

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

API NUMBER: 017 25482

Approval Date: 06/12/2019

Expiration Date: 12/12/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 11N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 260 2180

Lease Name: BATTLESHIP 1-12-10-7

Well No: 2MXH

Well will be 260 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

MIRIAM BIEGEL, TRUSTEE
1504 W. HICKORY
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9792	6	
2	MISSISSIPPI LIME	10174	7	
3	WOODFORD	10418	8	
4			9	
5			10	

Spacing Orders: 107705
474771
648165
645133
647471

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902591
201902592
201902597
201903032

Special Orders:

Total Depth: 20374

Ground Elevation: 1271

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 300

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

B. Solidification of pit contents.

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

PERMIT NO: 19-36635

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 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 12 Twp 10N Rge 7W County GRADY

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 2030

Depth of Deviation: 9274

Radius of Turn: 573

Direction: 178

Total Length: 10200

Measured Total Depth: 20374

True Vertical Depth: 10418

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

Notes:

Category

Description

DEEP SURFACE CASING

5/14/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

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

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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.

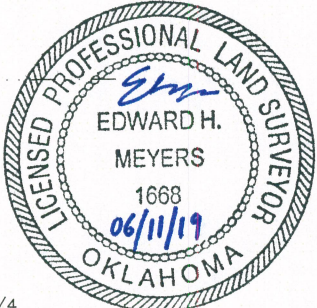
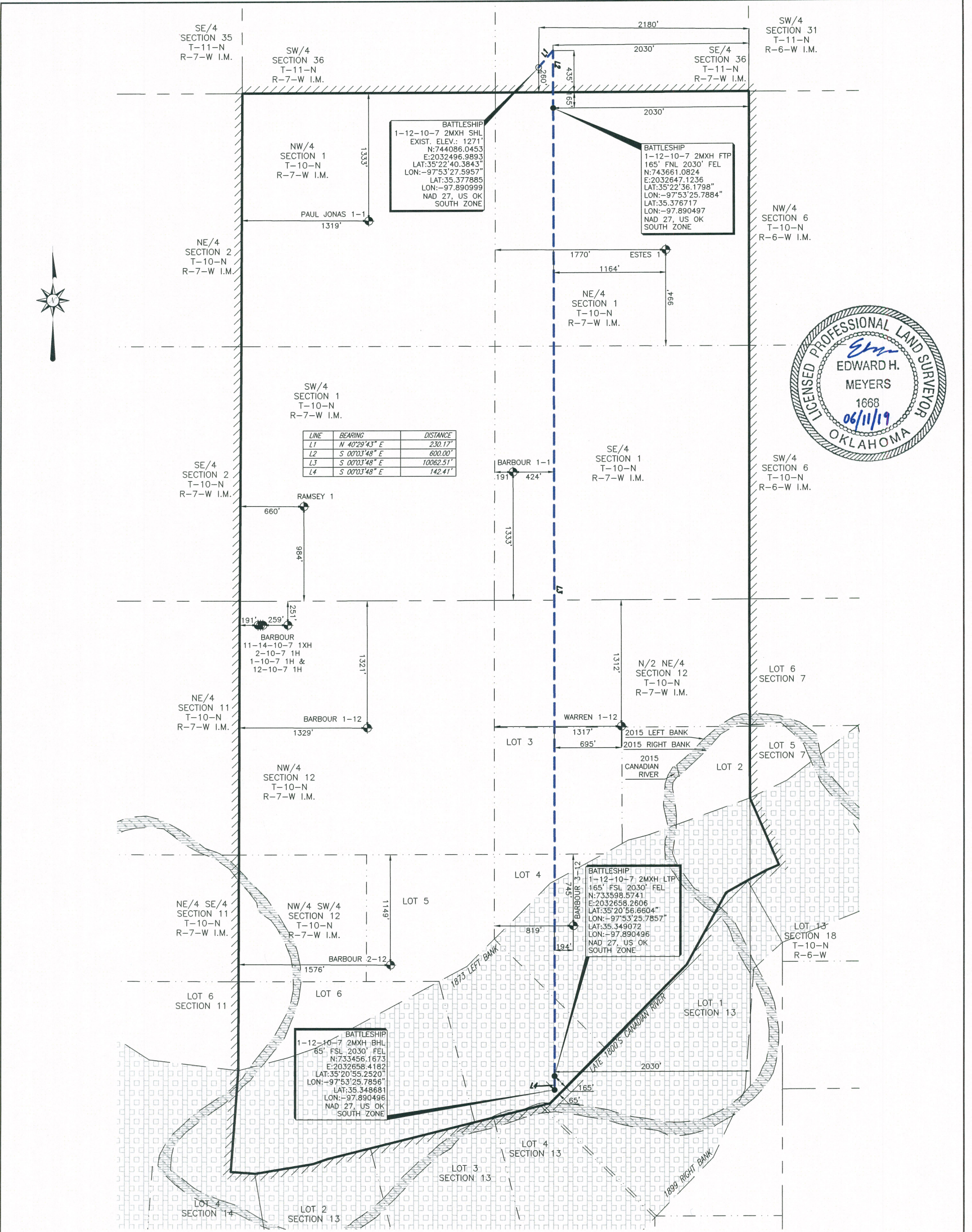
017 25482 BATTLESHIP 1-12-10-7 2MXH

