

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

API NUMBER: 017 25325

Approval Date: 11/20/2018

Expiration Date: 05/20/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 11N Rge: 7W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 235 1120

Lease Name: SILVER CHARM 22-27-11-7

Well No: 2MXH

Well will be 235 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

LEROY & ROSALIE USSERY  
P O BOX 721850  
OKLAHOMA CITY OK 73172

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10368	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 662710  
686300

Location Exception Orders:

Increased Density Orders: 686297  
686295

Pending CD Numbers: 201808098

Special Orders:

Total Depth: 20888

Ground Elevation: 1344

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 380

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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 18-35646

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

## HORIZONTAL HOLE 1

Sec 27 Twp 11N Rge 7W 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: 880

Depth of Deviation: 9798

Radius of Turn: 573

Direction: 179

Total Length: 10190

Measured Total Depth: 20888

True Vertical Depth: 10368

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

### Notes:

#### Category

#### Description

DEEP SURFACE CASING

10/29/2018 - GA8 - 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

10/29/2018 - GA8 - 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)

INCREASED DENSITY - 686295

11/20/2018 - G56 - 22-11N-7W  
X662710 MSSP  
1 WELL  
ROAN RESOURCES LLC  
11/7/2018

INCREASED DENSITY - 686297

11/20/2018 - G56 - 27-11N-7W  
X662710 MSSP  
1 WELL  
ROAN RESOURCES LLC  
11/7/2018

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

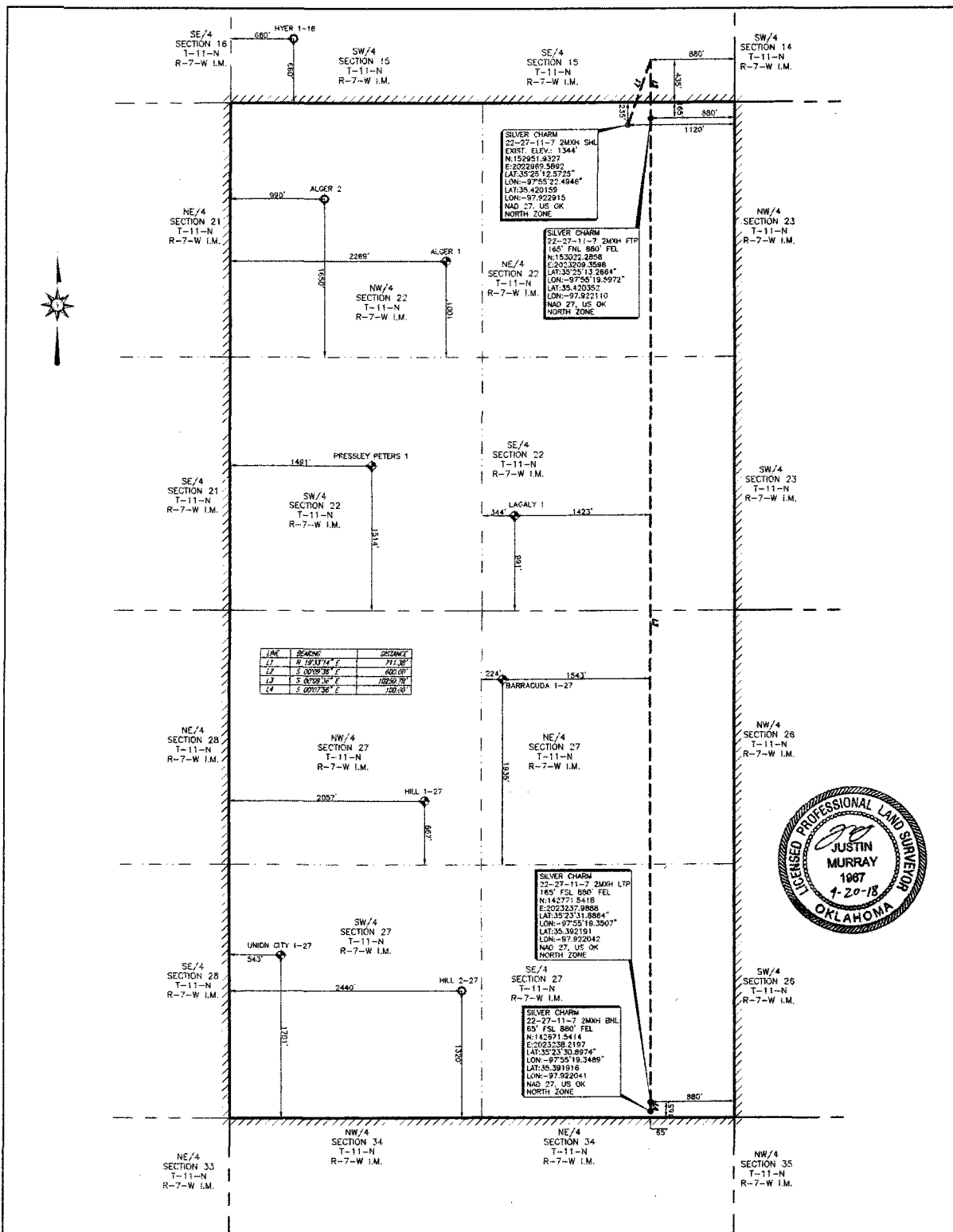
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

