

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.*Release Serial No.
1121490**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432.686.3689	8. Well Name and No. COLGROVE 35 FED COM 702H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T26S R33E Lot 4 360FSL 245FWL		9. API Well No. 30-025-42983-00-X1
		10. Field and Pool or Exploratory Area WC025G09S263327G-UP WOLFCAMP
		11. County or Parish, State LEA COUNTY, NM

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

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

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 recomple 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 recomple 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 changes casing design, lateral length, and BHL.

Attached are specific details related to these changes.

- Duplicate sundry, Same as ECH# 370548

14. I hereby certify that the foregoing is true and correct. Electronic Submission #370557 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/06/2017 (17DLM0724SE)	
Name (Printed/Typed) STAN WAGNER	Title AGENT
Signature (Electronic Submission)	Date 03/21/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By RETURNED	MUSTAFA HAQUE Title PETROLEUM ENGINEER	Date 04/10/2017
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 ****

District I
1625 N French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 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 30-025-42983	² Pool Code 98097	³ Pool Name WC-025 G-09 S263327G; Upper Wolfcamp
⁴ Property Code 315730	⁵ Property Name COLGROVE 35 FED COM	⁶ Well Number #702H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3320'

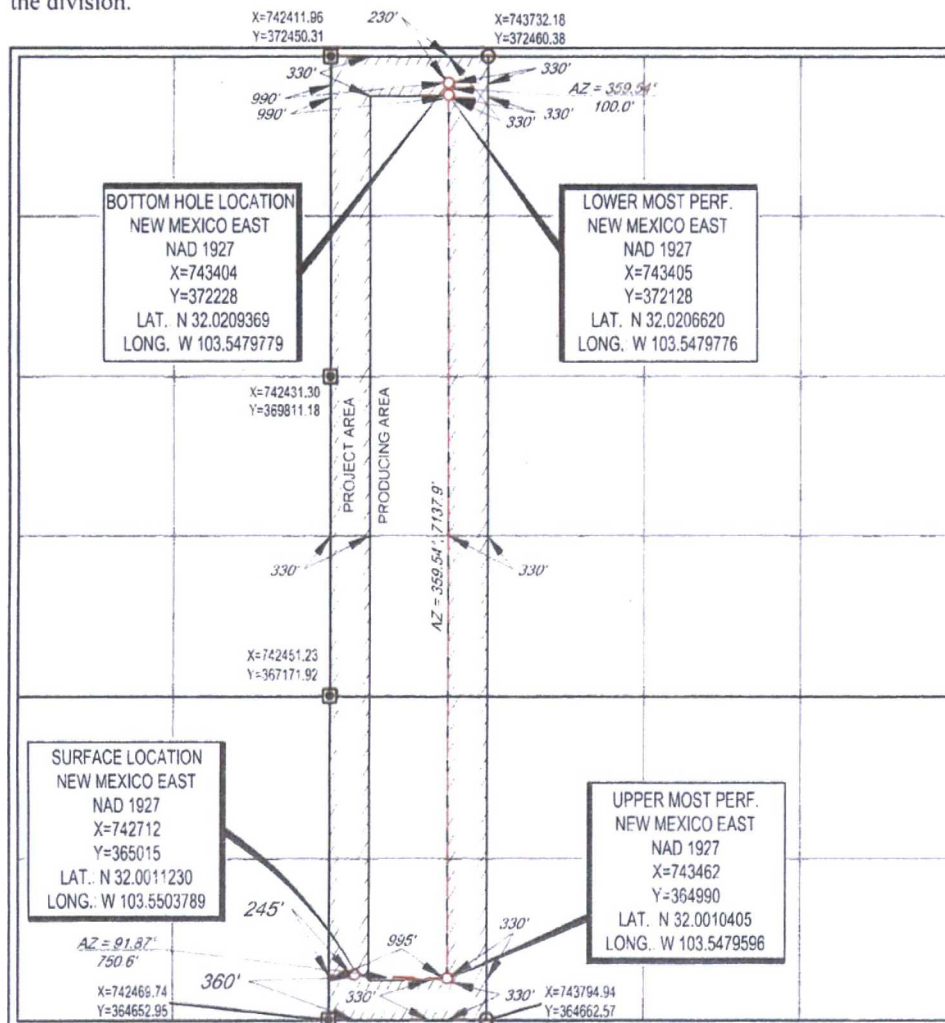
¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	26-S	33-E	-	360'	SOUTH	245'	WEST	LEA

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	26-S	33-E	-	230'	NORTH	990'	WEST	LEA

¹² Dedicated Acres 236.78	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.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 3/21/17
Signature Date

Stan Wagner

Printed Name

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

08/19/2016
Date of Survey
Signature and Seal of Professional Surveyor
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

TECHNICAL SPECIFICATIONS

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

DWC/C-IS MS
standard

Casing

5.500" O.D. 20.00 lb./ft.

VST P-110EC

VST P-110EC
125,000
135,000

Material

Grade
Minimum Yield Strength (psi.)
Minimum Ultimate Strength (psi.)



VAM-USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: (713) 479-3200
Fax: (713) 479-3234
E-mail: VAMUSAsales@na.vallourec.com

Pipe Dimensions

5.500	Nominal Pipe Body OD (in.)
4.778	Nominal Pipe Body ID (in.)
0.361	Nominal Wall Thickness (in.)
20.00	Nominal Weight (lbs./ft.)
19.83	Plain End Weight (lbs./ft.)
5.828	Nominal Pipe Body Area (sq. in.)

Pipe Body Performance Properties

729,000	Minimum Pipe Body Yield Strength (lbs.)
12,090	Minimum Collapse Pressure (psi.)
14,360	Minimum Internal Yield Pressure (psi.)
13,100	Hydrostatic Test Pressure (psi.)

