

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

API NUMBER: 087 22260

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: 892 2085

Lease Name: NIGHTHAWK 0718 Well No: 8H Well will be 892 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 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
20193069
201903070

Special Orders:

Total Depth: 19790

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: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 848

Depth of Deviation: 8756

Radius of Turn: 500

Direction: 168

Total Length: 10248

Measured Total Depth: 19790

True Vertical Depth: 9240

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

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

7/2/2019 - 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.

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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 22260 NIGHTHAWK 0718 8H

Category	Description
PENDING CD - 201903062	7/2/2019 - G56 - 18-9N-4W X682713 WDFD 4 WELLS NO OP NAMED REC 6/25/2019 (MILLER)
PENDING CD - 201903070	7/2/2019 - 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 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 NO OP NAMED REC 6/25/2019 (MILLER)
PENDING CD - 20193069	7/2/2019 - 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)
SPACING - 632844	7/2/2019 - G56 - (640) 7-9N-4W VAC 140574 HNTN EXT 611142 MSSP, WDFD, HNTN, OTHERS
SPACING - 682713	7/2/2019 - 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

087-22260

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

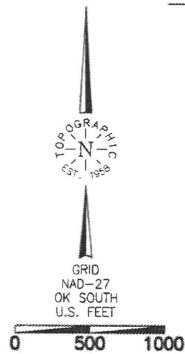
131.00 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

McCLAIN

County, Oklahoma

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



LANDING POINT, TP1, BOTTOM HOLE AND
DRILL PATH INFORMATION PROVIDED BY
OPERATOR LISTED, NOT SURVEYED.

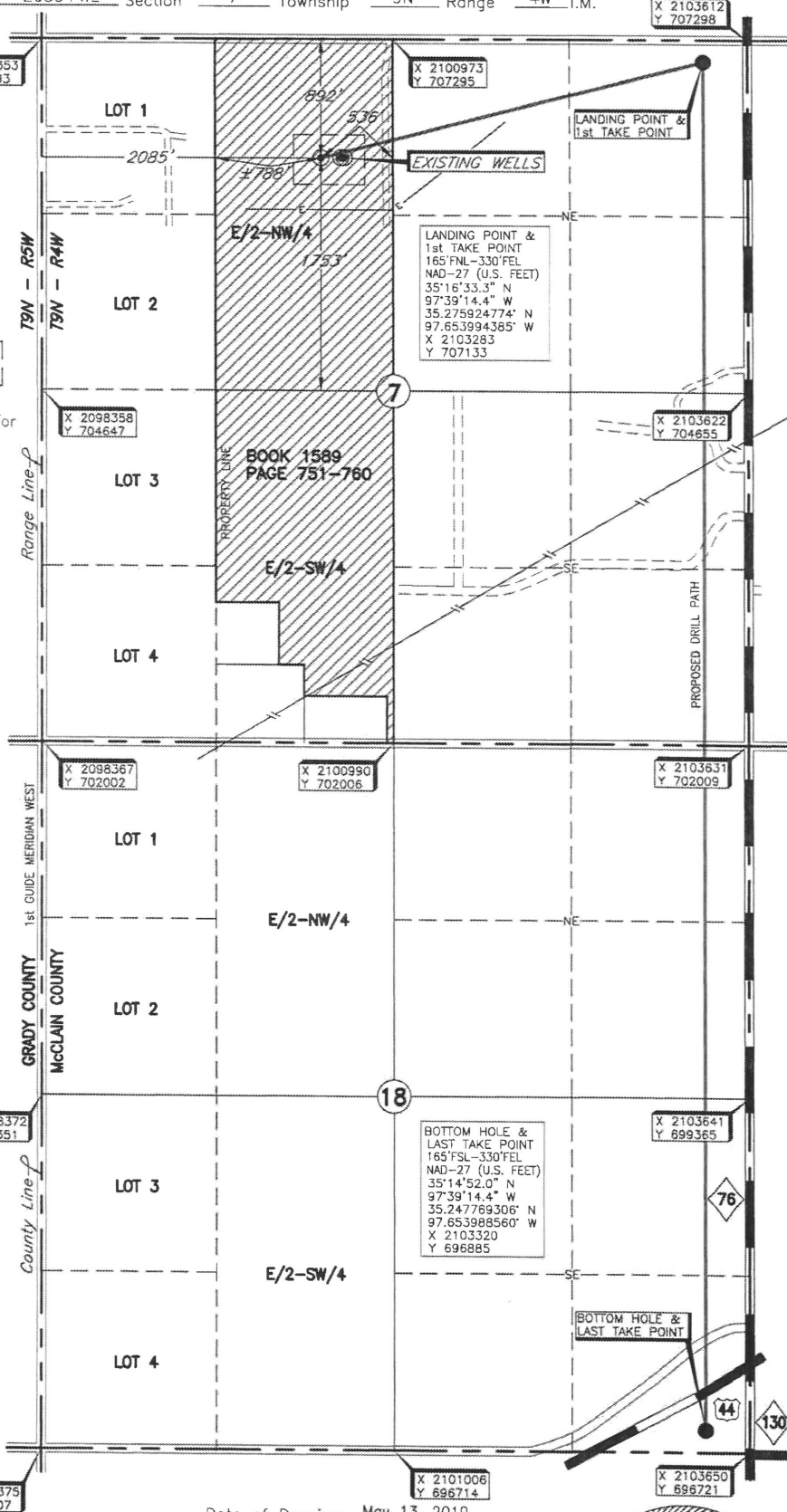
-NOTE-

The information shown herein is for
construction purposes ONLY.

Operator: EOG RESOURCES, INC.
Lease Name: NIGHTHAWK 0718
Topography & Vegetation Location fell on level pod.
Good Drill Site? Yes
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.

Reference Stakes or Alternate Location
Stakes Set None

Well No.: #8H

ELEVATION:
1354' Gr. at Level PodX 2098375
Y 696707

This information was
gathered with a GPS receiver
with ± 1 foot horizontal accuracy

DATUM: NAD-27
LAT: 35°16'26.2" N
LONG: 97°39'48.7" W
LAT: 35°27'39.45404" N
LONG: 97°39'14.4" W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2100439
Y: 706403

Project # 1245081 Date of Drawing: May 13, 2019
Date Staked: May 07, 2019 JP

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 L. Howell
Oklahoma Lic. No. 1433

