

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.
NMNM26079

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
STREETCAR 15 FED 1H

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

9. API Well No.

30-025-42860-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3689

10. Field and Pool or Exploratory Area

RED HILLS-BONE SPRING, NORTH

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

Sec 15 T25S R33E SWSW 250FSL 530FWL

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 APD
	☐ 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 recompleting 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 recompleting 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 in BHL, TVD, casing and well name/number.

Change BHL to: 100' FNL & 330' FWL NWNW-15-25S-33E

Change TVD to: 12262' 3rd Bone Spring Sand target

Change casing as attached.

Change well name/number to: Streetcar 15 Fed 606H

HOBBS OCD

SEP 13 2018

SEE ATTACHED FOR
CONDITIONS OF APPROVAL **RECEIVED**

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

Electronic Submission #431588 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 08/17/2018 (18PP1702SE)

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/16/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By /s/ Zota Stevens

Petroleum Engineer
Carlsbad Field Office
Office

Date 8/20/18

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.

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 ****

Revised Permit Information 8/9/18:

Well Name: Streetcar 15 Fed No. 606H

Location:

SL: 250' FSL & 530' FWL, Section 15, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 330' FWL, Section 15, T-25-S, R-33-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 – 1,160'	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' – 4,900'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 – 11,300'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 – 10,800'	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	0'-17,192'	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
1,160'	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)
4,900'	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
11,300'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,400')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,192'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800')

Mud Program:

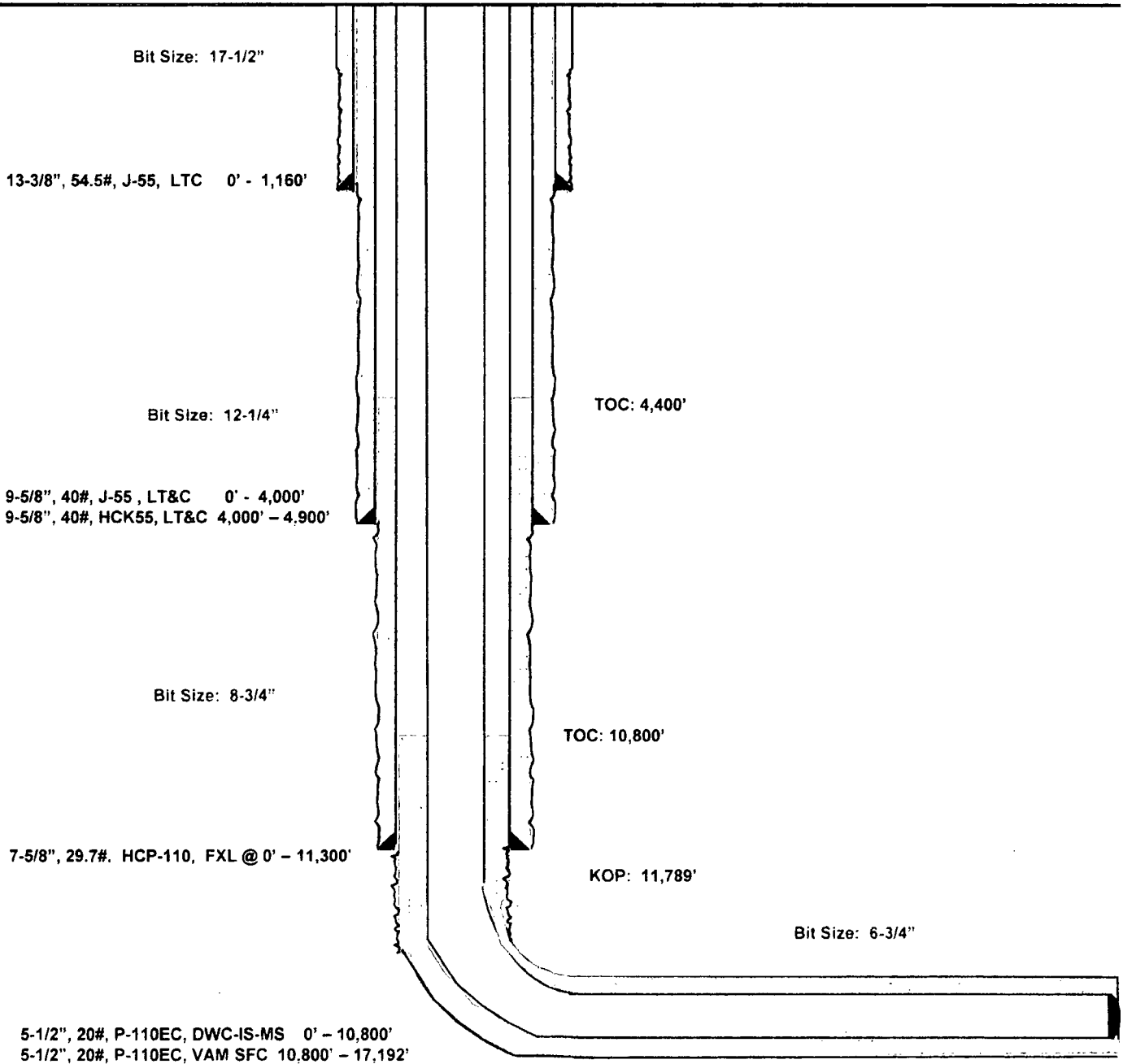
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,160'	Fresh - Gel	8.6-8.8	28-34	N/c
1,160' – 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' – 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' – 17,192' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Streetcar 15 Fed #606H
Lea County, New Mexico

