

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

API NUMBER: 051 24325

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: 249 780

Lease Name: LANGSTON 12-1-9-6

Well No: 2XH

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: 201802572  
201802571  
201802570

Special Orders:

Total Depth: 18559

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: 18-34242

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: SW SW SE NE

Feet From: NORTH 1/4 Section Line: 2540

Feet From: EAST 1/4 Section Line: 1296

Depth of Deviation: 9787

Radius of Turn: 573

Direction: 350

Total Length: 7872

Measured Total Depth: 18559

True Vertical Depth: 10350

End Point Location from Lease,  
Unit, or Property Line: 1296

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

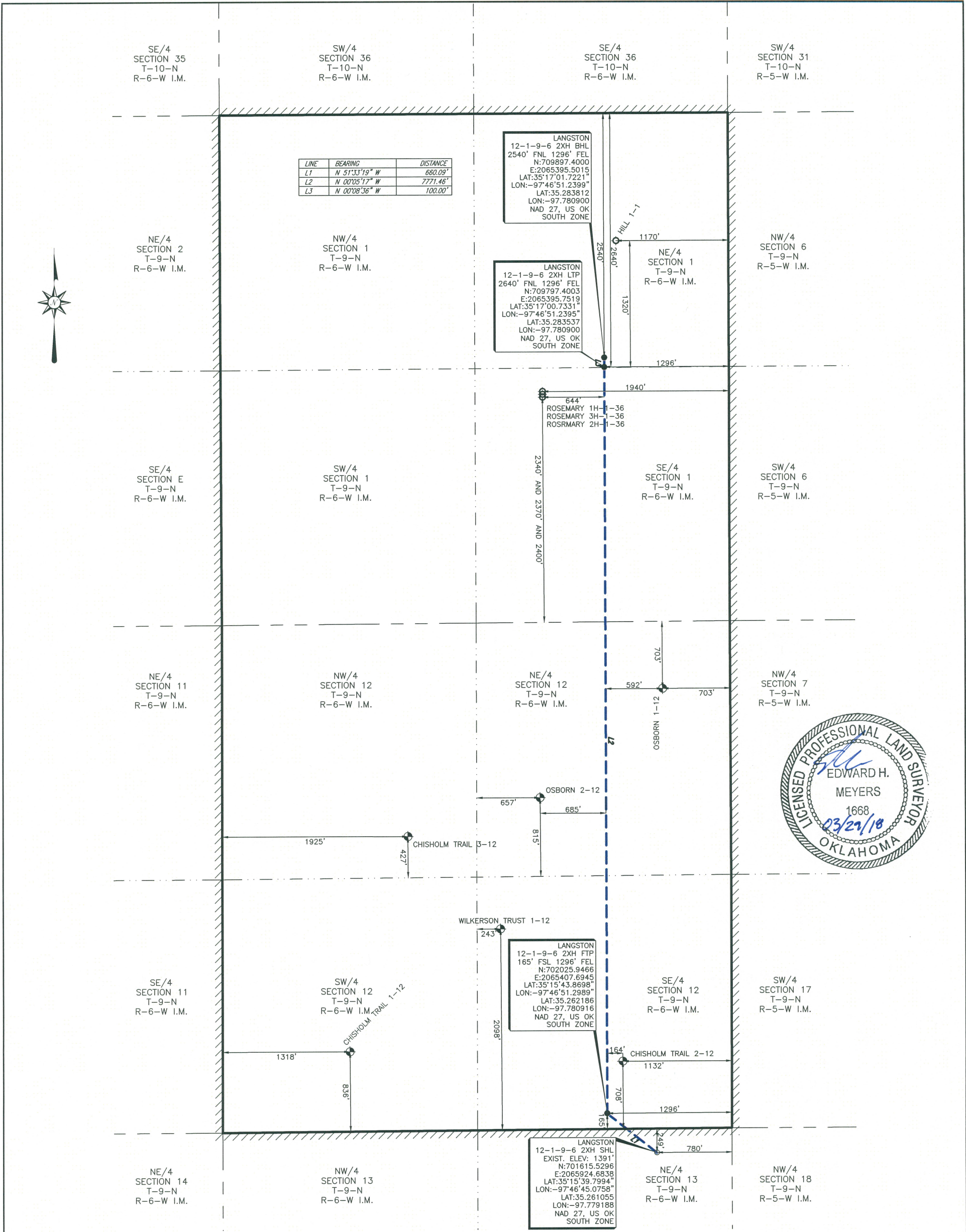
This permit does not address the right of entry or settlement of surface damages.

