

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

API NUMBER: 051 24347 A

Approval Date: 05/04/2018  
Expiration Date: 11/04/2018

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 9N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 320 1613

Lease Name: LIVINGSTON

Well No: 12 1H

Well will be 320 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC

Telephone: 4052463212

OTC/OCC Number: 16231 0

EOG RESOURCES INC  
PO BOX 4362  
OKLAHOMA CITY, OK 73112-1483

MARY LOUISE LIVINGSTON MARITAL TRUST  
PO BOX 3708  
FIRST HAWAIIAN BANK/TRUSTEE C/O 1ST HAWAIIAN  
BANK  
HONOLULU HI 96811

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9200	6	
2	WOODFORD	9280	7	
3	HUNTON	9400	8	
4			9	
5			10	

Spacing Orders: 611142

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802752  
201802754  
201803675

Special Orders:

Total Depth: 14379

Ground Elevation: 1304

Surface Casing: 1000

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: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? Y

Wellhead Protection Area? Y

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: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34372  
E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498  
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? Y

Wellhead Protection Area? Y

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: DUNCAN

## HORIZONTAL HOLE 1

Sec 12 Twp 9N Rge 5W County GRADY

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 8637

Radius of Turn: 500

Direction: 355

Total Length: 4957

Measured Total Depth: 14379

True Vertical Depth: 9419

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

### Notes:

#### Category

#### Description

HYDRAULIC FRACTURING

4/20/2018 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

4/20/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM CUTTINGS TO R360 (ORDER # 587498) OR DEQ APPROVED FACILITY (SOUTHERN PLAINS LANDFILL, 3-5N-6W, GRADY CO., # 3526013); PIT 2 - OBM TO VENDOR

PENDING CD - 201802752

5/2/2018 - G58 - 12-9N-5W  
X611142 WDFD  
1 WELL  
NO OP. NAMED  
REC 4/30/2018 (P. PORTER)

PENDING CD - 201802754

5/2/2018 - G58 - (I.O.) 12-9N-5W  
X611142 MSSP, WDFD, HNTN  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL  
NO OP. NAMED  
REC 4/30/2018 (P. PORTER)

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051 24347 LIVINGSTON 12 1H

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Category	Description
PENDING CD - 201803675	5/4/2018 - G58 - 12-9N-5W X611142 MSSP 1 WELL NO OP. NAMED HEARING 6/4/2018
PUBLIC WATER SUPPLY WELL	4/20/2018 - G71 - COUNTRY MHP - 2 PWS/WPA, NE/4 14-9N-5W
SPACING - 611142	5/2/2018 - G58 - (640) 12-9N-5W EXT 414572/420559 MSSP, WDFD, HNTN