Connection Dimensions

6.115	Connection OD (in.)
4.778	Connection ID (in.)
4.653	Connection Drift Diameter (in.)
4.13	Make-up Loss (in.)
5.828	Critical Area (sq. in.)
100.0	Joint Efficiency (%)

Connection Performance Properties

729,000	(1)	Joint Strength (lbs.)
26,040	(2)	Reference String Length (ft.) 1.4 Design Factor
728,000	(3)	API Joint Strength (lbs.)
729,000		Compression Rating (lbs.)
12,090		API Collapse Pressure Rating (psi.)
14,360	(4)	API Internal Pressure Resistance (psi.)
104.2		Maximum Uniaxial Bend Rating (degrees/100 ft.)

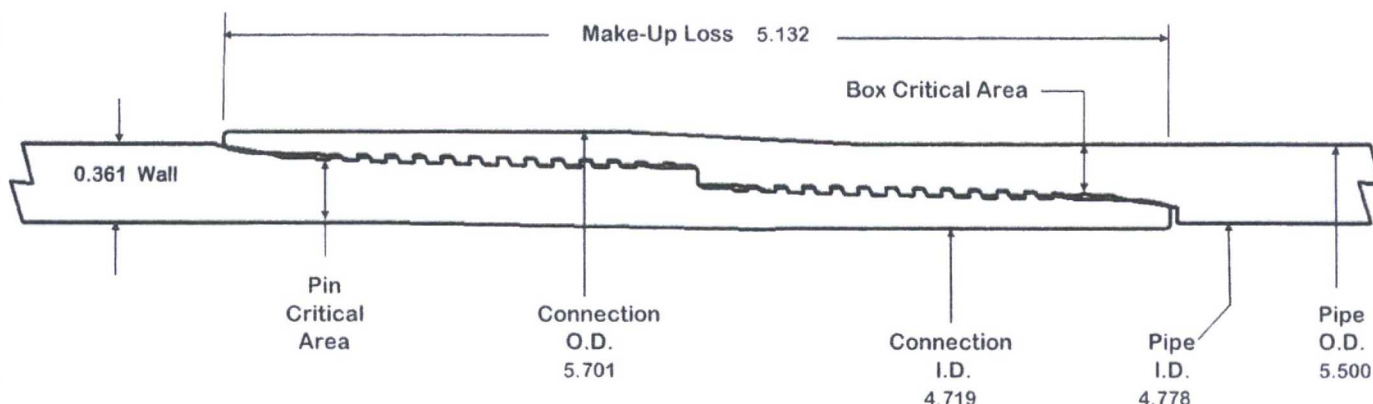
Approximated Field End Torque Values

16,600	(5)	Minimum Final Torque (ft.-lbs.)
19,100	(5)	Maximum Final Torque (ft.-lbs.)
21,600	(6)	Connection Yield Torque (ft.-lbs.)

- (1) Joint Strength is the minimum pipe body yield strength multiplied by the connection critical area.
 (2) Reference String Length is the joint strength divided by both the weight in air and the design factor
 (3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.
 (4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.
 (5) Torque values are approximated and may be affected by field conditions.
 (6) Connection yield torque is not to be exceeded.

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades are obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

VAM® SFC



O.D.	WEIGHT	WALL	GRADE	DRIFT
5.500	20.00	0.361	VST P110EC	4.653

PIPE BODY PROPERTIES

Material Grade	VST P110EC
Min. Yield Strength	125 ksi
Min. Tensile Strength	135 ksi
Outside Diameter	5.500 in
Inside Diameter	4.778 in
Nominal Area	5.828 sq.in.
Yield Strength	729 kips
Ultimate Strength	787 kips
Min Internal Yield	14,360 psi
*High Collapse	12,090 psi

CONNECTION PROPERTIES

Connection OD	5.701 in
Connection ID	4.719 in
Make up Loss	5.132 in
Box Critical Area	4.083 sq.in.
%PB Section Area	70.1%
Pin Critical Area	4.123 sq.in.
%PB Section Area	70.7%
Yield Strength	510 kips
Parting Load	551 kips
Min Internal Yield	14,360 psi
*High Collapse	12,090 psi
Wk Compression	357 kips
Max Pure Bending	20 °/100 ft

Contact: tech.support@vam-usa.com

Ref. Drawing: SI-PD 100414 Rev.B

Date: 14-Jun-16

Time: 2:31 PM

TORQUE DATA ft-lb

min	opt	max
8,700	9,700	10,700



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EOG RESOURCES, INC.
COLGROVE 35 FED COM NO. 702H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	822'
Top of Salt	1,160'
Base of Salt / Top Anhydrite	4,860'
Base Anhydrite	5,095'
Lamar	5,095'
Bell Canyon	5,121'
Cherry Canyon	6,140'
Brushy Canyon	7,850'
Bone Spring Lime	9,310'
1 st Bone Spring Sand	10,200'
2 nd Bone Spring Lime	10,460'
2 nd Bone Spring Sand	10,820'
3 rd Bone Spring Carb	11,120'
3 rd Bone Spring Sand	11,860'
Wolfcamp	12,290'
TD	12,500'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,140'	Oil
Brushy Canyon	7,850'	Oil
1 st Bone Spring Sand	10,200'	Oil
2 nd Bone Spring Lime	10,460'	Oil
2 nd Bone Spring Sand	10,820'	Oil
3 rd Bone Spring Carb	11,120'	Oil
3 rd Bone Spring Sand	11,860'	Oil
Wolfcamp	12,290'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10.75" casing at 850' and circulating cement back to surface.

