

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

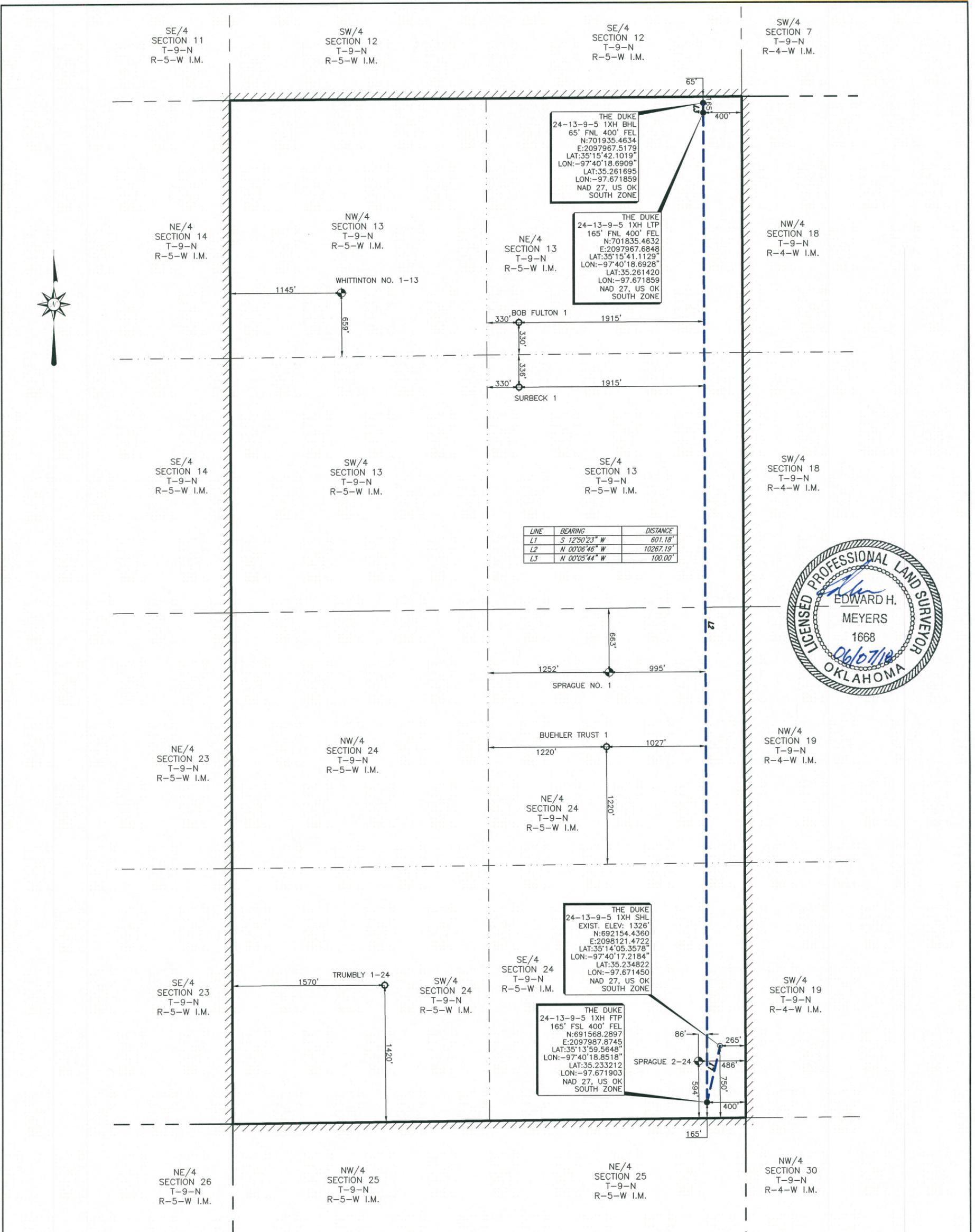
Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, MEMO, and PENDING CD - 201803238.

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.

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

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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.



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\

<p>LEGEND</p> <ul style="list-style-type: none"> 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 	<p>ORIGINAL STAKE DATE: 03/24/18 ADDED LATERAL: 04/21/18 CHANGED WELL NAME: 04/23/18 CHANGED OPERATOR: 06/07/18</p>	<p>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 COMPLES 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.</p>
<p>John F. Watson & Company LAND & DEVELOPMENT SERVICES PROFESSIONAL LAND SURVEYORS 200 N. Lorraine, Ste. 220 Midland, Texas 79701 Tel: (432) 520-2400 Fax: (432) 520-2404 TXLS FIRM #101173-00</p>	<p>CA#5957 EXPIRATION 6-30-2019 200 N LORAIN #220 MIDLAND, TX 79701 (432) 520-2400</p>	<p>REV: 2 AFE NO.: - JOB NO.: 18-0068 FIELD BOOK: SERVER VER: 1 DRAWN BY: EHM 06/07/18 SHEET 1 OF 1</p>