

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

API NUMBER: 051 24378

Approval Date: 06/07/2018

Expiration Date: 12/07/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 9N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SE ☐ NE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 750 265

Lease Name: THE DUKE 24-13-9-5

Well No: 1XH

Well will be 265 feet from nearest unit or lease boundary.

Operator Name: ROAN RESOURCES LLC

Telephone: 4052412237

OTC/OCC Number: 24127 0

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

PHILLIP N. FRANCIS
3304 WOODSBORO DRIVE
NORMAN OK 73072

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

Name	Depth	Name	Depth
1 WOODFORD	9540	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 420559
664083

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803662
201803663
201803238
201804500
201804504

Special Orders:

Total Depth: 20062

Ground Elevation: 1333

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 680

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 located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

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: 18-34399

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 located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 13 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: 9094

Radius of Turn: 382

Direction: 359

Total Length: 10367

Measured Total Depth: 20062

True Vertical Depth: 9540

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

Notes:

Category

Description

DEEP SURFACE CASING

6/5/2018 - 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

6/5/2018 - 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

6/5/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201803238

6/5/2018 - G57 - (E.O.)(640)(HOR) 13-9N-5W
VAC 420559 WDFD, OTHERS
EXT 664083 WDFD, OTHERS
POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
REC 5-21-2018 (JACKSON)

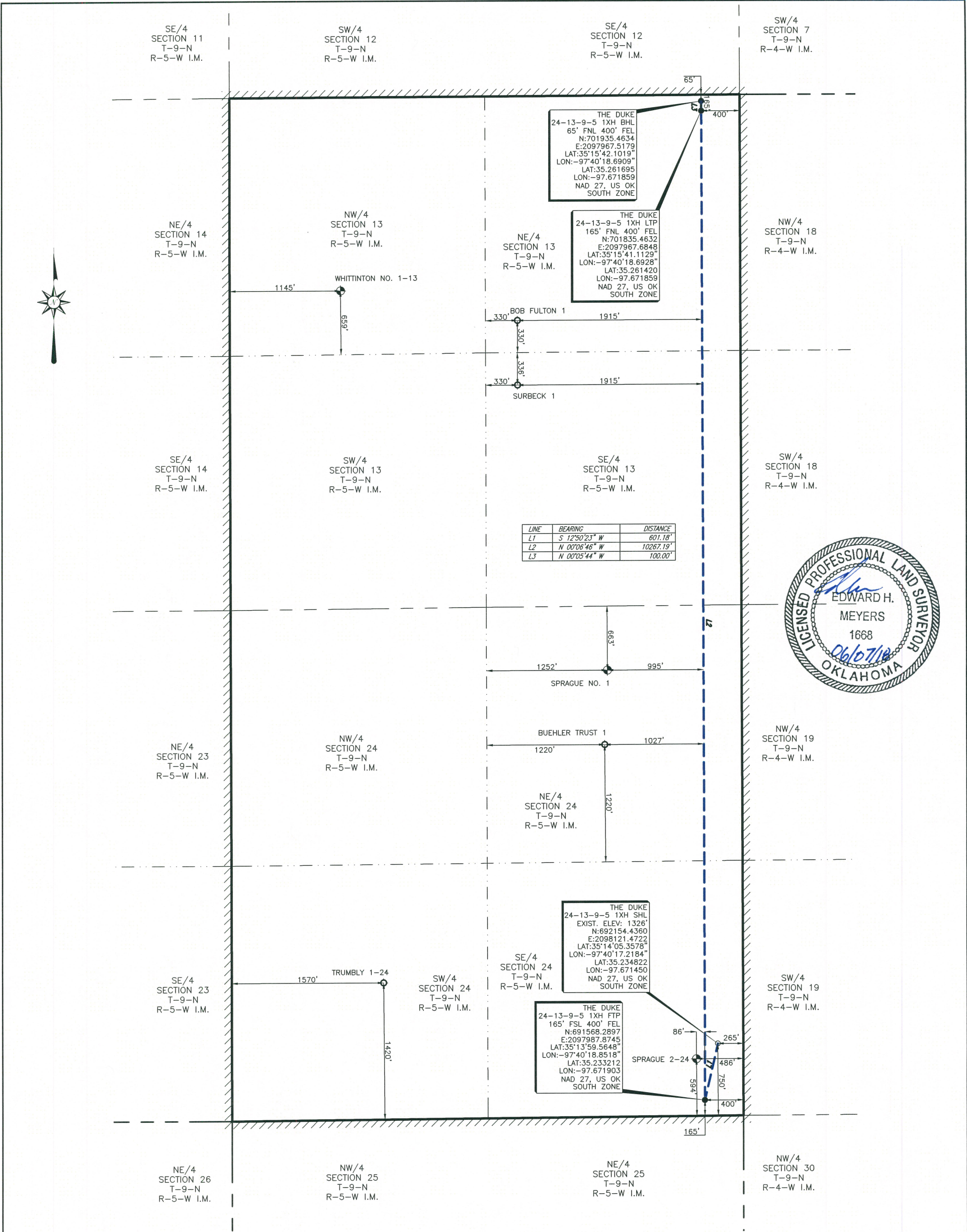
This permit does not address the right of entry or settlement of surface damages.