250' FSL
530' FWL
Section 15
T-25-S, R-33-E

Proposed Wellbore
Revised 8/9/18
API: 30-025-42860

KB: 3,395'
GL: 3,370'



Lateral: 17,192' MD, 12,262' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 15
Lower Most Perf:
100' FNL & 330' FWL Sec. 15
BH Location: 100' FNL & 330' FWL
Section 15
T-25-S, R-33-E



Lea County, NM (NAD 83 NME)

Streetcar 15 Fed #606H

Plan #0.1

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: #606H

KB = 25 @ 3395.0usR
Northing 409687.00 Easting 778552.00
Latitude 32° 7' 26.363 N Longitude 103° 34' 1.462 W

SECTION DETAILS

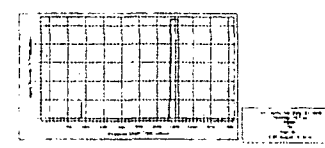
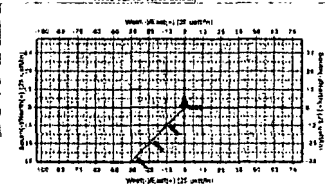
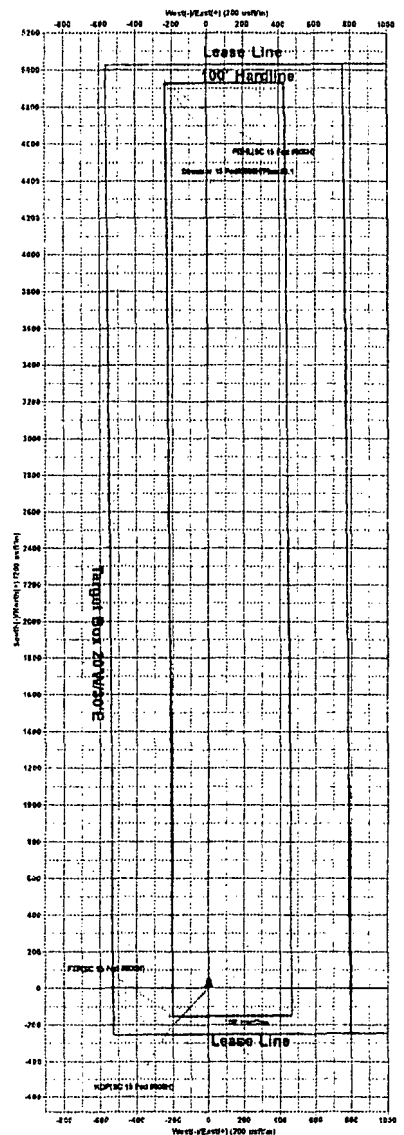
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSec1	Target
1	6.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3093.2	1.86	224.71	3093.2	-1.1	-1.1	2.00	224.71	-1.0	
4	11695.9	1.86	224.71	11691.3	-199.9	-197.9	0.00	0.00	-100.4	
5	11789.1	0.00	0.00	11784.5	-201.0	-199.0	2.00	180.00	-191.4	KOP(SC 15 Fed #606H)
6	12539.1	90.00	359.62	12262.0	276.5	-202.2	12.00	359.62	285.7	
7	17191.7	90.00	359.62	12262.0	4929.0	-233.0	0.00	0.00	4934.5	PBLH(SC 15 Fed #606H)

CATING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(SC 15 Fed #606H)	11784.5	-201.0	-199.0	409686.00	778352.00
PBLH(SC 15 Fed #606H)	12262.0	4929.0	-233.0	414616.00	778319.00
FTM(SC 15 Fed #606H)	12262.0	-191.0	-199.0	409536.00	778383.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Streetcar 15 Fed

#606H

OH

Plan: Plan #0.1

Standard Planning Report

15 August, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #606H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
TVD Reference: KB = 25 @ 3395.0usft
MD Reference: KB = 25 @ 3395.0usft
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	Streetcar 15 Fed			
Site Position:		Northing:	409,714.00 usft	Latitude: 32° 7' 26.337 N
From:	Map	Easting:	782,680.00 usft	Longitude: 103° 33' 13.460 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	#606H			
Well Position	+N/-S	-27.0 usft	Northing: 409,687.00 usft	Latitude: 32° 7' 26.363 N
	+E/-W	-4,128.0 usft	Easting: 778,552.00 usft	Longitude: 103° 34' 1.462 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 3,370.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	8/15/2018	(°)	(°)	(nT)
			6.82	59.96	47,760.22991780

