

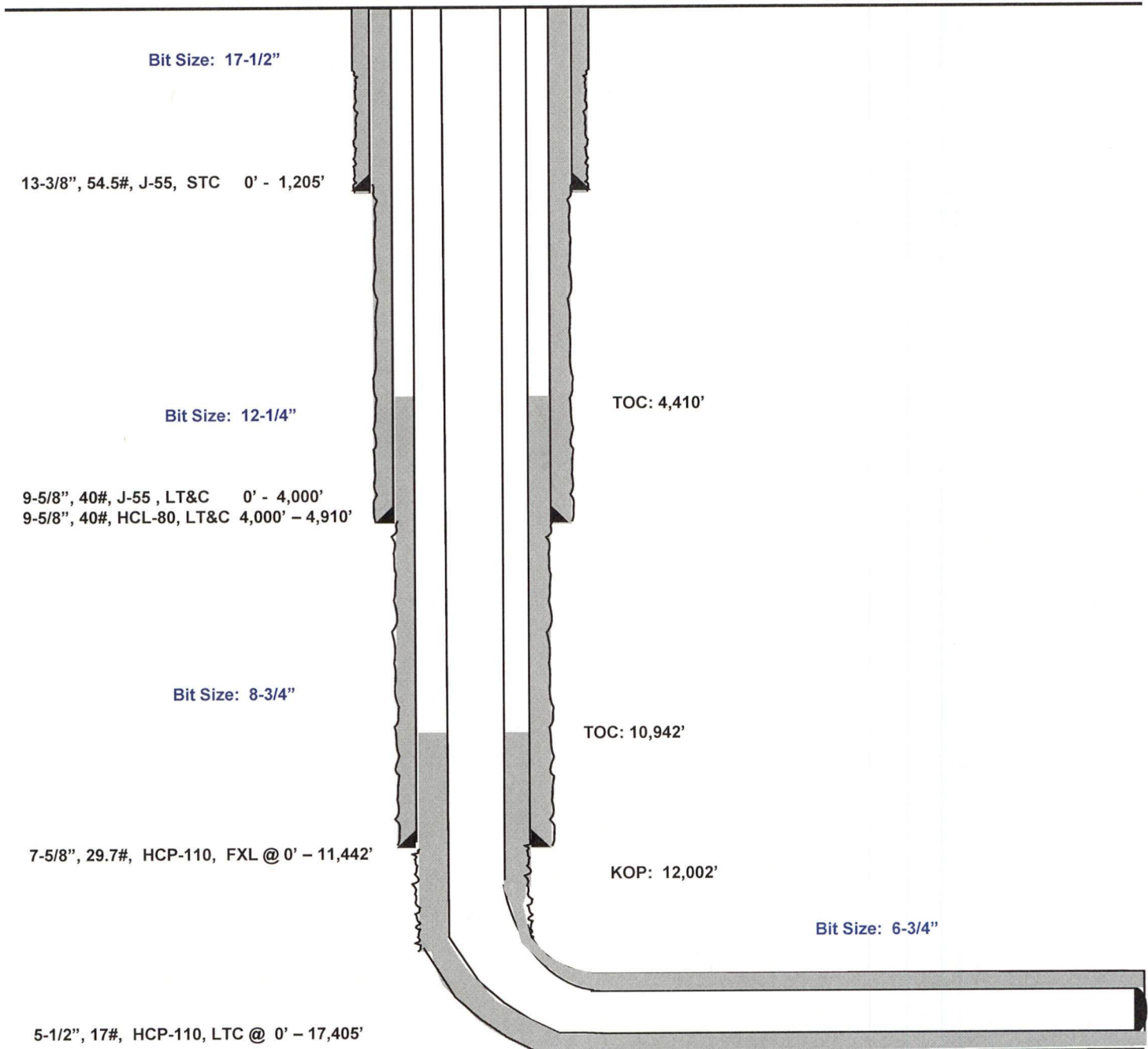
Heartthrob 17 State #708H
Lea County, New Mexico

OCD - HOBBS
08/24/2018
RECEIVED

483' FSL
676' FEL
Section 17
T-24-S, R-33-E

Proposed Wellbore
30-025-45143
API: 30-025-*****

KB: 3,593'
GL: 3,568'



Lateral: 17,405' MD, 12,462' TVD

BH Location: 100' FNL & 330' FEL
Section 17
T-24-S, R-33-E

Permit Information:

