

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

API NUMBER: 017 25459

Approval Date: 05/28/2019

Expiration Date: 11/28/2020

Horizontal Hole  
Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 11N Rge: 5W County: CANADIAN  
SPOT LOCATION:  NE  NE  NE  NE  
FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 230 295

Lease Name: JOHN HENRY 17-20-11-5 Well No: 2WXH Well will be 230 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

DELIA ANN ANDERSON & JOSEPH A ANDERSON  
4720 NORWOOD LANE N  
PLYMOUTH MN 55442

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

Name	Depth	Name	Depth
1 WOODFORD	8407	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809854  
201809853  
201809857  
201809858  
201809859  
201809860

Special Orders:

Total Depth: 18967 Ground Elevation: 1304 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 1130

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)

H. SEE MEMO

PERMIT NO: 18-35991

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 20 Twp 11N Rge 5W County CANADIAN

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 950

Depth of Deviation: 7864

Radius of Turn: 477

Direction: 185

Total Length: 10353

Measured Total Depth: 18967

True Vertical Depth: 8407

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

Notes:

Category

Description

DEEP SURFACE CASING

12/21/2018 - 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

12/21/2018 - 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

12/21/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201809853

2/6/2019 - G58 - (640)(HOR) 20-11N-5W  
VAC OTHERS  
VAC 180804 WDFD, OTHERS  
VAC 192737 WDFD, OTHER  
EST OTHER  
EXT 671156 WDFD, OTHER  
COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL  
REC 4/26/2019 (THOMAS)

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

017 25459 JOHN HENRY 17-20-11-5 2WXH

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

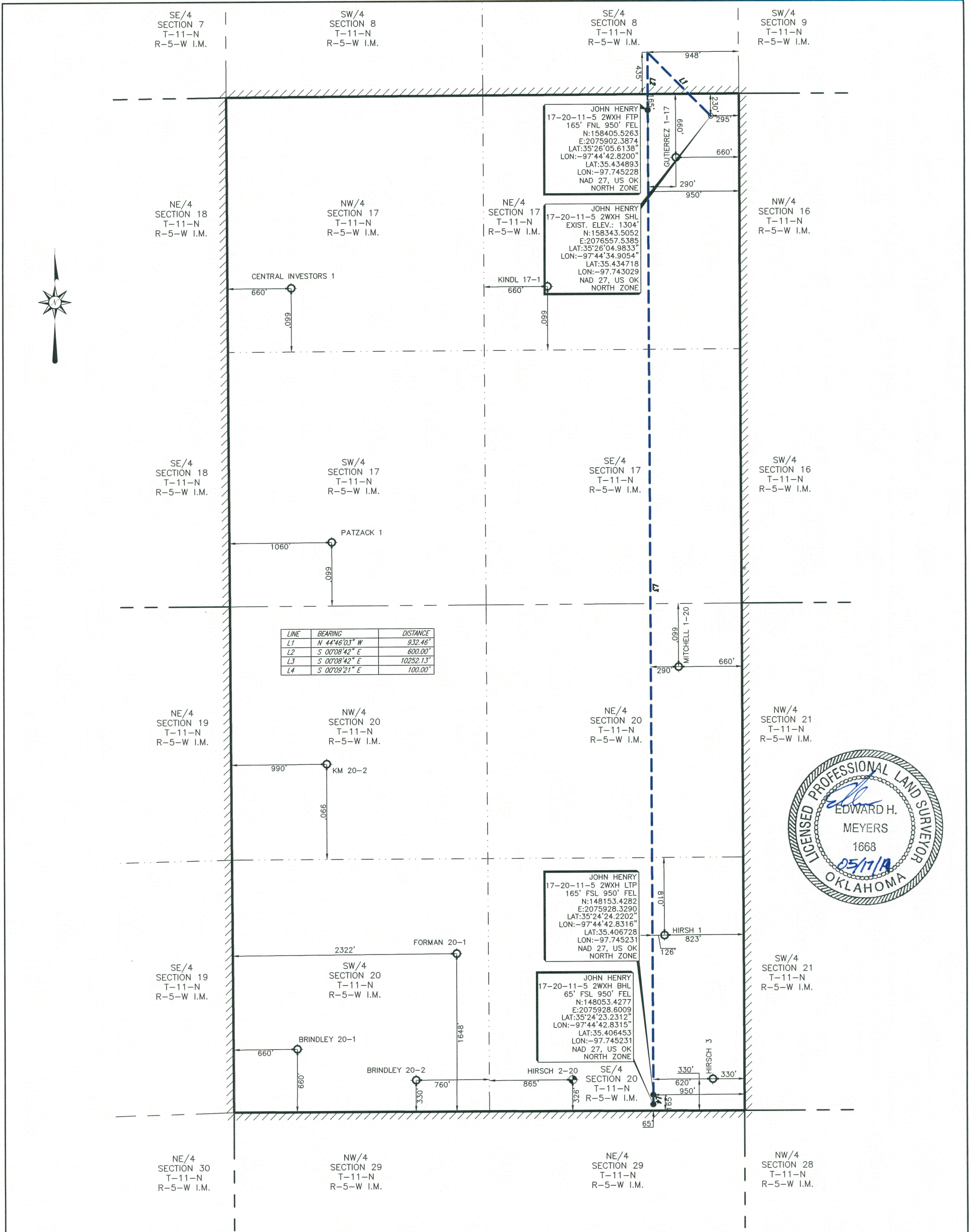
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201809854	2/6/2019 - G58 - (640)(HOR) 17-11N-5W VAC 163360 WDFD, OTHERS EST OTHER EXT 671156 WDFD, OTHER COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 4/26/2019 (THOMAS)
PENDING CD - 201809857	2/6/2019 - G58 - (I.O.) 17 & 20-11N-5W EST MULTIUNIT HORIZONTAL WELL X201809854 WDFD, OTHER X201809853 WDFD, OTHER 50% 17-11N-5W 50% 20-11N-5W NO OP. NAMED REC 4/26/2019 (THOMAS)
PENDING CD - 201809858	2/6/2019 - G58 - (I.O.) 17 & 20-11N-5W X201809854 WDFD, OTHER X201809853 WDFD, OTHER COMPL. INT. 17-11N-5W NCT 150' FNL, NCT 0' FSL, NCT 800' FEL COMPL. INT. 20-11N-5W NCT 0' FNL, NCT 150' FSL, NCT 800' FEL NO OP. NAMED REC 4/26/2019 (THOMAS)
PENDING CD - 201809859	2/6/2019 - G58 - 17-11N-5W X201809854 WDFD 1 WELL NO OP. NAMED REC 4/26/2019 (THOMAS)
PENDING CD - 201809860	2/6/2019 - G58 - 20-11N-5W X201809853 WDFD 1 WELL NO OP. NAMED REC 4/26/2019 (THOMAS)