EOG RESOURCES, INC.
COLGROVE 35 FED COM NO. 702H

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 850'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0-8,000'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
8.75"	8,000' - 11,200'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0' - 10,700'	5.5"	20#	P110EC	DWC-IS-MS	1.125	1.25	1.60
6.75"	10,700'-19,809'	5.5"	20#	P110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 850	325	13.5	1.73	9.13	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,200'	1250	9.0	2.50	9.06	Class C + 0.6% ASM-3 + 0.15% CDF-4P + 0.6% LTR + 0.5% SCA-6 + 0.13 pps LCL-11 + 0.13 pps LDP-c-0215 (TOC @ Surface)
	150	12.5	1.71	9.06	Class C + 0.6% LTR + 0.5% SCA-6 + 0.6% ASM-3 + 0.15% CDF-4P + 0.13% LCL-11 + 0.13% LCF-7
	525	15.6	1.19	5.20	Class H + 0.2% ASM-3 + 0.3% SCA-6 + 0.65% LTR + 0.3% SPC-2
5-1/2" 19,809'	725	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,700')

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

EOG RESOURCES, INC.
COLGROVE 35 FED COM NO. 702H

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 850'	Fresh - Gel	8.6-8.8	28-34	N/c
850' – 11,200'	Brine	8.8-10.0	28-34	N/c
11,200' – 19,809' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

EOG RESOURCES, INC.
COLGROVE 35 FED COM NO. 702H

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 182 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7475 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

EOG RESOURCES, INC.
COLGROVE 35 FED COM NO. 702H

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. The remaining BOPE will not be retested after installing the intermediate casing.

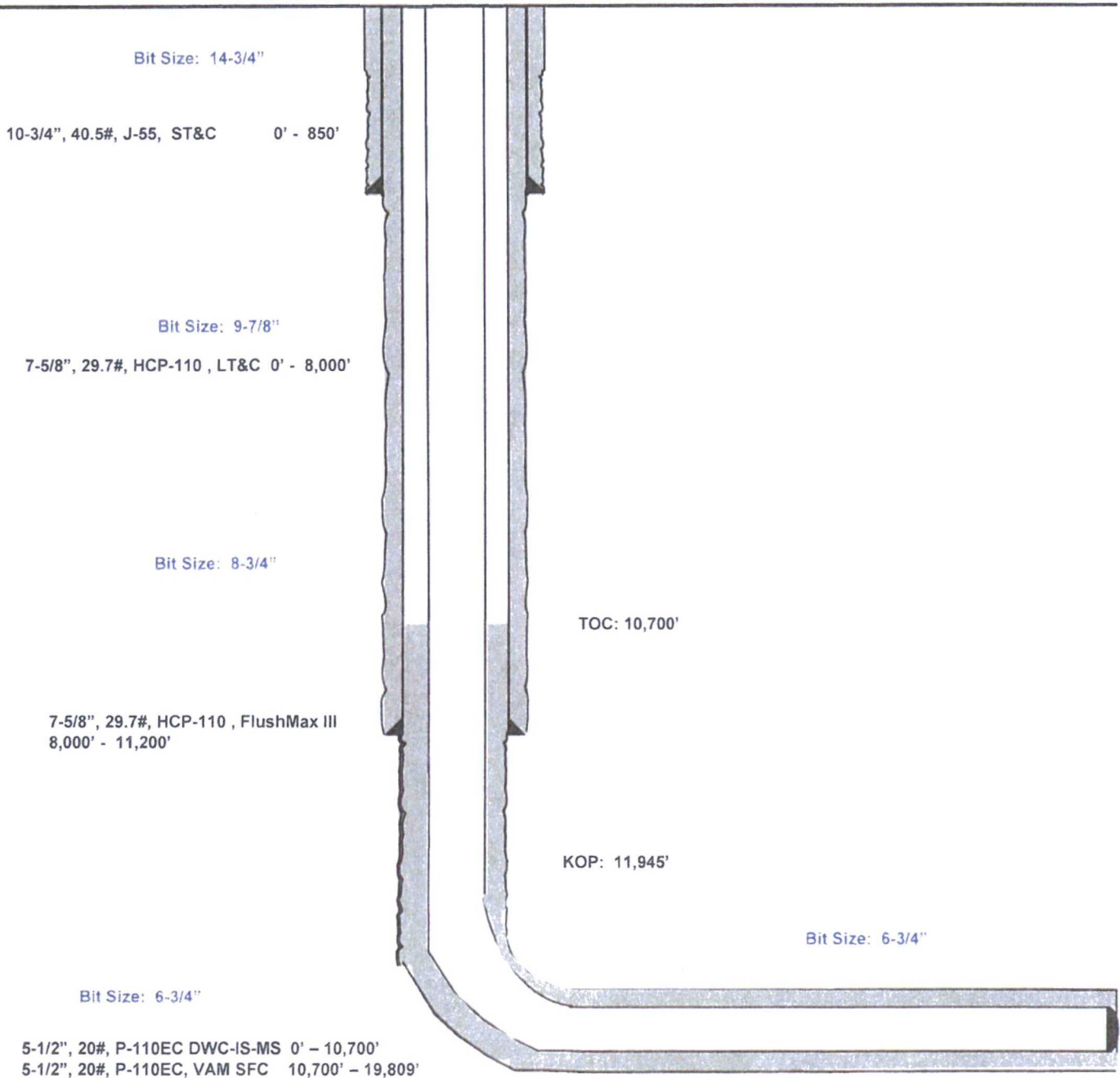
Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Colgrove 35 Fed Com #702H

360' FSL
245' FWL
Section 35
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 3/21/17
API: 30-025-42983

KB: 3,350'
GL: 3,320'



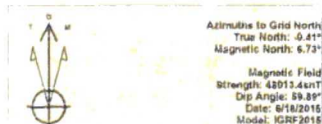
Lateral: 19,809' MD, 12,500' TVD
Upper Most Perf:
330' FSL & 995' FWL Sec. 35
Lower Most Perf:
330' FNL & 990' FWL Sec. 26
BH Location: 230' FNL & 990' FWL
Section 26
T-26-S, R-33-E



