

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

API NUMBER: 087 22172

Approval Date: 08/10/2018

Expiration Date: 02/10/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 7N Rge: 4W

County: MCCLAIN

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 385 945

Lease Name: SPAULDING 13-7-4

Well No: 1WH

Well will be 385 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

DAVID & MARY SPAULDING
10200 BETHEL ROAD
NORMAN OK 73026

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

Name	Depth	Name	Depth
1 WOODFORD	9780	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 664084

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806179
201806187

Special Orders:

Total Depth: 15070

Ground Elevation: 1165

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 260

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: 18-35084

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 13 Twp 7N Rge 4W County MCCLAIN

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 2000

Depth of Deviation: 9104

Radius of Turn: 573

Direction: 190

Total Length: 5066

Measured Total Depth: 15070

True Vertical Depth: 9790

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

Notes:

Category

Description

DEEP SURFACE CASING

8/6/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/6/2018 - 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

8/6/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201806179

8/7/2018 - G75 - (E.O.) 13-7N-4W
X664084 WDFD
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1750' FEL
ROAN RESOURCES, LLC
REC 8-9-2018 (M. PORTER)

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087 22172 SPAULDING 13-7-4 1WH

Category	Description
PENDING CD - 201806187	8/7/2018 - G75 - 13-7N-4W X664084 WDFD 1 WELL ROAN RESOURCES, LLC HEARING 8-27-2018
SPACING - 664084	8/7/2018 - G75 - (640)(HOR) 13-7N-4W EST WDFD, OTHER POE TO BHL NCT 165' TO NL & SL, NCT 330' TO EL & WL

API NUMBER: 000 00000

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

Approval Date:

Expiration Date:

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 7N Rge: 4W County: MCCLAIN

SPOT LOCATION: NE SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 360 945

Lease Name: SPAULDING 13-7-4

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DTC/OCC Number: 24127 0

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(E.O.) Hearing location exception 8-9-2018

Total Depth: 15070

Ground Elevation: 1165

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 260

Deep surface casing has been approved

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B. Solidification of pit contents.

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

PERMIT NO: 18-35084

H.

Pit 1: water-based, onsite
5K-3K ppm chlorides

Pit 2: oil-based, onsite
300K-200K ppm chlorides

Pit 1 & 2 - concrete-lined pit per
operator request; Pit 2 - OBM
to vendor, OBM cuttings per
District

**TEMPORARY AUTHORIZATION
TO DRILL**

Expiration Date: 8-14-2018

Signature: [Signature] for Virginia

OAC 165: 10-3-1 (L)

Hillinger

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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.

HORIZONTAL HOLE 1

Sec 13 Twp 7N Rge 4W County MCCLAIN

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Feet From: SOUTH 1/4 Section Line: 65