017 25325 SILVER CHARM 22-27-11-7 2MXH

Category	Description
MEMO	10/29/2018 - GA8 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201808098	11/19/2018 - G56 - (I.O.) 22 & 27-11N-7W X662710 MSSP X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS COMPL INT (22-11N-7W) NCT 150' FNL, NCT 0' FSL, NCT 660' FEL COMPL INT (27-11N-7W) NCT 0' FNL, NCT 150' FSL, NCT 660' FEL NO OP NAMED REC 10/22/2018 (JACKSON)
SPACING - 662710	11/19/2018 - G56 - (640)(HOR) 22 & 27-11N-7W EST WDFD, OTHER POE TO BHL NCT 165' FNL/FSL, NCT 330' FEL/FWL
SPACING - 686300	11/19/2018 - G56 - (I.O.) 22 & 27-11N-7W ESTABLISH MULTIUNIT HORIZONTAL WELL X662710 MSSP 50% 22-11N-7W 50% 27-11N-7W ROAN RESOURCES LLC 11/7/2018

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Office of the Conservation Division as to when Surface Casing will be run.



NOTE:  
 1. COMBINED SCALE FACTOR: 0.99998264  
 2. SHL IS APPROXIMATELY 2.11 MILES N 21°42'27" E OF UNION CITY, OKLAHOMA.

PERMIT PLAT OF  
 ROAN RESOURCES, LLC.  
**SILVER CHARM 22-27-11-7 2MXH**  
**235' FNL 1120' FEL OF SECTION 22**  
 MINCO FIELD  
 SECTION 22, TOWNSHIP 11 NORTH, RANGE 7 WEST I.M. &  
 SECTION 27, TOWNSHIP 11 NORTH, RANGE 7 WEST I.M.

**LEASE LINES**  
**SHL: 235' FNL & 1120' FEL**  
**CANADIAN COUNTY, OKLAHOMA**

FILE: S:\VON\CANADIAN\PROJECTS\11N-7W\DWG\

**LEGEND**  
 SHL SURFACE POLE LOCATION  
 FIP FORENSIC POINT  
 LIP LAST PAID POINT  
 BHL BOTTOM HOLE LOCATION  
 OCC OKLAHOMA CORPORATION COMMISSION

POW  
 EXISTING WELLHEAD  
 PROPOSED WELL LOCATION SET  
 PROPOSED CROWN  
 SURVEY LINE

ORIGINAL DATE: 08/26/18  
 ADDED LATERAL DATE: 08/12/18  
 WORKED SHL DATE: 08/13/18

NOTE:  
 1. BEARINGS, DISTANCES & ACRES ARE CORRECT AND 27 US OK NORTH ZONE AND ARE OBTAINED BY NORMAL GPS TECHNIQUES.  
 2. SURVEY IS FOR AN OIL & GAS SURFACE LEASE AND IS NOT A BOUNDARY SURVEY.  
 3. THIS SURVEY IS FOR AN OIL & GAS SURFACE LEASE AND IS NOT A BOUNDARY SURVEY.  
 4. LOCATION OF BOUNDARY LINES OUTSIDE LEASE BOUNDARY ARE APPROPRIATELY FROM OKLAHOMA CORPORATION COMMISSION DATA.  
 5. BOUNDARY INFORMATION PROVIDED BY THE CLIENT.  
 6. THIS SURVEY COMPLETES WITH THE SURFACE LEASE SURVEY 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 01, 2014.  
 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 ONE OR MORE 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  
 2014 N. Maple, Ste. 200  
 Midland, Texas 79701  
 (409) 520-2400  
 (409) 520-2401



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

REV: - AFE NO.: - JOB NO.: 18-0045  
 FIELD BOOK: SERVER: VDR: 1 DRAWN BY: LIT

PROFESSIONAL LAND SURVEYOR  
 09/20/18  
 SHEET 1 OF 1