

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

API NUMBER: 087 22266

Approval Date: 09/23/2019

Expiration Date: 03/23/2021

Horizontal Hole  
Multi Unit

Oil & Gas

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: 1128 2044

Lease Name: NIGHTHAWK 0718

Well No: 9H

Well will be 1128 feet from nearest unit or lease boundary.

Operator  
Name: EOG RESOURCES INC

Telephone: 4052463224

OTC/OCC Number: 16231 0

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

MCMURTRY MGMT & INVESTMENTS LLC  
C/O T. MCMURTRY 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: 701700

Increased Density Orders: 700718  
700719

Pending CD Numbers: 201903069

Special Orders:

Total Depth: 19779

Ground Elevation: 1353

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 1090

Deep surface casing has been approved

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: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8669

Radius of Turn: 549

Direction: 160

Total Length: 10248

Measured Total Depth: 19779

True Vertical Depth: 9249

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

Notes:

Category

Description

DEEP SURFACE CASING

8/28/2019 - GC4 - 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

8/28/2019 - GC4 - 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)

INCREASED DENSITY - 700718

9/20/2019 - G56 - 7-9N-4W  
X632844 WDFD  
4 WELLS  
EOG RESOURCES, INC.  
8/13/2019

INCREASED DENSITY - 700719

9/20/2019 - G56 - 18-9N-4W  
X682713 WDFD  
4 WELLS  
EOG RESOURCES, INC.  
8/13/2019

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 22266 NIGHTHAWK 0718 9H

LOCATION EXCEPTION - 701700	<p>9/20/2019 - G56 - (I.O.) 7 &amp; 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 7H WELL  COMPL INT (7-9N-4W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL  COMPL INT (18-9N-4W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL  EOG RESOURCES, INC.  9/4/2019</p>
MEMO	<p>8/28/2019 - GC4 - PITS 1 &amp; 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1  - WBM/CUTTINGS WILL BE SOIL FARMED &amp; PIT 2 - CUTTINGS TO BE HAUL TO COMM SOIL  FARMING FAC (HEARTLAND RES) 698697 – OBM TO VENDOR</p>
PENDING CD - 201903069	<p>9/20/2019 - G56 - (I.O.) 7 &amp; 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)</p>
SPACING - 632844	<p>9/20/2019 - GC4 - (640) 7-9N-4W  VAC 140574 HNTN  EXT 611142 MSSP, WDFD, HNTN, OTHERS</p>
SPACING - 682713	<p>9/20/2019 - GC4 - (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>

## TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

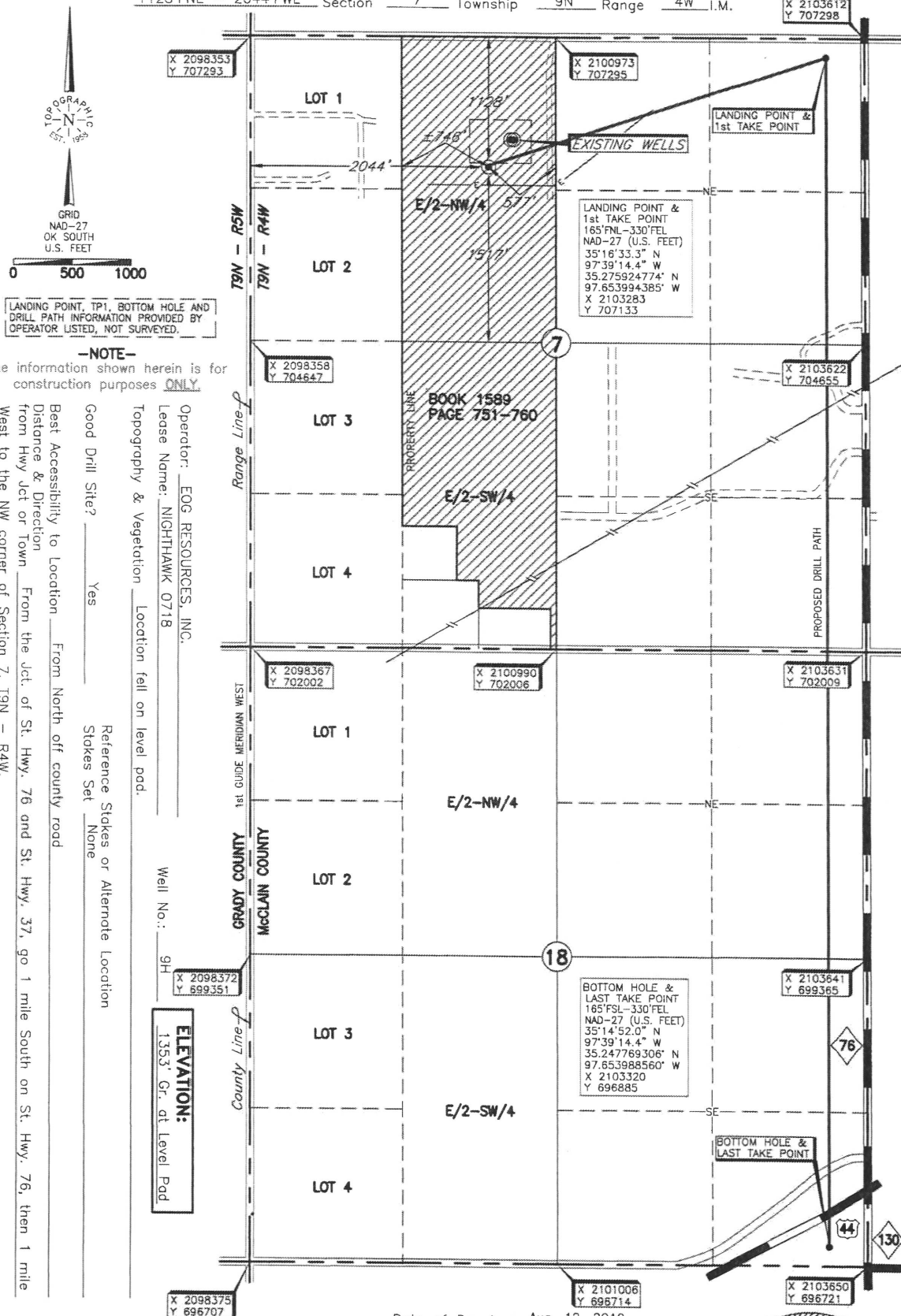
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

McCLAIN

County, Oklahoma

1128'FNL - 2044'FWL Section 7 Township 9N Range 4W I.M.

X 2103612  
Y 707298

—NOTE—  
The information shown herein is for  
construction purposes ONLY.

Operator: EOG RESOURCES, INC.  
Lease Name: NIGHTHAWK 0718  
Topography & Vegetation: Location fall on level pad.  
Good Drill Site? Yes  
Reference Stakes or Alternate Location  
Stakes Set None  
Best Accessibility to Location: From North off county road  
Distance & Direction: From the Jct. of St. Hwy. 76 and St. Hwy. 37, go 1 mile South on St. Hwy. 76, then 1 mile West to the NW corner of Section 7, T9N - R4W.

ELEVATION:  
1353' Gr. at Level Pad

DATUM: NAD-27  
LAT: 35°16'23.9" N  
LONG: 97°39'49.2" W  
LAT: 35°27'32.97558" N  
LONG: 97°66'36.65683" W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2100399  
Y: 706167

Date of Drawing: Aug. 12, 2019  
Project # 124508J Date Staked: Aug. 07, 2019 LC

## CERTIFICATE:

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

Oklahoma Lic. No. 1433