Lea County, NM (NAD 27 NME)

Colgrove 35 Fed Com #702H

Plan #0.2



To convert a Magnetic Direction to a Grid Direction: Add 6.73°
To convert a Magnetic Direction to a True Direction: Add 7.14° East
To convert a True Direction to a Grid Direction: Subtract 0.41°

PROJECT DETAILS: Lea County, NM (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #702H
Ground Level: 3320.0
KB = 25 @ 3345.0usft
Northing: 365015.00
Easting: 742712.00
Latitude: 32° 0' 4.046 N
Longitude: 103° 33' 1.365 W

SECTION DETAILS

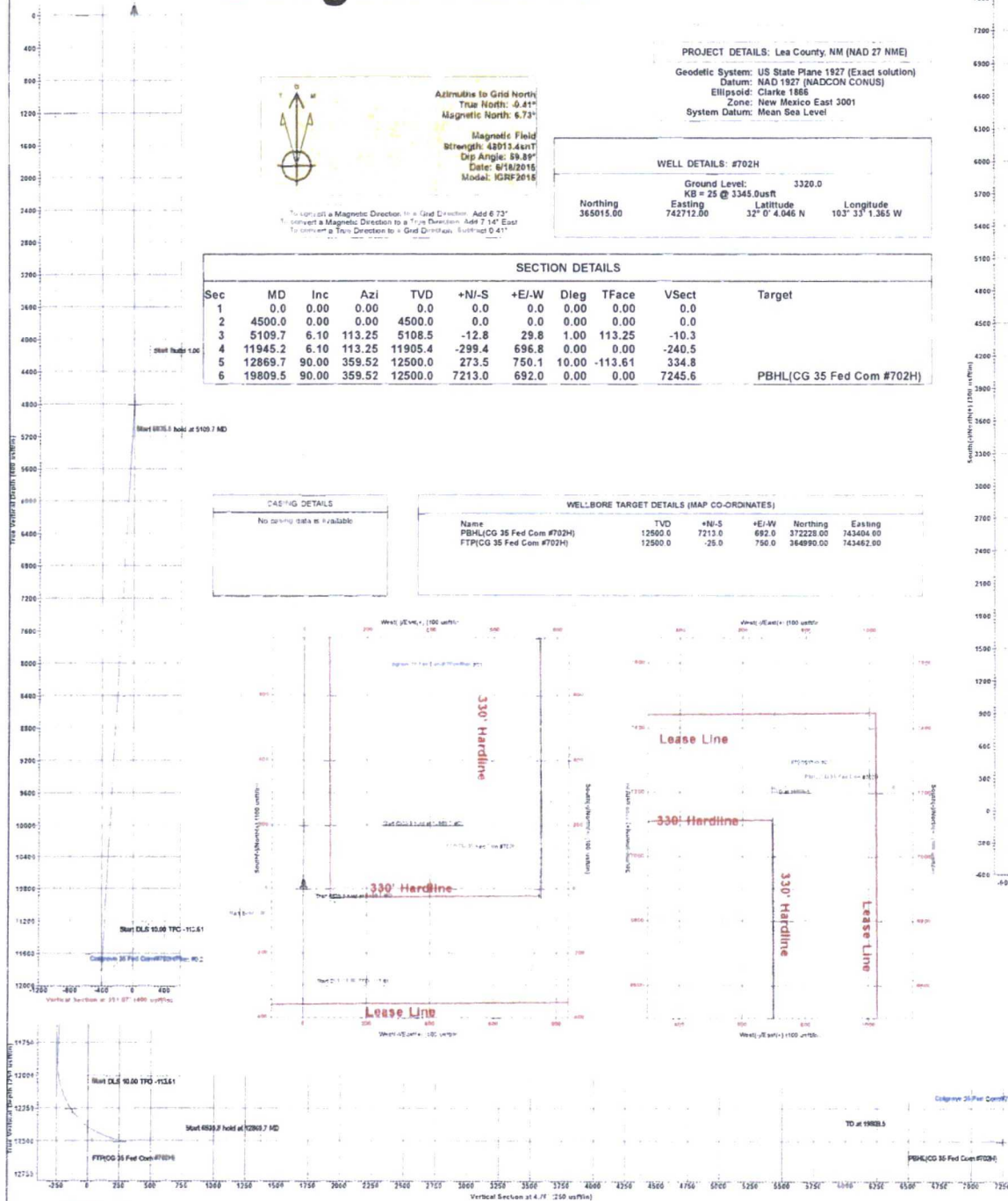
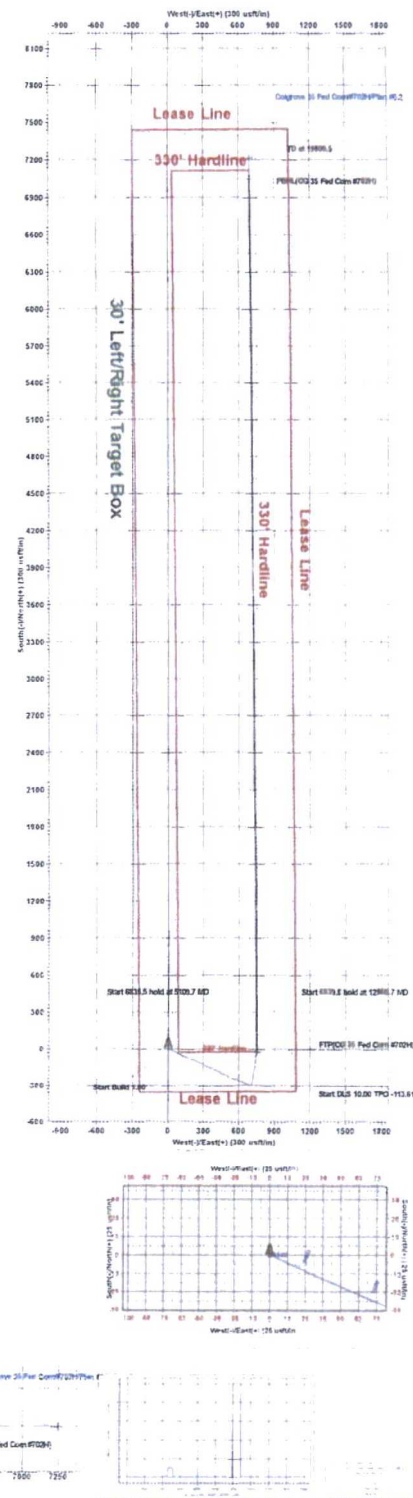
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	5109.7	6.10	113.25	5108.5	-12.8	29.8	1.00	113.25	-10.3	
4	11945.2	6.10	113.25	11905.4	-299.4	696.8	0.00	0.00	-240.5	
5	12869.7	90.00	359.52	12500.0	273.5	750.1	10.00	-113.61	334.8	
6	19809.5	90.00	359.52	12500.0	7213.0	692.0	0.00	0.00	7245.6	PBHL(CG 35 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL(CG 35 Fed Com #702H)	12500.0	7213.0	692.0	372228.00	743404.00
FTPCO 35 Fed Com #702H	12500.0	-25.0	750.0	364990.00	743462.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Colgrove 35 Fed Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

