

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.*5. Lease Serial No.
NMNM110840**HOBBS OCD****SUBMIT IN TRIPLICATE - Other instructions on page 2****AUG 06 2018****RECEIVED**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG RESOURCES INCORPORATED-Email: stan_wagner@eogresources.com

Contact: STAN WAGNER

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3689

8. Well Name and No.

PHILLY 31 FED COM 703H

9. API Well No.

30-025-44768-00-X1

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 31 T26S R34E 290FSL 2030FWL
32.001064 N Lat, 103.510994 W Lon

10. Field and Pool or Exploratory Area

RED HILLS-WOLFCAMP, WEST (GAS)

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.

Change BHL to: 100' FNL & 1667' FWL 1-30-26S-34E

Carlsbad Field Office
OCD Hobbs

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #428554 verified by the BLM Well Information System

For EOG RESOURCES INCORPORATED, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 07/25/2018 (18PP1542SE)

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 07/24/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 07/30/2018

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: (575) 393-6161 Fax (575) 393-9720
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) 334-6179
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 30-025-44768	² Pool Code 98097	³ Pool Name Sanders Tank; Upper Wolfcamp
⁴ Property Code 321381	⁵ Property Name PHILLY 31 FED COM	⁶ Well Number #703H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3365'

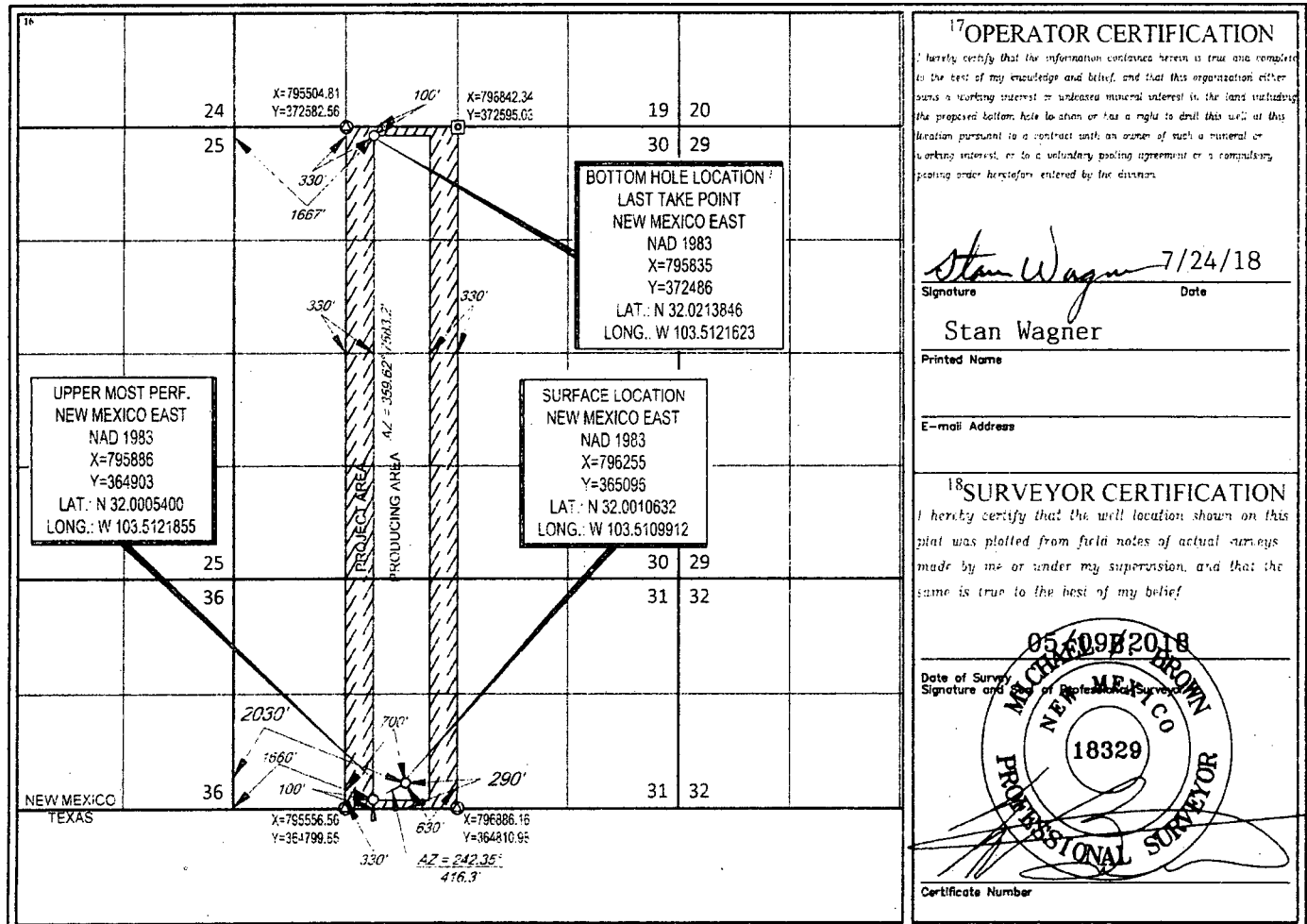
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	31	26-S	34-E	-	290'	SOUTH	2030'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	26-S	34-E	-	100'	NORTH	1667'	WEST	LEA

¹² Dedicated Acres 238.30	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.



Revised Permit Information 7/20/18:

Well Name: Philly 31 Fed Com No. 703H

Location:

SL: 290' FSL & 2030' FWL, Section 31, T-26-S, R-34-E, Lea Co., N.M.