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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 24378 THE DUKE 24-13-9-5 1XH

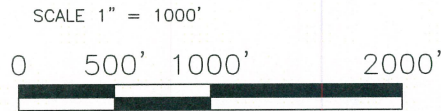
Category	Description
PENDING CD - 201803662	6/5/2018 - G57 - (E.O.) 13 & 24-9N-5W EST MULTIUNIT HORIZONTAL WELL X664083 WDFD 24-9N-5W X420559 WDFD 13-9N-5W ** 50% 13-9N-5W 50% 24-9N-5W ROAN RESOURCES, LLC. REC 5-21-18 (JACKSON) **S/B 201803238 WDFD 13-9N-5W; WILL BE CORRECTED AT THE HEARING ON THE MERITS PER OPERATOR
PENDING CD - 201803663	6/5/2018 - G57 - (E.O.) 13 & 24-9N-5W X664083 WDFD 24-9N-5W X420559 WDFD 13-9N-5W ** COMPL. INT. (24-9N-5W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (13-9N-5W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL ROAN RESOURCES, LLC. REC 5-21-18 (JACKSON) **S/B 201803238 WDFD 13-9N-5W; WILL BE CORRECTED AT THE HEARING ON THE MERITS PER OPERATOR
PENDING CD - 201804500	6/7/2018 - G57 - 13-9N-5W X420559 WDFD X201803238 WDFD 1 WELL NO OP. NAMED HEARING 7-2-2018
PENDING CD - 201804504	6/7/2018 - G57 - 24-9N-5W X664083 WDFD 1 WELL NO OP. NAMED HEARING 7-2-2018
SPACING - 420559	6/5/2018 - G57 - (640) 13-9N-5W EXT 414572 WDFD (VAC BY 201803238), OTHER EXT OTHER EST OTHERS
SPACING - 664083	6/5/2018 - G57 - (640)(HOR) 24-9N-5W EST WDFD, OTHERS POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL



PERMIT PLAT OF
ROAN RESOURCES, LLC
THE DUKE 24-13-9-5 1XH
750' FSL 265' FEL OF SECTION 24
MINCO FIELD

SECTION 24, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M. &
SECTION 13, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M.

LEASE LINES
SHL: 750' FSL 265' FEL
GRADY COUNTY, OKLAHOMA



- NOTE:
1. COMBINED SCALE FACTOR: 0.999947069
 2. SHL IS APPROXIMATELY 8.83 MILES S 64°15'29" E OF TUTTLE OKLAHOMA.

FILE: S:\OK\GRADY\PROJECTS\T09N-R05W\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
- EXISTING WELLHEAD
- PROPOSED WELL LOCATION SET
- SURFACE LOCATION OBTAINED FROM OCC
- AS-DRILLED LATERAL
- SUBJECT PROPOSED LATERAL
- PROPOSED LATERAL
- LEASE LINE
- SURVEY LINE

John F. Watson & Company
LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
200 N. Lorraine, Ste. 220
Midland, Texas 79701
o/f: (432) 520-2400
fax: (432) 520-2404
TXLS FIRM #01173-R

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

ORIGINAL STAKE DATE: 03/24/18
ADDED LATERAL: 04/21/18
CHANGED WELL NAME: 04/23/18
CHANGED OPERATOR: 06/07/18

REV: 2 AFE NO.: - JOB NO.: 18-0068
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.
9. 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.

06/07/18
PROFESSIONAL LAND SURVEYOR
SHEET 1 OF 1