Design	Plan #0.1			
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	357.29

Plan Survey Tool Program	Date	8/15/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1 0.0	17,191.7	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,093.2	1.86	224.71	3,093.2	-1.1	-1.1	2.00	2.00	0.00	224.71	
11,695.9	1.86	224.71	11,691.3	-199.9	-197.9	0.00	0.00	0.00	0.00	
11,789.1	0.00	0.00	11,784.5	-201.0	-199.0	2.00	-2.00	0.00	180.00	KOP(SC 15 Fed #606
12,539.1	90.00	359.62	12,262.0	276.5	-202.2	12.00	12.00	-0.05	359.62	
17,191.7	90.00	359.62	12,262.0	4,929.0	-233.0	0.00	0.00	0.00	0.00	PBHL(SC 15 Fed #60



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #606H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
 TVD Reference: KB = 25 @ 3395.0usft
 MD Reference: KB = 25 @ 3395.0usft
 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
3,093.2	1.86	224.71	3,093.2	-1.1	-1.1	-1.0	2.00	2.00	0.00
3,100.0	1.86	224.71	3,100.0	-1.2	-1.2	-1.2	0.00	0.00	0.00
3,200.0	1.86	224.71	3,199.9	-3.5	-3.5	-3.4	0.00	0.00	0.00
3,300.0	1.86	224.71	3,299.9	-5.9	-5.8	-5.6	0.00	0.00	0.00
3,400.0	1.86	224.71	3,399.8	-8.2	-8.1	-7.8	0.00	0.00	0.00
3,500.0	1.86	224.71	3,499.8	-10.5	-10.4	-10.0	0.00	0.00	0.00
3,600.0	1.86	224.71	3,599.7	-12.8	-12.7	-12.2	0.00	0.00	0.00
3,700.0	1.86	224.71	3,699.7	-15.1	-15.0	-14.4	0.00	0.00	0.00
3,800.0	1.86	224.71	3,799.6	-17.4	-17.2	-16.6	0.00	0.00	0.00
3,900.0	1.86	224.71	3,899.6	-19.7	-19.5	-18.8	0.00	0.00	0.00
4,000.0	1.86	224.71	3,999.5	-22.0	-21.8	-21.0	0.00	0.00	0.00
4,100.0	1.86	224.71	4,099.5	-24.3	-24.1	-23.2	0.00	0.00	0.00
4,200.0	1.86	224.71	4,199.4	-26.7	-26.4	-25.4	0.00	0.00	0.00
4,300.0	1.86	224.71	4,299.3	-29.0	-28.7	-27.6	0.00	0.00	0.00
4,400.0	1.86	224.71	4,399.3	-31.3	-31.0	-29.8	0.00	0.00	0.00
4,500.0	1.86	224.71	4,499.2	-33.6	-33.3	-32.0	0.00	0.00	0.00
4,600.0	1.86	224.71	4,599.2	-35.9	-35.5	-34.2	0.00	0.00	0.00
4,700.0	1.86	224.71	4,699.1	-38.2	-37.8	-36.4	0.00	0.00	0.00
4,800.0	1.86	224.71	4,799.1	-40.5	-40.1	-38.6	0.00	0.00	0.00
4,900.0	1.86	224.71	4,899.0	-42.8	-42.4	-40.8	0.00	0.00	0.00
5,000.0	1.86	224.71	4,999.0	-45.2	-44.7	-43.0	0.00	0.00	0.00
5,100.0	1.86	224.71	5,098.9	-47.5	-47.0	-45.2	0.00	0.00	0.00
5,200.0	1.86	224.71	5,198.9	-49.8	-49.3	-47.4	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #606H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
 TVD Reference: KB = 25 @ 3395.0usft
 MD Reference: KB = 25 @ 3395.0usft
 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	1.86	224.71	5,298.8	-52.1	-51.6	-49.6	0.00	0.00	0.00
5,400.0	1.86	224.71	5,398.8	-54.4	-53.9	-51.8	0.00	0.00	0.00
5,500.0	1.86	224.71	5,498.7	-56.7	-56.1	-54.0	0.00	0.00	0.00
5,600.0	1.86	224.71	5,598.7	-59.0	-58.4	-56.2	0.00	0.00	0.00
5,700.0	1.86	224.71	5,698.6	-61.3	-60.7	-58.4	0.00	0.00	0.00
5,800.0	1.86	224.71	5,798.6	-63.6	-63.0	-60.6	0.00	0.00	0.00
5,900.0	1.86	224.71	5,898.5	-66.0	-65.3	-62.8	0.00	0.00	0.00
6,000.0	1.86	224.71	5,998.4	-68.3	-67.6	-65.0	0.00	0.00	0.00
6,100.0	1.86	224.71	6,098.4	-70.6	-69.9	-67.2	0.00	0.00	0.00
6,200.0	1.86	224.71	6,198.3	-72.9	-72.2	-69.4	0.00	0.00	0.00
6,300.0	1.86	224.71	6,298.3	-75.2	-74.5	-71.6	0.00	0.00	0.00