BHL: 100' FNL & 1667' FWL, Section 30, T-26-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 – 840'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' – 5,300'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 – 11,600'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 – 11,100'	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	11,100'-20,202'	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
840'	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)
5,300'	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
11,600'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,800')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
20,202'	1000	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,100')

Mud Program:

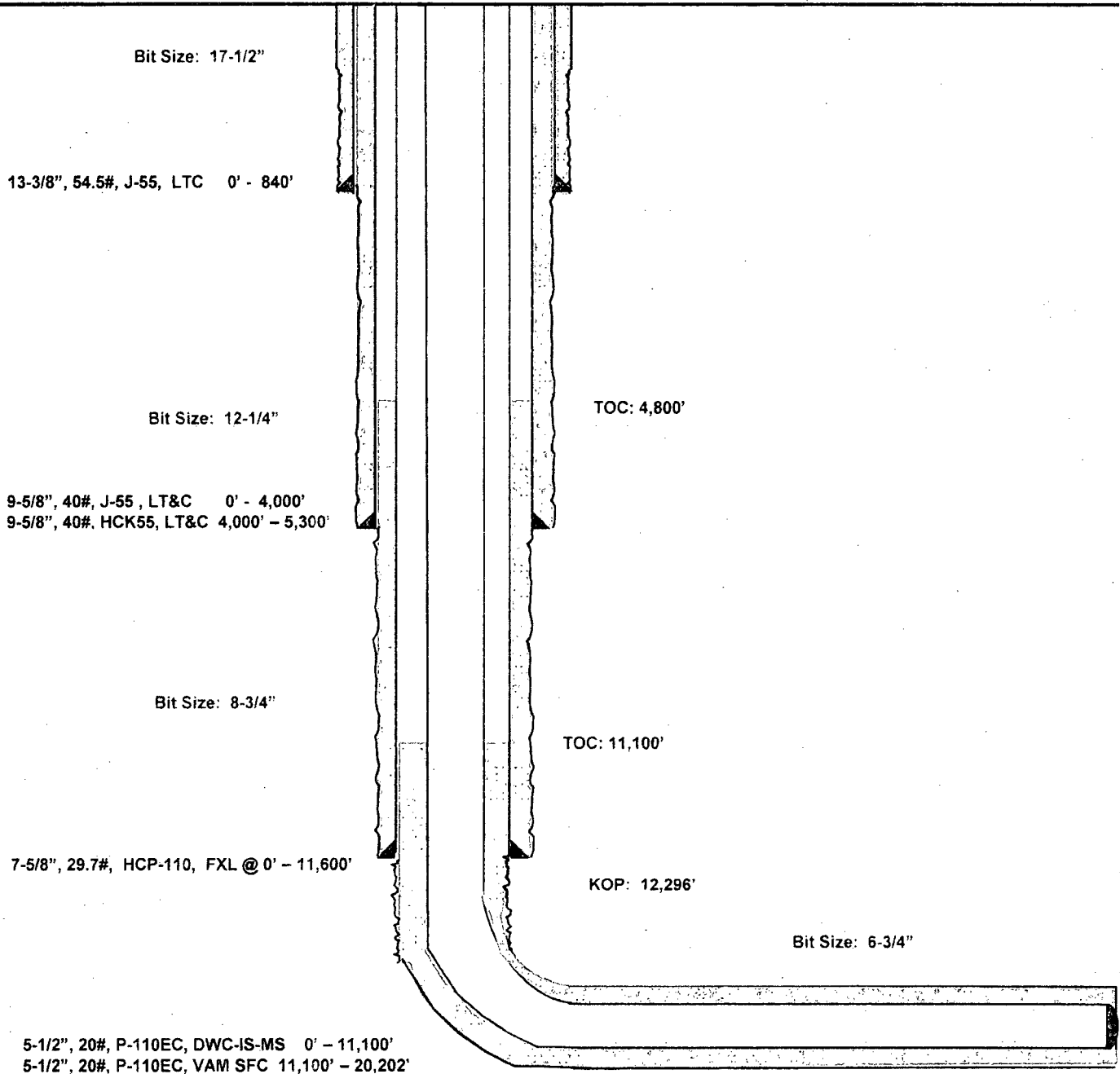
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 840'	Fresh - Gel	8.6-8.8	28-34	N/c
840' – 5,300'	Brine	10.0-10.2	28-34	N/c
5,300' – 11,600'	Oil Base	8.7-9.4	58-68	N/c - 6
11,600' – 20,202' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Philly 31 Fed Com #703H
Lea County, New Mexico

290' FSL
2030' FWL
Section 31
T-26-S, R-34-E

Proposed Wellbore
Revised 7/20/18
API: 30-025-44768

KB: 3,390'
GL: 3,365'



Lateral: 20,202' MD, 12,730' TVD
Upper Most Perf:
100' FSL & 1660' FWL Sec. 31
Lower Most Perf:
100' FNL & 1667' FWL Sec. 30
BH Location: 100' FNL & 1667' FWL
Section 30
T-26-S, R-34-E



Lea County, NM (NAD 83 NME)

Philly 31 Fed Com #703H

H&P 642

Plan #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: #703H

KB = 25' @ 3390.0' (H&P 642) 3385.0
Northing 365096.00 Easting 796255.00 Latitude 32° 0' 3.830 N Longitude 103° 30' 39.564 W

