

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

API NUMBER: 045 23737

Approval Date: 04/05/2018
Expiration Date: 10/05/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 18N Rge: 24W County: ELLIS
SPOT LOCATION: NE NW NE NW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 250 1775

Lease Name: HOLLOWAY Well No: 22 4H Well will be 250 feet from nearest unit or lease boundary.
Operator Name: EOG RESOURCES INC Telephone: 4052463212 OTC/OCC Number: 16231 0

EOG RESOURCES INC
PO BOX 4362
OKLAHOMA CITY, OK 73112-1483

REX BOYD HOLLOWAY
PO BOX 408
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: 675654 Increased Density Orders: 675376

Pending CD Numbers:

Special Orders:

Total Depth: 14600 Ground Elevation: 2396 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 740

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 100000 Average: 5000

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-33840

H. SEE MEMO

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: OGALLALA

HORIZONTAL HOLE 1

Sec 22 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2075

Depth of Deviation: 8810

Radius of Turn: 427

Direction: 172

Total Length: 5119

Measured Total Depth: 14600

True Vertical Depth: 9440

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

Additional Surface Owner	Address	City, State, Zip
WILLIS & CONNIE SHOAF	BOX 432	ARNETT, OK 73832
LOUIS P. HOLLOWAY	BOX 272	ARNETT, OK 73832

Notes:

Category	Description
DEEP SURFACE CASING	3/20/2018 - 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	3/20/2018 - 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
INCREASED DENSITY - 675376	3/26/2018 - G56 - 22-18N-24W X594643 MRMN 3 WELLS EOG RESOURCES, INC. 3/28/18

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 23737 HOLLOWAY 22 4H

Category	Description
LOCATION EXCEPTION - 675654	3/26/2018 - G56 - (I.O.) 22-18N-24W X594643 MRMN COMPL. INT. NCT 165' FNL FSL, NCT 2075 FEL EOG RESOURCES, INC. 4/2/18
MEMO	3/20/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 – WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO COMMERCIAL PIT OR LONE MOUNTAIN FACILITY, EPA ID # OKD065438376, 28 & 33-23N-15W, MAJOR CO
SPACING - 594643	3/26/2018 - G56 - (640) (HOR) 22-18N-24W EST. MRMN, OTHERS (COEXIST WITH PRODUCING NON HOR. DRILLING & SP. UNITS AND SUPERCEDE NON- DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS)

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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.

