

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

API NUMBER: 017 25264 A

Approval Date: 09/04/2018  
Expiration Date: 03/04/2019

Horizontal Hole Oil & Gas

Amend reason: CORRECT WELL NAME AND BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 11N Rge: 5W

County: CANADIAN

SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 295 1045

Lease Name: SWITZER 5-8-11-5

Well No: 3WXH

Well will be 295 feet from nearest unit or lease boundary.

Operator Name: ROAN RESOURCES LLC

Telephone: 4052412150

OTC/OCC Number: 24127 0

ROAN RESOURCES LLC  
14701 HERTZ QUAIL SPRINGS PKWY  
OKLAHOMA CITY, OK 73134-2641

DWAIN SWITZER LIVING TRUST ET AL  
1200 SYCAMORE  
WEATHERFORD OK 73096

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

	Name	Depth	Name	Depth
1	WOODFORD	8530	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805959  
201805960  
201806207  
201806205

Special Orders:

Total Depth: 19066

Ground Elevation: 0

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 1160

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: 18-35156

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 08 Twp 11N Rge 5W County CANADIAN

Spot Location of End Point: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 1170

Depth of Deviation: 8137

Radius of Turn: 382

Direction: 178

Total Length: 10328

Measured Total Depth: 19066

True Vertical Depth: 8530

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

8/31/2018 - G57 - 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

8/31/2018 - G57 - 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

8/31/2018 - G57 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

#### PENDING CD - 201805959

8/31/2018 - G57 - (640)(HOR) 5-11N-5W  
X676879 WDFD, OTHER  
POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL  
REC 8-28-2018 (FOREMAN)

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

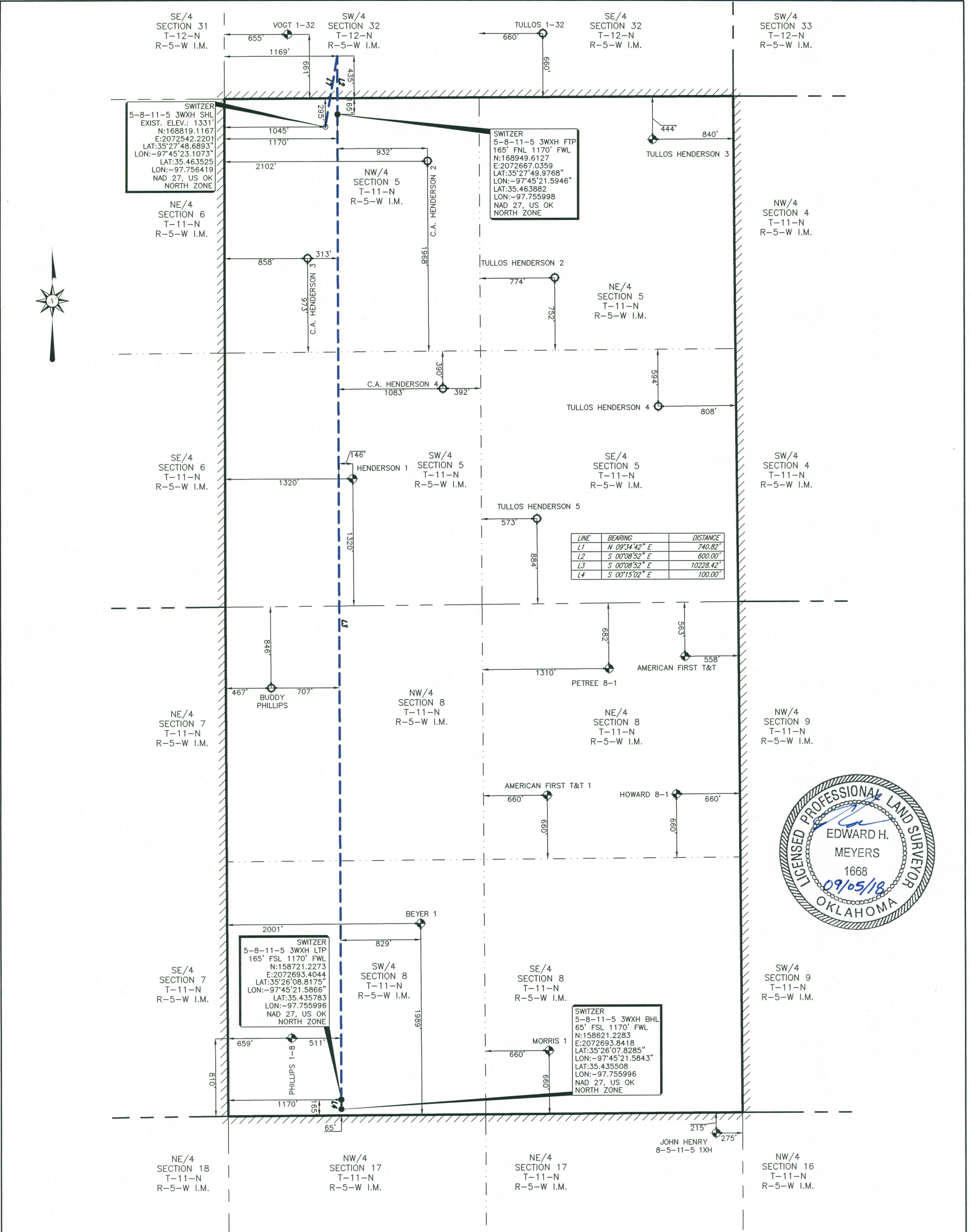
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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 25264 SWITZER 5-8-11-5 3WXH

