

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

API NUMBER: 051 24549

Approval Date: 01/15/2019

Expiration Date: 07/15/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 9N Rge: 5W

County: GRADY

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 395 990

Lease Name: AMERICAN PHAROAH 19-18-9-5

Well No: 3MXH

Well will be 395 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

ANNA JENELL CAMPBELL, TRUSTEE
810 W. MAIN ST.
TUTTLE OK 73089

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10599	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 411108
402958

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809926
201809929
201809931
201809930
201900173

Special Orders:

Total Depth: 21159

Ground Elevation: 1410

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 430

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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: 18-35947

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 18 Twp 9N Rge 5W County GRADY

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 65

Feet From: WEST 1/4 Section Line: 2000

Depth of Deviation: 9916

Radius of Turn: 573

Direction: 5

Total Length: 10343

Measured Total Depth: 21159

True Vertical Depth: 10599

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

Notes:

Category

Description

DEEP SURFACE CASING

12/5/2018 - 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

12/5/2018 - 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

12/5/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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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.

051 24549 AMERICAN PHAROAH 19-18-9-5
3MXH

Category	Description
PENDING CD - 201809926	12/27/2018 - G75 - (E.O.) 19 & 18-9N-5W EST MULTIUNIT HORIZONTAL WELL XOTHERS X411108 MSSP 19-9N-5W X402958 MSSP 18-9N-5W 50% 19-9N-5W 50% 18-9N-5W ROAN RESOURCES, LLC REC 12-10-2018 (NORRIS)
PENDING CD - 201809929	12/27/2018 - G75 - (E.O.) 19 & 18-9N-5W XOTHERS X411108 MSSP 19-9N-5W X402958 MSSP 18-9N-5W COMPL. INT. (19-9N-5W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (18-9N-5W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL ROAN RESOURCES, LLC REC 12-10-2018 (NORRIS)
PENDING CD - 201809930	12/27/2018 - G75 - 18-9N-5W X402958 MSSP 1 WELL NO OP. NAMED HEARING 1-28-2019
PENDING CD - 201809931	12/27/2018 - G75 - 19-9N-5W X411108 MSSP 1 WELL NO OP. NAMED HEARING 1-28-2019
PENDING CD - 201900173	1/9/2019 - G75 - (E.O.) 19 & 18-9N-5W X165:10-3-28(C)(2)(B) MSSP (AMERICAN PHAROAH 19-18-9-5 3MXH) MAY BE CLOSER THAN 600' TO LINDSEY 1-19, LAKIN 4-18 & POTTER 3-18 ROAN RESOURCES, LLC REC 1-15-2019 (NORRIS)
SPACING - 402958	12/27/2018 - G75 - (640) 18-9N-5W EXT 257426 MSSP
SPACING - 411108	12/27/2018 - G75 - (640) 19-9N-5W EXT 402958 MSSP

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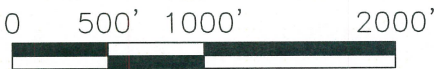
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

API 051-24549



LINE	BEARING	DISTANCE
L1	S 50°42'16" E	1306.93'
L2	N 00°07'08" W	600.00'
L3	N 00°07'08" W	10243.86'
L4	N 00°11'32" W	98.96'

SCALE 1" = 1000'



PERMIT PLAT OF
ROAN RESOURCES, LLC.
AMERICAN PHAROAH 19-18-9-5 3MXH
395' FSL 990' FWL OF SECTION 19
MINCO FIELD

SECTION 19, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M. &
SECTION 18, TOWNSHIP 9 NORTH, RANGE 5 WEST I.M.

LEASE LINES
SHL: 395' FSL & 990' FWL
GRADY COUNTY, OKLAHOMA

NOTE:

- COMBINED SCALE FACTOR: 0.999947069
- SHL IS APPROXIMATELY 4.50 MILES S 29°15'20" E OF TUTTLE OKLAHOMA.

FILE: S:\OK\GRADY\PROJECTS\T09N-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

John F. Watson & Company
LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
200 N. Lorraine, Ste. 220
Midland, Texas 79701
OFF: (432) 520-2400
FAX: (432) 520-2404



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

ORIGINAL STAKE DATE: 04/27/18
ADDED LATERAL DATE: 06/27/18
MOVED SHL: 11/12/18
REVISED LATERAL: 11/27/18
FIXED COORDINATE BOX OFFSETS: 12/27/18

REV: 3 AFE NO.: - JOB NO.: 18-0117
FIELD BOOK: SERVER VER: 1 DRAWN BY: LLF

NOTE:
1. BEARINGS, DISTANCES & ACRES 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

12/28/18

SHEET 1 OF 1