

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

API NUMBER: 051 24689

Approval Date: 08/14/2019

Expiration Date: 02/14/2021

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 9N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 339 1720

Lease Name: LIVINGSTON 0112

Well No: 2H

Well will be 339 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

MARY LOUISE LIVINGSTON MARITAL TRUST  
FIRST HAWAIIAN BANK  
PO BOX 3708  
HONOLULU HI 96811

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9114	6	
2	WOODFORD	9160	7	
3	HUNTON	9320	8	
4			9	
5			10	

Spacing Orders: 698051

Location Exception Orders:

Increased Density Orders: 699153

699798

Pending CD Numbers: 201902320  
209103024

Special Orders:

Total Depth: 19940

Ground Elevation: 1304

**Surface Casing: 1000**

Depth to base of Treatable Water-Bearing FM: 780

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? Y

Wellhead Protection Area? Y

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: 19-36419

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 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? Y

Wellhead Protection Area? Y

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 01 Twp 9N Rge 5W County GRADY

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 978

Depth of Deviation: 8605

Radius of Turn: 500

Direction: 358

Total Length: 10550

Measured Total Depth: 19940

True Vertical Depth: 9480

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

### Notes:

#### Category

#### Description

HYDRAULIC FRACTURING

6/11/2019 - 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)

INCREASED DENSITY - 699153

8/5/2019 - GB6 - 1 & 12 -9N-5W  
X698051 WDFD  
7 WELLS  
EOG RESOURCES, INC.  
7/15/2019

INCREASED DENSITY - 699798

8/5/2019 - GB6 - (I.O.) 1 & 12 -9N-5W  
X698051 MSSP  
7 WELLS  
EOG RESOURCES, INC.  
7/26/2019

MEMO

6/11/2019 - 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

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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.

051 24689 LIVINGSTON 0112 2H

Category	Description
PENDING CD - 201902320	<p>8/5/2019 - GB6 - (I.O.) 1 &amp; 12 -9N-5W  X61142 WDFD  X698051 WDFD  X165:10-3-28(C)(2)(B) WDFD (LIVINGSTON 0112 #2H)  MAY BE CLOSER THAN 600' TO PYRITE 1-12, LIVINGSTON 12-1H, LIVINGSTON 0112 #5H, LIVINGSTON 0112 #6H, LIVINGSTON 0112 #7H, LIVINGSTON 0112 #8H AND PROPOSED LIVINGSTON 0112 #3H, LIVINGSTON 0112 #4H, LIVINGSTON 0112 #9H  EOG RESOURCES, INC.  5/20/2019 (MILLER)</p>
PENDING CD - 201903024	<p>8/5/2019 - GB6 - (I.O.) 1 &amp; 12 -9N-5W  X698051 MSSP, HNTN  X165:10-3-28(C)(2)(B) MSSP, WDFD (LIVINGSTON 0112 #2H) MAY BE CLOSER THAN 600' TO LIVINGSTON 12-1H AND PROPOSED LIVINGSTON 0112 #1H, LIVINGSTON 0112 #3H  COMPL. INT. (12-9N-5W) NCT 165' FSL, NCT 0' FNL, NCT 660' FWL  COMPL. INT. (1-9N-5W) NCT 0' FSL, NCT 165' FNL, NCT 660' FWL  NO OP. NAMED  REC. 6/25/2019 (MILLER)</p>
PUBLIC WATER SUPPLY WELLS	<p>6/11/2019 - G71 - COUNTRY MHP - 2 PWS/WPA, NE/4 14-9N-5W</p>
SPACING - 698051	<p>8/5/2019 - GB6 - (1280)(HOR) 1 &amp; 12-9N-5W  EST MSSP, WDFD, HNTN  VAC 140574 HNTN (1-9N-5W)  POE TO BHL (MSSP, HNTN) NCT 660' FB  POE TO BHL (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FWL  (COEXIST SP. ORDER 611142)</p>