21 March, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Colgrove 35 Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3345.0usft
MD Reference: KB = 25 @ 3345.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Colgrove 35 Fed Com
Site Position: Northing: 365,015.00 usft Latitude: 32° 0' 4.048 N
From: Map Easting: 742,682.00 usft Longitude: 103° 33' 1.713 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41

Well #702H
Well Position +N/-S 0.0 usft Northing: 365,015.00 usft Latitude: 32° 0' 4.046 N
 +E/-W 30.0 usft Easting: 742,712.00 usft Longitude: 103° 33' 1.365 W
Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,320.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/18/2015	7.14	59.89	48.013

Design Plan #0.2
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.0
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 4.76

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,109.7	6.10	113.25	5,108.5	-12.8	29.8	1.00	1.00	0.00	113.25	
11,945.2	6.10	113.25	11,905.4	-299.4	696.8	0.00	0.00	0.00	0.00	
12,869.7	90.00	359.52	12,500.0	273.5	750.1	10.00	9.08	-12.30	-113.61	
19,809.5	90.00	359.52	12,500.0	7,213.0	692.0	0.00	0.00	0.00	0.00	PBHL(CG 35 Fed Cor)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Colgrove 35 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3345.0usft
 MD Reference: KB = 25 @ 3345.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	113.25	4,600.0	-0.3	0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	113.25	4,700.0	-1.4	3.2	-1.1	1.00	1.00	0.00
4,800.0	3.00	113.25	4,799.9	-3.1	7.2	-2.5	1.00	1.00	0.00
4,900.0	4.00	113.25	4,899.7	-5.5	12.8	-4.4	1.00	1.00	0.00
5,000.0	5.00	113.25	4,999.4	-8.6	20.0	-6.9	1.00	1.00	0.00
5,109.7	6.10	113.25	5,108.5	-12.8	29.8	-10.3	1.00	1.00	0.00
5,200.0	6.10	113.25	5,198.3	-16.6	38.6	-13.3	0.00	0.00	0.00
5,300.0	6.10	113.25	5,297.8	-20.8	48.3	-16.7	0.00	0.00	0.00