6,400.0	1.86	224.71	6,398.2	-77.5	-76.7	-73.8	0.00	0.00	0.00
6,500.0	1.86	224.71	6,498.2	-79.8	-79.0	-76.0	0.00	0.00	0.00
6,600.0	1.86	224.71	6,598.1	-82.1	-81.3	-78.2	0.00	0.00	0.00
6,700.0	1.86	224.71	6,698.1	-84.4	-83.6	-80.4	0.00	0.00	0.00
6,800.0	1.86	224.71	6,798.0	-86.8	-85.9	-82.6	0.00	0.00	0.00
6,900.0	1.86	224.71	6,898.0	-89.1	-88.2	-84.8	0.00	0.00	0.00
7,000.0	1.86	224.71	6,997.9	-91.4	-90.5	-87.0	0.00	0.00	0.00
7,100.0	1.86	224.71	7,097.9	-93.7	-92.8	-89.2	0.00	0.00	0.00
7,200.0	1.86	224.71	7,197.8	-96.0	-95.0	-91.4	0.00	0.00	0.00
7,300.0	1.86	224.71	7,297.8	-98.3	-97.3	-93.6	0.00	0.00	0.00
7,400.0	1.86	224.71	7,397.7	-100.6	-99.6	-95.8	0.00	0.00	0.00
7,500.0	1.86	224.71	7,497.7	-102.9	-101.9	-98.0	0.00	0.00	0.00
7,600.0	1.86	224.71	7,597.6	-105.2	-104.2	-100.2	0.00	0.00	0.00
7,700.0	1.86	224.71	7,697.5	-107.6	-106.5	-102.4	0.00	0.00	0.00
7,800.0	1.86	224.71	7,797.5	-109.9	-108.8	-104.6	0.00	0.00	0.00
7,900.0	1.86	224.71	7,897.4	-112.2	-111.1	-106.8	0.00	0.00	0.00
8,000.0	1.86	224.71	7,997.4	-114.5	-113.4	-109.0	0.00	0.00	0.00
8,100.0	1.86	224.71	8,097.3	-116.8	-115.6	-111.2	0.00	0.00	0.00
8,200.0	1.86	224.71	8,197.3	-119.1	-117.9	-113.4	0.00	0.00	0.00
8,300.0	1.86	224.71	8,297.2	-121.4	-120.2	-115.6	0.00	0.00	0.00
8,400.0	1.86	224.71	8,397.2	-123.7	-122.5	-117.8	0.00	0.00	0.00
8,500.0	1.86	224.71	8,497.1	-126.1	-124.8	-120.0	0.00	0.00	0.00
8,600.0	1.86	224.71	8,597.1	-128.4	-127.1	-122.2	0.00	0.00	0.00
8,700.0	1.86	224.71	8,697.0	-130.7	-129.4	-124.4	0.00	0.00	0.00
8,800.0	1.86	224.71	8,797.0	-133.0	-131.7	-126.6	0.00	0.00	0.00
8,900.0	1.86	224.71	8,896.9	-135.3	-134.0	-128.8	0.00	0.00	0.00
9,000.0	1.86	224.71	8,996.9	-137.6	-136.2	-131.0	0.00	0.00	0.00
9,100.0	1.86	224.71	9,096.8	-139.9	-138.5	-133.2	0.00	0.00	0.00
9,200.0	1.86	224.71	9,196.8	-142.2	-140.8	-135.4	0.00	0.00	0.00
9,300.0	1.86	224.71	9,296.7	-144.5	-143.1	-137.6	0.00	0.00	0.00
9,400.0	1.86	224.71	9,396.6	-146.9	-145.4	-139.8	0.00	0.00	0.00
9,500.0	1.86	224.71	9,496.6	-149.2	-147.7	-142.0	0.00	0.00	0.00
9,600.0	1.86	224.71	9,596.5	-151.5	-150.0	-144.2	0.00	0.00	0.00
9,700.0	1.86	224.71	9,696.5	-153.8	-152.3	-146.4	0.00	0.00	0.00
9,800.0	1.86	224.71	9,796.4	-156.1	-154.5	-148.6	0.00	0.00	0.00
9,900.0	1.86	224.71	9,896.4	-158.4	-156.8	-150.8	0.00	0.00	0.00
10,000.0	1.86	224.71	9,996.3	-160.7	-159.1	-153.0	0.00	0.00	0.00
10,100.0	1.86	224.71	10,096.3	-163.0	-161.4	-155.2	0.00	0.00	0.00
10,200.0	1.86	224.71	10,196.2	-165.3	-163.7	-157.4	0.00	0.00	0.00
10,300.0	1.86	224.71	10,296.2	-167.7	-166.0	-159.6	0.00	0.00	0.00
10,400.0	1.86	224.71	10,396.1	-170.0	-168.3	-161.8	0.00	0.00	0.00
10,500.0	1.86	224.71	10,496.1	-172.3	-170.6	-164.0	0.00	0.00	0.00
10,600.0	1.86	224.71	10,596.0	-174.6	-172.9	-166.2	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #606H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
 TVD Reference: KB = 25 @ 3395.0usft
 MD Reference: KB = 25 @ 3395.0usft
 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	1.86	224.71	10,696.0	-176.9	-175.1	-168.4	0.00	0.00	0.00
10,800.0	1.86	224.71	10,795.9	-179.2	-177.4	-170.6	0.00	0.00	0.00
10,900.0	1.86	224.71	10,895.9	-181.5	-179.7	-172.8	0.00	0.00	0.00
