

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

API NUMBER: 017 25458

Approval Date: 05/28/2019

Expiration Date: 11/28/2020

Horizontal Hole
Multi Unit

Oil & Gas

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: 230 275

Lease Name: JOHN HENRY 17-20-11-5

Well No: 1WXH

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	8397	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809854
201809853
201809855
201809856

Special Orders:

Total Depth: 18957

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)

PERMIT NO: 18-35990

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 20 Twp 11N Rge 5W County CANADIAN

Spot Location of End Point: SE SE SE SE

Feet From: SOUTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 300

Depth of Deviation: 7852

Radius of Turn: 477

Direction: 181

Total Length: 10356

Measured Total Depth: 18957

True Vertical Depth: 8397

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; 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

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 25458 JOHN HENRY 17-20-11-5 1WXH

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

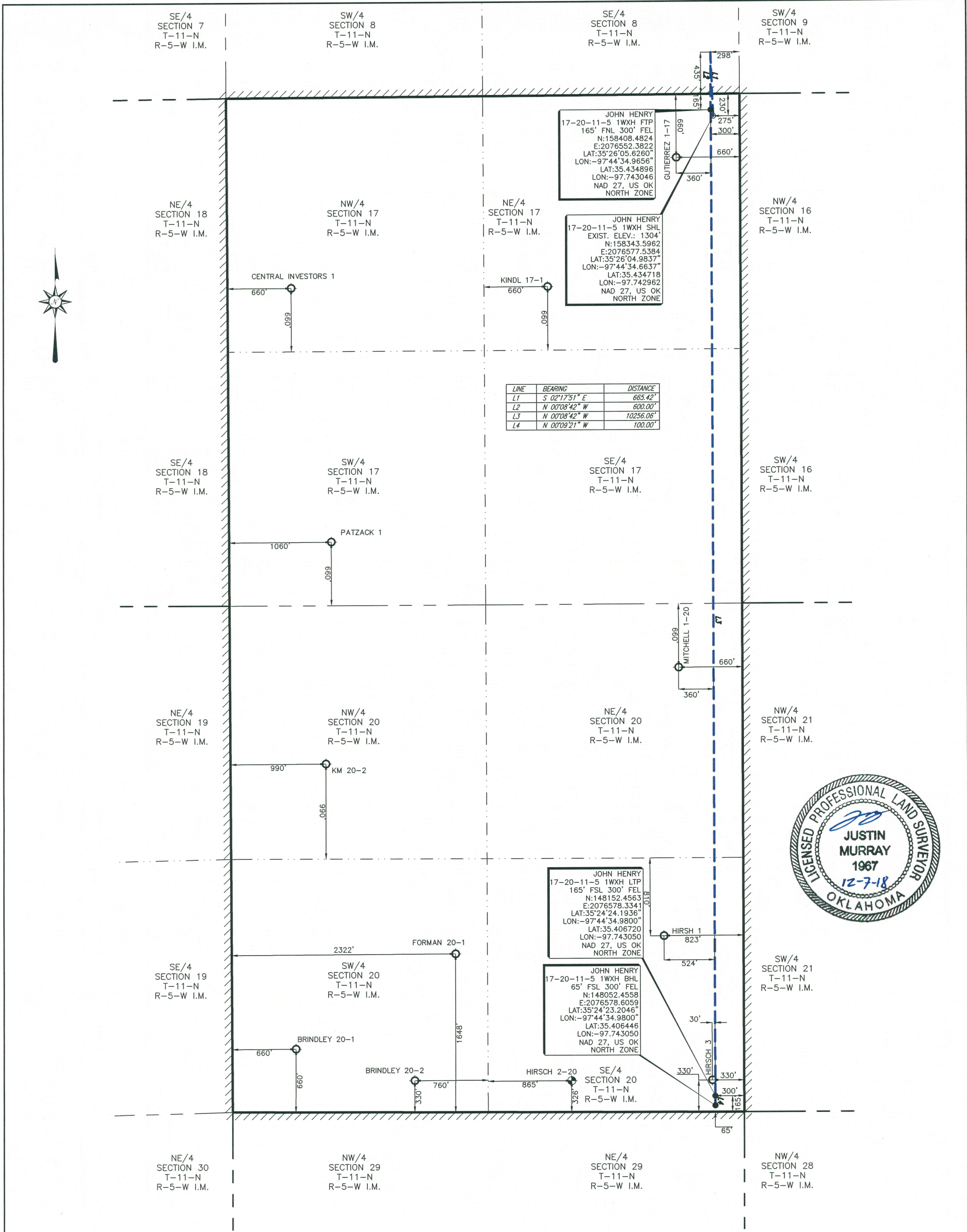
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

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 - 201809855	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 - 201809856	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 250' FEL COMPL. INT. 20-11N-5W NCT 0' FNL, NCT 150' FSL, NCT 250' FEL NO OP. NAMED REC 4/26/2019 (THOMAS)

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

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SCALE 1" = 1000'



PERMIT PLAT OF
ROAN RESOURCES, LLC.

**JOHN HENRY 17-20-11-5 1WXH
230' FNL 275' 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 & 275' FEL
CANADIAN COUNTY, OKLAHOMA

NOTE:

1. COMBINED SCALE FACTOR: 0.99998264
2. SHL IS APPROXIMATELY 3.15 MILES N 19°47'14" W OF MUSTANG OKLAHOMA.

FILE: S:\OK\CANADIAN\PROJECTS\T11N-R05W\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	POINT
EXISTING WELLHEAD	EXISTING WELLHEAD
PROPOSED WELL LOCATION SET	PROPOSED WELL LOCATION SET
SURFACE LOCATION OBTAINED FROM OCC	SURFACE LOCATION OBTAINED FROM OCC
AS-DRILLED LATERAL	AS-DRILLED LATERAL
SUBJECT PROPOSED LATERAL	SUBJECT PROPOSED LATERAL
PROPOSED LATERAL	PROPOSED LATERAL
LEASE LINE	LEASE LINE
SURVEY LINE	SURVEY LINE

John F. Watson & Company

LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
200 N. LORAIN, STE. 220
MIDLAND, TEXAS 79701
jwatson@windearthwater.com



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

ORIGINAL STAKE DATE: 01/22/18
ADDED LATERAL DATE: 02/02/17
MOVED SHL & REVISED LATERAL: 12/07/18

REV: 1 AFE NO.: - JOB NO.: 18-0025
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

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 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.
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.

12/07/18

SHEET 1 OF 1