Well Name: Heartthrob 17 State No. 708H

Location:

SL: 483' FSL & 676' FEL, Section 17, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 330' FEL, Section 17, T-24-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 – 1,205'	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' – 4,910'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 – 11,442'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,405'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1205'	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)
4,910'	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
11,442'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,410')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,405'	800	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,942')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1205'	Fresh - Gel	8.6-8.8	28-34	N/c
1,205' – 4,910'	Brine	10.0-10.2	28-34	N/c
4,910' – 11,442'	Oil Base	8.7-9.4	58-68	N/c - 6
11,442' – 17,405' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

OCD - HOBBS
08/24/2018
RECEIVED

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.

- a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
- c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
HEARTTHROB 17 STATE #708H

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office (432) 686-3600
---------------	-----------------------

Company Drilling Consultants:

David Dominique	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

Drilling Engineer

Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256

Drilling Manager

Aj Dach	Office (432) 686-3751
	Cell (817) 480-1167

Drilling Superintendent

Todd Hamilton	Office (432) 848-9029
	Cell (210) 413-9569

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251



Lea County, NM (NAD 83 NME)

Heartthrob 17 state #708H

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: #708H

KB = 25 @ 3593.0usft 3568.0
Northing 441562.00 Easting 771862.00 Latitude 32° 12' 42.240 N Longitude 103° 35' 16.686 W

SECTION DETAILS

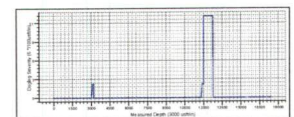
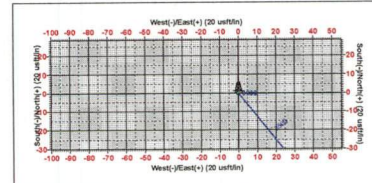
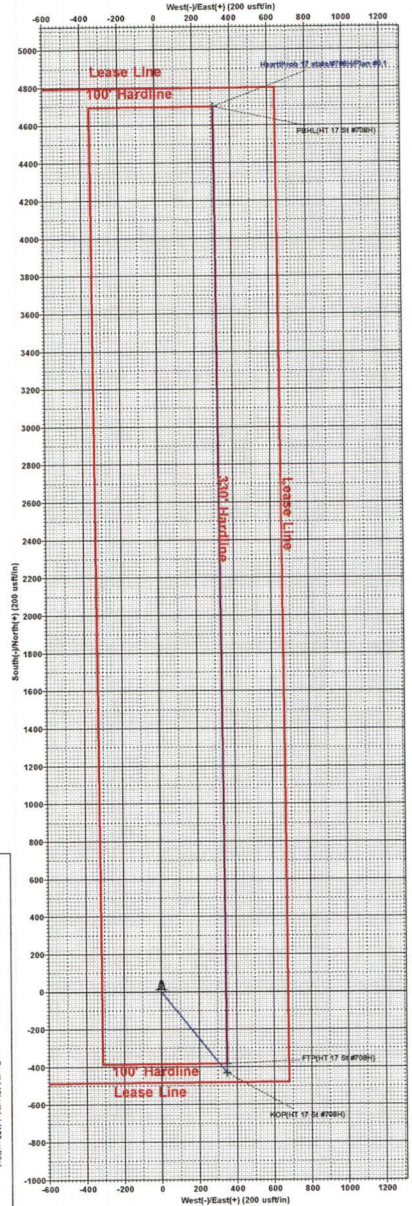
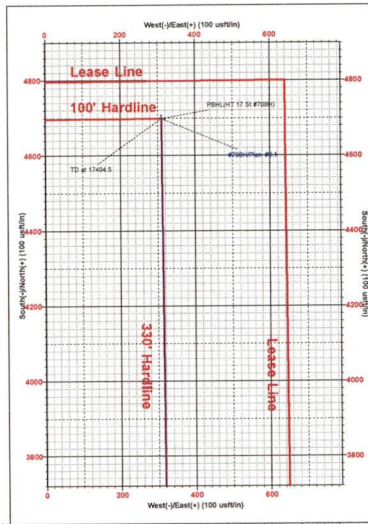
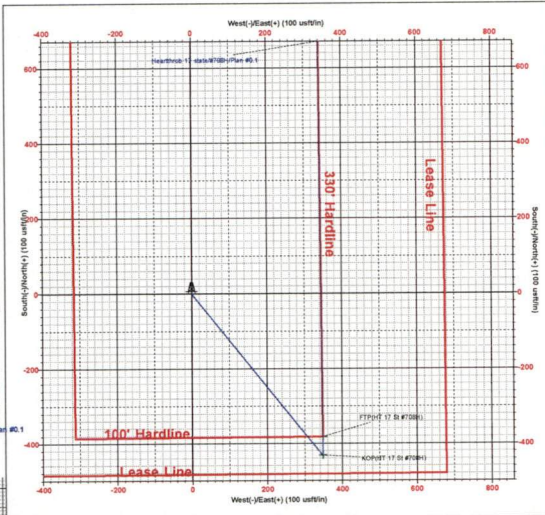
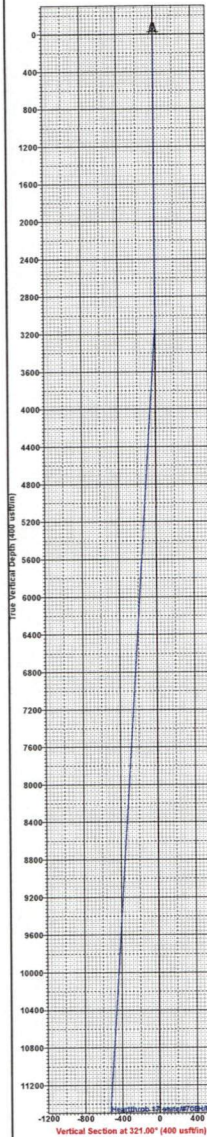
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3180.2	3.60	141.00	3180.1	-4.4	3.6	2.00	141.00	-4.2	
4	11821.6	3.60	141.00	11804.4	-426.6	345.4	0.00	0.00	-402.9	KOP(HT 17 St #708H)
5	12001.8	0.00	0.00	11984.5	-431.0	349.0	2.00	180.00	-407.0	
6	12751.8	90.00	359.58	12462.0	46.4	345.5	12.00	359.58	69.2	PBHL(HT 17 St #708H)
7	17404.5	90.00	359.58	12462.0	4699.0	311.0	0.00	0.00	4709.3	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(HT 17 St #708H)	11984.5	-431.0	349.0	441131.00	772211.00
FTP(HT 17 St #708H)	12462.0	-381.0	349.0	441181.00	772211.00
PBHL(HT 17 St #708H)	12462.0	4699.0	311.0	446251.00	772173.00