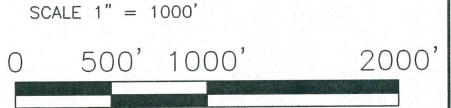
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PERMIT PLAT OF  
ROAN RESOURCES, LLC.  
**JOHN HENRY 17-20-11-5 2WXH**  
**230' FNL 295' FEL OF SECTION 17**  
MINCO FIELD  
SECTION 17, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M. &  
SECTION 20, TOWNSHIP 11 NORTH, RANGE 5 WEST I.M.  
**LEASE LINES**  
**SHL: 230' FNL & 295' FEL**  
CANADIAN COUNTY, OKLAHOMA



NOTE:  
1. COMBINED SCALE FACTOR: 0.99998264  
2. SHL IS APPROXIMATELY 3.15 MILES N 19°43'21" W OF MUSTANG OKLAHOMA.

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

<b>LEGEND</b> SHL SURFACE HOLE LOCATION PP PENETRATION POINT FTP FIRST TAKE POINT LTP LAST TAKE POINT BHL BOTTOM HOLE LOCATION OCC OKLAHOMA CORPORATION COMMISSION		ORIGINAL STAKE DATE: 12/06/18 ADDED LATERAL DATE: 12/07/18 REVISED LATERAL DATE: 05/17/19	<b>NOTE:</b> 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 COMPLES 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. 9. 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.
<b>John F. Watson &amp; Company</b> LAND & DEVELOPMENT SERVICES PROFESSIONAL LAND SURVEYORS 200 N. Lorraine, Ste. 220 Midland, Texas 79701 Phone: (432) 520-2400 Fax: (432) 520-2404 Mobile: (432) 528-0074 jwatson@midlandwater.com		CA#5957 EXPIRATION 6-30-2019 200 N LORAIN #220 MIDLAND, TX 79701 (432) 520-2400	REV: 1 AFE NO.: - JOB NO.: 18-0350 FIELD BOOK: SERVER VER: 1 DRAWN BY: LFL 05/17/19 SHEET 1 OF 1