11,000.0	1.86	224.71	10,995.8	-183.8	-182.0	-175.0	0.00	0.00	0.00
11,100.0	1.86	224.71	11,095.7	-186.1	-184.3	-177.2	0.00	0.00	0.00
11,200.0	1.86	224.71	11,195.7	-188.5	-186.6	-179.4	0.00	0.00	0.00
11,300.0	1.86	224.71	11,295.6	-190.8	-188.9	-181.6	0.00	0.00	0.00
11,400.0	1.86	224.71	11,395.6	-193.1	-191.2	-183.8	0.00	0.00	0.00
11,500.0	1.86	224.71	11,495.5	-195.4	-193.5	-186.0	0.00	0.00	0.00
11,600.0	1.86	224.71	11,595.5	-197.7	-195.7	-188.2	0.00	0.00	0.00
11,695.9	1.86	224.71	11,691.3	-199.9	-197.9	-190.4	0.00	0.00	0.00
11,700.0	1.78	224.71	11,695.4	-200.0	-198.0	-190.4	2.00	-2.00	0.00
11,789.1	0.00	0.00	11,784.5	-201.0	-199.0	-191.4	2.00	-2.00	0.00
KOP(SC 15 Fed #606H)									
11,800.0	1.31	359.62	11,795.4	-200.9	-199.0	-191.3	12.00	12.00	0.00
11,825.0	4.31	359.62	11,820.4	-199.6	-199.0	-190.0	12.00	12.00	0.00
11,850.0	7.31	359.62	11,845.2	-197.1	-199.0	-187.5	12.00	12.00	0.00
11,875.0	10.31	359.62	11,870.0	-193.3	-199.1	-183.7	12.00	12.00	0.00
11,900.0	13.31	359.62	11,894.4	-188.2	-199.1	-178.6	12.00	12.00	0.00
11,925.0	16.31	359.62	11,918.6	-181.8	-199.1	-172.2	12.00	12.00	0.00
11,950.0	19.31	359.62	11,942.4	-174.1	-199.2	-164.5	12.00	12.00	0.00
11,975.0	22.31	359.62	11,965.8	-165.3	-199.2	-155.7	12.00	12.00	0.00
12,000.0	25.31	359.62	11,988.6	-155.2	-199.3	-145.6	12.00	12.00	0.00
12,025.0	28.31	359.62	12,010.9	-143.9	-199.4	-134.3	12.00	12.00	0.00
12,050.0	31.31	359.62	12,032.6	-131.5	-199.5	-121.9	12.00	12.00	0.00
12,075.0	34.31	359.62	12,053.6	-117.9	-199.6	-108.4	12.00	12.00	0.00
12,100.0	37.31	359.62	12,073.9	-103.3	-199.6	-93.8	12.00	12.00	0.00
12,125.0	40.31	359.62	12,093.4	-87.6	-199.8	-78.1	12.00	12.00	0.00
12,150.0	43.31	359.62	12,112.0	-71.0	-199.9	-61.5	12.00	12.00	0.00
12,175.0	46.31	359.62	12,129.7	-53.4	-200.0	-43.8	12.00	12.00	0.00
12,191.5	48.29	359.62	12,140.9	-41.2	-200.1	-31.8	12.00	12.00	0.00
FTP(SC 15 Fed #606H)									
12,200.0	49.31	359.62	12,146.5	-34.8	-200.1	-25.3	12.00	12.00	0.00
12,225.0	52.31	359.62	12,162.3	-15.5	-200.2	-6.0	12.00	12.00	0.00
12,250.0	55.31	359.62	12,177.1	4.7	-200.4	14.2	12.00	12.00	0.00
12,275.0	58.31	359.62	12,190.6	25.6	-200.5	35.1	12.00	12.00	0.00
12,300.0	61.31	359.62	12,203.3	47.2	-200.6	56.7	12.00	12.00	0.00
12,325.0	64.31	359.62	12,214.8	69.5	-200.6	78.9	12.00	12.00	0.00
12,350.0	67.31	359.62	12,225.0	92.3	-200.9	101.7	12.00	12.00	0.00
12,375.0	70.31	359.62	12,234.0	115.6	-201.1	125.0	12.00	12.00	0.00
12,400.0	73.31	359.62	12,241.8	139.3	-201.3	148.7	12.00	12.00	0.00
12,425.0	76.31	359.62	12,248.4	163.5	-201.4	172.8	12.00	12.00	0.00
12,450.0	79.31	359.62	12,253.7	187.9	-201.6	197.2	12.00	12.00	0.00
12,475.0	82.31	359.62	12,257.7	212.6	-201.7	221.9	12.00	12.00	0.00
12,500.0	85.31	359.62	12,260.4	237.4	-201.9	246.7	12.00	12.00	0.00
12,525.0	88.31	359.62	12,261.8	262.4	-202.1	271.6	12.00	12.00	0.00
12,539.1	90.00	359.62	12,262.0	276.5	-202.2	285.7	12.00	12.00	0.00
12,600.0	90.00	359.62	12,262.0	337.4	-202.6	346.6	0.00	0.00	0.00
12,700.0	90.00	359.62	12,262.0	437.4	-203.2	446.5	0.00	0.00	0.00
12,800.0	90.00	359.62	12,262.0	537.4	-203.9	546.4	0.00	0.00	0.00
12,900.0	90.00	359.62	12,262.0	637.4	-204.6	646.3	0.00	0.00	0.00
13,000.0	90.00	359.62	12,262.0	737.4	-205.2	746.2	0.00	0.00	0.00
