

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

API NUMBER: 045 23699

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: ☐ NE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 1325

Lease Name: BERRYMAN

Well No: 12 5H

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: 667427

Increased Density Orders: 667754

Pending CD Numbers:

Special Orders:

Total Depth: 14966

Ground Elevation: 2374

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: 17-33369

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 NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1964

Depth of Deviation: 9024

Radius of Turn: 369

Direction: 357

Total Length: 5362

Measured Total Depth: 14966

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 - 667427

11/14/2017 - G60 - (I.O.) 12-17N-24W
X666498 MRMN
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1965' 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 23699 BERRYMAN 12 5H

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.

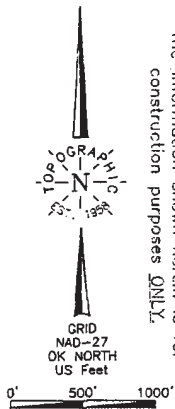
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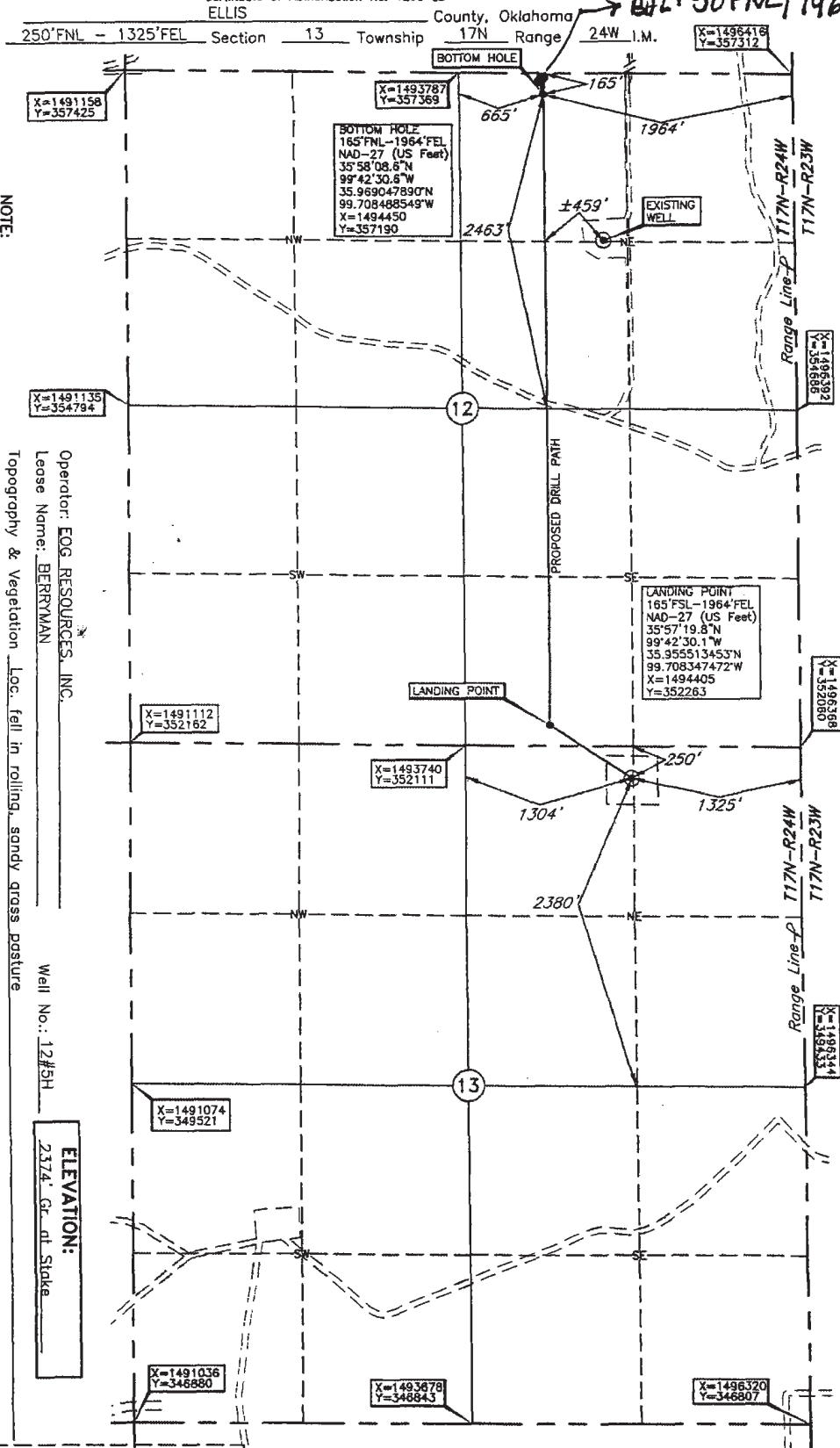
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

3504523699



NOTE:
The information shown herein is for construction purposes ONLY.



Operator: EOG RESOURCES, INC.
Lease Name: BERRYMAN
Topography & Vegetation: Loc. fell in rolling, sandy grass pasture
Well No.: 12#BH
ELEVATION: 2374' Gr. at Stake

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

Best Accessibility to Location: From NW off trail road
Distance & Direction: From Hwy Jct or Town: 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 10.5 mi. North, then 10.7 mi. East, then continue on trail to location in the NE 1/4 of Sec. 13-117N-R24W

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

Revision ☒ A Date of Drawing: Jun. 22, 2017
Invoice # 277649 Date Staked: Jun. 20, 2017

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°42'22.2"W
LAT: 35°54'37.0325" N
LONG: 99.706176009" W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1495041
Y: 351836