Category	Description
PENDING CD - 201805960	8/31/2018 - G57 - (640)(HOR) 8-11N-5W VAC OTHERS VAC 151845 WDFD EXT 676879 WDFD POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 8-28-2018 (FOREMAN)
PENDING CD - 201806205	8/31/2018 - G57 - (I.O.) 5 & 8-11N-5W X201805959 WDFD 5-11N-5W X201805960 WDFD 8-11N-5W COMPL. INT. (5-11N-5W) NCT 165' FNL, NCT 0' FSL, NCT 250' FWL COMPL. INT. (8-11N-5W) NCT 0' FNL, NCT 165' FSL, NCT 250' FWL NO OP. NAMED REC 8-28-2018 (FOREMAN)
PENDING CD - 201806207	8/31/2018 - G57 - (I.O.) 5 & 8-11N-5W EST MULTIUNIT HORIZONTAL WELL X201805959 WDFD 5-11N-5W X201805960 WDFD 8-11N-5W 50% 5-11N-5W 50% 8-11N-5W ROAN RESOURCES, LLC. REC 8-28-2018 (FOREMAN)





PERMIT PLAT OF  
ROAN RESOURCES, LLC.  
**SWITZER 5-8-11-5 3WXH**  
**295' FNL 1045' FWL OF SECTION 5**  
MINCO FIELD  
SECTION 5, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M. &  
SECTION 8, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M.  
**LEASE LINES**  
**SHL: 295' FNL & 1045' FWL**  
CANADIAN COUNTY, OKLAHOMA

NOTE:  
1. COMBINED SCALE FACTOR: 0.99998264  
2. SHL IS APPROXIMATELY 5.28 MILES N 20°15'51" W OF MUSTANG OKLAHOMA.

SCALE 1" = 1000'  
0 500' 1000' 2000'

FILE: S:\OK\CANADIAN\PROJECTS\T11N-R05W\DWG\

**LEGEND**

- POINT
- SHL SURFACE HOLE LOCATION
- PP PENETRATION POINT
- FTP FIRST TAKE POINT
- LTP LAST TAKE POINT
- BHL BOTTOM HOLE LOCATION
- OCC SURFACE LOCATION OBTAINED FROM OCC
- OKLAHOMA CORPORATION COMMISSION

**AS-DRILLED LATERAL**

- SUBJECT PROPOSED LATERAL
- PROPOSED LATERAL
- LEASE LINE
- SURVEY LINE

STAKED WELLS: 08/30/18  
ADDED LATERAL: 09/05/18

NOTE:  
1. BEARINGS, DISTANCES & ACREAGE ARE GRID, NAD 27 US OK NORTH 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 ONE-TO-ONE 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  
Tel: (432) 520-2400  
Fax: (432) 520-2404

CA#5957 EXPIRATION 6-30-2019  
200 N LORRAINE #220  
MIDLAND, TX 79701  
(432) 520-2400

REV: - AFE NO.: - JOB NO.: 18-0257  
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

09/05/18  
SHEET 1 OF 1