

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

API NUMBER: 051 24692

Approval Date: 08/15/2019

Expiration Date: 02/15/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 339 1795

Lease Name: LIVINGSTON 0112

Well No: 9H

Well will be 339 feet from nearest unit or lease boundary.

Operator Name: EOG RESOURCES INC

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
C/O 1ST HAWAIIAN BANK
PO BOX 3708
HONOLULU HI 96811

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9114	6	
2	WOODFORD	9160	7	
3			8	
4			9	
5			10	

Spacing Orders: 698051

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902320
201903629
201903630

Special Orders:

Total Depth: 19644

Ground Elevation: 1304

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 780

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: 19-36787

H. SEE MEMO

F. Haul to Commercial soil farming facility: Sec. 1 Twn. 15N Rng. 11W Cnty. 11 Order No: 698697

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 NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2497

Depth of Deviation: 8609

Radius of Turn: 500

Direction: 5

Total Length: 10250

Measured Total Depth: 19644

True Vertical Depth: 9404

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

Notes:

Category

Description

DEEP SURFACE CASING

8/13/2019 - 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

8/13/2019 - 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

8/13/2019 - 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) 698697 OR TO DEQ APPROVED FAC - SOUTHERN PLAINS LANDFILL (GRADY CO) 3526013, PIT 2 - OBM TO VENDOR

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.

051 24692 LIVINGSTON 0112 9H

Category	Description
PENDING CD - 201902320	8/15/2019 - GB6 - (I.O.) 1 & 12 -9N-5W X698051 WDFD X165:10-3-28(C)(2)(B) WDFD (LIVINGSTON 0112 #9H) MAY BE CLOSER THAN 600' TO PYRITE 1-12, LIVINGSTON 12-1H, LIVINGSTON 0112 #5H, LIVINGSTON 0112 #6H, LIVINGSTON 0112 #7H, LIVINGSTON 0112 #8H AND PROPOSED LIVINGSTON 0112 #2H, LIVINGSTON 0112 #3H, LIVINGSTON 0112 #4H EOG RESOURCES, INC. REC. 5/20/2019 (MILLER)
PENDING CD - 201903629	8/15/2019 - GB6 - 1 & 12 -9N-5W X698051 MSSP, WDFD 2 WELLS NO OP NAMED REC. 8/6/2019 (NORRIS)
PENDING CD - 201903630	8/15/2019 - GB6 - (I.O.) 1 & 12 -9N-5W X698051 MSSP, WDFD X165:10-3-28(C)(2)(B) MSSP, WDFD (LIVINGSTON 0112 #9H) MAY BE CLOSER THAN 600' TO PROPOSED LIVINGSTON 0112 #4H AND LIVINGSTON 0112 #10H COMPL. INT. (12-9N-5W) NCT 165' FSL, NCT 0' FNL, NCT 1650' FWL COMPL. INT. (1-9N-5W) NCT 0' FSL, NCT 165' FNL, NCT 1650' FWL NO OP. NAMED REC. 8/6/2019 (NORRIS)
SPACING - 698051	8/15/2019 - GB6 - (1280)(HOR) 1 & 12-9N-5W EST MSSP, WDFD, OTHER POE TO BHL (MSSP, OTHER) NCT 660' FB POE TO BHL (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FWL (COEXIST SP. ORDER 611142)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

051-24692

GRADY

County, Oklahoma

339'FSL-1795'FWL Section 12 Township 9N Range 5W I.M.

Township Line T10N-R5W

T9N-R5W

X 2093055
Y 712558

X 2095696
Y 712570

X 2098336
Y 712582

LOT 4

LOT 3

LOT 2

LOT 1

S/2-NW/4

S/2-NE/4

BOTTOM HOLE &
LAST TAKE POINT
165'FNL-2497'FEL
NAD-27 (US Feet)
35°17'25.7" N
97°40'43.9" W
35.290476956° N
97.678873942° W
X: 2095839
Y: 712405

X 2098344
Y 709937

X 2093067
Y 707269

X 2095710
Y 707281

X 2098353
Y 707293

X 2093070
Y 704625

X 2098360
Y 704648

LANDING POINT &
FIRST TAKE POINT
165'FSL-2497'FEL
NAD-27 (US Feet)
35°15'44.4" N
97°40'44.0" W
35.262320055° N
97.678880211° W
X: 2095870
Y: 702157

LANDING POINT &
FIRST TAKE POINT

X 2095723
Y 701991

X 2098367
Y 702002

X 2093079
Y 701981

Revision ☒ D Date of Drawing: Aug. 14, 2019

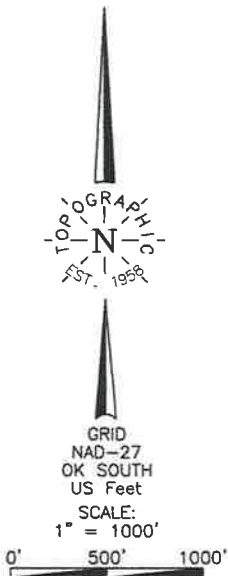
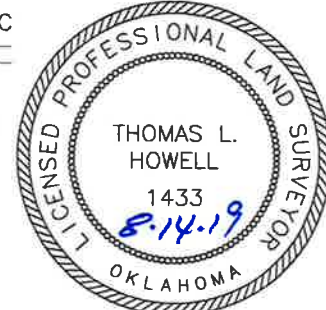
Project # 124196D Date Staked: Aug. 12, 2019

LC

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



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

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: EOG RESOURCES, INC
Lease Name: LIVINGSTON 0112
Topography & Vegetation Location fell on existing pad

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

Well No.: 9H

ELEVATION: 1304' Gr. on Level Pad

Best Accessibility to Location From South off county road
Distance & Direction From the jct. of St. Hwy. 76 South & St. Hwy. 39, go ±2 miles from Hwy jct or Town
South on St. Hwy. 76, then ±2 mile West to the SW Cor. of Sec. 12-T9N-R5W

DATUM: NAD-27
LAT: 35°15'46.1"N
LONG: 97°40'56.0"W
LAT: 35.262796884° N
LONG: 97.682219625° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2094872
Y: 702327

1st Meridian West

T9N-R5W
T9N-R4W

GRADY CO.
MCCLAIN CO.

NEWCASTLE CORPORATE BOUNDARY