

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

API NUMBER: 051 24603

Approval Date: 04/04/2019

Expiration Date: 10/04/2020

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 220 1070

Lease Name: LEROY COATS 19-18-9-5

Well No: 5MXH

Well will be 220 feet from nearest unit or lease boundary.

Operator Name: ROAN RESOURCES LLC

Telephone: 4058968453

OTC/OCC Number: 24127 0

ROAN RESOURCES LLC  
14701 HERTZ QUAIL SPRINGS PKWY  
OKLAHOMA CITY, OK 73134-2641

DONNA JEAN COATS  
2078 EAST SOONER ROAD  
TUTTLE OK 73089

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10452	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 411108  
402958

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901461  
201901462  
201901465  
201901467

Special Orders:

Total Depth: 20688

Ground Elevation: 1344

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

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: 19-36376

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 18 Twp 9N Rge 5W 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: 9543

Radius of Turn: 573

Direction: 5

Total Length: 10245

Measured Total Depth: 20688

True Vertical Depth: 10452

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

3/15/2019 - 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

3/15/2019 - 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

3/15/2019 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

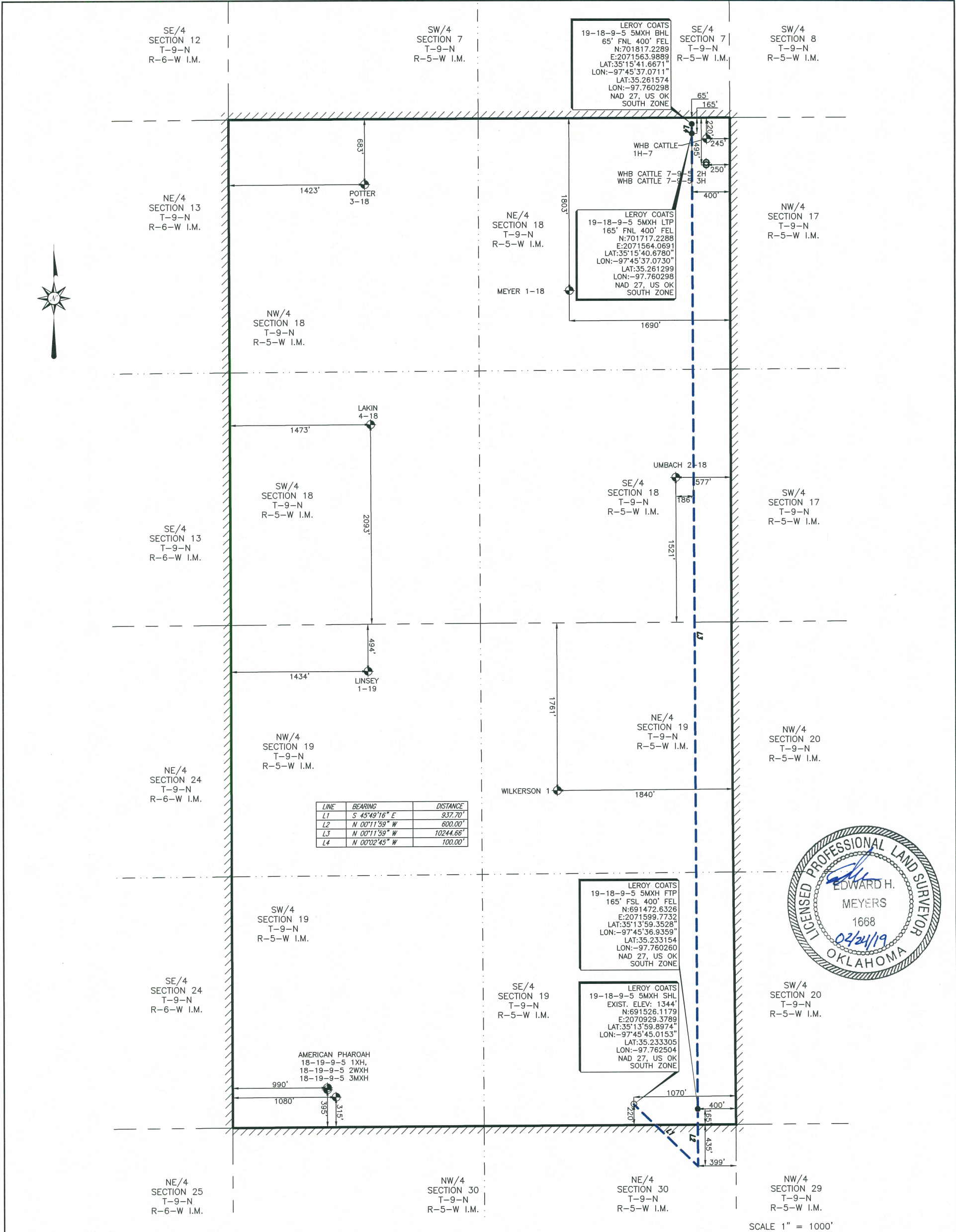
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