Lea County, NM (NAD 83 NME)
Heartthrob 17 state #708H
Plan #0.1
8/23/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Heartthrob 17 state

#708H

OH

Plan: Plan #0.1

Standard Planning Report

23 August, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #708H
KB = 25 @ 3593.0usft
KB = 25 @ 3593.0usft
Grid
Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site Heartthrob 17 state

Site Position: Northing: 441,886.00 usft Latitude: 32° 12' 45.730 N
From: Map Easting: 767,698.00 usft Longitude: 103° 36' 5.126 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.39 °

Well #708H

Well Position +N/-S -324.0 usft Northing: 441,562.00 usft Latitude: 32° 12' 42.240 N
+E/-W 4,164.0 usft Easting: 771,862.00 usft Longitude: 103° 35' 16.686 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,568.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2018	6.83	60.03	47,806.37571692

Design Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.79

Plan Survey Tool Program Date 8/23/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,404.5 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,180.2	3.60	141.00	3,180.1	-4.4	3.6	2.00	2.00	0.00	141.00	
11,821.6	3.60	141.00	11,804.4	-426.6	345.4	0.00	0.00	0.00	0.00	
12,001.8	0.00	0.01	11,984.5	-431.0	349.0	2.00	-2.00	0.00	180.00	KOP(HT 17 St #708H
12,751.8	90.00	359.58	12,462.0	46.4	345.5	12.00	12.00	-0.06	359.58	
17,404.5	90.00	359.58	12,462.0	4,699.0	311.0	0.00	0.00	0.00	0.00	PBHL(HT 17 St #708H



