

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

API NUMBER: 051 24666 A

Approval Date: 07/02/2019

Expiration Date: 01/02/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE SHL AND BHL

AMEND PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: SE SE SW SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 291 1327

Lease Name: LIVINGSTON 0112

Well No: 5H

Well will be 291 feet from nearest unit or lease boundary.

Operator EOG RESOURCES INC
Name:

Telephone: 4052463224

OTC/OCC Number: 16231 0

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

MARY LOUISE LIVINGSTON MARITAL TRUST
1ST HAWAIIAN BANK
PO BOX 3708
HONOLULU HI 96811

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

Name	Depth	Name	Depth
1 WOODFORD	9350	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 698051

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809236
201902320
201903027

Special Orders:

Total Depth: 19516

Ground Elevation: 1344

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 880

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: 19-36419

H. SEE MEMO

G. Haul to recycling/re-use facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 662791

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 01 Twp 9N Rge 5W County GRADY

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1875

Depth of Deviation: 8785

Radius of Turn: 400

Direction: 355

Total Length: 10103

Measured Total Depth: 19516

True Vertical Depth: 9406

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

Notes:

Category

Description

HYDRAULIC FRACTURING

6/11/2019 - 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

MEMO

6/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 - WBM/CUTTINGS WILL BE SOIL FARMED & PIT 2 - CUTTINGS TO BE HAUL TO COMM SOIL FARMING FAC (HEARTLAND RES) 660850/661694/662791/663822 OR TO DEQ APPROVED FAC - SOUTHERN PLAINS LANDFILL (GRADY CO) 3526013, PIT 2 - OBM TO VENDOR

PENDING CD - 201809236

7/2/2019 - G58 - 1 & 12-9N-5W
X201804554 WDFD
7 WELLS
NO OP. NAMED
REC 4/24/2019 (M. PORTER)

PENDING CD - 201902320

7/2/2019 - G58 - (I.O.) 1 & 12-9N-5W
X165:10-3-28(C)(2)(B) WDFD (LIVINGSTON 0112 5H)
MAY BE CLOSER THAN 600' TO PROPOSED WELLS
MAY BE CLOSER THAN 600' TO PYRITE 1-12 WELL
MAY BE CLOSER THAN 600' TO LIVINGSTON 12-1H WELL
REC 5/21/2019 (NORRIS)

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

051 24666 LIVINGSTON 0112 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
PENDING CD - 201903027	7/2/2019 - G58 - (I.O.) 1 & 12-9N-5W X698051 WDFD, OTHERS X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. 12-9N-5W NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. 1-9N-5W NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL NO OP. NAMED REC 6/25/2019 (MILLER)
PUBLIC WATER SUPPLY WELLS	6/11/2019 - G71 - COUNTRY MHP - 2 PWS/WPA, NE/4 14-9N-5W
SPACING - 698051	7/2/2019 - G58 - (1280)(HOR) 1 & 12-9N-5W VAC OTHER X611142 WDFD, POE TO BHL NCT 165' FSL, NCT 165' FNL, NCT 330' FWL (COEXIST SP. ORDER 611142 WDFD)

This permit does not address the right of entry or settlement of surface damages.
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Office of the Conservation Division as to when Surface Casing will be run.