

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

API NUMBER: 051 24324

Approval Date: 04/10/2018

Expiration Date: 10/10/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 9N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 249 740

Lease Name: LANGSTON 12-1-9-6

Well No: 4XH

Well will be 249 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

JOSEPH HARTIN LANGSTON  
207 PRIMROSE LANE  
FLUSHING MI 48433

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

Name	Depth	Name	Depth
1 WOODFORD	10350	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 655070  
649154

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802578  
201802572  
201802577  
201802576

Special Orders:

Total Depth: 21175

Ground Elevation: 1381

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 450

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? 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)

PERMIT NO: 18-34244

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: 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 01 Twp 9N Rge 6W County GRADY

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: 10231

Radius of Turn: 382

Direction: 15

Total Length: 10343

Measured Total Depth: 21175

True Vertical Depth: 10350

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

Additional Surface Owner	Address	City, State, Zip
ANNE H. & JOE HARTIN LANGSTON	207 PRIMROSE LANE	FLUSHING, MI 48433
NATHAN ORLAND LANGSTON	#1 BLACKJACK LANE	COPPER CANYON, TX 75077

Notes:

Category

Description

DEEP SURFACE CASING

4/3/2018 - 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

4/3/2018 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

4/3/2018 - G71 - 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.

051 24324 LANGSTON 12-1-9-6 4XH

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 - 201802572	<p>4/9/2018 - G57 - (E.O.) 1-9N-6W  X649154 WDFD  2 WELLS  ROAN RESOURCES, LLC. **  REC 4-6-2018 (P.PORTER)</p> <p>**S/B LINN OPERATING; WILL BE CORRECTED AT THE MERIT HEARING PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201802576	<p>4/9/2018 - G57 - (E.O.) 12 &amp; 1-9N-6W  EST MULTIUNIT HORIZONTAL WELL  X649154 WDFD 1-9N-6W  X655070 WDFD 12-9N-6W  50% 12-9N-6W  50% 1-9N-6W  ROAN RESOURCES, LLC. **  REC 4-6-2018 (P.PORTER)</p> <p>**S/B LINN OPERATING; WILL BE CORRECTED AT THE MERIT HEARING PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201802577	<p>4/9/2018 - G57 - (E.O.) 12 &amp; 1-9N-6W  X649154 WDFD 1-9N-6W  X655070 WDFD 12-9N-6W  SHL (13-9N-6W) 249 FNL, 740' FEL  COMPL. INT. (12-9N-6W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL  COMPL. INT. (1-9N-6W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL  ROAN RESOURCES, LLC. **  REC 4-6-2018 (P.PORTER)</p> <p>**S/B LINN OPERATING; WILL BE CORRECTED AT THE MERIT HEARING PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201802578	<p>4/9/2018 - G57 - (E.O.) 12-9N-6W  X655070 WDFD  1 WELL  ROAN RESOURCES, LLC. **  REC 4-6-2018 (P.PORTER)</p> <p>**S/B LINN OPERATING; WILL BE CORRECTED AT THE MERIT HEARING PER ATTORNEY FOR OPERATOR</p>
SPACING - 649154	<p>4/4/2018 - G57 - (640)(HOR) 1-9N-6W  EST WDFD  POE TO BHL NCT 165' FNL &amp; FSL, NCT 330' FEL &amp; FWL</p>
SPACING - 655070	<p>4/4/2018 - G57 - (640)(HOR) 12-9N-6W  EST WDFD  POE TO BHL NCT 165' FNL &amp; FSL, NCT 330' FEL &amp; FWL</p>

0 500' 1000' 2000'

**LEASE LINES**  
**SHL: 249' FSL 740' FEL**  
GRADY COUNTY, OKLAHOMA

SECTION 12, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M. &  
SECTION 1, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M.

UNDESIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

03/28/18

PROFESSIONAL LAND SURVEYOR

SHEET 1 OF 1