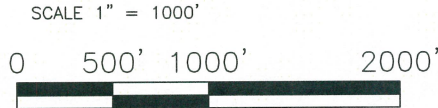
051 24603 LEROY COATS 19-18-9-5 5MXH

Category	Description
PENDING CD - 201901461	4/3/2019 - G75 - (I.O.) 19 & 18-9N-5W EST MULTIUNIT HORIZONTAL WELL XOTHER X411108 MSSP 19-9N-5W X402958 MSSP 18-9N-5W 50% 19-9N-5W 50% 18-9N-5W ROAN RESOURCES, LLC REC 4-2-2019 (DENTON)
PENDING CD - 201901462	4/3/2019 - G75 - (I.O.) 19 & 18-9N-5W XOTHER X411108 MSSP 19-9N-5W X402958 MSSP 18-9N-5W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO UMBACH 2-18 COMPL. INT. (19-9N-5W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (18-9N-5W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED REC 4-2-2019 (DENTON)
PENDING CD - 201901465	4/3/2019 - G75 - 18-9N-5W X402958 MSSP 2 WELLS NO OP. NAMED REC 4-2-2019 (DENTON)
PENDING CD - 201901467	4/3/2019 - G75 - 19-9N-5W X411108 MSSP 2 WELLS NO OP. NAMED REC 4-2-2019 (DENTON)
SPACING - 402958	4/3/2019 - G75 - (640) 18-9N-5W EXT 257426 MSSP
SPACING - 411108	4/3/2019 - G75 - (640) 19-9N-5W EXT 402958 MSSP



PERMIT PLAT OF  
ROAN RESOURCES, LLC.  
**LEROY COATS 19-18-9-5 5MXH**  
**220' FSL 1070' FEL OF SECTION 19**  
MINCO FIELD  
SECTION 19, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M. &  
SECTION 18, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M.  
**LEASE LINES**  
**SHL: 220' FSL 1070' FEL**  
GRADY COUNTY, OKLAHOMA

NOTE:  
1. COMBINED SCALE FACTOR: 0.999947069  
2. SHL IS APPROXIMATELY 4.85 MILES S 35°21'27" E  
OF TUTTLE OKLAHOMA.



**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  
EXISTING WELLHEAD  
PROPOSED WELL LOCATION SET  
SURFACE LOCATION OBTAINED FROM OCC

AS-DRILLED LATERAL  
SUBJECT PROPOSED LATERAL  
PROPOSED LATERAL  
LEASE LINE  
SURVEY LINE

ORIGINAL STAKE DATE: 02/03/19  
ADDED LATERAL DATE: 02/19/19  
CHANGED NAME DATE: 02/19/19

REV: - AFE NO.: - JOB NO.: 19-0033  
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

NOTE:  
1. BEARINGS, DISTANCES & ACRES 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.

02/24/19

PROFESSIONAL LAND SURVEYOR

**John F. Watson & Company**  
LAND & DEVELOPMENT SERVICES  
PROFESSIONAL LAND SURVEYORS  
200 N. Loraine, Ste. 220  
Midland, Texas 79701  
off. (432) 520-2400  
fax. (432) 520-2404

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