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Depth of Deviation: 9104

Radius of Turn: 573

Direction: 190

Total Length: 5066

Measured Total Depth: 15070

True Vertical Depth: 9790

End Point Location from Lease,

Unit, or Property Line: 65

Application for Intent to Drill

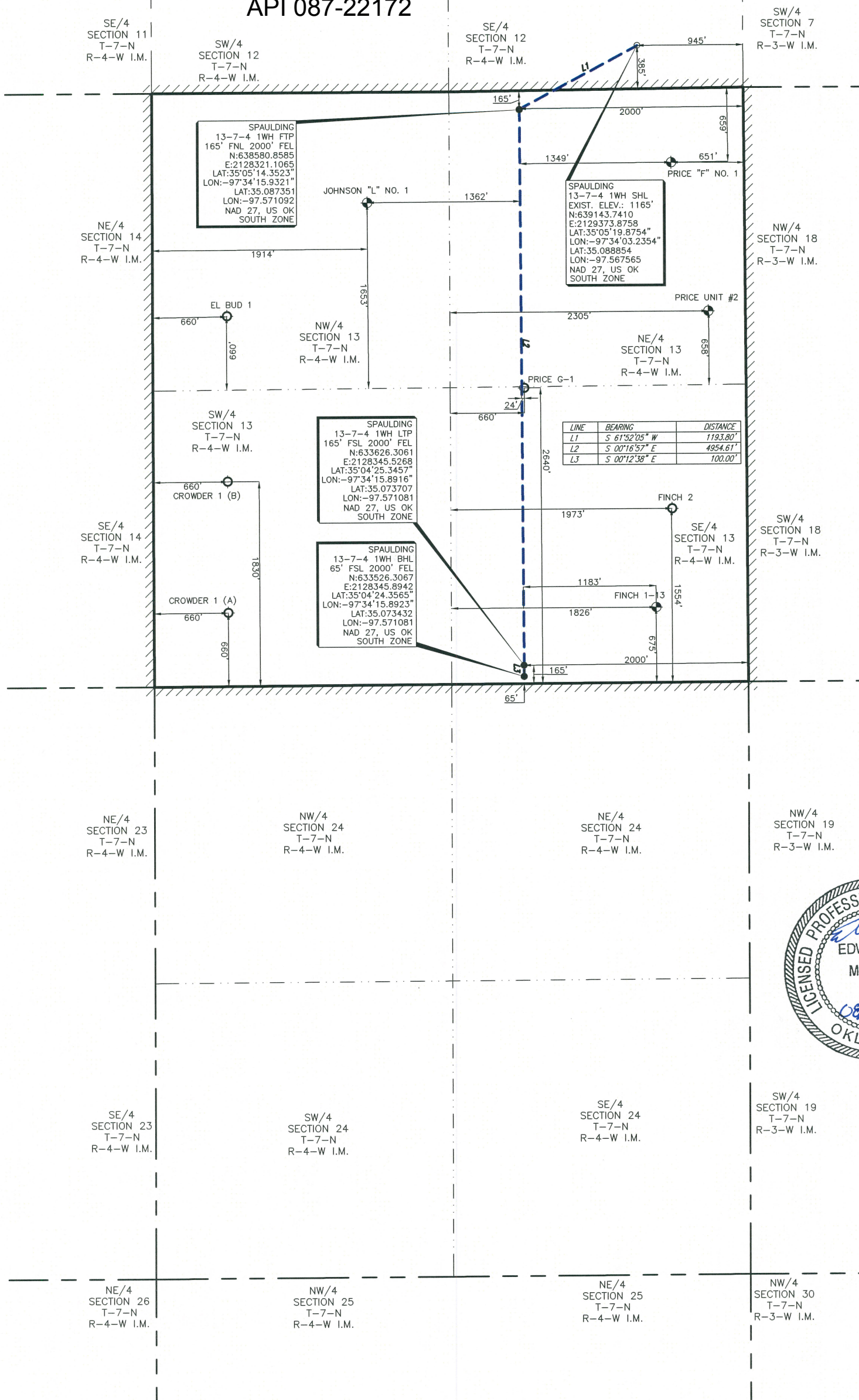
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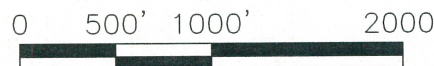
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000 00000 SPAULDING 13-7-4 1WH

API 087-22172



SCALE 1" = 1000'



PERMIT PLAT OF
ROAN RESOURCES, LLC.
SPAULDING 13-7-4 1WH
385' FSL 945' FEL OF SECTION 12
GOLDEN TREND FIELD
SECTION 13, TOWNSHIP 7 NORTH, RANGE 4 WEST I.M.
LEASE LINES
SHL: 385' FNL 945' FEL
MCCLAIN COUNTY, OKLAHOMA

NOTE:
1. COMBINED SCALE FACTOR: 0.99990195
2. SHL IS APPROXIMATELY 17.64 MILES N 06°12'31" E OF LINDSAY OKLAHOMA.

FILE: S:\OK\McClain\PROJECTS\T07N-R04W\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

John F. Watson & Company

LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
200 N. Loraine, 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

STAKED WELLS: 07/24/18
ADDED LATERAL: 07/31/18
UPDATED UNIT BOUNDARY: 08/06/18

REV: 1 AFE NO.: - JOB NO.: 18-0195
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

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 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.

PROFESSIONAL LAND SURVEYOR

08/06/18

SHEET 1 OF 1