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #708H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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	2.00	141.00	3,100.0	-1.4	1.1	-1.3	2.00	2.00	0.00
3,180.2	3.60	141.00	3,180.1	-4.4	3.6	-4.2	2.00	2.00	0.00
3,200.0	3.60	141.00	3,199.8	-5.4	4.3	-5.1	0.00	0.00	0.00
3,300.0	3.60	141.00	3,299.6	-10.3	8.3	-9.7	0.00	0.00	0.00
3,400.0	3.60	141.00	3,399.4	-15.1	12.3	-14.3	0.00	0.00	0.00
3,500.0	3.60	141.00	3,499.2	-20.0	16.2	-18.9	0.00	0.00	0.00
3,600.0	3.60	141.00	3,599.1	-24.9	20.2	-23.5	0.00	0.00	0.00
3,700.0	3.60	141.00	3,698.9	-29.8	24.1	-28.1	0.00	0.00	0.00
3,800.0	3.60	141.00	3,798.7	-34.7	28.1	-32.8	0.00	0.00	0.00
3,900.0	3.60	141.00	3,898.5	-39.6	32.0	-37.4	0.00	0.00	0.00
4,000.0	3.60	141.00	3,998.3	-44.5	36.0	-42.0	0.00	0.00	0.00
4,100.0	3.60	141.00	4,098.1	-49.3	40.0	-46.6	0.00	0.00	0.00
4,200.0	3.60	141.00	4,197.9	-54.2	43.9	-51.2	0.00	0.00	0.00
4,300.0	3.60	141.00	4,297.7	-59.1	47.9	-55.8	0.00	0.00	0.00
4,400.0	3.60	141.00	4,397.5	-64.0	51.8	-60.4	0.00	0.00	0.00
4,500.0	3.60	141.00	4,497.3	-68.9	55.8	-65.1	0.00	0.00	0.00
4,600.0	3.60	141.00	4,597.1	-73.8	59.7	-69.7	0.00	0.00	0.00
4,700.0	3.60	141.00	4,696.9	-78.7	63.7	-74.3	0.00	0.00	0.00
4,800.0	3.60	141.00	4,796.7	-83.5	67.6	-78.9	0.00	0.00	0.00
4,900.0	3.60	141.00	4,896.5	-88.4	71.6	-83.5	0.00	0.00	0.00
5,000.0	3.60	141.00	4,996.3	-93.3	75.6	-88.1	0.00	0.00	0.00
5,100.0	3.60	141.00	5,096.1	-98.2	79.5	-92.7	0.00	0.00	0.00
5,200.0	3.60	141.00	5,195.9	-103.1	83.5	-97.3	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #708H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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	3.60	141.00	5,295.7	-108.0	87.4	-102.0	0.00	0.00	0.00
5,400.0	3.60	141.00	5,395.5	-112.9	91.4	-106.6	0.00	0.00	0.00
5,500.0	3.60	141.00	5,495.3	-117.7	95.3	-111.2	0.00	0.00	0.00
5,600.0	3.60	141.00	5,595.1	-122.6	99.3	-115.8	0.00	0.00	0.00
5,700.0	3.60	141.00	5,694.9	-127.5	103.3	-120.4	0.00	0.00	0.00
5,800.0	3.60	141.00	5,794.7	-132.4	107.2	-125.0	0.00	0.00	0.00
5,900.0	3.60	141.00	5,894.5	-137.3	111.2	-129.6	0.00	0.00	0.00
6,000.0	3.60	141.00	5,994.3	-142.2	115.1	-134.3	0.00	0.00	0.00
6,100.0	3.60	141.00	6,094.1	-147.1	119.1	-138.9	0.00	0.00	0.00
6,200.0	3.60	141.00	6,193.9	-151.9	123.0	-143.5	0.00	0.00	0.00
6,300.0	3.60	141.00	6,293.7	-156.8	127.0	-148.1	0.00	0.00	0.00
6,400.0	3.60	141.00	6,393.5	-161.7	130.9	-152.7	0.00	0.00	0.00
6,500.0	3.60	141.00	6,493.3	-166.6	134.9	-157.3	0.00	0.00	0.00
6,600.0	3.60	141.00	6,593.1	-171.5	138.9	-161.9	0.00	0.00	0.00
6,700.0	3.60	141.00	6,692.9	-176.4	142.8	-166.6	0.00	0.00	0.00
6,800.0	3.60	141.00	6,792.7	-181.3	146.8	-171.2	0.00	0.00	0.00
6,900.0	3.60	141.00	6,892.5	-186.1	150.7	-175.8	0.00	0.00	0.00
7,000.0	3.60	141.00	6,992.3	-191.0	154.7	-180.4	0.00	0.00	0.00
7,100.0	3.60	141.00	7,092.1	-195.9	158.6	-185.0	0.00	0.00	0.00
7,200.0	3.60	141.00	7,191.9	-200.8	162.6	-189.6	0.00	0.00	0.00