13,100.0	90.00	359.62	12,262.0	837.4	-205.9	846.1	0.00	0.00	0.00
13,200.0	90.00	359.62	12,262.0	937.4	-206.5	946.1	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Streetcar 15 Fed
 Well: #606H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
 TVD Reference: KB = 25 @ 3395.0usft
 MD Reference: KB = 25 @ 3395.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.0	90.00	359.62	12,262.0	1,037.4	-207.2	1,046.0	0.00	0.00	0.00
13,400.0	90.00	359.62	12,262.0	1,137.4	-207.9	1,145.9	0.00	0.00	0.00
13,500.0	90.00	359.62	12,262.0	1,237.3	-208.5	1,245.8	0.00	0.00	0.00
13,600.0	90.00	359.62	12,262.0	1,337.3	-209.2	1,345.7	0.00	0.00	0.00
13,700.0	90.00	359.62	12,262.0	1,437.3	-209.9	1,445.7	0.00	0.00	0.00
13,800.0	90.00	359.62	12,262.0	1,537.3	-210.5	1,545.6	0.00	0.00	0.00
13,900.0	90.00	359.62	12,262.0	1,637.3	-211.2	1,645.5	0.00	0.00	0.00
14,000.0	90.00	359.62	12,262.0	1,737.3	-211.8	1,745.4	0.00	0.00	0.00
14,100.0	90.00	359.62	12,262.0	1,837.3	-212.5	1,845.3	0.00	0.00	0.00
14,200.0	90.00	359.62	12,262.0	1,937.3	-213.2	1,945.2	0.00	0.00	0.00
14,300.0	90.00	359.62	12,262.0	2,037.3	-213.8	2,045.2	0.00	0.00	0.00
14,400.0	90.00	359.62	12,262.0	2,137.3	-214.5	2,145.1	0.00	0.00	0.00
14,500.0	90.00	359.62	12,262.0	2,237.3	-215.2	2,245.0	0.00	0.00	0.00
14,600.0	90.00	359.62	12,262.0	2,337.3	-215.8	2,344.9	0.00	0.00	0.00
14,700.0	90.00	359.62	12,262.0	2,437.3	-216.5	2,444.8	0.00	0.00	0.00
14,800.0	90.00	359.62	12,262.0	2,537.3	-217.1	2,544.7	0.00	0.00	0.00
14,900.0	90.00	359.62	12,262.0	2,637.3	-217.8	2,644.7	0.00	0.00	0.00
15,000.0	90.00	359.62	12,262.0	2,737.3	-218.5	2,744.6	0.00	0.00	0.00
15,100.0	90.00	359.62	12,262.0	2,837.3	-219.1	2,844.5	0.00	0.00	0.00
15,200.0	90.00	359.62	12,262.0	2,937.3	-219.8	2,944.4	0.00	0.00	0.00
15,300.0	90.00	359.62	12,262.0	3,037.3	-220.5	3,044.3	0.00	0.00	0.00
15,400.0	90.00	359.62	12,262.0	3,137.3	-221.1	3,144.2	0.00	0.00	0.00
15,500.0	90.00	359.62	12,262.0	3,237.3	-221.8	3,244.2	0.00	0.00	0.00
15,600.0	90.00	359.62	12,262.0	3,337.3	-222.5	3,344.1	0.00	0.00	0.00
15,700.0	90.00	359.62	12,262.0	3,437.3	-223.1	3,444.0	0.00	0.00	0.00
15,800.0	90.00	359.62	12,262.0	3,537.3	-223.8	3,543.9	0.00	0.00	0.00
15,900.0	90.00	359.62	12,262.0	3,637.3	-224.4	3,643.8	0.00	0.00	0.00
16,000.0	90.00	359.62	12,262.0	3,737.3	-225.1	3,743.8	0.00	0.00	0.00
16,100.0	90.00	359.62	12,262.0	3,837.3	-225.8	3,843.7	0.00	0.00	0.00
16,200.0	90.00	359.62	12,262.0	3,937.3	-226.4	3,943.6	0.00	0.00	0.00
16,300.0	90.00	359.62	12,262.0	4,037.3	-227.1	4,043.5	0.00	0.00	0.00
16,400.0	90.00	359.62	12,262.0	4,137.3	-227.8	4,143.4	0.00	0.00	0.00
16,500.0	90.00	359.62	12,262.0	4,237.3	-228.4	4,243.3	0.00	0.00	0.00
16,600.0	90.00	359.62	12,262.0	4,337.3	-229.1	4,343.3	0.00	0.00	0.00
16,700.0	90.00	359.62	12,262.0	4,437.3	-229.7	4,443.2	0.00	0.00	0.00
16,800.0	90.00	359.62	12,262.0	4,537.3	-230.4	4,543.1	0.00	0.00	0.00
16,900.0	90.00	359.62	12,262.0	4,637.3	-231.1	4,643.0	0.00	0.00	0.00
17,000.0	90.00	359.62	12,262.0	4,737.3	-231.7	4,742.9	0.00	0.00	0.00
17,100.0	90.00	359.62	12,262.0	4,837.3	-232.4	4,842.8	0.00	0.00	0.00
17,191.7	90.00	359.62	12,262.0	4,929.0	-233.0	4,934.5	0.00	0.00	0.00