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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)
5,400.0	6.10	113.25	5,397.2	-25.0	58.1	-20.1	0.00	0.00	0.00
5,500.0	6.10	113.25	5,496.6	-29.2	67.9	-23.4	0.00	0.00	0.00
5,600.0	6.10	113.25	5,596.1	-33.4	77.6	-26.8	0.00	0.00	0.00
5,700.0	6.10	113.25	5,695.5	-37.5	87.4	-30.2	0.00	0.00	0.00
5,800.0	6.10	113.25	5,794.9	-41.7	97.1	-33.5	0.00	0.00	0.00
5,900.0	6.10	113.25	5,894.4	-45.9	106.9	-36.9	0.00	0.00	0.00
6,000.0	6.10	113.25	5,993.8	-50.1	116.7	-40.3	0.00	0.00	0.00
6,100.0	6.10	113.25	6,093.2	-54.3	126.4	-43.6	0.00	0.00	0.00
6,200.0	6.10	113.25	6,192.7	-58.5	136.2	-47.0	0.00	0.00	0.00
6,300.0	6.10	113.25	6,292.1	-62.7	145.9	-50.4	0.00	0.00	0.00
6,400.0	6.10	113.25	6,391.6	-66.9	155.7	-53.7	0.00	0.00	0.00
6,500.0	6.10	113.25	6,491.0	-71.1	165.4	-57.1	0.00	0.00	0.00
6,600.0	6.10	113.25	6,590.4	-75.3	175.2	-60.5	0.00	0.00	0.00
6,700.0	6.10	113.25	6,689.9	-79.5	185.0	-63.8	0.00	0.00	0.00
6,800.0	6.10	113.25	6,789.3	-83.7	194.7	-67.2	0.00	0.00	0.00
6,900.0	6.10	113.25	6,888.7	-87.9	204.5	-70.6	0.00	0.00	0.00
7,000.0	6.10	113.25	6,988.2	-92.1	214.2	-73.9	0.00	0.00	0.00
7,100.0	6.10	113.25	7,087.6	-96.3	224.0	-77.3	0.00	0.00	0.00
7,200.0	6.10	113.25	7,187.0	-100.4	233.8	-80.7	0.00	0.00	0.00
7,300.0	6.10	113.25	7,286.5	-104.6	243.5	-84.1	0.00	0.00	0.00
7,400.0	6.10	113.25	7,385.9	-108.8	253.3	-87.4	0.00	0.00	0.00
7,500.0	6.10	113.25	7,485.3	-113.0	263.0	-90.8	0.00	0.00	0.00
7,600.0	6.10	113.25	7,584.8	-117.2	272.8	-94.2	0.00	0.00	0.00
7,700.0	6.10	113.25	7,684.2	-121.4	282.5	-97.5	0.00	0.00	0.00
7,800.0	6.10	113.25	7,783.6	-125.6	292.3	-100.9	0.00	0.00	0.00
7,900.0	6.10	113.25	7,883.1	-129.8	302.1	-104.3	0.00	0.00	0.00
8,000.0	6.10	113.25	7,982.5	-134.0	311.8	-107.6	0.00	0.00	0.00
8,100.0	6.10	113.25	8,081.9	-138.2	321.6	-111.0	0.00	0.00	0.00
8,200.0	6.10	113.25	8,181.4	-142.4	331.3	-114.4	0.00	0.00	0.00
8,300.0	6.10	113.25	8,280.8	-146.6	341.1	-117.7	0.00	0.00	0.00
8,400.0	6.10	113.25	8,380.2	-150.8	350.8	-121.1	0.00	0.00	0.00
8,500.0	6.10	113.25	8,479.7	-155.0	360.6	-124.5	0.00	0.00	0.00
8,600.0	6.10	113.25	8,579.1	-159.2	370.4	-127.8	0.00	0.00	0.00
8,700.0	6.10	113.25	8,678.5	-163.3	380.1	-131.2	0.00	0.00	0.00
8,800.0	6.10	113.25	8,778.0	-167.5	389.9	-134.6	0.00	0.00	0.00
8,900.0	6.10	113.25	8,877.4	-171.7	399.6	-137.9	0.00	0.00	0.00
9,000.0	6.10	113.25	8,976.8	-175.9	409.4	-141.3	0.00	0.00	0.00
9,100.0	6.10	113.25	9,076.3	-180.1	419.2	-144.7	0.00	0.00	0.00
9,200.0	6.10	113.25	9,175.7	-184.3	428.9	-148.0	0.00	0.00	0.00
9,300.0	6.10	113.25	9,275.1	-188.5	438.7	-151.4	0.00	0.00	0.00
9,400.0	6.10	113.25	9,374.6	-192.7	448.4	-154.8	0.00	0.00	0.00
9,500.0	6.10	113.25	9,474.0	-196.9	458.2	-158.2	0.00	0.00	0.00
9,600.0	6.10	113.25	9,573.5	-201.1	467.9	-161.5	0.00	0.00	0.00
9,700.0	6.10	113.25	9,672.9	-205.3	477.7	-164.9	0.00	0.00	0.00
9,800.0	6.10	113.25	9,772.3	-209.5	487.5	-168.3	0.00	0.00	0.00
9,900.0	6.10	113.25	9,871.8	-213.7	497.2	-171.6	0.00	0.00	0.00
10,000.0	6.10	113.25	9,971.2	-217.9	507.0	-175.0	0.00	0.00	0.00
10,100.0	6.10	113.25	10,070.6	-222.0	516.7	-178.4	0.00	0.00	0.00
10,200.0	6.10	113.25	10,170.1	-226.2	526.5	-181.7	0.00	0.00	0.00
10,300.0	6.10	113.25	10,269.5	-230.4	536.3	-185.1	0.00	0.00	0.00
10,400.0	6.10	113.25	10,368.9	-234.6	546.0	-188.5	0.00	0.00	0.00
10,500.0	6.10	113.25	10,468.4	-238.8	555.8	-191.8	0.00	0.00	0.00
10,600.0	6.10	113.25	10,567.8	-243.0	565.5	-195.2	0.00	0.00	0.00
10,700.0	6.10	113.25	10,667.2	-247.2	575.3	-198.6	0.00	0.00	0.00



