

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

API NUMBER: 017 25202

Approval Date: 03/28/2018

Expiration Date: 09/28/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 10N Rge: 5W

County: CANADIAN

SPOT LOCATION: ☐ SW ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 162 775

Lease Name: MCNEFF 22-27-10-5

Well No: 3XH

Well will be 162 feet from nearest unit or lease boundary.

Operator Name: LINN OPERATING LLC

Telephone: 2818404010; 4052412

OTC/OCC Number: 22182 0

LINN OPERATING LLC
600 TRAVIS ST STE 1400
HOUSTON, TX 77002-3005

LARRY E. MCNEFF & JANE M. MCNEFF
12800 SOUTH MUSTANG ROAD
MUSTANG OK 73064

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

Name	Depth	Name	Depth
1 WOODFORD	9000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 654976
419868

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802228
201802234
201802246

Special Orders:

Total Depth: 19445

Ground Elevation: 1194

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 170

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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: 30000 Average: 5000

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34189

H. SEE MEMO

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 27 Twp 10N Rge 5W County GRADY

Spot Location of End Point: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 1260

Depth of Deviation: 8500

Radius of Turn: 245

Direction: 178

Total Length: 10560

Measured Total Depth: 19445

True Vertical Depth: 9000

End Point Location from Lease,
Unit, or Property Line: 65

Notes:

Category

Description

DEEP SURFACE CASING

3/26/2018 - 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

3/26/2018 - 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

MEMO

3/26/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CANADIAN RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201802228

3/28/2018 - G60 - (E.O.) 22 & 27-10N-5W
EST MULTIUNIT HORIZONTAL WELL
X654976 WDFD 22-10N-5W
X419868 WDFD 27-10N-5W
50% 22-10N-5W
50% 27-10N-5W
LINN ENERGY OPERATING, LLC.
REC 3-26-2018 (M. PORTER)

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

017 25202 MCNEFF 22-27-10-5 3XH

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 - 201802234	3/28/2018 - G60 - (E.O.) 22 & 27-10N-5W X654976 WDFD 22-10N-5W X419868 WDFD 27-10N-5W COMPL. INT. (27-10N-5W) NCT 165' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (22-10N-5W) NCT 0' FSL, NCT 165' FNL, NCT 660' FWL LINN OPERATING, LLC REC 3-26-2018 (M. PORTER)
PENDING CD - 201802246	3/28/2018 - G60 - 22-10N-5W X654976 WDFD 3 WELLS LINN OPERATING, LLC. HEARING 4/17/18
SPACING - 419868	3/28/2018 - G60 - (640) 27-10N-5W VAC OTHERS EXT 415281 WDFD, OTHERS
SPACING - 654976	3/28/2018 - G60 - (640)(HOR) 22-10N-5W EXT 649768 WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL

3501725202

SE/4 SECTION 16
T-10-N
R-5-W I.M.

SW/4 SECTION 15
T-10-N
R-5-W I.M.

SE/4 SECTION 15
T-10-N
R-5-W I.M.

SW/4 SECTION 14
T-10-N
R-5-W I.M.

MCNEFF
22-27-10-5 3XH SHL
EXIST. ELEV.: 1194'
N:728321.9826
E:2083024.4335
LAT:35°20'03.5170"
LON:-97°43'17.9989"
LAT:35.334310
LON:-97.721666
NAD 27, US OK
SOUTH ZONE

LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
LOT 12

TURNPIKE FEDERAL 1-22
TURNPIKE FEDERAL 2-22
TURNPIKE FEDERAL 3-22
TURNPIKE FEDERAL 4-22
TURNPIKE FEDERAL 5-22
TURNPIKE FEDERAL 6-22
TURNPIKE FEDERAL 7-22
TURNPIKE FEDERAL 22-2D

1874 LEFT BANK
1899 RIGHT BANK
2015 LEFT BANK
2015 RIGHT BANK

NE/4 SW/4 SECTION 22
T-10-N
R-5-W I.M.

S/2 SW/4 SECTION 22
T-10-N
R-5-W I.M.

SE/4 SECTION 22
T-10-N
R-5-W I.M.

SECTION 21
T-10-N
R-5-W I.M.

SECTION 23
T-10-N
R-5-W I.M.

NE/4 SECTION 28
T-10-N
R-5-W I.M.

NW/4 SECTION 27
T-10-N
R-5-W I.M.

NE/4 SECTION 27
T-10-N
R-5-W I.M.

NW/4 SECTION 26
T-10-N
R-5-W I.M.

NE/4 SECTION 28
T-10-N
R-5-W I.M.

SW/4 SECTION 27
T-10-N
R-5-W I.M.

NE/4 SECTION 27
T-10-N
R-5-W I.M.

SW/4 SECTION 26
T-10-N
R-5-W I.M.

NE/4 SECTION 33
T-10-N
R-5-W I.M.

NW/4 SECTION 34
T-10-N
R-5-W I.M.

NE/4 SECTION 34
T-10-N
R-5-W I.M.

SW/4 SECTION 35
T-10-N
R-5-W I.M.

MCNEFF
22-27-10-5 3XH LTP
165' FSL 1260' FWL
N:717971.0476
E:2083720.7413
LAT:35°18'21.1247"
LON:-97°43'09.9426"
LAT:35.305868
LON:-97.719428
NAD 27, US OK
SOUTH ZONE

MCNEFF
22-27-10-5 3XH BHL
65' FSL 1260' FWL
N:717871.0489
E:2083721.3098
LAT:35°18'20.1357"
LON:-97°43'09.9391"
LAT:35.305593
LON:-97.719428
NAD 27, US OK
SOUTH ZONE

HILL B 1
HILL B 2-22
HILL 1-27 DX
HILL 2-27 D
HILL 3-27 D

MILLER 1


2015 CANADIAN RIVER

LINE BEARING DISTANCE
L1 S 55°55'00" E 585.81'
L2 S 01°12'24" E 10024.87'
L3 S 00°13'21" E 100.00'

EDWARD H. MEYERS
1668
03/05/18
OKLAHOMA

SCALE 1" = 1000'

500' 1000' 2000'

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0' at the left end, '500'' at the first segment boundary, '1000'' at the second segment boundary, and '2000'' at the right end.

03/05/18

SHEET 1 OF 1