

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

API NUMBER: 045 23800

Approval Date: 05/23/2019

Expiration Date: 11/23/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 19N Rge: 24W County: ELLIS

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 190 1360

Lease Name: OPAL 0631

Well No: 3H

Well will be 190 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

VIRGINIA L RICH
8219 RAINTREE DRIVE NE
ALBUQUERQUE MN 87122

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

Name	Depth	Name	Depth
1 MARMATON	9050	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 584550

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902241
201902242
201902243
201902244

Special Orders:

Total Depth: 19980

Ground Elevation: 2356

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 490

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: 8000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

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? 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 06 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2350

Depth of Deviation: 8572

Radius of Turn: 443

Direction: 175

Total Length: 10712

Measured Total Depth: 19980

True Vertical Depth: 9217

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

Notes:

Category

Description

DEEP SURFACE CASING

5/2/2019 - 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

5/2/2019 - 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

5/2/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - ARNETT CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201902241

5/7/2019 - GB1 - (640)(HOR) 6-18N-24W
EXT 584550 MRMN
COMPL. INT. (MRMN) NCT 660' FB
(COEXIST SPACING #165624 BGLM, OSWG; SPACING #578804 PERU)
REC. 5/20/2019 (MILLER)

This permit does not address the right of entry or settlement of surface damages.

045 23800 OPAL 0631 3H

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

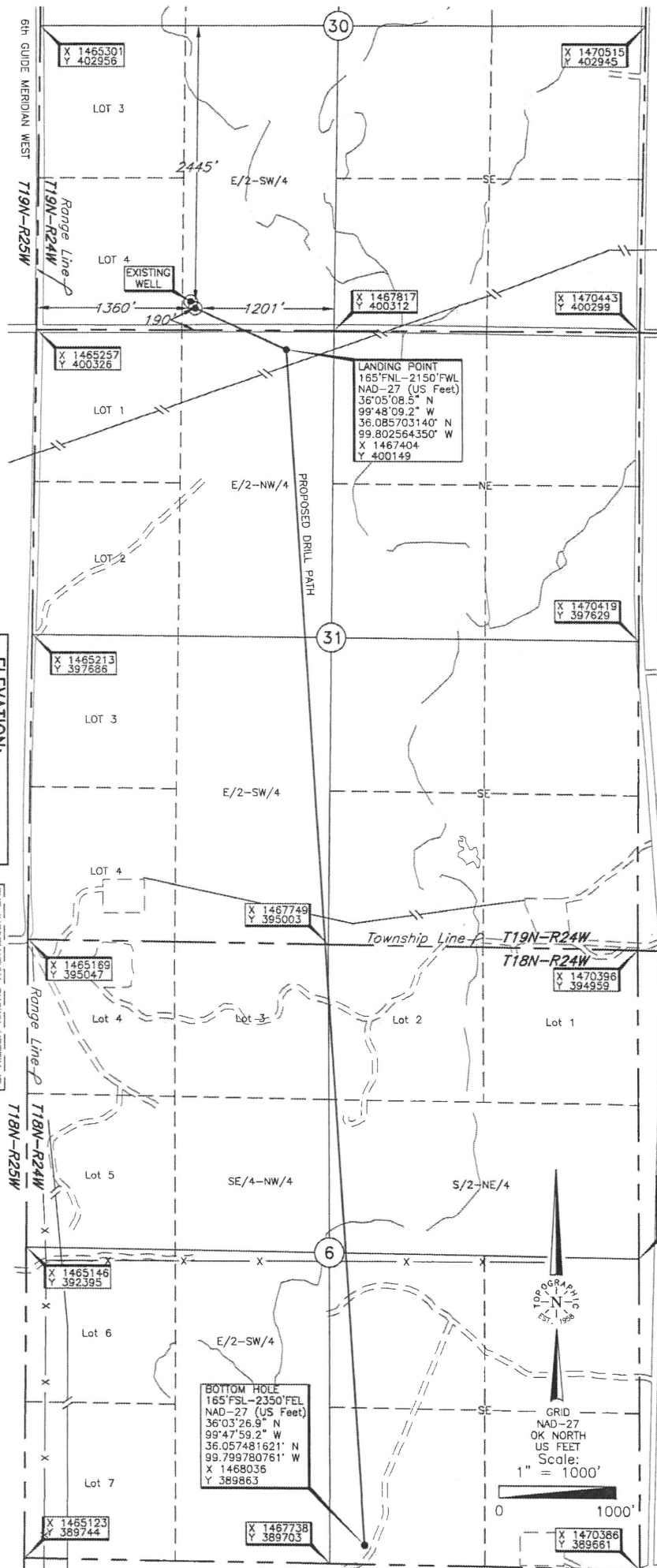
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201902242	5/7/2019 - GB1 - 31-19N-24W X584550 MRMN 1 WELL NO OP. NAMED REC. 5/20/2019 (MILLER)
PENDING CD - 201902243	5/7/2019 - GB1 - (I.O.) 31-19N-24W & 6-18N-24W EST MULTIUNIT HORIZONTAL WELL X584550 MRMN 31-19N-24W X201902241 MRMN 6-18N-24W 50% 31-19N-24W 50% 6-18N-24W NO OP. NAMED REC. 5/20/2019 (MILLER)
PENDING CD - 201902244	5/7/2019 - GB1 - (I.O.) 31-19N-24W & 6-18N-24W X584550 MRMN 31-19N-24W X201902241 MRMN 6-18N-24W COMPL. INT. (31-19N-24W) NCT 165' FNL, NCT 0' FSL, NCT 2150' FWL COMPL. INT. (6-18N-24W) NCT 0' FNL, NCT 165' FSL, NCT 2150' FWL NO OP. NAMED REC. 5/20/2019 (MILLER)
SPACING - 584550	5/7/2019 - GB1 - (640)(HOR) 31-19N-24W EST MRMN, OTHERS COMPL. INT. (MRMN) NCT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

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



ELEVATION:
 2356' Gr. at level pod

THE INFORMATION SHOWN HEREIN IS
 FOR CONSTRUCTION PURPOSES ONLY

Operator: EOG RESOURCES, INC.
 Lease Name: OPAL 0631
 Topography & Vegetation Loc. fell on level pod, ±60' South and ±40' East of existing well
 Good Drill Site? Yes
 Best Accessibility to Location From South off county road
 Distance & Direction From Hwy Jet or Town From Jet, US Hwy. 283 South & US Hwy. 60 E-W, East of
Arnett, OK, go ±3.5 mi. South, then ±2.0 mi. West to the SE Cor. of Sec. 30-T19N-R24W

DATUM: NAD-27
 LAT: 36°05'11.9"N
 LONG: 99°48'18.9"W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1466620
 Y: 400508

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

Date of Drawing: Apr. 09, 2019
 Project # 125435 Date Staked: Apr. 08, 2019

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.

Oklahoma Lic. No. 1433