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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)
10,800.0	6.10	113.25	10,766.7	-251.4	585.0	-201.9	0.00	0.00	0.00
10,900.0	6.10	113.25	10,866.1	-255.6	594.8	-205.3	0.00	0.00	0.00
11,000.0	6.10	113.25	10,965.5	-259.8	604.6	-208.7	0.00	0.00	0.00
11,100.0	6.10	113.25	11,065.0	-264.0	614.3	-212.0	0.00	0.00	0.00
11,200.0	6.10	113.25	11,164.4	-268.2	624.1	-215.4	0.00	0.00	0.00
11,300.0	6.10	113.25	11,263.8	-272.4	633.8	-218.8	0.00	0.00	0.00
11,400.0	6.10	113.25	11,363.3	-276.6	643.6	-222.1	0.00	0.00	0.00
11,500.0	6.10	113.25	11,462.7	-280.8	653.4	-225.5	0.00	0.00	0.00
11,600.0	6.10	113.25	11,562.1	-284.9	663.1	-228.9	0.00	0.00	0.00
11,700.0	6.10	113.25	11,661.6	-289.1	672.9	-232.3	0.00	0.00	0.00
11,800.0	6.10	113.25	11,761.0	-293.3	682.6	-235.6	0.00	0.00	0.00
11,900.0	6.10	113.25	11,860.4	-297.5	692.4	-239.0	0.00	0.00	0.00
11,945.2	6.10	113.25	11,905.4	-299.4	696.8	-240.5	0.00	0.00	0.00
11,950.0	5.92	108.98	11,910.2	-299.6	697.3	-240.7	10.00	-3.67	-88.91
12,000.0	6.35	60.98	11,959.9	-299.1	702.1	-239.7	10.00	0.86	-96.02
12,050.0	9.77	34.12	12,009.4	-294.2	706.9	-234.5	10.00	6.84	-53.72
12,100.0	14.16	22.33	12,058.3	-285.1	711.6	-225.0	10.00	8.77	-23.58
12,150.0	18.85	16.17	12,106.3	-271.6	716.2	-211.2	10.00	9.38	-12.32
12,200.0	23.66	12.41	12,152.8	-254.1	720.6	-193.3	10.00	9.63	-7.50
12,250.0	28.54	9.88	12,197.7	-232.5	724.8	-171.5	10.00	9.75	-5.07
12,300.0	33.45	8.03	12,240.6	-207.1	728.8	-145.8	10.00	9.82	-3.69
12,350.0	38.38	6.61	12,281.1	-178.0	732.5	-116.5	10.00	9.86	-2.84
12,400.0	43.32	5.47	12,318.9	-145.5	735.9	-83.9	10.00	9.89	-2.28
12,450.0	48.27	4.52	12,353.7	-109.8	739.0	-48.0	10.00	9.91	-1.90
12,500.0	53.23	3.71	12,385.4	-71.2	741.8	-9.3	10.00	9.92	-1.63
12,550.0	58.20	3.00	12,413.5	-29.9	744.2	32.0	10.00	9.93	-1.43
12,596.9	62.86	2.39	12,436.6	10.8	746.1	72.8	10.00	9.94	-1.29
FTP(CG 35 Fed Com #702H)									
12,600.0	63.17	2.35	12,438.0	13.6	746.3	75.5	10.00	9.94	-1.23
12,650.0	68.14	1.77	12,458.6	59.1	747.9	121.0	10.00	9.94	-1.17
12,700.0	73.11	1.22	12,475.2	106.2	749.1	168.1	10.00	9.95	-1.09
12,750.0	78.09	0.70	12,487.6	154.6	749.9	216.4	10.00	9.95	-1.04
12,800.0	83.06	0.20	12,495.8	204.0	750.3	265.6	10.00	9.95	-1.00
12,850.0	88.04	359.71	12,499.7	253.8	750.3	315.2	10.00	9.95	-0.98
12,869.7	90.00	359.52	12,500.0	273.5	750.1	334.8	10.00	9.95	-0.97
12,900.0	90.00	359.52	12,500.0	303.8	749.9	365.0	0.00	0.00	0.00
13,000.0	90.00	359.52	12,500.0	403.8	749.0	464.6	0.00	0.00	0.00
13,100.0	90.00	359.52	12,500.0	503.8	748.2	564.2	0.00	0.00	0.00
13,200.0	90.00	359.52	12,500.0	603.8	747.4	663.8	0.00	0.00	0.00
13,300.0	90.00	359.52	12,500.0	703.8	746.5	763.3	0.00	0.00	0.00
13,400.0	90.00	359.52	12,500.0	803.8	745.7	862.9	0.00	0.00	0.00
13,500.0	90.00	359.52	12,500.0	903.8	744.9	962.5	0.00	0.00	0.00
13,600.0	90.00	359.52	12,500.0	1,003.8	744.0	1,062.1	0.00	0.00	0.00
13,700.0	90.00	359.52	12,500.0	1,103.8	743.2	1,161.7	0.00	0.00	0.00
13,800.0	90.00	359.52	12,500.0	1,203.7	742.3	1,261.2	0.00	0.00	0.00
13,900.0	90.00	359.52	12,500.0	1,303.7	741.5	1,360.8	0.00	0.00	0.00
14,000.0	90.00	359.52	12,500.0	1,403.7	740.7	1,460.4	0.00	0.00	0.00
14,100.0	90.00	359.52	12,500.0	1,503.7	739.8	1,560.0	0.00	0.00	0.00
14,200.0	90.00	359.52	12,500.0	1,603.7	739.0	1,659.6	0.00	0.00	0.00
14,300.0	90.00	359.52	12,500.0	1,703.7	738.2	1,759.2	0.00	0.00	0.00
14,400.0	90.00	359.52	12,500.0	1,803.7	737.3	1,858.7	0.00	0.00	0.00
14,500.0	90.00	359.52	12,500.0	1,903.7	736.5	1,958.3	0.00	0.00	0.00
14,600.0	90.00	359.52	12,500.0	2,003.7	735.6	2,057.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Colgrove 35 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3345.0usft
 MD Reference: KB = 25 @ 3345.0usft
 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)
14,700.0	90.00	359.52	12,500.0	2,103.7	734.8	2,157.5	0.00	0.00	0.00
14,800.0	90.00	359.52	12,500.0	2,203.7	734.0	2,257.1	0.00	0.00	0.00
14,900.0	90.00	359.52	12,500.0	2,303.7	733.1	2,356.6	0.00	0.00	0.00
15,000.0	90.00	359.52	12,500.0	2,403.7	732.3	2,456.2	0.00	0.00	0.00
15,100.0	90.00	359.52	12,500.0	2,503.7	731.5	2,555.8	0.00	0.00	0.00
15,200.0	90.00	359.52	12,500.0	2,603.7	730.6	2,655.4	0.00	0.00	0.00
15,300.0	90.00	359.52	12,500.0	2,703.7	729.8	2,755.0	0.00	0.00	0.00
15,400.0	90.00	359.52	12,500.0	2,803.7	728.9	2,854.6	0.00	0.00	0.00
15,500.0	90.00	359.52	12,500.0	2,903.7	728.1	2,954.1	0.00	0.00	0.00
15,600.0	90.00	359.52	12,500.0	3,003.7	727.3	3,053.7	0.00	0.00	0.00
15,700.0	90.00	359.52	12,500.0	3,103.7	726.4	3,153.3	0.00	0.00	0.00
15,800.0	90.00	359.52	12,500.0	3,203.7	725.6	3,252.9	0.00	0.00	0.00
15,900.0	90.00	359.52	12,500.0	3,303.7	724.8	3,352.5	0.00	0.00	0.00
16,000.0	90.00	359.52	12,500.0	3,403.7	723.9	3,452.0	0.00	0.00	0.00
16,100.0	90.00	359.52	12,500.0	3,503.7	723.1	3,551.6	0.00	0.00	0.00
16,200.0	90.00	359.52	12,500.0	3,603.7	722.2	3,651.2	0.00	0.00	0.00
16,300.0	90.00	359.52	12,500.0	3,703.7	721.4	3,750.8	0.00	0.00	0.00
16,400.0	90.00	359.52	12,500.0	3,803.7	720.6	3,850.4	0.00	0.00	0.00
16,500.0	90.00	359.52	12,500.0	3,903.7	719.7	3,949.9	0.00	0.00	0.00
16,600.0	90.00	359.52	12,500.0	4,003.6	718.9	4,049.5	0.00	0.00	0.00
16,700.0	90.00	359.52	12,500.0	4,103.6	718.0	4,149.1	0.00	0.00	0.00
16,800.0	90.00	359.52	12,500.0	4,203.6	717.2	4,248.7	0.00	0.00	0.00
16,900.0	90.00	359.52	12,500.0	4,303.6	716.4	4,348.3	0.00	0.00	0.00
17,000.0	90.00	359.52	12,500.0	4,403.6	715.5	4,447.9	0.00	0.00	0.00
17,100.0	90.00	359.52	12,500.0	4,503.6	714.7	4,547.4	0.00	0.00	0.00
17,200.0	90.00	359.52	12,500.0	4,603.6	713.9	4,647.0	0.00	0.00	0.00
17,300.0	90.00	359.52	12,500.0	4,703.6	713.0	4,746.6	0.00	0.00	0.00
17,400.0	90.00	359.52	12,500.0	4,803.6	712.2	4,846.2	0.00	0.00	0.00
17,500.0	90.00	359.52	12,500.0	4,903.6	711.3	4,945.8	0.00	0.00	0.00
17,600.0	90.00	359.52	12,500.0	5,003.6	710.5	5,045.3	0.00	0.00	0.00
17,700.0	90.00	359.52	12,500.0	5,103.6	709.7	5,144.9	0.00	0.00	0.00
17,800.0	90.00	359.52	12,500.0	5,203.6	708.8	5,244.5	0.00	0.00	0.00
17,900.0	90.00	359.52	12,500.0	5,303.6	708.0	5,344.1	0.00	0.00	0.00
18,000.0	90.00	359.52	12,500.0	5,403.6	707.2	5,443.7	0.00	0.00	0.00
18,100.0	90.00	359.52	12,500.0	5,503.6	706.3	5,543.2	0.00	0.00	0.00
18,200.0	90.00	359.52	12,500.0	5,603.6	705.5	5,642.8	0.00	0.00	0.00
18,300.0	90.00	359.52	12,500.0	5,703.6	704.6	5,742.4	0.00	0.00	0.00
18,400.0	90.00	359.52	12,500.0	5,803.6	703.8	5,842.0	0.00	0.00	0.00
18,500.0	90.00	359.52	12,500.0	5,903.6	703.0	5,941.6	0.00	0.00	0.00
18,600.0	90.00	359.52	12,500.0	6,003.6	702.1	6,041.2	0.00	0.00	0.00
18,700.0	90.00	359.52	12,500.0	6,103.6	701.3	6,140.7	0.00	0.00	0.00
18,800.0	90.00	359.52	12,500.0	6,203.6	700.5	6,240.3	0.00	0.00	0.00
18,900.0	90.00	359.52	12,500.0	6,303.6	699.6	6,339.9	0.00	0.00	0.00
19,000.0	90.00	359.52	12,500.0	6,403.6	698.8	6,439.5	0.00	0.00	0.00
19,100.0	90.00	359.52	12,500.0	6,503.6	697.9	6,539.1	0.00	0.00	0.00
19,200.0	90.00	359.52	12,500.0	6,603.6	697.1	6,638.6	0.00	0.00	0.00
19,300.0	90.00	359.52	12,500.0	6,703.6	696.3	6,738.2	0.00	0.00	0.00
19,400.0	90.00	359.52	12,500.0	6,803.6	695.4	6,837.8	0.00	0.00	0.00
19,500.0	90.00	359.52	12,500.0	6,903.5	694.6	6,937.4	0.00	0.00	0.00
19,600.0	90.00	359.52	12,500.0	7,003.5	693.8	7,037.0	0.00	0.00	0.00
19,700.0	90.00	359.52	12,500.0	7,103.5	692.9	7,136.5	0.00	0.00	0.00
19,809.5	90.00	359.52	12,500.0	7,213.0	692.0	7,245.6	0.00	0.00	0.00

PBHL(CG 35 Fed Com #702H)



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Wellbore: OH
Design: Plan #0.2

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TVD Reference: KB = 25 @ 3345.0usft
MD Reference: KB = 25 @ 3345.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
FTP(CG 35 Fed Com #7 - plan misses target center by 72.9usft at 12596.9usft MD (12436.6 TVD, 10.8 N, 746.1 E) - Point	0.00	0.00	12,500.0	-25.0	750.0	364,990.00	743,462.00	32° 0' 3.744 N	103° 32' 52.658 W
PBHL(CG 35 Fed Com # - plan hits target center - Point	0.00	0.00	12,500.0	7,213.0	692.0	372,228.00	743,404.00	32° 1' 15.374 N	103° 32' 52.721 W