

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

API NUMBER: 051 24346

Approval Date: 05/03/2018

Expiration Date: 11/03/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 9N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 315 1080

Lease Name: AMERICAN PHAROAH 19-18-9-5

Well No: 1XH

Well will be 315 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

ANNA JENELL CAMPBELL
801 W. MAIN ST.
TUTTLE OK 73089

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10600	6	
2	WOODFORD	10700	7	
3			8	
4			9	
5			10	

Spacing Orders: 402958
411108
651453
653276

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707205
201707206
201707208
201707207

Special Orders:

Total Depth: 21253

Ground Elevation: 1415

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 430

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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)

H. see memo

PERMIT NO: 17-33506

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 18 Twp 9N Rge 5W County GRADY

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 10274

Radius of Turn: 573

Direction: 358

Total Length: 10078

Measured Total Depth: 21253

True Vertical Depth: 10700

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

Notes:

Category

Description

DEEP SURFACE CASING

4/26/2018 - G57 - 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

4/26/2018 - G57 - 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

INCREASED DENSITY - 675514

4/26/2018 - G57 - 18-9N-5W
X402958 MSSP
1 WELL
LINN OPERATING, LLC.
3-30-2018

MEMO

4/26/2018 - G57 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

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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 24346 AMERICAN PHAROAH 19-18-9-5
1XH

Category	Description
PENDING CD - 201707205	4/26/2018 - G57 - (E.O.) 19 & 18-9N-5W EST MULTIUNIT HORIZONTAL WELL X411108 MSSP 19-9N-5W X651453 WDFD 19-9N-5W X402958 MSSP 18-9N-5W X653276 WDFD 18-9N-5W WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP 50% 19-9N-5W 50% 18-9N-5W LINN ENERGY OPERATING, LLC REC. 4-30-2018 (MINMIER)
PENDING CD - 201707206	4/26/2018 - G57 - (E.O.) 19 & 18-9N-5W X411108 MSSP 19-9N-5W X651453 WDFD 19-9N-5W X402958 MSSP 18-9N-5W X653276 WDFD 18-9N-5W X165:10-3-28(C)(2) MSSP (AMERICAN PHAROAH 19-18-9-5 1XH)WELL MAY BE CLOSER THAN 600' COMPL. INT. (19-9N-5W) NCT 330' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (18-9N-5W) NCT 0' FSL, NCT 330' FNL, NCT 330' FWL LINN OPERATING, LLC. REC 4-30-2018 (MINMIER)
PENDING CD - 201707208	4/26/2018 - G57 - (E.O.) 19-9N-5W X411108 MSSP 1 WELL LINN OPERATING, LLC. REC 4-30-2018 (MINMIER)
SPACING - 402958	4/26/2018 - G57 - (640) 18-9N-5W EXT 257426 MSSP
SPACING - 411108	4/26/2018 - G57 - (640) 19-9N-5W EXT 402958 MSSP
SPACING - 651453	4/26/2018 - G57 - (640)(HOR) 19-9N-5W EST WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 653276	4/26/2018 - G57 - (640)(HOR) 18-9N-5W EST WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL

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