

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

API NUMBER: 051 24396

Approval Date: 06/27/2018

Expiration Date: 12/27/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 9N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 245 595

Lease Name: LEON 2-35-9-6

Well No: 2WXH

Well will be 245 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

LEON OSBORN  
508 E ROCK CREEK ROAD  
TUTTLE OK 73089

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

Name	Depth	Name	Depth
1 WOODFORD	10559	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 653399  
255248

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804382  
201804383

Special Orders:

Total Depth: 21093

Ground Elevation: 1310

**Surface Casing: 370**

Depth to base of Treatable Water-Bearing FM: 320

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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

**Category of Pit: 1A**

**Liner required for Category: 1A**

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: 18-34697

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? Y

Wellhead Protection Area? Y

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 35 Twp 10N Rge 6W County GRADY

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 500

Depth of Deviation: 9989

Radius of Turn: 477

Direction: 355

Total Length: 10355

Measured Total Depth: 21093

True Vertical Depth: 10600

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

Notes:

Category

Description

HYDRAULIC FRACTURING

6/15/2018 - 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

6/15/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201804382

6/20/2018 - G58 - (I.O.) 2-9N-6W & 35-10N-6W  
EST MULTIUNIT HORIZONTAL WELL  
X255248 WDFD 2-9N-6W  
X653399 WDFD 35-10N-6W  
50% 2-9N-6W  
50% 35-10N-6W  
NO OP. NAMED  
REC 6/25/2018 (NORRIS)

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

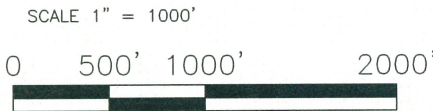
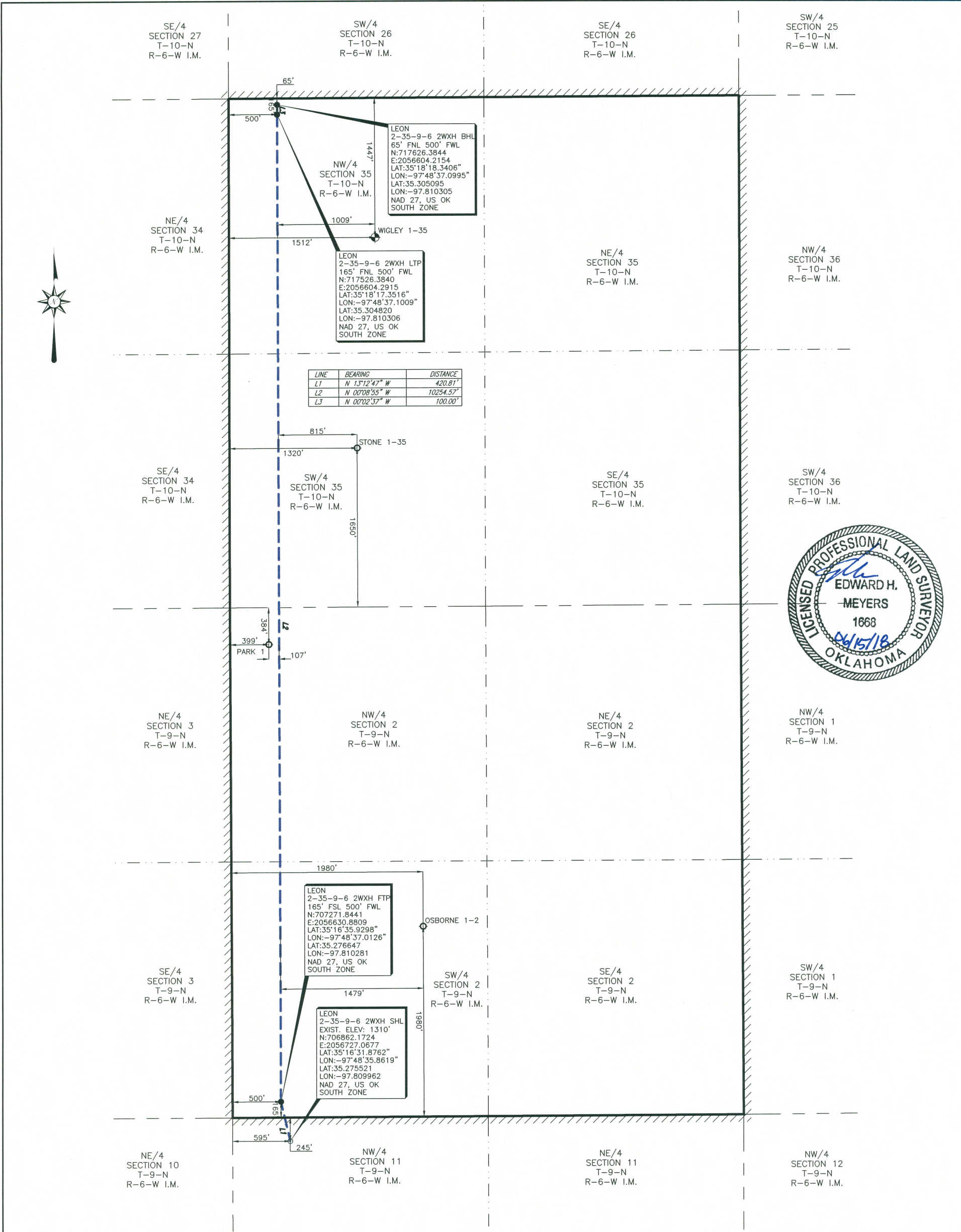
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

051 24396 LEON 2-35-9-6 2WXH

Category	Description
PENDING CD - 201804383	6/20/2018 - G58 - (I.O.) 2-9N-6W & 35-10N-6W X255248 WDFD 2-9N-6W X653399 WDFD 35-10N-6W COMPL. INT. (2-9N-6W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (35-10N-6W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 6/25/2018 (NORRIS)
PUBLIC WATER SUPPLY WELLS	6/15/2018 - G71 - TUTTLE - 2 PWS/WPA, NE/4 3-9N-6W
SPACING - 255248	6/20/2018 - G58 - (640) 2-9N-6W EXT OTHER EXT 242927 WDFD
SPACING - 653399	6/20/2018 - G58 - (640)(HOR) 35-10N-6W EST WDFD 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.  
**LEON 2-35-9-6 2WXH**  
**245' FNL 595' FWL OF SECTION 11**  
MINCO FIELD  
SECTION 2, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M. &  
SECTION 35, TOWNSHIP 10 NORTH, RANGE 6 WEST I.M.  
**LEASE LINES**  
**SHL: 245' FSL 595' FWL**  
GRADY COUNTY, OKLAHOMA

NOTE:  
1. COMBINED SCALE FACTOR: 0.999947069  
2. SHL IS APPROXIMATELY 1.05 MILES S 06°20'28" 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
AS-DRILLED LATERAL	AS-DRILLED LATERAL
SUBJECT PROPOSED LATERAL	SUBJECT PROPOSED LATERAL
PROPOSED LATERAL	PROPOSED LATERAL
LEASE LINE	LEASE LINE
SURVEY LINE	SURVEY LINE

ORIGINAL STAKE DATE: 04/10/18  
ADDED LATERAL: 04/19/18  
CHANGED WELL NAME: 06/14/18

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.

**John F. Watson & Company**  
LAND & DEVELOPMENT SERVICES  
PROFESSIONAL LAND SURVEYORS  
200 N. LORAIN, 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

REV: 1	A/E NO.: -	JOB NO.: 18-0097
FIELD BOOK: SERVER	VER: 1	DRAWN BY: EHM

PROFESSIONAL LAND SURVEYOR