7,300.0	3.60	141.00	7,291.7	-205.7	166.6	-194.2	0.00	0.00	0.00
7,400.0	3.60	141.00	7,391.5	-210.6	170.5	-198.8	0.00	0.00	0.00
7,500.0	3.60	141.00	7,491.3	-215.5	174.5	-203.5	0.00	0.00	0.00
7,600.0	3.60	141.00	7,591.1	-220.3	178.4	-208.1	0.00	0.00	0.00
7,700.0	3.60	141.00	7,690.9	-225.2	182.4	-212.7	0.00	0.00	0.00
7,800.0	3.60	141.00	7,790.7	-230.1	186.3	-217.3	0.00	0.00	0.00
7,900.0	3.60	141.00	7,890.5	-235.0	190.3	-221.9	0.00	0.00	0.00
8,000.0	3.60	141.00	7,990.3	-239.9	194.2	-226.5	0.00	0.00	0.00
8,100.0	3.60	141.00	8,090.1	-244.8	198.2	-231.1	0.00	0.00	0.00
8,200.0	3.60	141.00	8,190.0	-249.7	202.2	-235.8	0.00	0.00	0.00
8,300.0	3.60	141.00	8,289.8	-254.5	206.1	-240.4	0.00	0.00	0.00
8,400.0	3.60	141.00	8,389.6	-259.4	210.1	-245.0	0.00	0.00	0.00
8,500.0	3.60	141.00	8,489.4	-264.3	214.0	-249.6	0.00	0.00	0.00
8,600.0	3.60	141.00	8,589.2	-269.2	218.0	-254.2	0.00	0.00	0.00
8,700.0	3.60	141.00	8,689.0	-274.1	221.9	-258.8	0.00	0.00	0.00
8,800.0	3.60	141.00	8,788.8	-279.0	225.9	-263.4	0.00	0.00	0.00
8,900.0	3.60	141.00	8,888.6	-283.9	229.9	-268.1	0.00	0.00	0.00
9,000.0	3.60	141.00	8,988.4	-288.7	233.8	-272.7	0.00	0.00	0.00
9,100.0	3.60	141.00	9,088.2	-293.6	237.8	-277.3	0.00	0.00	0.00
9,200.0	3.60	141.00	9,188.0	-298.5	241.7	-281.9	0.00	0.00	0.00
9,300.0	3.60	141.00	9,287.8	-303.4	245.7	-286.5	0.00	0.00	0.00
9,400.0	3.60	141.00	9,387.6	-308.3	249.6	-291.1	0.00	0.00	0.00
9,500.0	3.60	141.00	9,487.4	-313.2	253.6	-295.7	0.00	0.00	0.00
9,600.0	3.60	141.00	9,587.2	-318.1	257.5	-300.4	0.00	0.00	0.00
9,700.0	3.60	141.00	9,687.0	-322.9	261.5	-305.0	0.00	0.00	0.00
9,800.0	3.60	141.00	9,786.8	-327.8	265.5	-309.6	0.00	0.00	0.00
9,900.0	3.60	141.00	9,886.6	-332.7	269.4	-314.2	0.00	0.00	0.00
10,000.0	3.60	141.00	9,986.4	-337.6	273.4	-318.8	0.00	0.00	0.00
10,100.0	3.60	141.00	10,086.2	-342.5	277.3	-323.4	0.00	0.00	0.00
10,200.0	3.60	141.00	10,186.0	-347.4	281.3	-328.0	0.00	0.00	0.00
10,300.0	3.60	141.00	10,285.8	-352.3	285.2	-332.6	0.00	0.00	0.00
10,400.0	3.60	141.00	10,385.6	-357.1	289.2	-337.3	0.00	0.00	0.00
10,500.0	3.60	141.00	10,485.4	-362.0	293.1	-341.9	0.00	0.00	0.00
10,600.0	3.60	141.00	10,585.2	-366.9	297.1	-346.5	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #708H
KB = 25 @ 3593.0usft
KB = 25 @ 3593.0usft
Grid
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	3.60	141.00	10,685.0	-371.8	301.1	-351.1	0.00	0.00	0.00
10,800.0	3.60	141.00	10,784.8	-376.7	305.0	-355.7	0.00	0.00	0.00
10,900.0	3.60	141.00	10,884.6	-381.6	309.0	-360.3	0.00	0.00	0.00
11,000.0	3.60	141.00	10,984.4	-386.5	312.9	-364.9	0.00	0.00	0.00
11,100.0	3.60	141.00	11,084.2	-391.3	316.9	-369.6	0.00	0.00	0.00
11,200.0	3.60	141.00	11,184.0	-396.2	320.8	-374.2	0.00	0.00	0.00
11,300.0	3.60	141.00	11,283.8	-401.1	324.8	-378.8	0.00	0.00	0.00
11,400.0	3.60	141.00	11,383.6	-406.0	328.8	-383.4	0.00	0.00	0.00
11,500.0	3.60	141.00	11,483.4	-410.9	332.7	-388.0	0.00	0.00	0.00
11,600.0	3.60	141.00	11,583.2	-415.8	336.7	-392.6	0.00	0.00	0.00
11,700.0	3.60	141.00	11,683.0	-420.7	340.6	-397.2	0.00	0.00	0.00
11,800.0	3.60	141.00	11,782.8	-425.5	344.6	-401.9	0.00	0.00	0.00
11,821.6	3.60	141.00	11,804.4	-426.6	345.4	-402.9	0.00	0.00	0.00
11,900.0	2.04	141.00	11,882.7	-429.6	347.9	-405.7	2.00	-2.00	0.00
12,001.8	0.00	0.01	11,984.5	-431.0	349.0	-407.0	2.00	-2.00	0.00
KOP(HT 17 St #708H)									
12,025.0	2.78	359.58	12,007.7	-430.4	349.0	-406.5	12.00	12.00	0.00
12,050.0	5.78	359.58	12,032.6	-428.6	349.0	-404.6	12.00	12.00	0.00
12,075.0	8.78	359.58	12,057.4	-425.4	349.0	-401.4	12.00	12.00	0.00
12,100.0	11.78	359.58	12,082.0	-420.9	348.9	-397.0	12.00	12.00	0.00
12,125.0	14.78	359.58	12,106.3	-415.2	348.9	-391.3	12.00	12.00	0.00
12,150.0	17.78	359.58	12,130.3	-408.2	348.8	-384.3	12.00	12.00	0.00
12,175.0	20.78	359.58	12,153.9	-399.9	348.8	-376.0	12.00	12.00	0.00
12,200.0	23.78	359.58	12,177.0	-390.5	348.7	-366.6	12.00	12.00	0.00
12,225.0	26.78	359.58	12,199.6	-379.8	348.6	-355.9	12.00	12.00	0.00
12,250.0	29.78	359.58	12,221.6	-367.9	348.5	-344.1	12.00	12.00	0.00
12,275.0	32.78	359.58	12,243.0	-355.0	348.4	-331.2	12.00	12.00	0.00
12,300.0	35.78	359.58	12,263.7	-340.9	348.3	-317.1	12.00	12.00	0.00
12,325.0	38.78	359.58	12,283.6	-325.7	348.2	-302.0	12.00	12.00	0.00
12,350.0	41.78	359.58	12,302.6	-309.6	348.1	-285.9	12.00	12.00	0.00
12,375.0	44.78	359.58	12,320.8	-292.4	348.0	-268.8	12.00	12.00	0.00
12,400.0	47.78	359.58	12,338.1	-274.4	347.8	-250.8	11.99	11.99	0.00
FTP(HT 17 St #708H)									
12,425.0	50.78	359.58	12,354.4	-255.4	347.7	-231.9	12.01	12.01	0.00
12,450.0	53.78	359.58	12,369.7	-235.7	347.6	-212.2	12.00	12.00	0.00
12,475.0	56.78	359.58	12,383.9	-215.1	347.4	-191.7	12.00	12.00	0.00
12,500.0	59.78	359.58	12,397.1	-193.9	347.2	-170.5	12.00	12.00	0.00
12,525.0	62.78	359.58	12,409.1	-171.9	347.1	-148.6	12.00	12.00	0.00
12,550.0	65.78	359.58	12,419.9	-149.4	346.9	-126.2	12.00	12.00	0.00
12,575.0	68.78	359.58	12,429.6	-126.4	346.7	-103.2	12.00	12.00	0.00
12,600.0	71.78	359.58	12,438.0	-102.8	346.6	-79.7	12.00	12.00	0.00
12,625.0	74.78	359.58	12,445.2	-78.9	346.4	-55.8	12.00	12.00	0.00
12,650.0	77.78	359.58	12,451.1	-54.6	346.2	-31.6	12.00	12.00	0.00
12,675.0	80.78	359.58	12,455.8	-30.0	346.0	-7.1	12.00	12.00	0.00
12,700.0	83.78	359.58	12,459.2	-5.3	345.8	17.6	12.00	12.00	0.00
12,725.0	86.78	359.58	12,461.2	19.6	345.7	42.4	12.00	12.00	0.00
12,751.8	90.00	359.58	12,462.0	46.4	345.5	69.2	12.00	12.00	0.00
12,800.0	90.00	359.58	12,462.0	94.6	345.1	117.2	0.00	0.00	0.00
12,900.0	90.00	359.58	12,462.0	194.6	344.4	216.9	0.00	0.00	0.00
13,000.0	90.00	359.58	12,462.0	294.6	343.6	316.7	0.00	0.00	0.00
13,100.0	90.00	359.58	12,462.0	394.6	342.9	416.4	0.00	0.00	0.00
13,200.0	90.00	359.58	12,462.0	494.6	342.1	516.1	0.00	0.00	0.00
13,300.0	90.00	359.58	12,462.0	594.6	341.4	615.9	0.00	0.00	0.00
13,400.0	90.00	359.58	12,462.0	694.6	340.7	715.6	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Heartthrob 17 state
 Well: #708H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3593.0usft
 MD Reference: KB = 25 @ 3593.0usft
 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)
13,500.0	90.00	359.58	12,462.0	794.6	339.9	815.3	0.00	0.00	0.00
13,600.0	90.00	359.58	12,462.0	894.6	339.2	915.0	0.00	0.00	0.00
13,700.0	90.00	359.58	12,462.0	994.6	338.4	1,014.8	0.00	0.00	0.00
13,800.0	90.00	359.58	12,462.0	1,094.6	337.7	1,114.5	0.00	0.00	0.00
13,900.0	90.00	359.58	12,462.0	1,194.6	337.0	1,214.2	0.00	0.00	0.00
14,000.0	90.00	359.58	12,462.0	1,294.6	336.2	1,314.0	0.00	0.00	0.00
14,100.0	90.00	359.58	12,462.0	1,394.6	335.5	1,413.7	0.00	0.00	0.00
14,200.0	90.00	359.58	12,462.0	1,494.6	334.7	1,513.4	0.00	0.00	0.00
14,300.0	90.00	359.58	12,462.0	1,594.6	334.0	1,613.2	0.00	0.00	0.00
14,400.0	90.00	359.58	12,462.0	1,694.6	333.3	1,712.9	0.00	0.00	0.00
14,500.0	90.00	359.58	12,462.0	1,794.6	332.5	1,812.6	0.00	0.00	0.00
14,600.0	90.00	359.58	12,462.0	1,894.6	331.8	1,912.3	0.00	0.00	0.00
14,700.0	90.00	359.58	12,462.0	1,994.6	331.0	2,012.1	0.00	0.00	0.00
14,800.0	90.00	359.58	12,462.0	2,094.6	330.3	2,111.8	0.00	0.00	0.00
14,900.0	90.00	359.58	12,462.0	2,194.6	329.6	2,211.5	0.00	0.00	0.00
15,000.0	90.00	359.58	12,462.0	2,294.6	328.8	2,311.3	0.00	0.00	0.00
15,100.0	90.00	359.58	12,462.0	2,394.6	328.1	2,411.0	0.00	0.00	0.00
15,200.0	90.00	359.58	12,462.0	2,494.6	327.3	2,510.7	0.00	0.00	0.00
15,300.0	90.00	359.58	12,462.0	2,594.6	326.6	2,610.5	0.00	0.00	0.00
15,400.0	90.00	359.58	12,462.0	2,694.5	325.8	2,710.2	0.00	0.00	0.00
15,500.0	90.00	359.58	12,462.0	2,794.5	325.1	2,809.9	0.00	0.00	0.00
15,600.0	90.00	359.58	12,462.0	2,894.5	324.4	2,909.6	0.00	0.00	0.00
15,700.0	90.00	359.58	12,462.0	2,994.5	323.6	3,009.4	0.00	0.00	0.00
15,800.0	90.00	359.58	12,462.0	3,094.5	322.9	3,109.1	0.00	0.00	0.00
15,900.0	90.00	359.58	12,462.0	3,194.5	322.1	3,208.8	0.00	0.00	0.00
16,000.0	90.00	359.58	12,462.0	3,294.5	321.4	3,308.6	0.00	0.00	0.00
16,100.0	90.00	359.58	12,462.0	3,394.5	320.7	3,408.3	0.00	0.00	0.00
16,200.0	90.00	359.58	12,462.0	3,494.5	319.9	3,508.0	0.00	0.00	0.00
16,300.0	90.00	359.58	12,462.0	3,594.5	319.2	3,607.8	0.00	0.00	0.00
16,400.0	90.00	359.58	12,462.0	3,694.5	318.4	3,707.5	0.00	0.00	0.00
16,500.0	90.00	359.58	12,462.0	3,794.5	317.7	3,807.2	0.00	0.00	0.00
16,600.0	90.00	359.58	12,462.0	3,894.5	317.0	3,906.9	0.00	0.00	0.00
16,700.0	90.00	359.58	12,462.0	3,994.5	316.2	4,006.7	0.00	0.00	0.00
16,800.0	90.00	359.58	12,462.0	4,094.5	315.5	4,106.4	0.00	0.00	0.00
16,900.0	90.00	359.58	12,462.0	4,194.5	314.7	4,206.1	0.00	0.00	0.00
17,000.0	90.00	359.58	12,462.0	4,294.5	314.0	4,305.9	0.00	0.00	0.00
17,100.0	90.00	359.58	12,462.0	4,394.5	313.3	4,405.6	0.00	0.00	0.00
17,200.0	90.00	359.58	12,462.0	4,494.5	312.5	4,505.3	0.00	0.00	0.00
17,300.0	90.00	359.58	12,462.0	4,594.5	311.8	4,605.1	0.00	0.00	0.00
17,404.5	90.00	359.58	12,462.0	4,699.0	311.0	4,709.3	0.00	0.00	0.00

