

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

API NUMBER: 051 24641

Approval Date: 05/21/2019

Expiration Date: 11/21/2020

Horizontal Hole
Multi Unit

Oil & Gas

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 1367

Lease Name: LIVINGSTON 0112

Well No: 7H

Well will be 291 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
FIRST HAWAIIAN BANK
PO BOX 3708
HONOLULU HI 96811

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

Name	Depth	Name	Depth
1 WOODFORD	8955	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809236
201902320
201804554

Special Orders:

Total Depth: 19584

Ground Elevation: 1342

Surface Casing: 1500

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? 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: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36586

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? 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: DUNCAN

HORIZONTAL HOLE 1

Sec 01 Twp 9N Rge 5W County GRADY

Spot Location of End Point: N2 NW NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 990

Depth of Deviation: 8804

Radius of Turn: 338

Direction: 5

Total Length: 10249

Measured Total Depth: 19584

True Vertical Depth: 9384

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

Notes:

Category

Description

DEEP SURFACE CASING

5/7/2019 - 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

5/7/2019 - 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

5/7/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 - WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 - OBM CUTTINGS TO HEARTLAND RESOURCES (660850/661694/662791) OR DEQ APPROVED FACILITY (SOUTHERN PLAINS LANDFILL, 3-5N-6W, GRADY CO (3526013); PIT 2 - OBM TO VENDOR

PENDING CD - 201804554

5/20/2019 - G58 - (1280)(HOR) 1 & 12-9N-5W
X611142 WDFD,
POE TO BHL NCT 165' FSL, NCT 165' FNL, NCT 330' FWL
(COEXIST SP. ORDER 611142 WDFD; **)
REC 4/11/2019 (MILLER)

**SHOULD COEXIST SP. ORDER 140574 HNTN; WILL BE VACATED PER ATTORNEY FOR OP.

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

051 24641 LIVINGSTON 0112 7H

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.

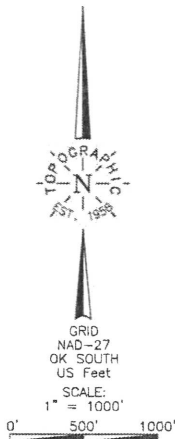
Category	Description
PENDING CD - 201809236	5/20/2019 - G58 - 1 & 12-9N-5W X201804554 WDFD 7 WELLS NO OP. NAMED REC 4/24/2019 (M. PORTER)
PENDING CD - 201902320	5/20/2019 - G58 - (I.O.) 1 & 12-9N-5W X165:10-3-28(C)(2)(B) WDFD (LIVINGSTON 0112 7H) MAY BE CLOSER THAN 600' TO PROPOSED WELLS MAY BE CLOSER THAN 600' TO PYRITE 1-12 WELL MAY BE CLOSER THAN 600' TO LIVINGSTON 12-1H WELL REC 5/21/2019 (NORRIS)

