

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

API NUMBER: 045 23693 B

Approval Date: 09/29/2017
Expiration Date: 03/29/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE BHL; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 17N Rge: 23W

County: ELLIS

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 250 1775

Lease Name: MILLER 0631

Well No: 2H

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 & SUSAN E MILLER
42585 US HWY 283
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 MARMATON	9570	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 578857
671422
668811

Location Exception Orders:

Increased Density Orders: 669992

Pending CD Numbers: 201705755
201705759

Special Orders:

Total Depth: 20152

Ground Elevation: 2435

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 750

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: 17-33134

H. SEE MEMO

E. Haul to Commercial pit facility: Sec. 24 Twn. 14N Rng. 21W Cnty. 129 Order No: 372833

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 31 Twp 18N Rge 23W County ELLIS

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 119

Feet From: WEST 1/4 Section Line: 2044

Depth of Deviation: 9012

Radius of Turn: 900

Direction: 360

Total Length: 10560

Measured Total Depth: 20152

True Vertical Depth: 9592

End Point Location from Lease,
Unit, or Property Line: 119

Notes:

Category

Description

DEEP SURFACE CASING

9/25/2017 - 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

9/25/2017 - 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 - 669992

9/29/2017 - G60 - 31-18N-23W
X578857 MRMN
3 WELLS
EOG RESOURCES, INC.
11/13/17

MEMO

9/26/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO LONE MOUNTAIN FACILITY, EPA ID # OKD065438376, 28 & 33-23N-15W, MAJOR CO.

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

045 23693 MILLER 0631 2H

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 - 201705755	<p>1/9/2018 - G60 - (E.O.) 6-17N-23W & 31-18N-23W X579707 MRMN 31-18N-23W ** X201705302 MRMN 6-17N-23W COMPL. INT. (6-17N-23W) NCT 165' FSL, NCT 0' FNL, NCT 1975' FWL COMPL. INT. (31-18N-23W) NCT 0' FSL, NCT 119' FNL, NCT 1975' FWL EOG RESOURCES REC. 1/8/18 (NORRIS)</p> <p>**SHOULD BE 578857 FOR THE MRMN, TO BE CORRECTED AT HEARING FOR FINAL LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201705759	<p>10/5/2017 - G60 - 6-17N-23W X201705302 MRMN 3 WELLS NO OP. NAMED REC. 7/25/17 (THOMAS)</p>
SPACING - 578857	<p>9/29/2017 - G60 - (640)(HOR) 31-18N-23W EST MRMN COMPL. INT. NLT 660' FB</p>
SPACING - 668811	<p>9/29/2017 - G60 - (640)(HOR) 6-17N-23W X578857 MRMN COMPL. INT. NLT 660' FB</p>
SPACING - 671422	<p>9/29/2017 - G60 - (I.O.) 6-17N-23W & 18N-23W EST MULTIUNIT HORIZONTAL WELL X578857 MRMN 31-18N-23W X201705302 MRMN 6-17N-23W 50% 6-17N-23W 50% 31-18N-23W NO OP. NAMED 12/22/17</p> <p>**SHOULD BE 578857 FOR THE MRMN, TO BE CORRECTED AT HEARING FOR FINAL MULTIUNIT PER ATTORNEY FOR OPERATOR</p>

