

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

API NUMBER: 045 23766

Approval Date: 10/30/2018  
Expiration Date: 04/30/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 18N Rge: 24W County: ELLIS  
SPOT LOCATION:  SW  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 260 1150

Lease Name: HOLLOWAY 22 Well No: 5H 15-18-24 Well will be 260 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC Telephone: 4052463212 OTC/OCC Number: 16231 0

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

MICHAEL C GROSS  
HC 63 BOX 49  
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 MARMATON	9275	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 594643 Location Exception Orders: 675655 Increased Density Orders: 675376

Pending CD Numbers:

Special Orders:

Total Depth: 15000 Ground Elevation: 2401 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 800

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: 100000 Average: 5000

E. Haul to Commercial pit facility: Sec. 34 Twn. 14N Rng. 24W Cnty. 129 Order No: 563353

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

H. SEE MEMO

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: OGALLALA

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: 100000

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: OGALLALA

HORIZONTAL HOLE 1

Sec 22 Twp 18N Rge 24W County ELLIS

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: 8810

Radius of Turn: 751

Direction: 177

Total Length: 5010

Measured Total Depth: 15000

True Vertical Depth: 9440

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

Notes:

Category

Description

DEEP SURFACE CASING

10/19/2018 - GA8 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

10/19/2018 - GA8 - 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 - 675376

10/29/2018 - G56 - 22-18N-24W  
X594643 MRMN  
3 WELLS  
EOG RESOURCES, INC  
3/28/2018

LOCATION EXCEPTION - 675655

10/29/2018 - G56 - (I.O.) 22-18N-24W  
X594643 MRMN  
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL  
EOG RESOURCES, INC.  
4/2/18

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.

045 23766 HOLLOWAY 22 5H 15-18-24

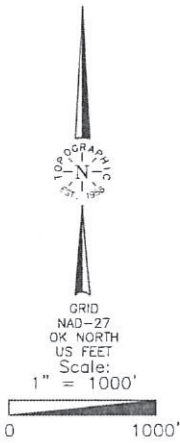
Category	Description
MEMO	10/19/2018 - GA8 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 594643	10/29/2018 - G56 - (640)(HOR) 22-18N-24W EST MRMN, OTHERS COMPL INT NCT 660' FB (COEXIST WITH NON HOR SP UNITS, SUPERSEDE EXISTING NON DEVELOPED NON HOR SP UNITS)

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.

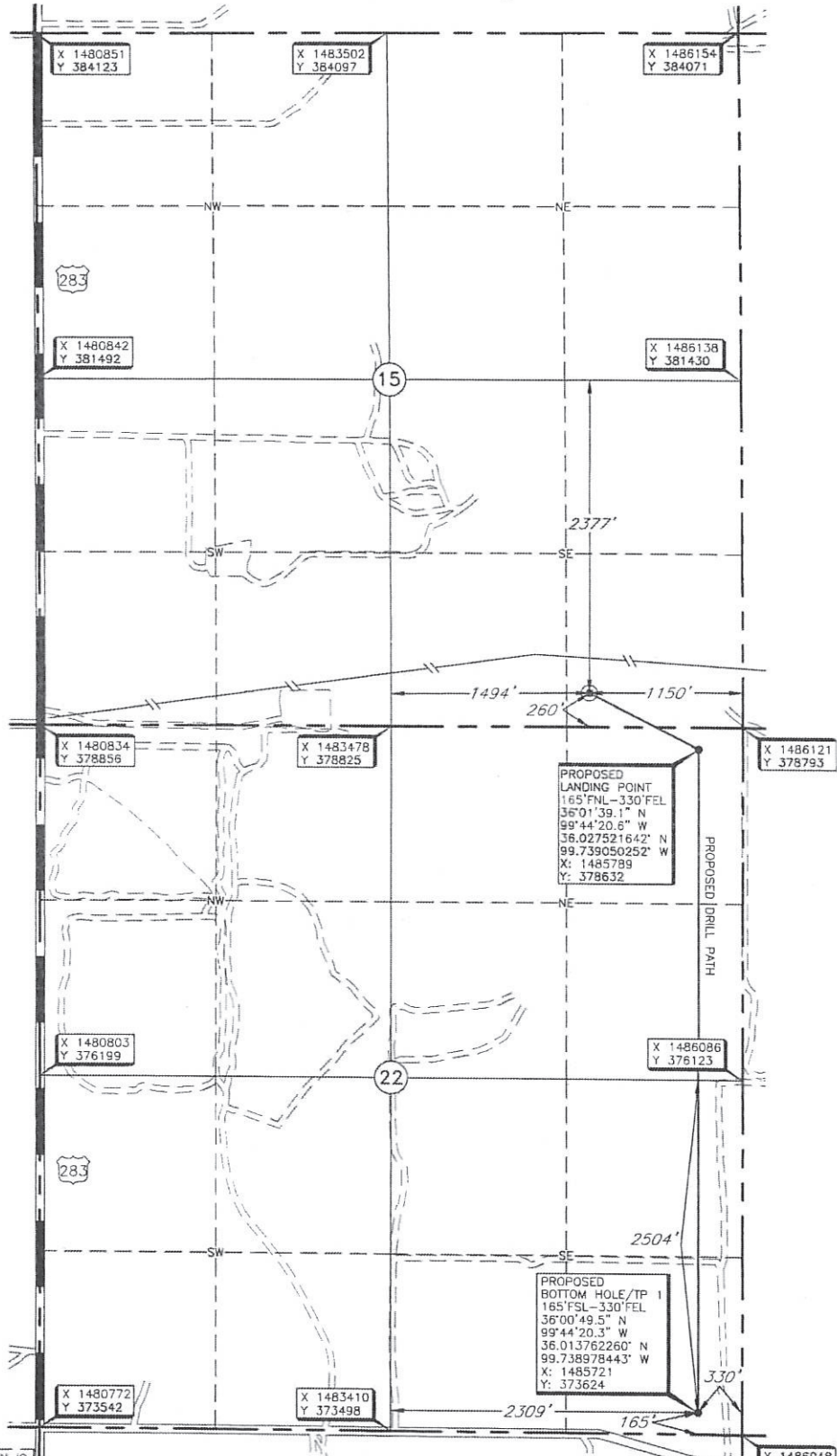
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

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

ELLIS County, Oklahoma  
 260' FSL-1150' FEL Section 15 Township 18N Range 24W I.M.



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



Operator: EOG RESOURCES, INC.  
 Lease Name: HOLLOWAY 22 Well No.: #5H 15-18-24  
 Topography & Vegetation Loc. fell in sandy, brush pasture  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From West off US Hwy. 283  
 Distance & Direction From the junction of US Hwy 283 & US Hwy 60, East of Arnett, Oklahoma, go E 7.4 miles  
 from Hwy Jct or Town South on US Hwy 283 to the Southwest Corner of Section 15, T18N-R24W.

**ELEVATION:**  
 2401' Gr. at Stake

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

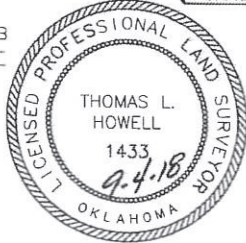
DATUM: NAD-27  
 LAT: 36°01'43.2" N  
 LONG: 99°44'30.6" W  
 LAT: 36.028675442° N  
 LONG: 99.741835515° W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1484973  
 Y: 379066

Revision  A Date of Drawing: Sep. 04, 2018  
 Invoice # 301305 Date Staked: Aug. 25, 2018 NB

**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



X 1486048  
 Y 373453