

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

API NUMBER: 051 24382

Approval Date: 06/12/2018

Expiration Date: 12/12/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: GRADY

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 225 595

Lease Name: LEON 3-34-9-6

Well No: 2WXH

Well will be 225 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	10600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 255248

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802949
201802950
201802951
201802952

Special Orders:

Total Depth: 21118

Ground Elevation: 1310

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 320

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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: 18-34542

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 34 Twp 10N Rge 6W 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: 10300

Radius of Turn: 524

Direction: 350

Total Length: 9995

Measured Total Depth: 21118

True Vertical Depth: 10600

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

Notes:

Category

Description

DEEP SURFACE CASING

5/17/2018 - 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

5/17/2018 - 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

5/17/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201802949

5/25/2018 - G58 - (I.O.) 34-10N-6W & 3-9N-6W
EST MULTIUNIT HORIZONTAL WELL
X255248 WDFD (34-10N-6W & 3-9N-6W)
50% 34-10N-6W
50% 3-9N-6W
REC 5/15/2018 (M. PORTER)

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 24382 LEON 3-34-9-6 2WXH

Category	Description
PENDING CD - 201802950	5/25/2018 - G58 - (I.O.) 34-10N-6W & 3-9N-6W X255248 WDFD COMPL. INT. (34-10N-6W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (3-9N-6W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED REC 5/15/2018 (M. PORTER)
PENDING CD - 201802951	5/25/2018 - G58 - 34-10N-6W X255248 WDFD 1 WELL NO OP. NAMED REC 5/15/2018 (M. PORTER)
PENDING CD - 201802952	5/25/2018 - G58 - 3-9N-6W X255248 WDFD 1 WELL NO OP. NAMED REC 5/15/2018 (M. PORTER)
SPACING - 255248	5/25/2018 - G58 - (640) 34-10N-6W & 3-9N-6W EXT OTHERS EXT WDFD, OTHERS

SCALE 1" = 1000'

0 500' 1000' 2000'

A horizontal scale bar with alternating black and white segments. The segments are labeled 0, 500', 1000', and 2000' from left to right. The bar is divided into four equal segments, each representing 500 feet. The first segment (0 to 500') is black, the second (500' to 1000') is white, the third (1000' to 1500') is black, and the fourth (1500' to 2000') is white.

SECTION 3, TOWNSHIP 9 NORTH, RANGE 6 WEST I.M. &
SECTION 34, TOWNSHIP 10 NORTH, RANGE 6 WEST I.M.

LEASE LINES

SHL: 225' FSL 595' FEL

GRADY COUNTY, OKLAHOMA

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. THERE IS NO OIL & GAS SUB-SURFACE LEAD AND IS NOT A BOUNDARY SURVEY.
4. LOCATION OF ADJOINING WELLS OUTSIDE LEAD BOUNDARY ARE APPROXIMATED FROM OKLAHOMA CORPORATION COMMISSION DATA.
5. DOWNHOLE INFORMATION PROVIDED BY THE CLIENT.
6. THIS SURVEY COMPLETES THE SURVEY PLAN AND 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 THE BORE-HOLE-DRILL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

REV: 1	AFE NO.: -	JOB NO.: 18-0096
FIELD BOOK: SERVER		VER: 1 DRAWN BY:

06/04/18

SHEET 1 OF 1