PBHL(SC 15 Fed #606H)

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Streetcar 15 Fed
Well: #606H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #606H
TVD Reference: KB = 25 @ 3395.0usft
MD Reference: KB = 25 @ 3395.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
KOP(SC 15 Fed #606H) - plan hits target center - Point	0.00	0.00	11,784.5	-201.0	-199.0	409,486.00	778,353.00	32° 7' 24.388 N	103° 34' 3.793 W
FTP(SC 15 Fed #606H) - plan misses target center by 163.4usft at 12191.5usft MD (12140.9 TVD, -41.2 N, -200.1 E) - Point	0.00	0.00	12,262.0	-151.0	-199.0	409,536.00	778,353.00	32° 7' 24.883 N	103° 34' 3.789 W
PBHL(SC 15 Fed #606H) - plan hits target center - Point	0.00	0.00	12,262.0	4,929.0	-233.0	414,616.00	778,319.00	32° 8' 15.154 N	103° 34' 3.764 W

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) 748-0720
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 30-025-42860	² Pool Code 96392	³ Pool Name Draper Mill; Bone Spring
⁴ Property Code 315310	⁵ Property Name STREETCAR 15 FED	⁶ Well Number #606H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3370'

¹⁰Surface Location

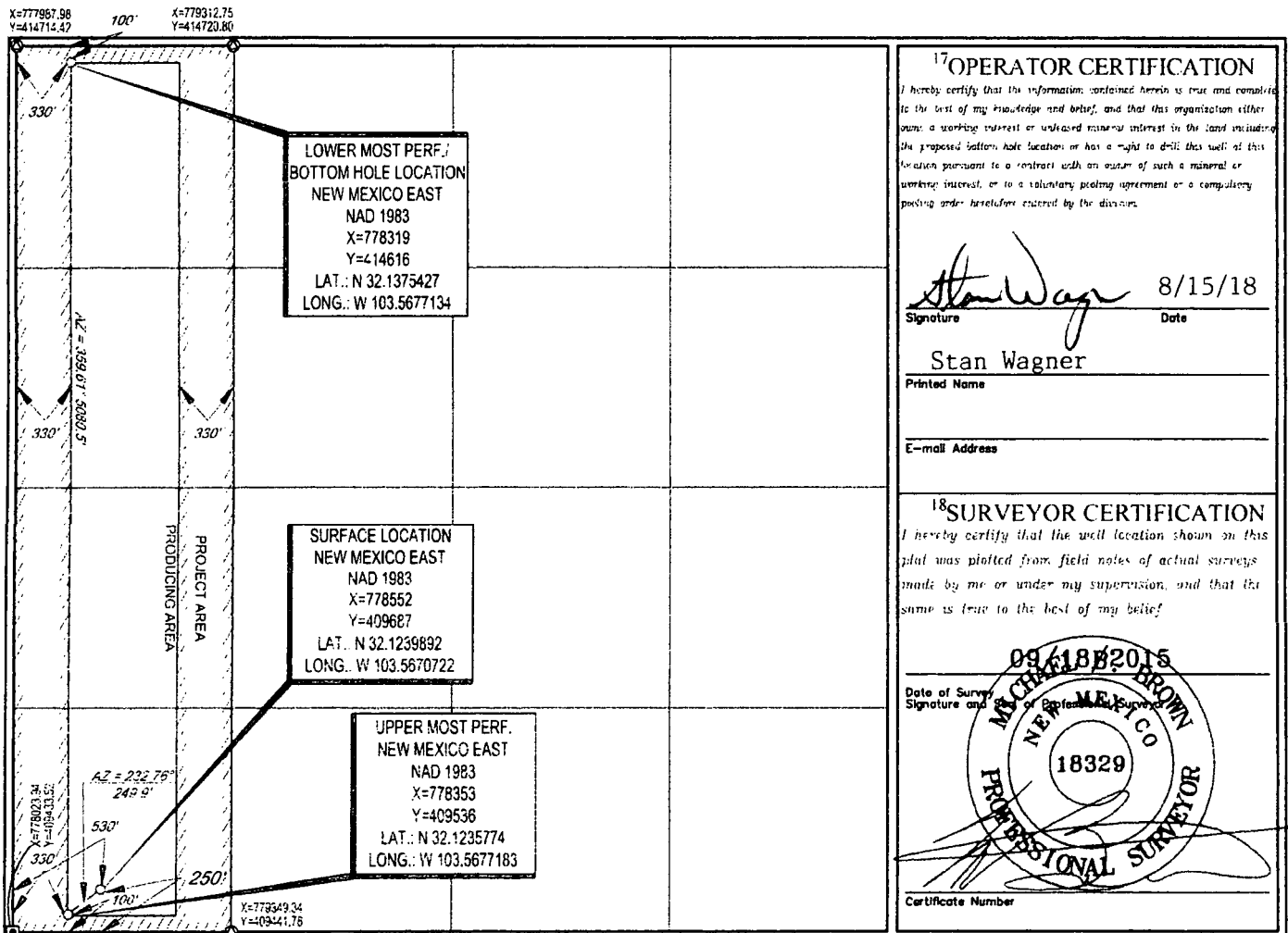
U/L or lot no. M	Section 15	Township 25-S	Range 33-E	Lot Idn -	Feet from the 250'	North/South line SOUTH	Feet from the 530'	East/West line WEST	County LEA
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¹¹Bottom Hole Location If Different From Surface