SECTION DETAILS

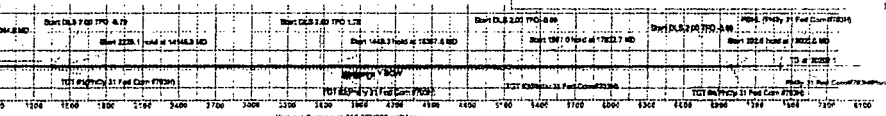
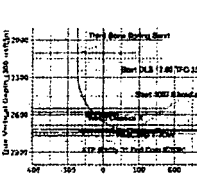
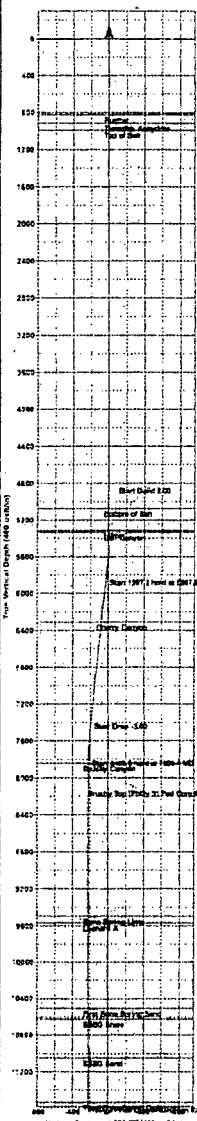
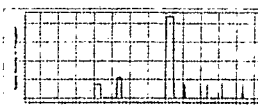
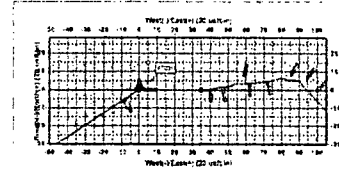
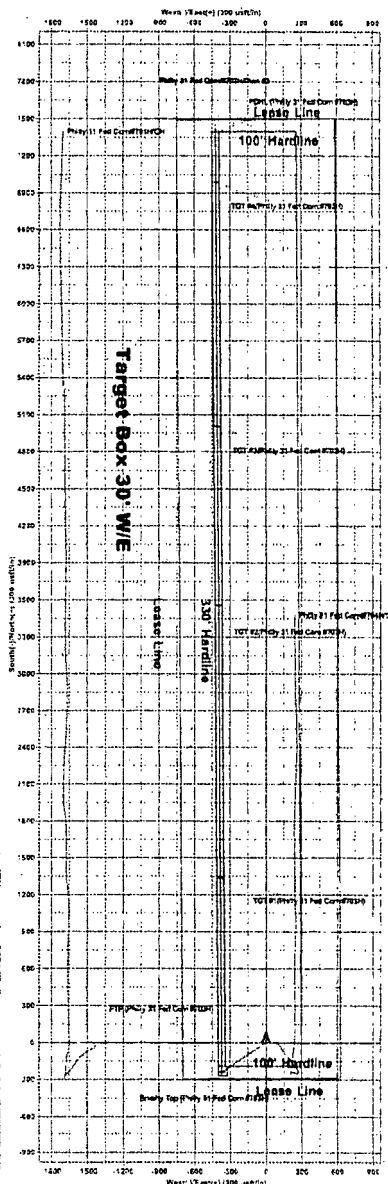
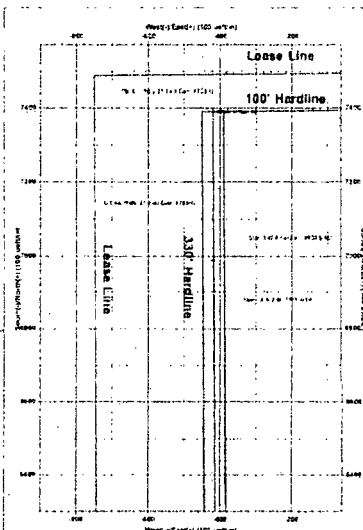
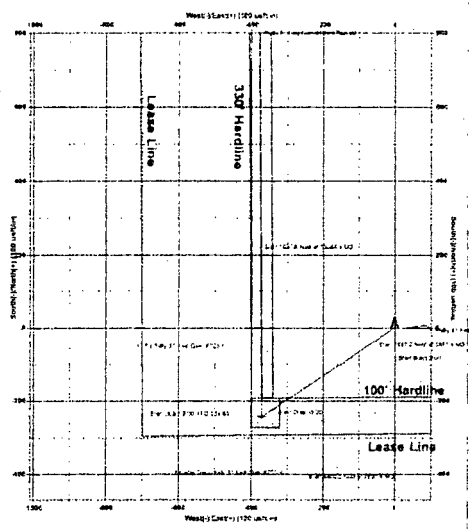
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	V/Set	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5280.0	0.00	0.00	5280.0	0.0	0.0	0.00	0.00	0.0	
3	5887.9	12.16	236.78	5883.4	-35.2	-53.8	2.00	236.78	-32.1	
4	7485.1	12.16	236.78	7444.8	-219.5	-335.2	0.00	0.00	-200.2	
5	7890.4	0.00	0.00	7847.0	-243.0	-371.0	3.00	180.00	-221.6	Brushy Top (Philly 31 Fed Com #703H)
6	12296.4	0.00	0.00	12253.0	-243.0	-371.0	0.00	0.00	-221.6	
7	13044.9	89.82	359.63	12730.5	232.9	-374.1	12.00	359.63	253.8	TGT #1(Philly 31 Fed Com #703H)
8	14142.5	89.82	359.63	12734.0	1370.5	-381.1	0.00	0.00	1350.0	
9	14145.3	89.87	359.63	12734.0	1333.3	-381.1	2.00	-0.79	1352.8	TGT #2(Philly 31 Fed Com #703H)
10	16365.3	89.87	359.63	12735.0	3553.3	-395.4	0.00	0.00	3570.0	
11	16367.8	89.92	359.63	12739.0	3555.6	-395.4	2.00	1.78	3572.5	TGT #3(Philly 31 Fed Com #703H)
12	17817.2	89.92	359.63	12741.0	5005.1	-404.7	0.00	0.00	5020.0	
13	17832.7	90.23	359.63	12741.0	5020.7	-404.8	2.00	-0.09	5035.5	TGT #4(Philly 31 Fed Com #703H)
14	19799.7	90.23	359.63	12733.0	9987.6	-417.4	0.00	0.00	7000.0	
15	19809.8	90.43	359.63	12732.9	9997.5	-417.5	2.00	-0.08	7009.9	
16	20202.1	90.43	359.63	12730.0	7390.0	-420.0	0.00	0.00	7401.9	PBHL (Philly 31 Fed Com #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top (Philly 31 Fed Com #703H)	7847.0	-243.0	-371.0	364875.00	79584.00
PBHL (Philly 31 Fed Com #703H)	12730.0	-193.0	-369.0	364803.00	79584.00
TGT #4(Philly 31 Fed Com #703H)	12730.0	7390.0	-420.0	372486.00	79583.00
TGT #3(Philly 31 Fed Com #703H)	12733.0	4901.6	-417.4	372083.00	79583.50
TGT #1(Philly 31 Fed Com #703H)	12734.0	1370.5	-381.1	366426.50	795873.90
TGT #2(Philly 31 Fed Com #703H)	12739.0	3553.3	-395.4	368849.30	79583.60
TGT #3(Philly 31 Fed Com #703H)	12741.0	5005.1	-404.7	370101.10	79583.30





