

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

Approval Date: 07/02/2019

Expiration Date: 01/02/2021

Horizontal Hole  
Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 9N Rge: 4W County: MCCLAIN

SPOT LOCATION: ☐ NW ☐ SE ☐ NE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 832 2085

Lease Name: NIGHTHAWK 0718

Well No: 5H

Well will be 832 feet from nearest unit or lease boundary.

Operator EOG RESOURCES INC  
Name:

Telephone: 4052463224

OTC/OCC Number: 16231 0

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  
682713

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903061  
201903062  
201903063  
201903064

Special Orders:

Total Depth: 19850

Ground Elevation: 1354

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 1100

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: 698697

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

The duration of this permit is SIX 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](http://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](http://FRACFOCUS.ORG)

MEMO

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

PENDING CD - 201903061

6/26/2019 - G56 - 7-9N-4W  
X632844 WDFD  
4 WELLS  
NO OP NAMED  
REC 6/25/2019 (MILLER)

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

The duration of this permit is SIX 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

Category	Description
PENDING CD - 201903062	6/26/2019 - G56 - 18-9N-4W X682713 WDFD 4 WELLS NO OP NAMED REC 6/25/2019 (MILLER)
PENDING CD - 201903063	6/26/2019 - G56 - (I.O.) 7 & 18-9N-4W ESTABLISH 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 NO OP NAMED REC 6/25/2019 (MILLER)
PENDING CD - 201903064	6/26/2019 - 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) MSSP, WDFD 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 1320' FEL COMPL INT (18-9N-4W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL NO OP NAMED REC 6/25/2019 (MILLER)
SPACING - 632844	6/26/2019 - G56 - (640) 7-9N-4W VAC 140574 HNTN EXT 611142 MSSP, WDFD, HNTN, OTHERS
SPACING - 682713	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

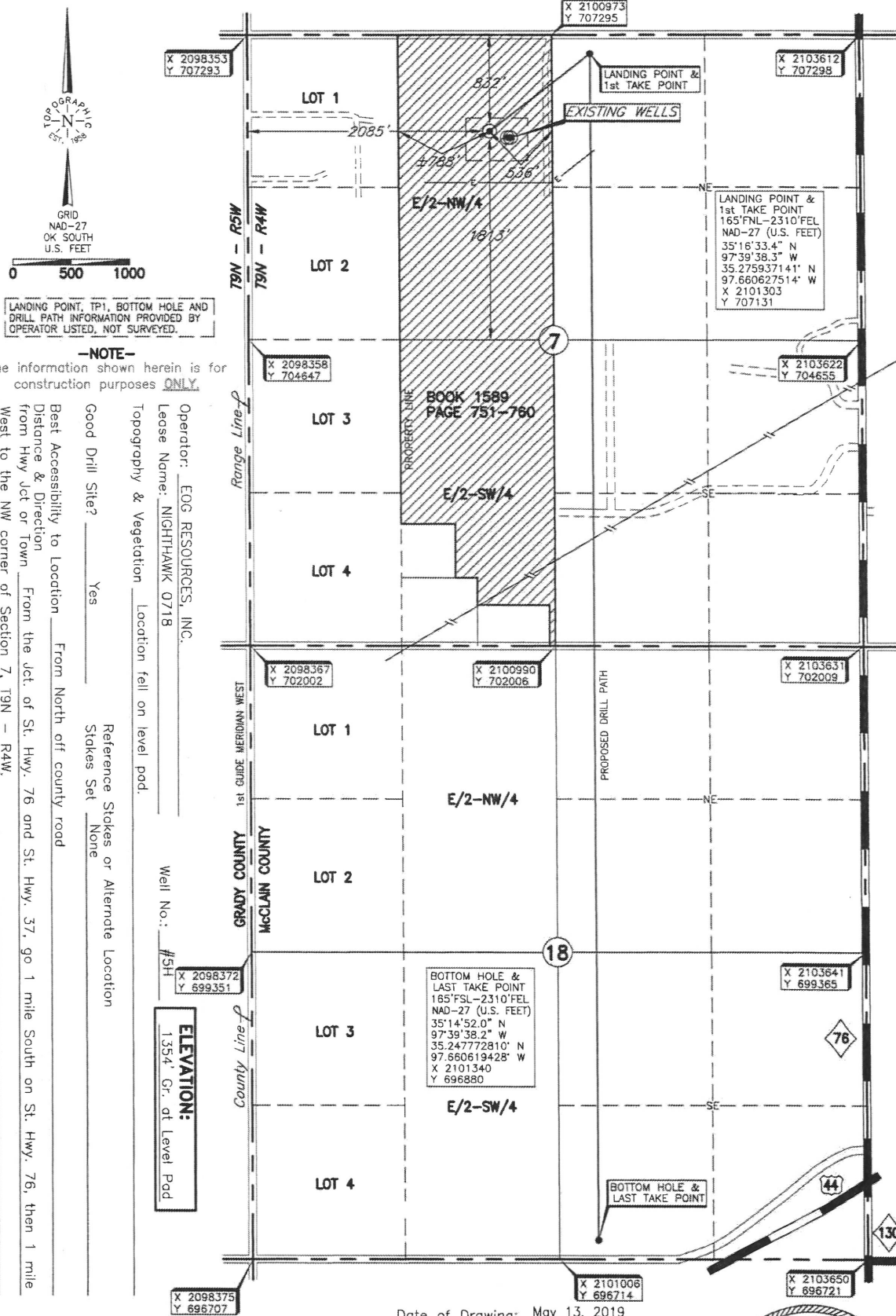
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**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
*Certificate of Authorization No. 1293 LS*  
McCLAIN County, Oklahoma

832'FNL-2085'FWL Section 7 Township 9N Range 4W I.M.



**-NOTE-**  
The information shown herein is for  
construction purposes ONLY.

Operator: EOG RESOURCES, INC  
 Lease Name: NIGHTHAWK 0718  
 Topography & Vegetation Local  
 Good Drill Site? Yes  
 Best Accessibility to Location                       
 Distance & Direction                      From the                       
 West to the NW corner of Section                     

Topography & Vegetation \_\_\_\_\_ Location fell on level pod \_\_\_\_\_

Good Drill Site? \_\_\_\_\_ Yes \_\_\_\_\_ Reference  
Stakes Set \_\_\_\_\_

Best Accessibility to Location \_\_\_\_\_ From North off coun \_\_\_\_\_

Distance & Direction \_\_\_\_\_ From the jct. of St. Hwy. 7 \_\_\_\_\_

from Hwy jct or Town \_\_\_\_\_

West to the NW corner of Section 7, T9N — R4W.

Reference	Stakes or Alternate	Location
Stakes Set	None	
h off county road		
St. Hwy. 76 and St. Hwy. 37,	go 1 m	
- RAW,		

the South on St. Hwy. 76, then 1 mile

This information was gathered with a GPS receiver with  $\pm 1$  foot Horiz./Vert. accuracy

DATUM: NAD-27  
LAT: 35°16'26.8"N  
LONG: 97°39'48.7"W  
LAT: 35.274110505°N  
LONG: 97.663526836°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2100439  
Y: 706463

Project # 124508F Date of Drawing: May 13, 2019  
Date Staked: May 07, 2019 LC

**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

Thorne L. Noel  
Oklahoma Lic. No. 1433

