

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

API NUMBER: 017 25514

Approval Date: 08/29/2019

Expiration Date: 02/28/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

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

County: CANADIAN

SPOT LOCATION: SW SE SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 320 2080

Lease Name: GALLANT FOX 28-33-11-7

Well No: 1MXH

Well will be 320 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

KENNETH AND CHARLICE ROYSTER
309 CHISHOLM TRAIL
YUKON OK 73099

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10766	6	
2 WOODFORD	10886	7	
3		8	
4		9	
5		10	

Spacing Orders: 671759
658912

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903527
201903528
201903505
201903506

Special Orders:

Total Depth: 18268 Ground Elevation: 1344

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 380

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)

PERMIT NO: 19-36833

H. SEE MEMO

CKL
Cancel per operator request

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 33 Twp 11N Rge 7W County CANADIAN

Spot Location of End Point: SE SW SE NW

Feet From: NORTH 1/4 Section Line: 2400

Feet From: WEST 1/4 Section Line: 1680

Depth of Deviation: 9983

Radius of Turn: 575

Direction: 182

Total Length: 7382

Measured Total Depth: 18268

True Vertical Depth: 10886

End Point Location from Lease,
Unit, or Property Line: 1680

Notes:

Category

Description

DEEP SURFACE CASING

7/23/2019 - 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

7/23/2019 - 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: 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

7/23/2019 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903505

8/29/2019 - GB1 - 33-11N-7W
X671759 MSSP, OTHER
7 WELLS; 4 MSSP, 3 OTHER
NO OP. NAMED
REC. 8/5/2019 (M. PORTER)

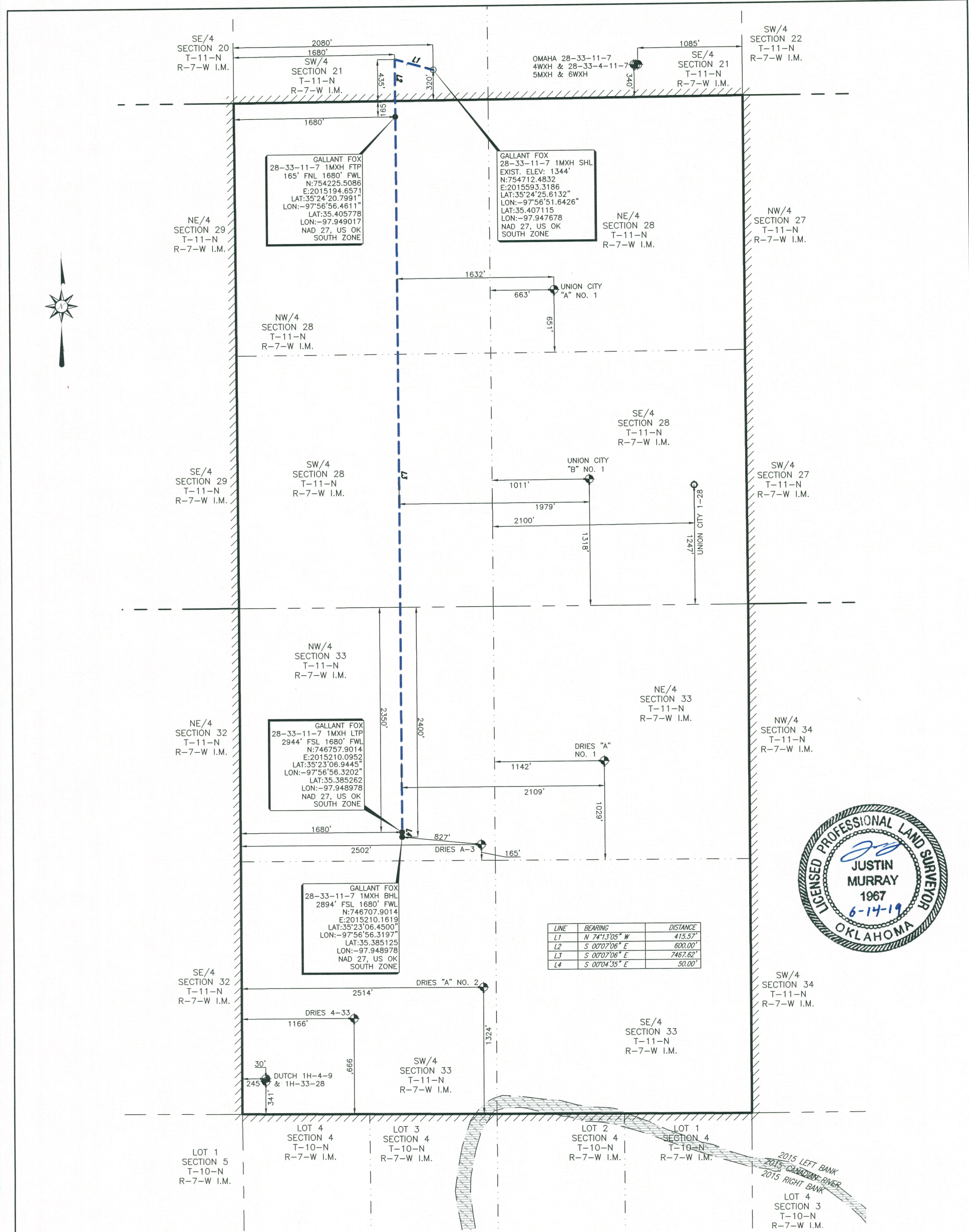
This permit does not address the right of entry or settlement of surface damages.