051 24325 LANGSTON 12-1-9-6 2XH

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 - 201802570	<p>4/4/2018 - G57 - (E.O.) 12 &amp; 1-9N-6W  EST MULTIUNIT HORIZONTAL WELL  X655070 WDFD 12-9N-6W  X649154 WDFD 1-9N-6W  30% 1-9N-6W  70% 12-9N-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 - 201802571	<p>4/4/2018 - G57 - (E.O.) 12 &amp; 1-9N-6W  X655070 WDFD 12-9N-6W  X649154 WDFD 1-9N-6W  SHL (13-9N-6W) 249' FNL, 780' FEL  COMPL. INT. (12-9N-6W) NCT 165' FSL, NCT 0' FNL, NCT 990' FEL  COMPL. INT. (1-9N-6W) NCT 0' FSL, NCT 165' FNL, NCT 990' 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 - 201802572	<p>4/10/2018 - 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>
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>



PERMIT PLAT OF  
LINN OPERATING, INC  
**LANGSTON 12-1-9-6 2XH**  
**249' FNL 780' FEL OF SECTION 13**  
MINCO FIELD

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

**SHL: 249' FSL 780' FEL**  
GRADY COUNTY, OKLAHOMA

NOTE:  
1. COMBINED SCALE FACTOR: 0.999947069  
2. SHL IS APPROXIMATELY 2.76 MILES S 42°16'27" E OF TUTTLE OKLAHOMA.

FILE: S:\OK\GRADY\PROJECTS\T09N-R06W\DWG

LEGEND	
SHL	SURFACE HOLE LOCATION
PP	PENETRATION POINT
FTP	FIRST TAKE POINT
LTP	LAST TAKE POINT
BHL	BOTTOM HOLE LOCATION
OCC	OKLAHOMA CORPORATION COMMISSION
POINT	POINT
EXISTING WELLHEAD	EXISTING WELLHEAD
PROPOSED WELL LOCATION SET	PROPOSED WELL LOCATION SET
SURFACE LOCATION OBTAINED FROM OCC	SURFACE LOCATION OBTAINED FROM OCC

**John F. Watson & Company**  
LAND & DEVELOPMENT SERVICES  
PROFESSIONAL LAND SURVEYORS  
200 N. LORAIN, Ste. 220  
Midland, Texas 79701  
www.johnwatson.com

CA#5957 EXPIRATION 6-30-2019  
200 N LORAIN #220  
MIDLAND, TX 79701  
(432) 520-2400

ORIGINAL STAKE DATE: 03/19/18  
ADDED LATERAL DATE: 03/28/18

REV: -	AFE NO.: -	JOB NO.: 18-0029
FIELD BOOK: SERVER	VER: 1	DRAWN BY: EHM

NOTE:  
1. BEARINGS, DISTANCES & ACREAGE ARE GRID, NAD 27 US OK SOUTH ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.  
2. ELEVATIONS ARE BASED ON NAVD 88 COMPUTED USING GEOID 12B.  
3. THIS SURVEY IS FOR AN OIL & GAS SUB-SURFACE LEASE AND IS NOT A BOUNDARY SURVEY.  
4. LOCATION OF ADJOINING WELLS OUTSIDE LEASE BOUNDARY ARE APPROXIMATED FROM OKLAHOMA CORPORATION COMMISSION DATA.  
5. DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.  
6. THIS SURVEY COMPLIES WITH THE US PUBLIC LAND SURVEY SYSTEM AND MEETS THE OKLAHOMA MINIMUM STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, EFFECTIVE JULY 25, 2013.  
7. THIS IS NOT A BOUNDARY SURVEY.  
8. THIS PERMIT PLAT HAS BEEN PREPARED FROM A SURVEY PLAT ON FILE IN THE OFFICE OF JOHN F. WATSON & COMPANY, MIDLAND TEXAS.  
I, THE UNDERSIGNED, 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