.00	0.00	0.00
19,896.0	90.00	359.52	12,437.0	6,955.0	59.0	6,955.3	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
- hit/miss target									
- Shape									
PBHL (Diamond 31 Fed	0.00	0.00	12,437.0	6,955.0	59.0	433,070.00	795,311.00	32° 11' 16.520 N	103° 30' 44.517 W
- plan hits target center									
- Point									
FTP (Diamond 31 Fed C	0.00	0.00	12,437.0	-401.0	115.0	425,714.00	795,367.00	32° 10' 3.728 N	103° 30' 44.518 W
- plan misses target center by 40.6usft at 12550.0usft MD (12399.7 TVD, -385.7 N, 120.0 E)									
- Point									