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Philly 31 Fed Com

#703H

73696

OH

Plan: Plan #2

Standard Planning Report

18 July, 2018

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Philly 31 Fed Com
 Well: #703H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3390.0usft (H&P 642)
 MD Reference: KB = 25' @ 3390.0usft (H&P 642)
 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	Philly 31 Fed Com		
Site Position:	Map	Northings:	365,084.00 usft
From:		Easting:	794,820.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.819 N
		Longitude:	103° 30' 56.229 W
		Grid Convergence:	0.43 °

Well	#703H		
Well Position	+N-S	12.0 usft	Northings:
	+E-W	1,435.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,365.0 usft
			365,096.00 usft
			796,255.00 usft
			32° 0' 3.830 N
			103° 30' 39.564 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	9/19/2017	6.88
			59.86
			47,785.85016300

Design:	Plan #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:
			356.75

Plan Survey Tool Program	Date 7/18/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	20,202.1 Plan #2 (OH)	MWD
			OWSG MWD - Standard

Database: EDM 5000.14
 Company: EOG Resources - Midland
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 MD Reference: KB = 25' @ 3390.0usft (H&P 642)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	
5.280.0	0.00	0.00	5.280.0	0.0	0.0	0.00	0.00	0.00	0.00	
5.887.9	12.16	236.78	5.883.4	-35.2	-53.8	2.00	2.00	0.00	236.78	
7.485.1	12.16	236.78	7.444.8	-219.5	-335.2	0.00	0.00	0.00	0.00	
7.890.4	0.00	0.00	7.847.0	-243.0	-371.0	3.00	-3.00	0.00	180.00	Brushy Top (Philly 31
12.296.4	0.00	0.00	12.253.0	-243.0	-371.0	0.00	0.00	0.00	0.00	
13.044.9	89.82	359.63	12.730.5	232.9	-374.1	12.00	12.00	-0.05	359.63	
14.142.5	89.82	359.63	12.734.0	1.330.5	-381.1	0.00	0.00	0.00	0.00	TGT #1(Philly 31 Fed
14.145.3	89.87	359.63	12.734.0	1.333.3	-381.1	2.00	2.00	-0.03	-0.79	
16.365.3	89.87	359.63	12.739.0	3.553.3	-395.4	0.00	0.00	0.00	0.00	TGT #2(Philly 31 Fed
16.367.8	89.92	359.63	12.739.0	3.555.8	-395.4	2.00	2.00	0.06	1.78	
17.817.2	89.92	359.63	12.741.0	5.005.1	-404.7	0.00	0.00	0.00	0.00	TGT #3(Philly 31 Fed
17.832.7	90.23	359.63	12.741.0	5.020.7	-404.8	2.00	2.00	0.00	-0.09	
19.799.7	90.23	359.63	12.733.0	6.987.6	-417.4	0.00	0.00	0.00	0.00	TGT #4(Philly 31 Fed
19.809.6	90.43	359.63	12.732.9	6.997.5	-417.5	2.00	2.00	0.00	-0.08	
20.202.1	90.43	359.63	12.730.0	7.390.0	-420.0	0.00	0.00	0.00	0.00	PBHL (Philly 31 Fed C



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Philly 31 Fed Com
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Design: Plan #2

