API NUMBER: 017 25168

Oil & Gas

Horizontal Hole

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

Approval Date: 01/26/2018

Expiration Date: 07/26/2018

217 feet from nearest unit or lease boundary.

22182 0

OTC/OCC Number:

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 10N Rge: 7W County: CANADIAN

SPOT LOCATION: NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST SECTION LINES:

SECTION LINES: 250 217

Telephone: 4052412237; 4052412

1H

Well No:

Operator LINN OPERATING LLC Name:

Lease Name: BARBOUR 2-10-7

LINN OPERATING LLC

14701 HERTZ QUAIL SPRINGS PKWY

OKLAHOMA CITY, OK 73134-2641

ELAINE W. ALBERS 18835 SW 104TH

Well will be

UNION CITY OK 73090

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

Name Depth Name Depth WOODFORD 10700 1 6 2 7 3 8 4 9 10 368453 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201800187 Special Orders:

Total Depth: 15906 Ground Elevation: 1244 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 220

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: Yes Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

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?

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 1A

Liner required for Category: 1A

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33818

H. SEE MEMO

PIT 2 INFORMATION

Type of Pit System: ON SITE

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: 3
Liner required for Category: 3
Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 02 Twp 10N Rge 7W County CANADIAN

Spot Location of End Point: NW NE NE NE Feet From: NORTH 1/4 Section Line: 65
Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 10102 Radius of Turn: 477 Direction: 350 Total Length: 5055

Measured Total Depth: 15906
True Vertical Depth: 10700
End Point Location from Lease,
Unit, or Property Line: 65

Notes:

MEMO

Category Description

DEEP SURFACE CASING 1/24/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS

OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 1/24/2018 - 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

1/24/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO

VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201800187 1/26/2018 - G75 - (E.O.) 2-10N-7W

XOTHER X368453 WDFD

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL

LINN OP., LLC

REC 1-23-2018 (JACKSON)

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.

017 25168 BARBOUR 2-10-7 1H

Category Description

SPACING - 368453

1/26/2018 - G75 - (640) 2-10N-7W EXT OTHERS EST WDFD, OTHERS

