

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 087 22261 A

Approval Date: 07/02/2019
Expiration Date: 01/02/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL, UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 9N Rge: 4W County: MCCLAIN
SPOT LOCATION: SW SE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 1038 2044

Lease Name: NIGHTHAWK 0718 Well No: 5H Well will be 1038 feet from nearest unit or lease boundary.
Operator EOG RESOURCES INC Telephone: 4052463224 OTC/OCC Number: 16231 0
Name:

EOG RESOURCES INC
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

MCMURTRY MGMT AND INVESTMENTS LLC
PO BOX 850467
YUKON OK 73085-

Formation(s) (Permit Valid for Listed Formations Only):

| | Name | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 8985 | 6 | |
| 2 | WOODFORD | 9040 | 7 | |
| 3 | HUNTON | 9190 | 8 | |
| 4 | | | 9 | |
| 5 | | | 10 | |

Spacing Orders: 632844 Location Exception Orders: 702580 Increased Density Orders: 701627
682713 701628
702579

Pending CD Numbers:

Special Orders:

Total Depth: 19850 Ground Elevation: 1354 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 1090

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36644
H. SEE MEMO
G. Haul to recycling/re-use facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 662791

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District
Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 18 Twp 9N Rge 4W County MCCLAIN

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2402

Depth of Deviation: 8720

Radius of Turn: 559

Direction: 174

Total Length: 10252

Measured Total Depth: 19850

True Vertical Depth: 9300

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

6/25/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

6/25/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 701627

9/19/2019 - GC4 - 7-9N-4W
X632844 WDFD
1 WELL
EOG RESOURCES, INC.
9/3/2019

INCREASED DENSITY - 701628

6/26/2019 - G56 - 18-9N-4W
X682713 WDFD
1 WELL
EOG RESOURCES, INC.
9/3/2019

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.

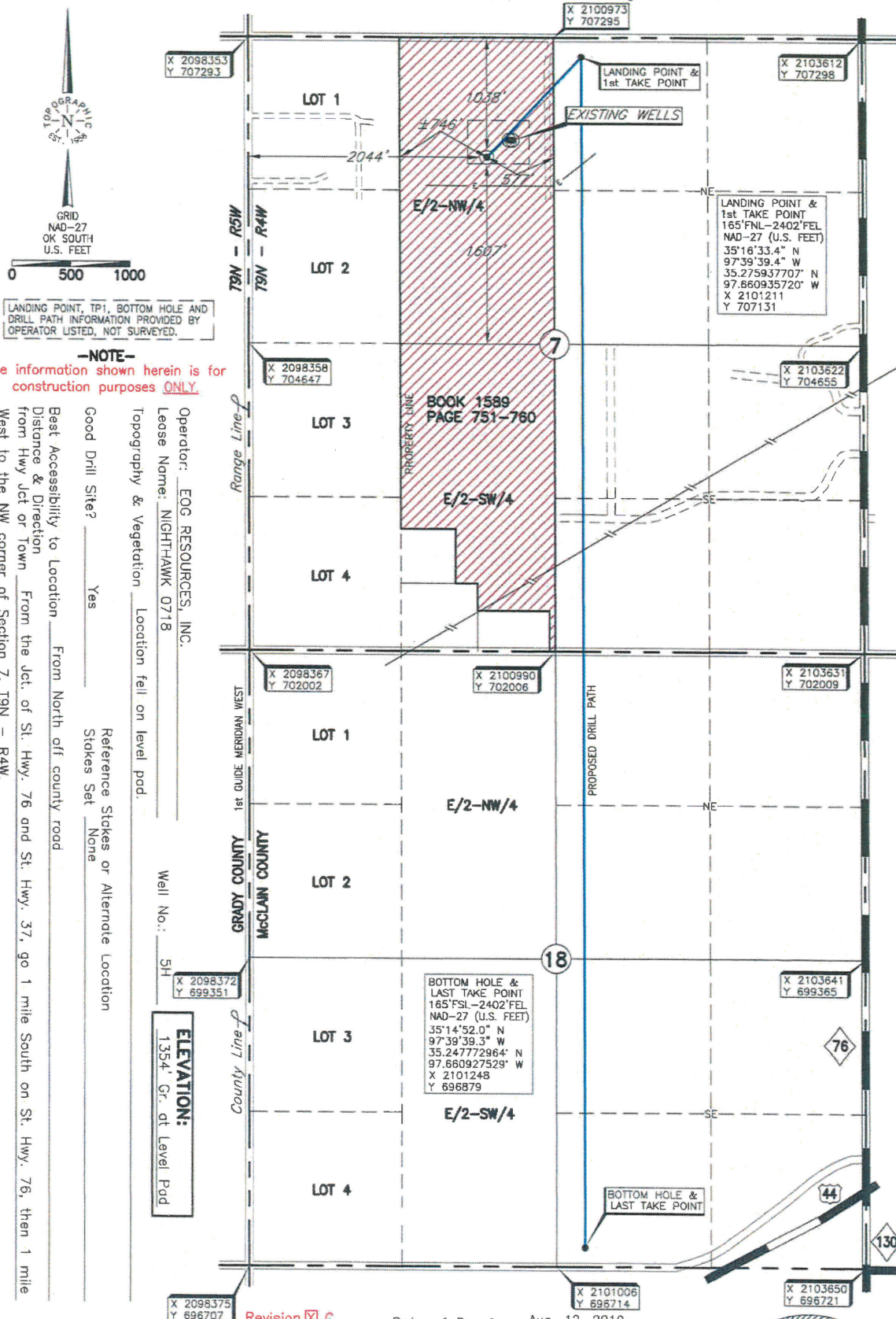
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