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
GRADY

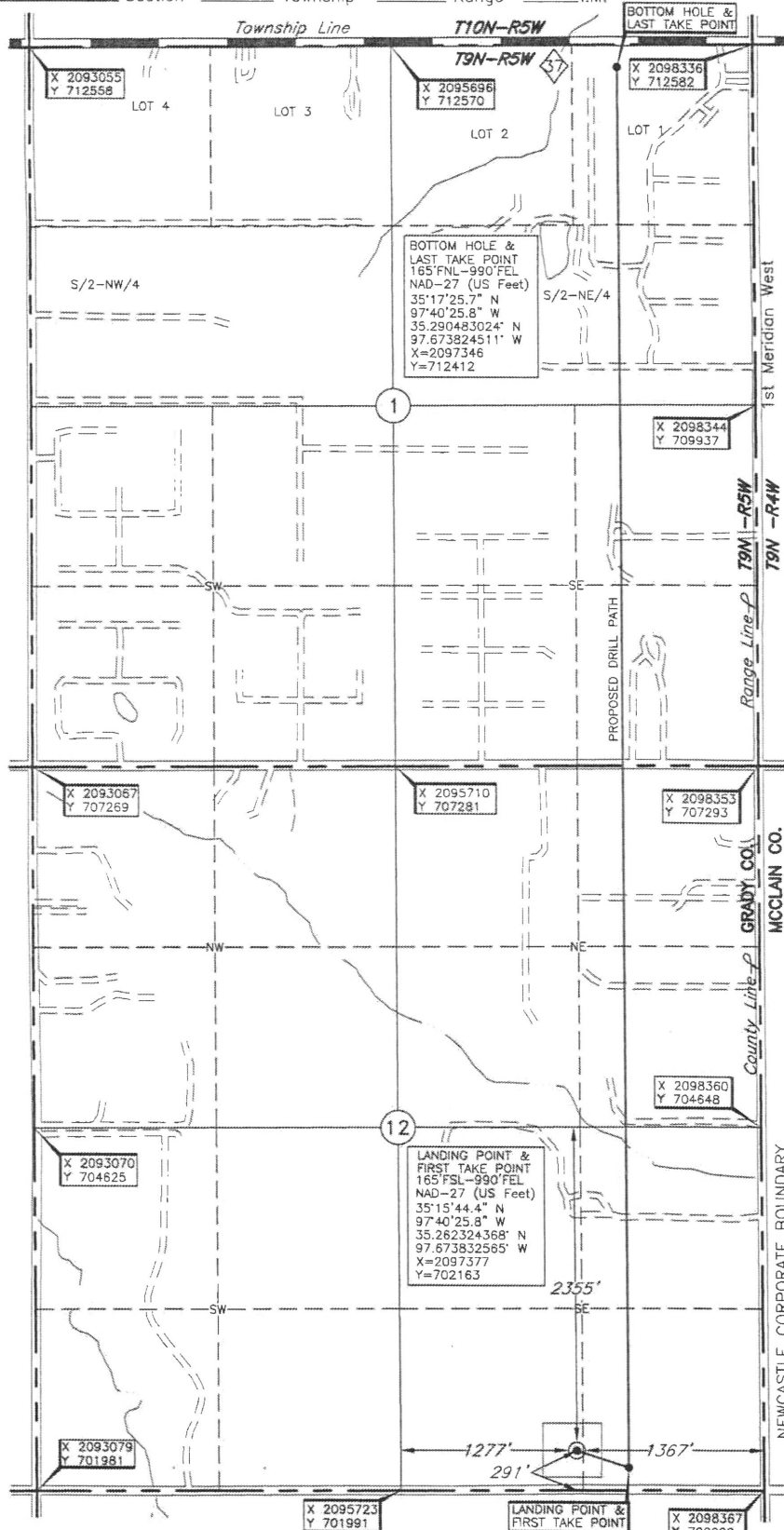
051-24641

291' FSL-1367' FEL Section 12 Township 9N Range 5W I.M.



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

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY



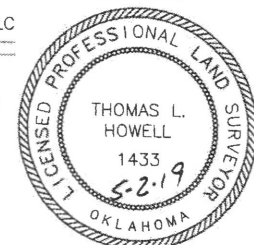
Operator: EOG RESOURCES, INC
Lease Name: LIVINGSTON 0112
Topography & Vegetation: Location fell in heavy brush, sloping downhill to the North & East
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set None
Best Accessibility to Location: From South off county road
Distance & Direction: From the jct. of St. Hwy. 76 South & St. Hwy. 39, go ±2 miles South on St. Hwy. 76, then ±1 mile West to the SE Cor. of Sec. 12-T9N-R5W
Well No.: 7H
ELEVATION: 1342' Gr. at Stake

Date of Drawing: May 1, 2019
Project #124196A Date Staked: May 1, 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



Information was gathered with a GPS receiver using real time kinematic (RTK) technology.

DATUM: NAD-27
LAT: 35°15'45.6\"/>