

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

API NUMBER: 017 25500

Approval Date: 08/07/2019

Expiration Date: 02/07/2021

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 11N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 340 1105

Lease Name: OMAHA 28-33-4-11-7

Well No: 5MXH

Well will be 340 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

BILLY & CATHERINE EUBANKS LI TRUST  
4608 CYPERT RD  
YUKON OK 73099

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10488	6	
2	MISSISSIPPI LIME	10488	7	
3	WOODFORD	10767	8	
4			9	
5			10	

Spacing Orders: 671759  
658912  
107705  
668456

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903533  
201903534

Special Orders:

Total Depth: 22376

Ground Elevation: 1347

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 370

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: DOG CREEK

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)

H. SEE MEMO

PERMIT NO: 19-36830

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: DOG CREEK

HORIZONTAL HOLE 1

Sec 04 Twp 10N Rge 7W County GRADY

Spot Location of End Point: NW NW SE NE

Feet From: NORTH 1/4 Section Line: 1500

Feet From: EAST 1/4 Section Line: 1200

Depth of Deviation: 10000

Radius of Turn: 488

Direction: 180

Total Length: 11609

Measured Total Depth: 22376

True Vertical Depth: 10767

End Point Location from Lease,  
Unit, or Property Line: 1200

Additional Surface Owner	Address	City, State, Zip
MARY ANN VOSS REV LIV TR ETAL	12100 N GREGORY ROAD	YUKON, OK 73099
TABOREK, ALOIS E ETAL	11900 N GREGORY ROAD	YUKON, OK 73099
TABOREK THOMAS J ETAL	11900 N GREGORY ROAD	YUKON, OK 73099

Notes:

Category

Description

DEEP SURFACE CASING

7/19/2019 - 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

7/19/2019 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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

7/19/2019 - 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.

017 25500 OMAHA 28-33-4-11-7 5MXH

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 - 201903533	8/2/2019 - GB1 - (E.O.) 28 & 33-11N-7W & 4-10N-7W EST MULTIUNIT HORIZONTAL WELL X658912 MSSP, WDFD 28-11N-7W X671759 MSSP, WDFD 33-11N-7W X107705 MSSLM 4-10N-7W X668456 WDFD 4-10N-7W (WDFD IS ADJACENT COMMON SOURCE OF SUPPLY TO MSSP/MSSLM) 42% 28-11N-7W 44% 33-11N-7W 14% 4-10N-7W ROAN RESOURCES, LLC REC. 7/26/2019 (P. PORTER)
PENDING CD - 201903534	8/2/2019 - GB1 - (E.O.) 28 & 33-11N-7W & 4-10N-7W X658912 MSSP, WDFD 28-11N-7W X671759 MSSP, WDFD 33-11N-7W X107705 MSSLM 4-10N-7W X668456 WDFD 4-10N-7W COMPL. INT. (28-11N-7W) NCT 165' FNL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (33-11N-7W) NCT 0' FNL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (4-10N-7W) NCT 0' FNL, NCT 2640' FSL, NCT 660' FEL ROAN RESOURCES, LLC REC. 7/26/2019 (P. PORTER)
SPACING - 107705	8/2/2019 - GB1 - (640) 4-10N-7W CONFIRMS SP ORDER 98732 EXT 98732 MSSLM, OTHERS EXT OTHERS
SPACING - 658912	8/2/2019 - GB1 - (640)(HOR) 28-11N-7W EXT 653390 MSSP, WDFD COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL
SPACING - 668456	8/2/2019 - GB1 - (640)(HOR) 4-10N-7W EST WDFD COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
SPACING - 671759	8/2/2019 - GB1 - (640)(HOR) 33-11N-7W EST MSSP, WDFD COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

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PERMIT PLAT OF  
ROAN RESOURCES, LLC.  
**OMAHA 28-33-4-11-7 5MXH  
340' FSL 1105' FEL OF SECTION 21  
MINCO FIELD**

SECTION 28, TOWNSHIP 11 NORTH, RANGE 7 WEST I.M., &  
SECTION 33, TOWNSHIP 11 NORTH, RANGE 7 WEST I.M. &  
SECTION 4, TOWNSHIP 10 NORTH, RANGE 7 WEST I.M.

**LEASE LINES**  
**SHL: 340' FNL 1105' FEL**  
**GRADY/CANADIAN COUNTY, OKLAHOMA**

NOTE:

1. COMBINED SCALE FACTOR: 0.99953993
2. SHL IS APPROXIMATELY 1.09 MILES N 11°26'32" W OF UNION CITY OKLAHOMA.

SCALE 1" = 1000'

0 500' 1000' 2000'

<p><b>LEGEND</b></p> <p>● POINT</p> <p>○ SURFACE HOLE LOCATION</p> <p>○ PENETRATION POINT</p> <p>○ FIRST TAKE POINT</p> <p>○ LAST TAKE POINT</p> <p>○ BOTTOM HOLE LOCATION</p> <p>○ OKLAHOMA CORPORATION COMMISSION</p>	<p>AS-DRILLED LATERAL</p> <p>SUBJECT PROPOSED LATERAL</p> <p>PROPOSED LATERAL</p> <p>LEASE LINE</p> <p>SURVEY LINE</p>	<p>ORIGINAL STAKE DATE: 06/07/19</p> <p>ADDED LATERAL: 06/13/19</p> <p>REMOVED LEASE LINE CALLS: 08/06/19</p>	<p>NOTE:</p> <ol style="list-style-type: none"> <li>BEARINGS, DISTANCES &amp; ACREAGE ARE GRID, NAD 27 US OK SOUTH ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.</li> <li>ELEVATIONS ARE BASED ON NAVD 88 COMPUTED USING GEOID 12B.</li> <li>THIS SURVEY IS FOR AN OIL &amp; GAS SURVEY AND IS NOT A BOUNDARY SURVEY.</li> <li>LOCATION OF ADJOINING WELLS OUTSIDE LEASE BOUNDARY ARE APPROXIMATED FROM OKLAHOMA CORPORATION COMMISSION DATA.</li> <li>DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.</li> <li>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 SEPTEMBER 14, 2018.</li> <li>THIS IS NOT A BOUNDARY SURVEY.</li> <li>THIS PERMIT PLAT HAS BEEN PREPARED FROM A SURVEY PLAT ON FILE IN THE OFFICE OF JOHN F. WATSON &amp; COMPANY, MIDLAND TEXAS.</li> <li>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.</li> </ol>								
<p><b>John F. Watson &amp; Company</b></p> <p>LAND &amp; DEVELOPMENT SERVICES</p> <p>PROFESSIONAL LAND SURVEYORS</p> <p>200 N. Lorraine, Ste 220 Midland, Texas 79701</p> <p>off: (432) 520-2400 fax: (432) 520-2404</p>	<p>CA#5957 EXPIRATION 6-30-2021</p> <p>200 N LORAIN E #220 MIDLAND, TX 79701 (432) 520-2400</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">REV: 1</td> <td style="width: 25%;">AFE NO.: -</td> <td style="width: 25%;">JOB NO.: 19-0097</td> <td style="width: 25%;"></td> </tr> <tr> <td>FIELD BOOK: SERVER</td> <td>VER: 1</td> <td>DRAWN BY: LLF</td> <td></td> </tr> </table>	REV: 1	AFE NO.: -	JOB NO.: 19-0097		FIELD BOOK: SERVER	VER: 1	DRAWN BY: LLF		<p style="text-align: right;">08/06/19</p> <p style="text-align: right;">PROFESSIONAL LAND SURVEYOR</p> <p style="text-align: right;">SHEET 1 OF 1</p>
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