

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

API NUMBER: 151 24544

Approval Date: 09/20/2018

Expiration Date: 03/20/2020

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 23N Rge: 14W

County: WOODS

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 255 1070

Lease Name: LEE 11-23-14

Well No: 1H

Well will be 255 feet from nearest unit or lease boundary.

Operator Name: CHESAPEAKE OPERATING LLC

Telephone: 4059353425; 4059358

OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC
PO BOX 18496
OKLAHOMA CITY, OK 73154-0496

TAMMIE LYNNE WARREN-BETZ, EXECUTOR
KENNETH LEE WARREN ESTATE
9609 NORTH ADRIAN AVE
KANSAS CITY MO 64154

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

Name	Depth	Name	Depth
1 MANNING	6560	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 154982

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806394
201806395
201806396

Special Orders:

Total Depth: 12200

Ground Elevation: 1504

Surface Casing: 290

Depth to base of Treatable Water-Bearing FM: 40

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 25000 Average: 8000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35381
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - FIELD RULE 312654)

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.

HORIZONTAL HOLE 1

Sec 11 Twp 23N Rge 14W County WOODS

Spot Location of End Point: SW SW SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1100

Depth of Deviation: 6342

Radius of Turn: 573

Direction: 181

Total Length: 4957

Measured Total Depth: 12200

True Vertical Depth: 6727

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

9/13/2018 - 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; 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

PENDING CD - 201806394

9/17/2018 - G57 - 11-23N-14W
X154982 MNNG
1 WELL
NO OP. NAMED
REC 9-4-2018 (FOREMAN)

PENDING CD - 201806395

9/17/2018 - G57 - (I.O.) 11-23N-14W
X154982 MNNG
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL
NO OP. NAMED
REC 9-4-2018 (FOREMAN)

PENDING CD - 201806396

9/17/2018 - G57 - (I.O.) 11-23N-14W
X154982 MNNG
X165:10-3-28(C)(2)(B) MNNG (LEE 11-23-14 1H) MAY BE CLOSER THAN 600' FROM THE TIM 1-11
NO OP. NAMED
REC 9-4-2018 (FOREMAN)

PUBLIC WATER SUPPLY WELLS

9/13/2018 - G71 - ALVA - 8 PWS/WPA, 4 - NE/4 11-23N-14W, 3 - SW/4 2-23N-14W, & 1 - SE/4 2-23N-14W

SPACING - 154982

9/17/2018 - G57 - (640) 11-23N-14W
EXT 132716 MNNG
EXT OTHER

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.

151 24544 LEE 11-23-14 1H

NAD-27
X 1801490.4
Y 543808.3
NAD-83
X 1769888.5
Y 543835.1

255'FNL-1070'FEL Section 11 Township 23N Range 14W I.M.

NAD-27
X 1806751.7
Y 543748.8
NAD-83
X 1775150.0
Y 543775.8

NOTE:
The information shown herein is for
construction purposes ONLY.

NAD-27
X 1801465.0
Y 541167.7
NAD-83
X 1769863.2
Y 541194.8

NAD-27
X 1804120.9
Y 543778.4
NAD-83
X 1772519.2
Y 543805.5

LANDING POINT
150'FNL-1100'FEL
NAD-27 (US Feet)
36°29'29.6"N
98°39'40.1"W
36.491563°N
98.661147°W
X= 1805650.7
Y= 543611.2
NAD-83 (US Feet)
36°29'29.8"N
98°39'41.4"W
36.491599°N
98.661507°W
X= 1774049.0
Y= 543638.3

SURFACE HOLE
255'FNL-1070'FEL
NAD-83
36°29'28.7"N
98°39'41.1"W
36.491310°N
98.661405°W
X= 1774078.3
Y= 543532.8

NAD-27
X 1806733.4
Y 541108.9
NAD-83
X 1775131.7
Y 541135.9

DISTANCE FROM
EXISTING WELL TO:
SHL: ±3050'
LP: ±3158'
BHL: ±1884'
PDP: ±444'

BOTTOM HOLE
150'FSL-1100'FEL
NAD-27 (US Feet)
36°28'40.6"N
98°39'40.1"W
36.477945°N
98.661148°W
X= 1805616.6
Y= 538653.9
NAD-83 (US Feet)
36°28'40.7"N
98°39'41.4"W
36.477981°N
98.661508°W
X= 1774014.8
Y= 538680.9

NAD-27
X 1804077.6
Y 538512.6
NAD-83
X 1772475.8
Y 538539.6

NAD-27
X 1806715.6
Y 538497.6
NAD-83
X 1775113.8
Y 538524.6

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

ELEVATION:

1504' Gr. at Stake (NGVD29)
1505' Gr. at Stake (NAVD88)

Operator: CHESAPEAKE OPERATING, L.L.C.

Lease Name: LEE 11-23-14

Well No.: 1H

Topography & Vegetation Loc. fell in rolling sandy pasture.

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

Best Accessibility to Location From North off county road

Distance & Direction
from Hwy Jct or Town From Aline, OK, go ±9.5 mi. West on paved road, then ±2.0 mi. South,
then ±2.0 mi. West to the SE Cor. of Sec. 11-T23N-R14W.

DATUM: NAD-27
LAT: 36°29'28.6"N
LONG: 98°39'39.8"W
LAT: 36.491274°N
LONG: 98.661044°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1805680.1
Y: 543505.8

Date of Drawing: Sept. 9, 2018
Invoice # 302433 Date Staked: Sept. 6, 2018

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