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.

017 25514 GALLANT FOX 28-33-11-7 1MXH

Category	Description
PENDING CD - 201903506	8/29/2019 - GB1 - 28-11N-7W X658912 MSSP, OTHER 4 WELLS; 2 MSSP, 2 OTHER NO OP. NAMED REC. 8/26/2019 (NORRIS)
PENDING CD - 201903527	8/29/2019 - GB1 - (I.O.) 28 & 33-11N-7W X658912 MSSP, WDFD 28-11N-7W X671759 MSSP, WDFD 33-11N-7W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 68% 28-11N-7W 32% 33-11N-7W ROAN RESOURCES, LLC REC. 8/26/2019 (NORRIS)
PENDING CD - 201903528	8/29/2019 - GB1 - (I.O.) 28 & 33-11N-7W X658912 MSSP, WDFD 28-11N-7W X671759 MSSP, WDFD 33-11N-7W X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS COMPL. INT. (28-11N-7W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (33-11N-7W) NCT 0' FNL, NCT 2500' FSL, NCT 330' FWL ROAN RESOURCES, LLC REC. 8/26/2019 (NORRIS)
SPACING - 658912	8/29/2019 - 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 - 671759	8/29/2019 - 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



LINE	BEARING	DISTANCE
L1	N 74°13'05" W	415.57'
L2	S 00°07'06" E	600.00'
L3	S 00°07'06" E	7467.62'
L4	S 00°04'35" E	50.00'

PERMIT PLAT OF
ROAN RESOURCES, LLC
GALLANT FOX 28-33-11-7 1MXH
320' FSL 2080' FWL 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.
LEASE LINES
SHL: 320' FNL 2080' FWL
CANADIAN COUNTY, OKLAHOMA

NOTE:
1. COMBINED SCALE FACTOR: 0.999947069
2. SHL IS APPROXIMATELY 1.23 MILES N 30°05'50" W OF UNION CITY OKLAHOMA.

FILE: S:\OK\GRADY\PROJECTS\T11N-R07W\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-DRIILLED LATERAL
SUBJECT PROPOSED LATERAL
PROPOSED LATERAL
LEASE LINE
SURVEY LINE

STAKED WELLS: 06/07/19
ADDED LATERAL: 06/14/19

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 SEPTEMBER 14, 2018.
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. Lorraine, 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: - AFE NO.: - JOB NO.: 19-0093
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

PROFESSIONAL LAND SURVEYOR

06/14/19

SHEET 1 OF 1