Local Co-ordinate Reference: Well #703H
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MD Reference: KB = 25' @ 3390.0usft (H&P 642)
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
829.0	0.00	0.00	829.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
Tamarisk Anhydrite									
994.0	0.00	0.00	994.0	0.0	0.0	0.0	0.00	0.00	0.00
Top of Salt									
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	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Philly 31 Fed Com
 Well: #703H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3390.0usft (H&P 642)
 MD Reference: KB = 25' @ 3390.0usft (H&P 642)
 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)
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,081.0	0.00	0.00	5,081.0	0.0	0.0	0.0	0.00	0.00	0.00
Bottom of Salt									
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,280.0	0.00	0.00	5,280.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.40	236.78	5,300.0	0.0	-0.1	0.0	2.00	2.00	0.00
5,315.0	0.70	236.78	5,315.0	-0.1	-0.2	-0.1	2.00	2.00	0.00
Lamar									
5,340.0	1.20	236.78	5,340.0	-0.3	-0.5	-0.3	2.00	2.00	0.00
Bell Canyon									
5,400.0	2.40	236.78	5,400.0	-1.4	-2.1	-1.3	2.00	2.00	0.00
5,500.0	4.40	236.78	5,499.8	-4.6	-7.1	-4.2	2.00	2.00	0.00
5,600.0	6.40	236.78	5,599.3	-8.8	-14.9	-8.9	2.00	2.00	0.00
5,700.0	8.40	236.78	5,698.5	-16.8	-25.7	-15.4	2.00	2.00	0.00
5,800.0	10.40	236.78	5,797.1	-25.8	-39.4	-23.5	2.00	2.00	0.00
5,887.9	12.16	236.78	5,883.4	-35.2	-53.8	-32.1	2.00	2.00	0.00
5,900.0	12.16	236.78	5,895.2	-36.6	-55.9	-33.4	0.00	0.00	0.00
6,000.0	12.16	236.78	5,992.9	-48.1	-73.5	-43.9	0.00	0.00	0.00
6,100.0	12.16	236.78	6,090.7	-59.7	-91.1	-54.4	0.00	0.00	0.00
6,200.0	12.16	236.78	6,188.4	-71.2	-108.7	-64.9	0.00	0.00	0.00
6,300.0	12.16	236.78	6,286.2	-82.8	-126.4	-75.5	0.00	0.00	0.00
6,329.5	12.16	236.78	6,315.0	-86.2	-131.5	-78.6	0.00	0.00	0.00
Cherry Canyon									
6,400.0	12.16	236.78	6,384.0	-94.3	-144.0	-86.0	0.00	0.00	0.00
6,500.0	12.16	236.78	6,481.7	-105.8	-161.6	-96.5	0.00	0.00	0.00
6,600.0	12.16	236.78	6,579.5	-117.4	-179.2	-107.0	0.00	0.00	0.00
6,700.0	12.16	236.78	6,677.2	-128.9	-196.8	-117.5	0.00	0.00	0.00
6,800.0	12.16	236.78	6,775.0	-140.5	-214.5	-128.1	0.00	0.00	0.00
6,900.0	12.16	236.78	6,872.7	-152.0	-232.1	-138.6	0.00	0.00	0.00
7,000.0	12.16	236.78	6,970.5	-163.5	-249.7	-149.1	0.00	0.00	0.00
7,100.0	12.16	236.78	7,068.3	-175.1	-267.3	-159.6	0.00	0.00	0.00
7,200.0	12.16	236.78	7,166.0	-186.6	-284.9	-170.2	0.00	0.00	0.00
7,300.0	12.16	236.78	7,263.8	-198.2	-302.5	-180.7	0.00	0.00	0.00
7,400.0	12.16	236.78	7,361.5	-209.7	-320.2	-191.2	0.00	0.00	0.00
7,485.1	12.16	236.78	7,444.8	-219.5	-335.2	-200.2	0.00	0.00	0.00
7,500.0	11.71	236.78	7,459.3	-221.2	-337.7	-201.7	3.00	-3.00	0.00
7,600.0	8.71	236.78	7,557.7	-230.9	-352.6	-210.5	3.00	-3.00	0.00
7,700.0	5.71	236.78	7,656.9	-237.8	-363.1	-216.8	3.00	-3.00	0.00
7,800.0	2.71	236.78	7,756.6	-241.8	-369.2	-220.5	3.00	-3.00	0.00
7,890.4	0.00	0.00	7,847.0	-243.0	-371.0	-221.6	3.00	-3.00	0.00
Brushy Canyon									
7,900.0	0.00	0.00	7,856.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,956.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,056.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,156.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,256.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,356.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,456.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,556.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,656.6	-243.0	-371.0	-221.6	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Philly 31 Fed Com
 Well: #703H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3390.0usft (H&P 642)
 MD Reference: KB = 25' @ 3390.0usft (H&P 642)
 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)
8,800.0	0.00	0.00	8,756.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,856.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,956.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,056.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,156.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,256.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,356.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,456.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,543.4	0.00	0.00	9,500.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
Bone Spring Lime									
9,600.0	0.00	0.00	9,556.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,614.4	0.00	0.00	9,571.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
Leonard A									
9,700.0	0.00	0.00	9,656.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,756.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,856.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,956.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,056.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,156.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,256.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,356.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,456.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,559.4	0.00	0.00	10,516.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
First Bone Spring Sand									
10,600.0	0.00	0.00	10,556.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,673.4	0.00	0.00	10,630.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
SBSG Shale									