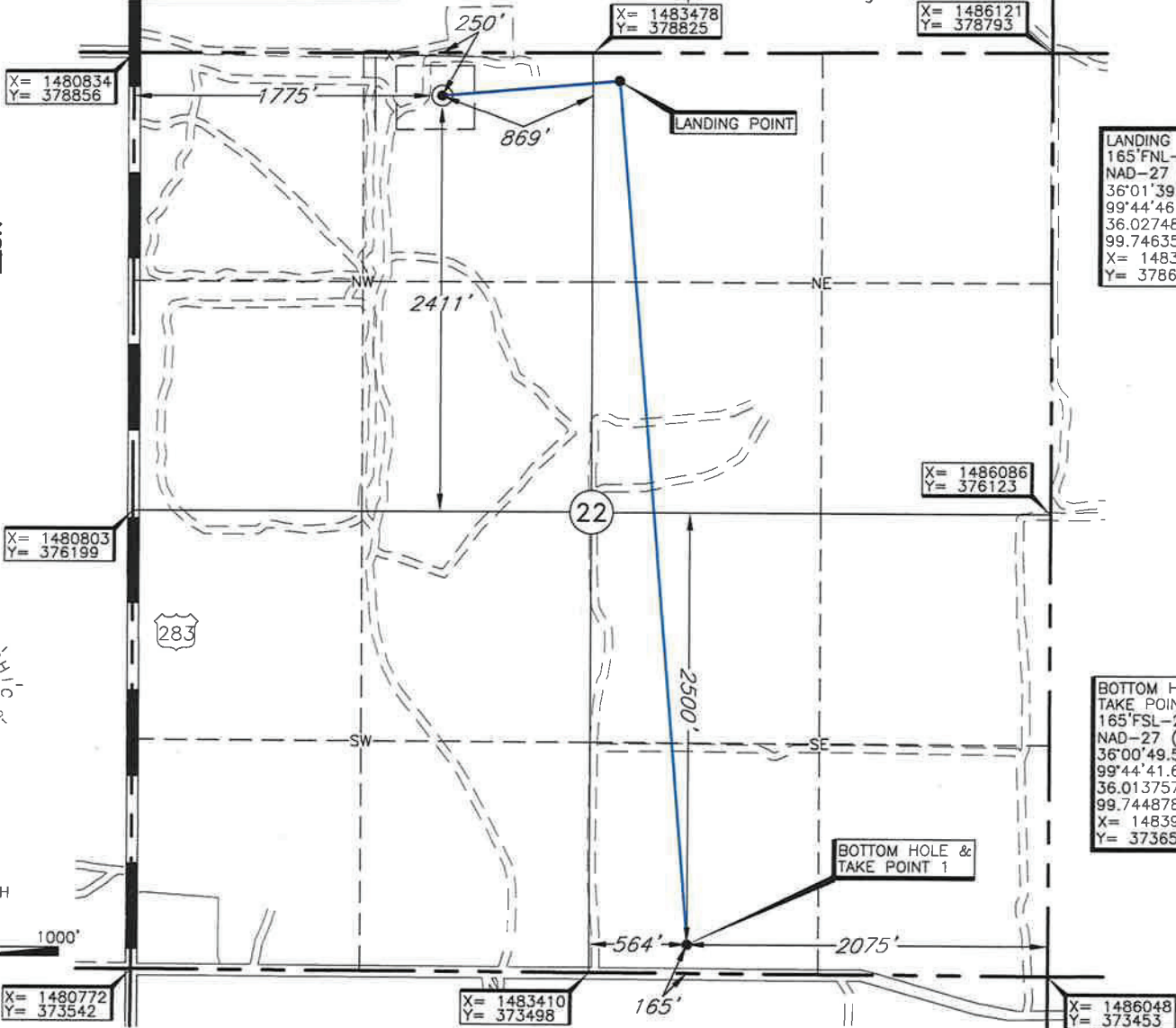
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

ELLIS

County, Oklahoma

250'FNL-1775'FWL Section 22 Township 18N Range 24W I.M.

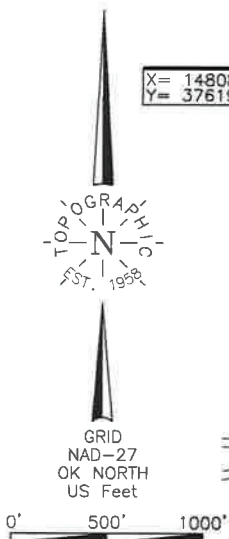


LANDING POINT
 165'FNL-2490'FEL
 NAD-27 (US Feet)
 36°01'39.0"N
 99°44'46.9"W
 36.027486282°N
 99.746354804°W
 X= 1483629
 Y= 378658

BOTTOM HOLE & TAKE POINT 1
 165'FSL-2075'FEL
 NAD-27 (US Feet)
 36°00'49.5"N
 99°44'41.6"W
 36.013757380°N
 99.744878668°W
 X= 1483976
 Y= 373653

LANDING POINT, 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: HOLLOWAY 22

Well No.: #4H

ELEVATION:
2396' Gr. at Stake

Topography & Vegetation Loc. fell in sandy hill pasture with scattered trees.

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North off existing lease road.

Distance & Direction from Hwy Jct or Town From the junction of US Hwy. 283 and US Hwy. 60 East of Arnett,

OK, go South on US Hwy. 283 for ±7.4 miles to the NW Cor. of Sec. 22-T18N-R24W.

DATUM: NAD-27
 LAT: 36°01'38.0"N
 LONG: 99°44'59.3"W
 LAT: 36.027235929°N
 LONG: 99.749811080°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1482606
 Y: 378585

Date of Drawing: Jan. 22, 2018
 Invoice # 287062A Date Staked: Jan. 18, 2018

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



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy