

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

API NUMBER: 045 23700

Approval Date: 11/14/2017

Expiration Date: 05/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 17N Rge: 24W

County: ELLIS

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 1285

Lease Name: BERRYMAN

Well No: 12 6H

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
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

TRC OKLAHOMA RANCH LLC
PO BOX 787
ASHLAND KS 67831

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

Name	Depth	Name	Depth
1 MARMATON	9590	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 666498

Location Exception Orders: 667428

Increased Density Orders: 667754

Pending CD Numbers:

Special Orders:

Total Depth: 14948

Ground Elevation: 2373

Surface Casing: 910

Depth to base of Treatable Water-Bearing FM: 660

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

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33368

E. Haul to Commercial pit facility: Sec. 21 Twn. 14N Rng. 21W Cnty. 129 Order No: 376462

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 12 Twp 17N Rge 24W County ELLIS

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 610

Depth of Deviation: 9024

Radius of Turn: 369

Direction: 3

Total Length: 5344

Measured Total Depth: 14948

True Vertical Depth: 9604

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

HYDRAULIC FRACTURING

11/3/2017 - 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 - 667754

11/14/2017 - G60 - 12-17N-24W
X666498 MRMN
3 WELLS
EOG RESOURCES INC.
9/1/17

LOCATION EXCEPTION - 667428

11/14/2017 - G60 - (I.O.) 12-17N-24W
X666498 MRMN
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 550' FEL
EOG RESOURCES, INC.
8/24/17

MEMO

11/3/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

045 23700 BERRYMAN 12 6H

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
SPACING - 666498	11/14/2017 - G60 - (640)(HOR) 12-17N-24W EXT 579146 MRMN POE TO BHL NCT 660' FB (COEXIST SP. ORDER 503614 BGLM & ORDER 126062 OSWG)

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.

3504523700

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

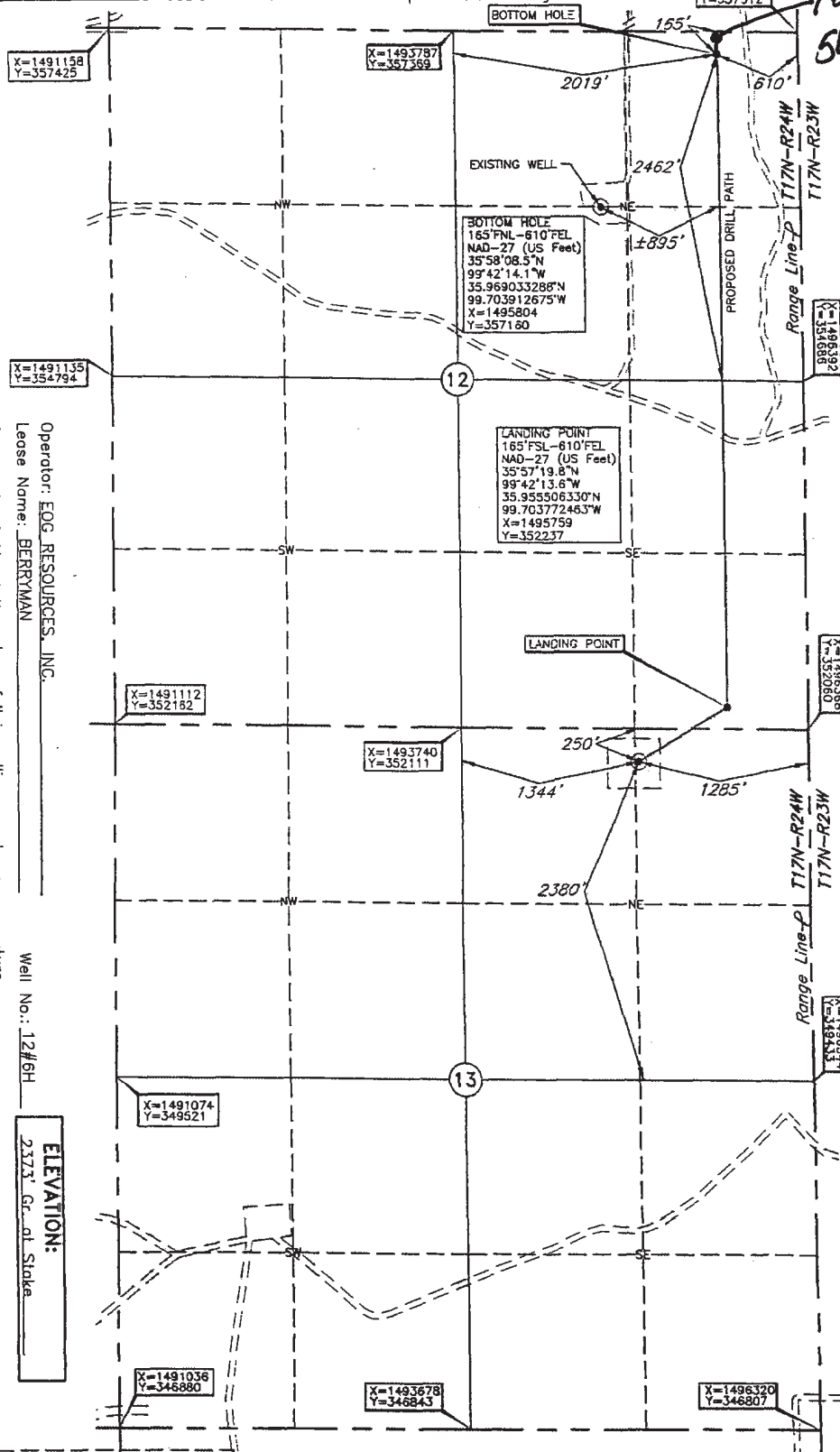
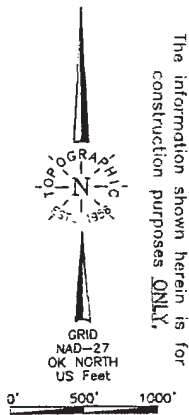
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 554-3219

Certificate of Authorization No. 1293 LS

ELLIS

County, Oklahoma

250' FNL - 1285' FEL Section 13 Township 17N Range 24W I.M.



Operator: EOG RESOURCES, INC.
 Lease Name: BERRYMAN
 Topography & Vegetation Loc. fell in rolling, sandy grass pasture
 Good Drill Site? Yes
 Reference Stakes or Alternate Location
 Stakes Set None
 Best Accessibility to Location From NW off trail road
 Distance & Direction From jct. US Hwy. 283 and US Hwy. 60 at Arnett, OK, go ±13.0 mi. South to lease road East, then ±1.5 mi. East on lease road, then ±0.5 mi. North, then ±0.7 mi. East, then continue on trail to location in the NE 1/4 of Sec. 13-T17N-R24W

Well No.: 12#6H

ELEVATION:

2373' Gr. at Stake

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

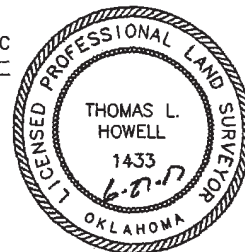
Revision A Date of Drawing: Jun. 26, 2017Invoice # 277649A Date Staked: Jun. 20, 2017

AC

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



DATUM: NAD-27
 LAT: 35°57'15.7"N
 LONG: 99°42'21.7"W
 LAT: 35.954370209° N
 LONG: 99.706040687° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1495081
 Y: 351835