087 22261 NIGHTHAWK 0718 5H

| | |
|-----------------------------|--|
| LOCATION EXCEPTION - 702580 | <p>9/23/2019 - G56 - (I.O.) 7 & 18-9N-4W X632844 MSSP, WDFD, HNTN 7-9N-4W X682713 MSSP, WDFD, HNTN 18-9N-4W X165:10-3-28(C)(2)(B) WDFD, MSSP, HNTN MAY BE CLOSER THAN 600' TO NIGHTHAWK 0718 4H, NIGHTHAWK 0718 6H WELLS COMPL INT (7-9N-4W) NCT 165' FNL, NCT 0' FSL, NCT 1650' FEL COMPL INT (18-9N-4W) NCT 0' FNL, NCT 165' FSL, NCT 1650' FEL EOG RESOURCES, INC. 9/20/2019</p> |
| MEMO | <p>6/25/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 - WBM/CUTTINGS WILL BE SOIL FARMED & PIT 2 - CUTTINGS TO BE HAUL TO COMM SOIL FARMING FAC (HEARTLAND RES) 660850/661694/662791/663822 OR TO DEQ APPROVED FAC – SOUTHERN PLAINS LANDFILL (GRADY CO) 3526013, PIT 2 - OBM TO VENDOR</p> |
| SPACING - 632844 | <p>6/26/2019 - G56 - (640) 7-9N-4W VAC 140574 HNTN EXT 611142 MSSP, WDFD, HNTN, OTHERS</p> |
| SPACING - 682713 | <p>6/26/2019 - G56 - (640)(HOR) 18-9N-4W EXT 664083 MSSP, WDFD, HNTN COMPL INT (MSSP, HNTN) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p> |
| SPACING - 702579 | <p>9/23/2019 - G56 - (I.O.) 7 & 18-9N-4W EST MULTIUNIT HORIZONTAL WELL X632844 MSSP, WDFD, HNTN 7-9N-4W X682713 MSSP, WDFD, HNTN 18-9N-4W (MSSP, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 7-9N-4W 50% 18-9N-4W EOG RESOURCES, INC. 9/20/2019</p> |

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS
McCLAIN County, Oklahoma

1038'FNL-2044'FWL Section 7 Township 9N Range 4W I.M.



This information was gathered with a GPS receiver with ±1 foot horiz./vert. accuracy

DATUM: NAD-27
LAT: 35°16'24.8"N
LONG: 97°39'49.2"W
LAT: 35.273544973°N
LONG: 97.663665271°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2100399
Y: 706257

Revision ☒ C Date of Drawing: Aug. 12, 2019
Project # 124508F Date Staked: Aug. 07, 2019

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas J. Newell
Oklahoma Lic. No. 1433