PBHL(HT 17 St #708H)

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Heartthrob 17 state
Well: #708H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3593.0usft
MD Reference: KB = 25 @ 3593.0usft
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(HT 17 St #708H) - plan hits target center - Point	0.00	0.01	11,984.5	-431.0	349.0	441,131.00	772,211.00	32° 12' 37.952 N	103° 35' 12.659 W
PBHL(HT 17 St #708H) - plan hits target center - Point	0.00	0.01	12,462.0	4,699.0	311.0	446,261.00	772,173.00	32° 13' 28.717 N	103° 35' 12.687 W
FTP(HT 17 St #708H) - plan misses target center by 163.5usft at 12400.0usft MD (12338.1 TVD, -274.4 N, 347.8 E) - Point	0.00	0.01	12,462.0	-381.0	349.0	441,181.00	772,211.00	32° 12' 38.446 N	103° 35' 12.655 W

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

OCD - HOBBS
08/24/2018
RECEIVED

GAS CAPTURE PLAN

Date: 08/24/2018

☒ Original
☐ Amended - Reason for Amendment: _____

Operator & OGRID No.: EOG Resources, Inc. 7377

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Heartthrob 17 State 703H	30-025-***	M-17-24S-33E	455 FSL & 1079 FWL	±3500	None Planned	APD Submission
Heartthrob 17 State 704H	30-025-***	M-17-24S-33E	455 FSL & 1112 FWL	±3500	None Planned	APD Submission
Heartthrob 17 State 705H	30-025-***	O-17-24S-33E	443 FSL & 1401 FEL	±3500	None Planned	APD Submission
Heartthrob 17 State 706H	30-025-***	O-17-24S-33E	455 FSL & 1368 FEL	±3500	None Planned	APD Submission
Heartthrob 17 State 707H	30-025-***	P-17-24S-33E	478 FSL & 709 FEL	±3500	None Planned	APD Submission
Heartthrob 17 State 708H	30-025-*** 30-025-45143	P-17-24S-33E	483 FSL & 676 FEL	±3500	None Planned	APD Submission

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to **Enterprise Field Services** and will be connected to **EOG Resources** low/high pressure gathering system located in Eddy/Lea County, New Mexico. **EOG Resources** provides (periodically) to **Enterprise Field Services** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **EOG Resources** and **Enterprise Field Services** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at **Enterprise Field Services** Processing Plant located in **Lea** County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Enterprise Field Services** system at that time. Based on current information, it is **EOG Resources'** belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.