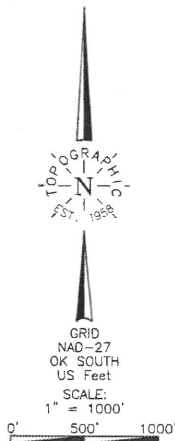
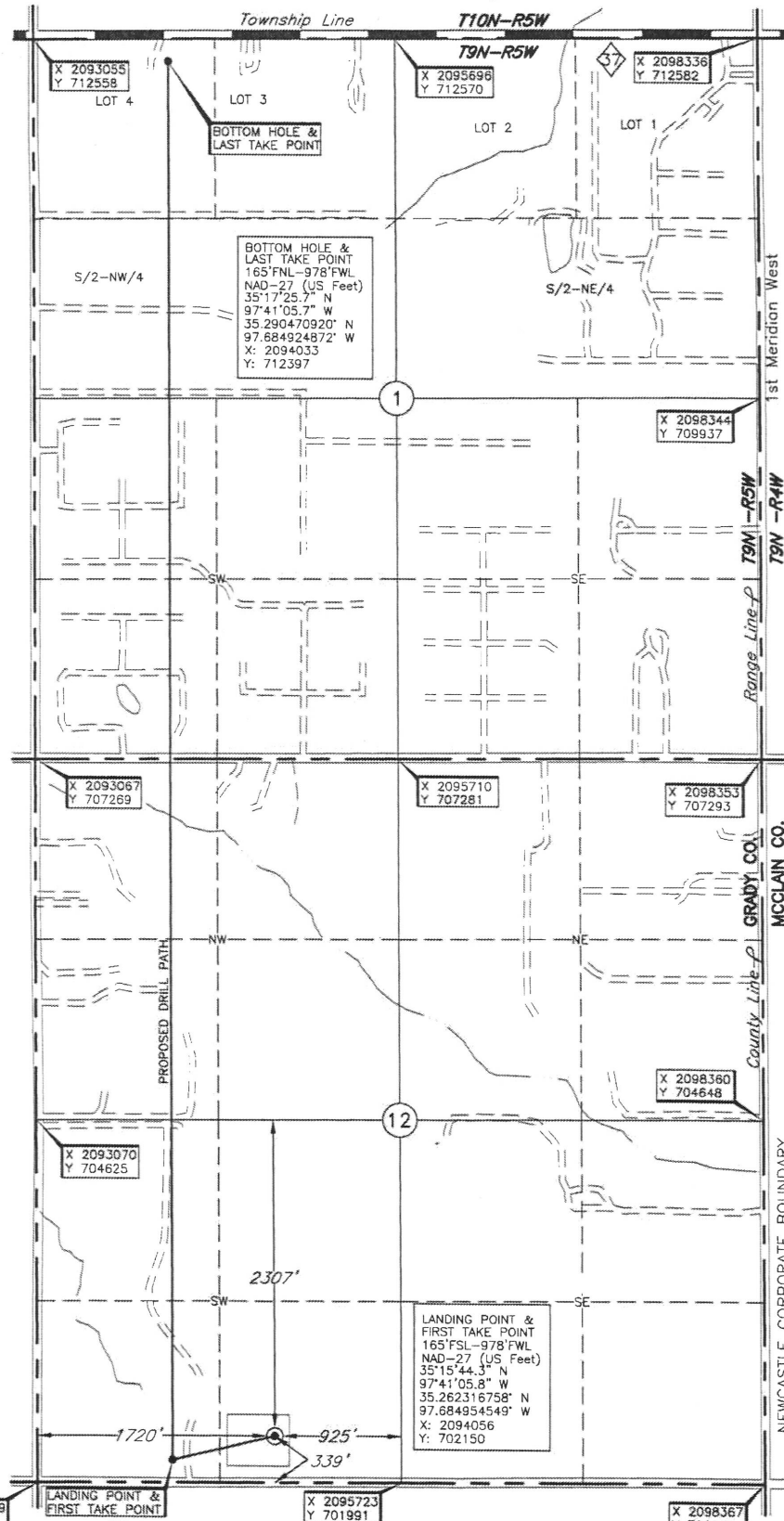
## TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS

GRADY

County, Oklahoma

339' FSL-1720' FWL Section 12 Township 9N Range 5W I.M.

LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION  
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.[THE INFORMATION SHOWN HEREIN IS]  
[FOR CONSTRUCTION PURPOSES ONLY]Operator: EOG RESOURCES, INC  
Lease Name: LIVINGSTON 0112

Topography &amp; Vegetation Location tell on existing pod

Well No.: 2H

ELEVATION:  
1304' Gr. on Level PodGood Drill Site? Yes  
Reference Stakes or Alternate Location  
Stakes Set NoneBest Accessibility to Location From South off county road  
Distance & Direction From the jct. of St. Hwy. 76 South & St. Hwy. 39, go ±2 miles  
from Hwy Jct or Town South on St. Hwy. 76, then ±2 mile West to the SW Cor. of Sec. 12-T9N-R5WThis information was  
gathered with a GPS receiver  
with ±1 foot horiz./vert. accuracy.DATUM: NAD-27  
LAT: 35°15'46.1"N  
LONG: 97°40'56.9"W  
LAT: 35.262795066° N  
LONG: 97.682471069° W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2094797  
Y: 702326Revision ☒ D Date of Drawing: Aug. 12, 2019  
Project #124196H Date Staked: Aug. 12, 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.

Thomas L. Howell  
Oklahoma Lic. No. 1433