Category	Description
HYDRAULIC FRACTURING	<p>5/14/2019 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
MEMO	<p>5/14/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT</p>
PENDING CD - 201902591	<p>5/29/2019 - G75 - (I.O.) 1 & 12-10N-7W EST MULTIUNIT HORIZONTAL WELL X107705 MSSLM 1-10N-7W X474771 WDFD 1-10N-7W X648165 MSSP 12-10N-7W X645133 WDFD 12-10N-7W ** (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSLM, MSSP) 50% 1-10N-7W 50% 12-10N-7W ROAN RESOURCES, LLC REC 5-28-2019 (DENTON)</p> <p>** S/B 645133/647471 WDFD 12-10N-7W; TO BE CORRECTED IN ORDER SUBMITTED TO THE OCC FOR REVIEW</p>
PENDING CD - 201902592	<p>5/29/2019 - G75 - (I.O.) 1 & 12-10N-7W X107705 MSSLM 1-10N-7W X474771 WDFD 1-10N-7W X648165 MSSP 12-10N-7W X645133 WDFD 12-10N-7W ** COMPL. INT. (1-10N-7W) NCT 150' FNL, NCT 0' FSL, NCT 2030' FEL COMPL. INT. (12-10N-7W) NCT 0' FNL, NCT 150' FSL, NCT 2030' FEL ROAN RESOURCES, LLC REC 5-28-2019 (DENTON)</p> <p>** S/B 645133/647471 WDFD 12-10N-7W; TO BE CORRECTED IN ORDER SUBMITTED TO THE OCC FOR REVIEW</p>
PENDING CD - 201902597	<p>5/29/2019 - G75 - 1-10N-7W X107705 MSSLM 3 WELLS NO OP. NAMED REC 5-28-2019 (DENTON)</p>
PENDING CD - 201903032	<p>6/4/2019 - G75 - (E.O.) 12-10N-7W X165:10-3-28(C)(2)(B) MSSP (BATTLESHIP 1-12-10-7 2MXH) MAY BE CLOSER THAN 600' TO BARBOUR 3-12 (API 017-23111) ROAN RESOURCES, LLC REC 6-7-2019 (MILLER)</p>
SPACING - 107705	<p>5/29/2019 - G75 - (640) 1-10N-7W CONSOL/EXT OTHER EXT OTHERS CONFIRM/EXT 98732 MSSLM, OTHERS</p>
SPACING - 474771	<p>5/29/2019 - G75 - (640) 1-10N-7W EST OTHER EXT OTHERS EXT 368453 WDFD, OTHERS</p>
SPACING - 645133	<p>5/29/2019 - G75 - (640)(HOR) 12-10N-7W EST WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL</p>
SPACING - 647471	<p>5/29/2019 - G75 - CONFIRM 645133 AFTER FAILURE TO NOTICE CERTAIN RESPONDENTS</p>

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.

Category	Description
SPACING - 648165	5/29/2019 - G75 - (640)(HOR) 12-10N-7W EST MSSP POE TO BHL NLT 660' FB (COEXIST SP. ORDER # 107705 CSTR, MSSLM)

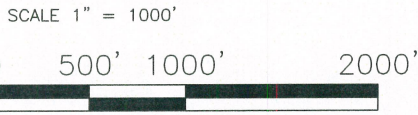
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RIVER SURVEY NOTE:
THE SECTION BOUNDARY SHOWN HEREON REPRESENTS THE CORRELATION BETWEEN THE SECTION CORNERS FOUND OF RECORD AND THE ORIGINAL GLO SURVEYS OF 1873 & 1874 "NORTH BANK OF THE RIVER" AND 1899 "SOUTH BANK OF THE RIVER." DUE TO THE MOVEMENT OF THE CANADIAN RIVER AND THE INSTABILITY OF ITS BANKS THE EXACT BOUNDARY OF THE GOVERNMENT LOTS IS NOT REPRESENTED HEREON. THERE MAY BE RIGHTS TO TITLE THAT ARE SUBSTANTIALLY AFFECTED BY RIVERBANK LAW RELATED TO THE CHANGE IN THE COURSE OF THE RIVER. LEGAL COUNSEL SHOULD BE SOUGHT BEFORE RELYING ON THE INFORMATION SHOWN HEREON RELATING TO THE DIVISION OF ACTUAL PROPERTY RIGHTS. ADDITIONALLY THE ORIGINAL GLO SURVEYS STATED ABOVE NEVER CROSSED SAID RIVER.

NOTE:
1. COMBINED SCALE FACTOR: 0.999947069
SHL IS APPROXIMATELY 2.75 MILES S 69°49'18" E OF UNION CITY OKLAHOMA.

PERMIT PLAT OF
ROAN RESOURCES, LLC.
BATTLESHIP 1-12-10-7 2MXH
260' FSL 2180' FEL OF SECTION 36
MINCO FIELD
SECTION 1, TOWNSHIP 10 NORTH, RANGE 7 WEST I.M. &
SECTION 12, TOWNSHIP 10 NORTH, RANGE 7 WEST I.M.
LEASE LINES
SHL: 260' FNL 2180' FEL
CANADIAN/GRADY COUNTY, OKLAHOMA



FILE: S:\OK\GRADY\PROJECTS\T10N-R07W\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
- AS-DRILLED LATERAL
- SUBJECT PROPOSED LATERAL
- PROPOSED LATERAL
- LEASE LINE
- SURVEY LINE

John F. Watson & Company
LAND & DEVELOPMENT SERVICES
PROFESSIONAL LAND SURVEYORS
290 N. Lorraine, Ste. 220
Midland, Texas 79701
off. (432) 520-2400
fax. (432) 520-2400

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

ORIGINAL STAKE DATE: 03/15/19
ADDED LATERAL: 04/17/19
REVISED LATERAL: 06/06/19
REVISED LTP: 06/11/19

REV: 2 AFE NO.: - JOB NO.: 19-0050
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.

06/11/19 SHEET 1 OF 1