

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

API NUMBER: 017 25320

Approval Date: 11/16/2018

Expiration Date: 05/16/2020

Horizontal Hole Oil & Gas

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: 255 1045

Lease Name: SWITZER 5-8-11-5

Well No: 2MXH

Well will be 255 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

DWAIN SWITZER LIVING TRUST ET AL  
1200 SYCAMORE  
WEATHERFORD OK 73096

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8447	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809104  
201805959  
201805960  
201809105  
201809107  
201809108  
201806672

Special Orders:

Total Depth: 19007

Ground Elevation: 1331

**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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-35821

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 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

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 SW SW SW

Feet From: SOUTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 600

Depth of Deviation: 7779

Radius of Turn: 573

Direction: 185

Total Length: 10328

Measured Total Depth: 19007

True Vertical Depth: 8447

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

Notes:

Category

Description

DEEP SURFACE CASING

11/9/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

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017 25320 SWITZER 5-8-11-5 2MXH

Category	Description
HYDRAULIC FRACTURING	<p>11/9/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
MEMO	<p>11/9/2018 - G71 - PIT 1 &amp; 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT</p>
PENDING CD - 201805959	<p>11/16/2018 - G75 - (640)(HOR) 5-11N-5W  VAC 152508/152860 MSSLM NE4 &amp; S2 SW4  EXT 676879 MSSP, OTHER  POE TO BHL NLT 660' FB  (COEXIST SP. ORDER # 152508/152860 MSSLM NW4, SE4 &amp; N2 SW4)  REC 8-28-2018 (FOREMAN)</p>
PENDING CD - 201805960	<p>11/16/2018 - G75 - (640)(HOR) 8-11N-5W  VAC 164529/167828 MSSLM N2 NE4  VAC 169323 MSSLM S2 NE4  VAC 151845 MSSLM S2  EXT 676879 MSSP, OTHER  POE TO BHL NLT 660' FB  (COEXIST SP. ORDER # 151845 MSSLM NW4)  REC 8-28-2018 (FOREMAN)</p>
PENDING CD - 201806672	<p>11/16/2018 - G75 - (I.O.) 5 &amp; 8-11N-5W  X165:10-3-28(C)(2)(B) MSSP (SWITZER 5-8-11-5 2MXH)  MAY BE CLOSER THAN 600' TO C. A. HENDERSON 3 &amp; BUDDY PHILLIPS 1  ROAN RESOURCES, LLC.  REC 9-11-2018 (MILLER)</p>
PENDING CD - 201809104	<p>11/16/2018 - G75 - (E.O.) 5 &amp; 8-11N-5W  EST MULTIUNIT HORIZONTAL WELL  X201805959 MSSP 5-11N-5W  X201805960 MSSP 8-11N-5W  50% 5-11N-5W  50% 8-11N-5W  ROAN RESOURCES, LLC.  REC 11-13-2018 (MINMIER)</p>
PENDING CD - 201809105	<p>11/16/2018 - G75 - (E.O.) 5 &amp; 8-11N-5W  X201805959 MSSP 5-11N-5W  X201805960 MSSP 8-11N-5W  COMPL. INT. (5-11N-5W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL  COMPL. INT. (8-11N-5W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL  ROAN RESOURCES, LLC  REC 11-13-2018 (MINMIER)</p>
PENDING CD - 201809107	<p>11/16/2018 - G75 - 5-11N-5W  X201805959 MSSP  1 WELL  NO OP. NAMED  HEARING 11-27-2018</p>
PENDING CD - 201809108	<p>11/16/2018 - G75 - 8-11N-5W  X201805960 MSSP  1 WELL  NO OP.NAMED  HEARING 11-27-2018</p>

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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.



A horizontal graphic scale bar with alternating black and white segments. Above the bar, the scale is marked with '0', '500'', '1000'', and '2000''.

NOTE:

1. COMBINED SCALE FACTOR: 0.99998264
2. SHL IS APPROXIMATELY 5.29 MILES N 20°14'09" W OF MUSTANG OKLAHOMA.

SECTION 5, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M. &  
SECTION 8, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M.

**LEASE LINES**  
**SHL: 255' FNL & 1045' FWL**  
CANADIAN COUNTY, OKLAHOMA

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


<u>LEGEND</u>			
SHL	SURFACE HOLE LOCATION		POINT
PP	PENETRATION POINT		EXISTING WELLHEAD
FTP	FIRST TAKE POINT		PROPOSED WELL LOCATION SET
LTP	LAST TAKE POINT		
BHL	BOTTOM HOLE LOCATION		
CCC	OKLAHOMA CORPORATION COMMISSION		SURFACE LOCATION OBTAINED FROM CCC

Diagram illustrating the boundaries of the proposed lateral well and lease:

- AS-DRILLED LATERAL (indicated by a dashed line)
- SUBJECT PROPOSED LATERAL (indicated by a solid line)
- PROPOSED LATERAL (indicated by a solid line)
- LEASE LINE (indicated by a solid line)
- SURVEY LINE (indicated by a solid line)

STAKED WELLS: 07/16/18  
ADDED LATERAL: 08/03/18  
MOVED SHL AND RE-NAMED WELL: 08/30/18  
REVISED LATERAL: 09/10/18

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 COMPUDED USING GEOID 12B.
3. THIS SURVEY COMPLIES WITH 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 SURVEYING 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 off. (432) 520-2400  
Midland, Texas 79701 fax. (432) 520-2404

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

REV: 1	AFE NO.: —	JOB NO.: 18—0178
FIELD BOOK: SERVER		VER: 1      DRAWN BY: LLF

09/10/18

SHEET 1 OF 1