10,700.0	0.00	0.00	10,656.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,756.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,856.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,956.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,099.4	0.00	0.00	11,056.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
SBSG Sand									
11,100.0	0.00	0.00	11,056.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,156.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,256.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,356.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,456.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,580.4	0.00	0.00	11,537.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
Third Bone Spring Carb									
11,600.0	0.00	0.00	11,556.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,656.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,756.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,856.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,956.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
12,100.0	0.00	0.00	12,056.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
12,150.4	0.00	0.00	12,107.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
Third Bone Spring Sand									
12,200.0	0.00	0.00	12,156.6	-243.0	-371.0	-221.6	0.00	0.00	0.00
12,296.4	0.00	0.00	12,253.0	-243.0	-371.0	-221.6	0.00	0.00	0.00
12,300.0	0.43	359.63	12,256.6	-243.0	-371.0	-221.6	12.00	12.00	0.00
12,325.0	3.43	359.63	12,281.6	-242.1	-371.0	-220.7	12.00	12.00	0.00
12,350.0	6.43	359.63	12,306.5	-240.0	-371.0	-218.6	12.00	12.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3390.0usft (H&P 642)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3390.0usft (H&P 642)
Site:	Philly 31 Fed Com	North Reference:	Grid
Well:	#703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,375.0	9.43	359.63	12,331.2	-236.5	-371.0	-215.1	12.00	12.00	0.00	
12,400.0	12.43	359.63	12,355.8	-231.8	-371.1	-210.4	12.00	12.00	0.00	
12,425.0	15.43	359.63	12,380.0	-225.8	-371.1	-204.4	12.00	12.00	0.00	
12,450.0	18.43	359.63	12,404.0	-218.5	-371.2	-197.1	12.00	12.00	0.00	
12,475.0	21.43	359.63	12,427.5	-210.0	-371.2	-188.6	12.00	12.00	0.00	
12,500.0	24.43	359.63	12,450.5	-200.3	-371.3	-178.9	12.00	12.00	0.00	
12,525.0	27.43	359.63	12,473.0	-189.3	-371.3	-167.9	12.00	12.00	0.00	
12,550.0	30.43	359.63	12,494.8	-177.2	-371.4	-155.9	12.00	12.00	0.00	
12,575.0	33.43	359.63	12,516.0	-164.0	-371.5	-142.7	12.00	12.00	0.00	
12,600.0	36.43	359.63	12,536.5	-149.7	-371.6	-128.4	12.00	12.00	0.00	
12,624.7	39.39	359.63	12,556.0	-134.5	-371.7	-113.2	12.00	12.00	0.00	
Wolfcamp										
12,625.0	39.43	359.63	12,556.3	-134.3	-371.7	-113.0	12.00	12.00	0.00	
12,650.0	42.43	359.63	12,575.1	-118.0	-371.8	-95.7	12.00	12.00	0.00	
12,663.5	44.05	359.63	12,585.0	-108.7	-371.9	-87.4	12.00	12.00	0.00	
Wfmp Clastics X										
12,675.0	45.43	359.63	12,593.1	-100.6	-371.9	-79.3	12.00	12.00	0.00	
12,700.0	48.43	359.63	12,610.2	-82.4	-372.0	-61.1	12.00	12.00	0.00	
12,725.0	51.43	359.63	12,626.3	-63.2	-372.2	-42.0	12.00	12.00	0.00	
12,750.0	54.43	359.63	12,641.4	-43.3	-372.3	-22.1	12.00	12.00	0.00	
12,775.0	57.43	359.63	12,655.4	-22.6	-372.4	-1.4	12.00	12.00	0.00	
12,800.0	60.43	359.63	12,668.3	-1.2	-372.6	20.0	12.00	12.00	0.00	
12,825.0	63.43	359.63	12,680.0	20.9	-372.7	42.0	12.00	12.00	0.00	
12,843.5	65.65	359.63	12,688.0	37.6	-372.8	58.7	12.00	12.00	0.00	
Wfmp Clastics Y										
12,850.0	66.43	359.63	12,690.6	43.5	-372.8	64.6	12.00	12.00	0.00	
12,875.0	69.43	359.63	12,700.0	66.7	-373.0	87.6	12.00	12.00	0.00	
12,900.0	72.43	359.63	12,708.2	90.3	-373.1	111.4	12.00	12.00	0.00	
12,925.0	75.43	359.63	12,715.1	114.3	-373.3	135.3	12.00	12.00	0.00	
12,941.6	77.42	359.63	12,719.0	130.5	-373.4	151.4	12.00	12.00	0.00	
Wolfcamp Y TOW										
12,950.0	78.43	359.63	12,720.8	138.7	-373.5	159.7	12.00	12.00	0.00	
12,975.0	81.43	359.63	12,725.1	163.3	-373.6	184.2	12.00	12.00	0.00	
13,000.0	84.43	359.63	12,728.2	188.1	-373.8	209.0	12.00	12.00	0.00	
13,025.0	87.43	359.63	12,730.0	213.0	-373.9	233.9	12.00	12.00	0.00	
13,044.9	89.82	359.63	12,730.5	232.9	-374.1	253.8	12.00	12.00	0.00	
13,100.0	89.82	359.63	12,730.6	288.0	-374.4	308.8	0.00	0.00	0.00	
13,200.0	89.82	359.63	12,731.0	388.0	-375.1	408.7	0.00	0.00	0.00	
13,300.0	89.82	359.63	12,731.3	488.0	-375.7	508.6	0.00	0.00	0.00	
13,400.0	89.82	359.63	12,731.6	588.0	-376.3	608.4	0.00	0.00	0.00	
13,500.0	89.82	359.63	12,731.9	688.0	-377.0	708.3	0.00	0.00	0.00	
13,600.0	89.82	359.63	12,732.3	788.0	-377.6	808.2	0.00	0.00	0.00	
13,700.0	89.82	359.63	12,732.6	888.0	-378.3	908.1	0.00	0.00	0.00	
13,800.0	89.82	359.63	12,732.9	988.0	-378.9	1,007.9	0.00	0.00	0.00	
13,900.0	89.82	359.63	12,733.2	1,088.0	-379.5	1,107.6	0.00	0.00	0.00	
14,000.0	89.82	359.63	12,733.5	1,188.0	-380.2	1,207.7	0.00	0.00	0.00	
14,100.0	89.82	359.63	12,733.9	1,288.0	-380.8	1,307.5	0.00	0.00	0.00	
14,142.5	89.82	359.63	12,734.0	1,330.5	-381.1	1,350.0	0.00	0.00	0.00	
14,145.3	89.87	359.63	12,734.0	1,333.3	-381.1	1,352.8	2.00	2.00	-0.03	
14,200.0	89.87	359.63	12,734.1	1,388.0	-381.5	1,407.4	0.00	0.00	0.00	
14,300.0	89.87	359.63	12,734.4	1,488.0	-382.1	1,507.3	0.00	0.00	0.00	
14,400.0	89.87	359.63	12,734.6	1,588.0	-382.8	1,607.2	0.00	0.00	0.00	
14,500.0	89.87	359.63	12,734.8	1,688.0	-383.4	1,707.0	0.00	0.00	0.00	
14,600.0	89.87	359.63	12,735.0	1,788.0	-384.0	1,806.9	0.00	0.00	0.00	

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MD Reference: KB = 25' @ 3390.0usft (H&P 642)
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	89.87	359.63	12,735.3	1,888.0	-384.7	1,906.8	0.00	0.00	0.00
14,800.0	89.87	359.63	12,735.5	1,968.0	-385.3	2,006.7	0.00	0.00	0.00
14,900.0	89.87	359.63	12,735.7	2,088.0	-386.0	2,106.5	0.00	0.00	0.00
15,000.0	89.87	359.63	12,735.9	2,188.0	-386.6	2,206.4	0.00	0.00	0.00
15,100.0	89.87	359.63	12,736.2	2,288.0	-387.3	2,306.3	0.00	0.00	0.00
15,200.0	89.87	359.63	12,736.4	2,388.0	-387.9	2,406.2	0.00	0.00	0.00
15,300.0	89.87	359.63	12,736.6	2,488.0	-388.5	2,506.0	0.00	0.00	0.00
15,400.0	89.87	359.63	12,736.8	2,588.0	-389.2	2,605.9	0.00	0.00	0.00
15,500.0	89.87	359.63	12,737.1	2,688.0	-389.8	2,705.8	0.00	0.00	0.00
15,600.0	89.87	359.63	12,737.3	2,788.0	-390.5	2,805.6	0.00	0.00	0.00
15,700.0	89.87	359.63	12,737.5	2,888.0	-391.1	2,905.5	0.00	0.00	0.00
15,800.0	89.87	359.63	12,737.7	2,988.0	-391.8	3,005.4	0.00	0.00	0.00
15,900.0	89.87	359.63	12,738.0	3,088.0	-392.4	3,105.3	0.00	0.00	0.00
16,000.0	89.87	359.63	12,738.2	3,188.0	-393.0	3,205.1	0.00	0.00	0.00
16,100.0	89.87	359.63	12,738.4	3,288.0	-393.7	3,305.0	0.00	0.00	0.00
16,200.0	89.87	359.63	12,738.6	3,388.0	-394.3	3,404.9	0.00	0.00	0.00
16,300.0	89.87	359.63	12,738.9	3,488.0	-395.0	3,504.8	0.00	0.00	0.00
16,365.3	89.87	359.63	12,739.0	3,553.3	-395.4	3,570.0	0.00	0.00	0.00
16,367.8	89.92	359.63	12,739.0	3,555.8	-395.4	3,572.5	2.00	2.00	0.06
16,400.0	89.92	359.63	12,739.0	3,588.0	-395.6	3,604.6	0.00	0.00	0.00
16,500.0	89.92	359.63	12,739.2	3,688.0	-396.3	3,704.5	0.00	0.00	0.00
16,600.0	89.92	359.63	12,739.3	3,788.0	-396.9	3,804.4	0.00	0.00	0.00
16,700.0	89.92	359.63	12,739.5	3,888.0	-397.5	3,904.2	0.00	0.00	0.00
16,800.0	89.92	359.63	12,739.6	3,988.0	-398.2	4,004.1	0.00	0.00	0.00
16,900.0	89.92	359.63	12,739.7	4,087.9	-398.8	4,104.0	0.00	0.00	0.00
17,000.0	89.92	359.63	12,739.9	4,187.9	-399.5	4,203.9	0.00	0.00	0.00
17,100.0	89.92	359.63	12,740.0	4,287.9	-400.1	4,303.7	0.00	0.00	0.00
17,200.0	89.92	359.63	12,740.2	4,387.9	-400.7	4,403.6	0.00	0.00	0.00
17,300.0	89.92	359.63	12,740.3	4,487.9	-401.4	4,503.5	0.00	0.00	0.00
17,400.0	89.92	359.63	12,740.4	4,587.9	-402.0	4,603.4	0.00	0.00	0.00
17,500.0	89.92	359.63	12,740.6	4,687.9	-402.7	4,703.2	0.00	0.00	0.00
17,600.0	89.92	359.63	12,740.7	4,787.9	-403.3	4,803.1	0.00	0.00	0.00
17,700.0	89.92	359.63	12,740.8	4,887.9	-403.9	4,903.0	0.00	0.00	0.00
17,800.0	89.92	359.63	12,741.0	4,987.9	-404.6	5,002.9	0.00	0.00	0.00
17,817.2	89.92	359.63	12,741.0	5,005.1	-404.7	5,020.0	0.00	0.00	0.00
17,832.7	90.23	359.63	12,741.0	5,020.7	-404.8	5,035.5	2.00	2.00	0.00
17,900.0	90.23	359.63	12,740.7	5,087.9	-405.2	5,102.7	0.00	0.00	0.00
18,000.0	90.23	359.63	12,740.3	5,187.9	-405.9	5,202.6	0.00	0.00	0.00
18,100.0	90.23	359.63	12,739.9	5,287.9	-406.5	5,302.5	0.00	0.00	0.00
18,200.0	90.23	359.63	12,739.5	5,387.9	-407.2	5,402.3	0.00	0.00	0.00
18,300.0	90.23	359.63	12,739.1	5,487.9	-407.8	5,502.2	0.00	0.00	0.00
18,400.0	90.23	359.63	12,738.7	5,587.9	-408.4	5,602.1	0.00	0.00	0.00
18,500.0	90.23	359.63	12,738.3	5,687.9	-409.1	5,702.0	0.00	0.00	0.00
18,600.0	90.23	359.63	12,737.9	5,787.9	-409.7	5,801.8	0.00	0.00	0.00
18,700.0	90.23	359.63	12,737.5	5,887.9	-410.4	5,901.7	0.00	0.00	0.00
18,800.0	90.23	359.63	12,737.1	5,987.9	-411.0	6,001.6	0.00	0.00	0.00
18,900.0	90.23	359.63	12,736.6	6,087.9	-411.6	6,101.4	0.00	0.00	0.00
19,000.0	90.23	359.63	12,736.2	6,187.9	-412.3	6,201.3	0.00	0.00	0.00
19,100.0	90.23	359.63	12,735.8	6,287.9	-412.9	6,301.2	0.00	0.00	0.00
19,200.0	90.23	359.63	12,735.4	6,387.9	-413.6	6,401.1	0.00	0.00	0.00
19,300.0	90.23	359.63	12,735.0	6,487.9	-414.2	6,500.9	0.00	0.00	0.00
19,400.0	90.23	359.63	12,734.6	6,587.9	-414.9	6,600.8	0.00	0.00	0.00
19,500.0	90.23	359.63	12,734.2	6,687.9	-415.5	6,700.7	0.00	0.00	0.00
19,600.0	90.23	359.63	12,733.8	6,787.9	-416.1	6,800.6	0.00	0.00	0.00

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Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3390.0usft (H&P 642)
 MD Reference: KB = 25' @ 3390.0usft (H&P 642)
 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)
19,700.0	90.23	359.63	12,733.4	6,887.9	-416.8	6,900.4	0.00	0.00	0.00
19,799.7	90.23	359.63	12,733.0	6,987.6	-417.4	7,000.0	0.00	0.00	0.00
19,809.6	90.43	359.63	12,732.9	6,997.5	-417.5	7,009.9	2.00	2.00	0.00
19,900.0	90.43	359.63	12,732.3	7,087.9	-418.1	7,100.2	0.00	0.00	0.00
20,000.0	90.43	359.63	12,731.5	7,187.9	-418.7	7,200.0	0.00	0.00	0.00
20,100.0	90.43	359.63	12,730.8	7,287.9	-419.3	7,299.9	0.00	0.00	0.00
20,202.1	90.43	359.63	12,730.0	7,390.0	-420.0	7,401.9	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Brushy Top (Philly 31 Fe - plan hits target center - Polygon Point 1 Point 2 Point 3 Point 4	0.00	0.00	7,847.0	-243.0	-371.0	364,853.00	795,884.00	32° 0' 1.453 N	103° 30' 43.894 W
FTP (Philly 31 Fed Com - plan misses target center by 163.1usft at 12700.0usft MD (12610.2 TVD, -82.4 N, -372.0 E) - Point	0.00	0.00	12,730.0	-193.0	-369.0	364,903.00	795,886.00	32° 0' 1.948 N	103° 30' 43.856 W
PBHL (Philly 31 Fed Cor - plan hits target center - Rectangle (sides W60.0 H0.0 D7,583.0)	90.00	359.62	12,730.0	7,390.0	-420.0	372,486.00	795,835.00	32° 1' 16.988 N	103° 30' 43.790 W
TGT #4 (Philly 31 Fed Cc - plan hits target center - Point	0.00	0.00	12,733.0	6,987.6	-417.4	372,083.60	795,837.58	32° 1' 13.006 N	103° 30' 43.795 W
TGT #1 (Philly 31 Fed Cc - plan hits target center - Point	0.00	0.00	12,734.0	1,330.5	-381.1	366,426.50	795,873.90	32° 0' 17.024 N	103° 30' 43.873 W
TGT #2 (Philly 31 Fed Cc - plan hits target center - Point	0.00	0.00	12,739.0	3,553.3	-395.4	368,649.30	795,859.60	32° 0' 39.021 N	103° 30' 43.843 W
TGT #3 (Philly 31 Fed Cc - plan hits target center - Point	0.00	0.00	12,741.0	5,005.1	-404.7	370,101.10	795,850.30	32° 0' 53.388 N	103° 30' 43.822 W

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North Reference: Grid
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Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
829.0	829.0	Rustler				
920.0	920.0	Tamarisk Anhydrite				
994.0	994.0	Top of Salt				
5,081.0	5,081.0	Bottom of Salt				
5,315.0	5,315.0	Lamar				
5,340.0	5,340.0	Bell Canyon				
6,329.5	6,315.0	Cherry Canyon				
7,890.4	7,847.0	Brushy Canyon				
9,543.4	9,500.0	Bone Spring Lime				
9,614.4	9,571.0	Leonard A				
10,559.4	10,516.0	First Bone Spring Sand				
10,673.4	10,630.0	SBSG Shale				
11,099.4	11,056.0	SBSG Sand				
11,580.4	11,537.0	Third Bone Spring Carb				
12,150.4	12,107.0	Third Bone Spring Sand				
12,624.7	12,556.0	Wolfcamp				
12,663.5	12,585.0	Wfmp Clastics X				
12,843.5	12,688.0	Wfmp Clastics Y				
12,941.6	12,719.0	Wolfcamp Y TOW				