

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

API NUMBER: 045 23713

Approval Date: 12/27/2017
Expiration Date: 06/27/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 17N Rge: 24W County: ELLIS
SPOT LOCATION: SE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 250 1600

Lease Name: MILLER Well No: 0334 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
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

EDDIE MAX MILLER REVOCABLE TRUST
42585 US HWY 283
SUSAN E MILLER REVOCABLE TRUST
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 MARMATON	9423	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 601473 Location Exception Orders: 670740 Increased Density Orders: 666032
601929 670385
670387

Pending CD Numbers:

Special Orders:

Total Depth: 20011 Ground Elevation: 2363 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 600

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: 17-33417

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 34 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8907

Radius of Turn: 435

Direction: 10

Total Length: 10421

Measured Total Depth: 20011

True Vertical Depth: 9586

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

Notes:

Category

Description

DEEP SURFACE CASING

12/12/2017 - 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

12/12/2017 - 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 - 666032

12/27/2017 - G58 - 34-18N-24W
X601929 MRMN
2 WELLS
EOG RESOURCES, INC.
7/17/2017

INCREASED DENSITY - 670385

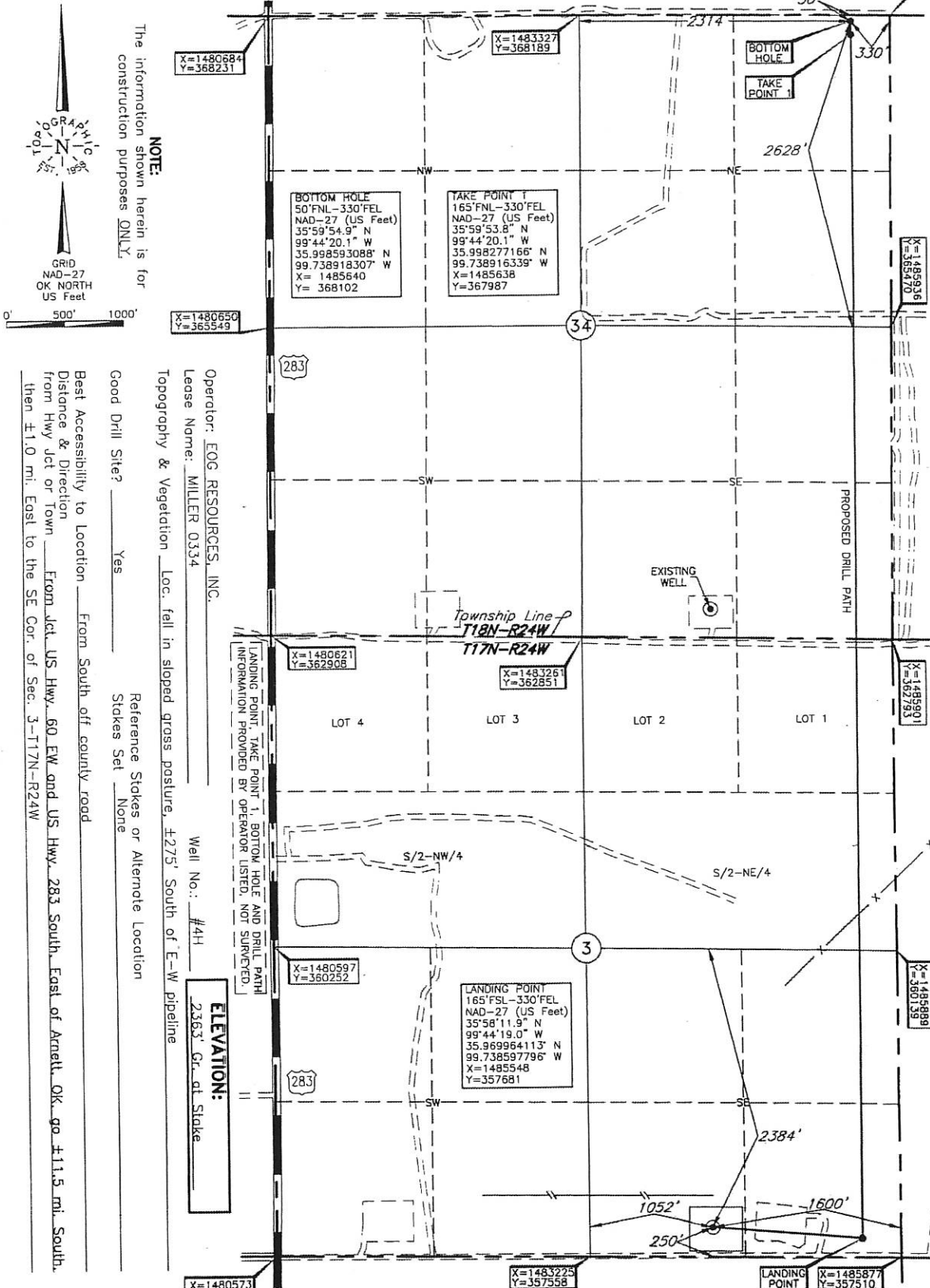
12/27/2017 - G58 - (E.O.) 3-17N-24W
X601473 MRMN
2 WELLS
EOG RESOURCES, INC.
11/22/2017

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.

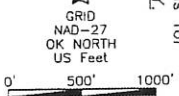
Category	Description
LOCATION EXCEPTION - 670740	12/27/2017 - G58 - (E.O.) 3-17N-24W & 34-18N-24W X601473 MRMN 3-17N-24W X601929 MRMN 34-18N-24W COMPL. INT. (3-17N-24W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (34-18N-24W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL 12/6/2017
MEMO	12/12/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM CUTTINGS TO BE SOIL FARMED, PIT 2 - OBM CUTTINGS TO HAULED TO COMM PITS, OBM TO VENDOR
SPACING - 601473	12/27/2017 - G58 - (640)(HOR) 3-17N-24W EXT 593688/579146 MRMN, OTHERS POE TO BHL NCT 660' FB (SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING, NON-HORIZONTAL SPACING UNITS)
SPACING - 601929	12/27/2017 - G58 - (640)(HOR) 34-18N-24W EXT 588987/590896 MRMN, OTHERS POE TO BHL NCT 660' FB (SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING, NON-HORIZONTAL SPACING UNITS)
SPACING - 670387	12/27/2017 - G58 - (E.O.) 3-17N-24W & 34-18N-24W EST MULTIUNIT HORIZONTAL WELL X601473 MRMN 3-17N-24W X601929 MRMN 34-18N-24W 50% 3-17N-24W 50% 34-18N-24W EOG RESOURCES, INC. 11/22/2017

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.

ELLIS County, Oklahoma
 250' FSL - 1600' FEL Section 3 Township 17N Range 24W I.M.



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



Operator: EOG RESOURCES, INC.
 Lease Name: MILLER 0334
 Topography & Vegetation: Loc. fall in sloped gross posture, ±275' South of E-W pipeline
 Well No.: #4H
 ELEVATION: 2363' Gr. at Stake
 Good Drill Site? Yes No
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From South of county road
 Distance & Direction: From Jct. US Hwy. 60 EW and US Hwy. 283 South, East of Arnett, Ok., go ±11.5 mi. South, then ±1.0 mi. East to the SE Cor. of Sec. 3-T17N-R24W

LANDING POINT, TAKE POINT 1, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

DATUM: NAD-27
 LAT: 35°58'12.7"N
 LONG: 99°44'34.4"W
 LAT: 35.970198146° N
 LONG: 99.742892784° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1484279
 Y: 357789

Date of Drawing: Nov. 17, 2017
 Invoice # 283513A Date Staked: Nov. 14, 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