U/L or lot no. D	Section 15	Township 25-S	Range 33-E	Lot Idn -	Feet from the 100'	North/South line NORTH	Feet from the 330'	East/West line WEST	County LEA
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¹² Dedicated Acres 160	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 undivided 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 8/15/18
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.

09/18/2015
Date of Survey
Signature of Professional Surveyor
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

Intent ☒ As Drilled ☐

API # 30-025-42860			
Operator Name: EOG Resources, Inc.		Property Name: Streetcar 15 Fed	Well Number 606H

Kick Off Point (KOP)

UL M	Section 15	Township 25S	Range 33E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD

First Take Point (FTP)

UL M	Section 15	Township 25S	Range 33E	Lot	Feet 100	From N/S South	Feet 330	From E/W West	County Lea
Latitude N 32.1235774					Longitude W -103.5677183				NAD 83

Last Take Point (LTP)

UL D	Section 15	Township 25S	Range 33E	Lot	Feet 100	From N/S North	Feet 330	From E/W West	County Lea
Latitude N 32.1375427					Longitude W -103.5677134				NAD 83

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

Is this well an infill well? ☐

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

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES INC
LEASE NO.:	NMNM26079
WELL NAME & NO.:	STREETCAR 15 FED 606H
SURFACE HOLE FOOTAGE:	250' FSL & 530' FWL
BOTTOM HOLE FOOTAGE	100' FNL & 330' FWL
LOCATION:	Section 15, T. 25 S., R 33 E., NMPM
COUNTY:	Lea County, New Mexico

COA

All previous COA still apply expect the following:

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

A. Hydrogen Sulfide

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 1160 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Additional cement maybe required. Excess calculates to be 20%.**

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

3. The minimum required fill of cement behind the **7-5/8** inch production casing is:

- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Variance is approved for an annular clearance of the 5.5" x 7.625".

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** intermediate casing shoe shall be **5000 (5M)** psi.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.

During office hours call (575) 627-0272.

After office hours call (575)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)

393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log (one log per well pad is acceptable) run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days

from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

ZS 082018

In a Lesser Prairie-Chicken section.

13 3/8	surface csg in a	17 1/2	inch hole.	Design Factors			SURFACE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	54.50	J 55	ST&C	8.13	2.13	1.05	1,160	63,220	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,405				Tail Cmt	does not	circ to sfc.	Totals:	1,160 63,220	
Comparison of Proposed to Minimum Required Cement Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
17 1/2	0.6946	1030	1662	860	93	8.80	1518	2M	1.56

9 5/8 casing inside the 13 3/8					Design Factors		INTERMEDIATE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	40.00	J 55	LT&C	2.65	1.21	0.72	4,000	160,000	
"B"	40.00	HCK 55	LT&C	17.50	1.63	0.72	900	36,000	
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	4,900	196,000	
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		1160	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	995	1936	1611	20	10.20	3031	5M	0.81

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.99, 0.81, c, d All > 0.70, OK.

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.99, 0.81, c, d All > 0.70, OK.

Tail cmt									
7 5/8		casing inside the		9 5/8		Design Factors		INTERMEDIATE	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	29.70	HCP 110		FXL	2.23	1.33	1.18	11,300	335,610
"B"								0	0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,098							Totals:	11,300	335,610
The cement volume(s) are intended to achieve a top of					4700	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
8 3/4	0.1005	775	2328	676	244	9.40	4628	5M	0.56
Class 'H' tail cmt yld > 1.20				MASP is within 10% of 5000psig, need exrta equip?					

Tail cmt									
5 1/2 casing inside the			7 5/8		Design Factors			PRODUCTION	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	20.00	P 110	DWC CI	2.97	1.72	1.96	11,789	235,780	
"B"	20.00	P 110	VAM SFC	5.50	1.51	1.96	5,403	108,060	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,594							Totals:	17,192	343,840
Begment Design Factors would be:				53.91	1.65	if it were a vertical wellbore.			
No Pilot Hole Planned			MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity°	MEOC
			17192	12262	12262	11789	90	12	12539
The cement volume(s) are intended to achieve a top of					11100	ft from surface or a		200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
6 3/4	0.0835	950	1245	516	141	11.50			0.52
Class 'H' tail cmt yld > 1.20				Capitan Reef est top XXXX.			MASP is within 10% of 5000psig, need exrta equip?		