

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

API NUMBER: 017 25312

Approval Date: 11/02/2018

Expiration Date: 05/02/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 10N Rge: 7W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 260 845

Lease Name: MAD PLAY 5-8-10-7

Well No: 5WXH

Well will be 260 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

GARY G , MARGARET R STRAKA, TRUSTEES OF THE STRAKA
9305 REFORMATORY ST
GRANTOR TRUST DATED 7/21/2018
UNION CITY OK 73090

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

| Name | Depth | Name | Depth |
|------------|-------|------|-------|
| 1 WOODFORD | 11000 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 673284

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807937
201807938
201807943
201807944

Special Orders:

Total Depth: 18920

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

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 30000 Average: 5000

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: 1A

Liner required for Category: 1A

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 18-35586

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 08 Twp 10N Rge 7W County CANADIAN

Spot Location of End Point: W2 E2 E2 W2

Feet From: NORTH 1/4 Section Line: 2640

Feet From: WEST 1/4 Section Line: 2100

Depth of Deviation: 1047

Radius of Turn: 575

Direction: 170

Total Length: 7770

Measured Total Depth: 18920

True Vertical Depth: 11000

End Point Location from Lease,
Unit, or Property Line: 2100

Notes:

Category

Description

DEEP SURFACE CASING

10/26/2018 - 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

10/26/2018 - 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; 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

10/26/2018 - GA8 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201807936

10/29/2018 - G58 - (E.O.) 5 & 8-10N-7W
X673284 WDFD 5 & 8-10N-7W
XOTHERS
COMPL. INT. 5-10N-7W NCT 0' FSL, NCT 150' FNL, NCT 845' FWL
COMPL. INT. 8-10N-7W NCT 0' FNL, NCT 1320' FSL, NCT 845' FWL
NO OP. NAMED
REC 10/16/2018 (DUNN)

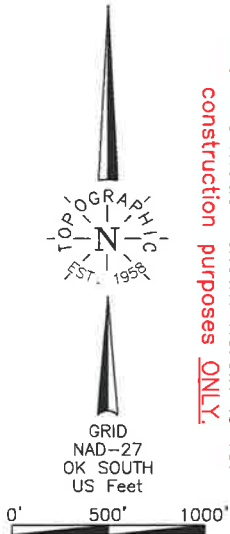
This permit does not address the right of entry or settlement of surface damages.

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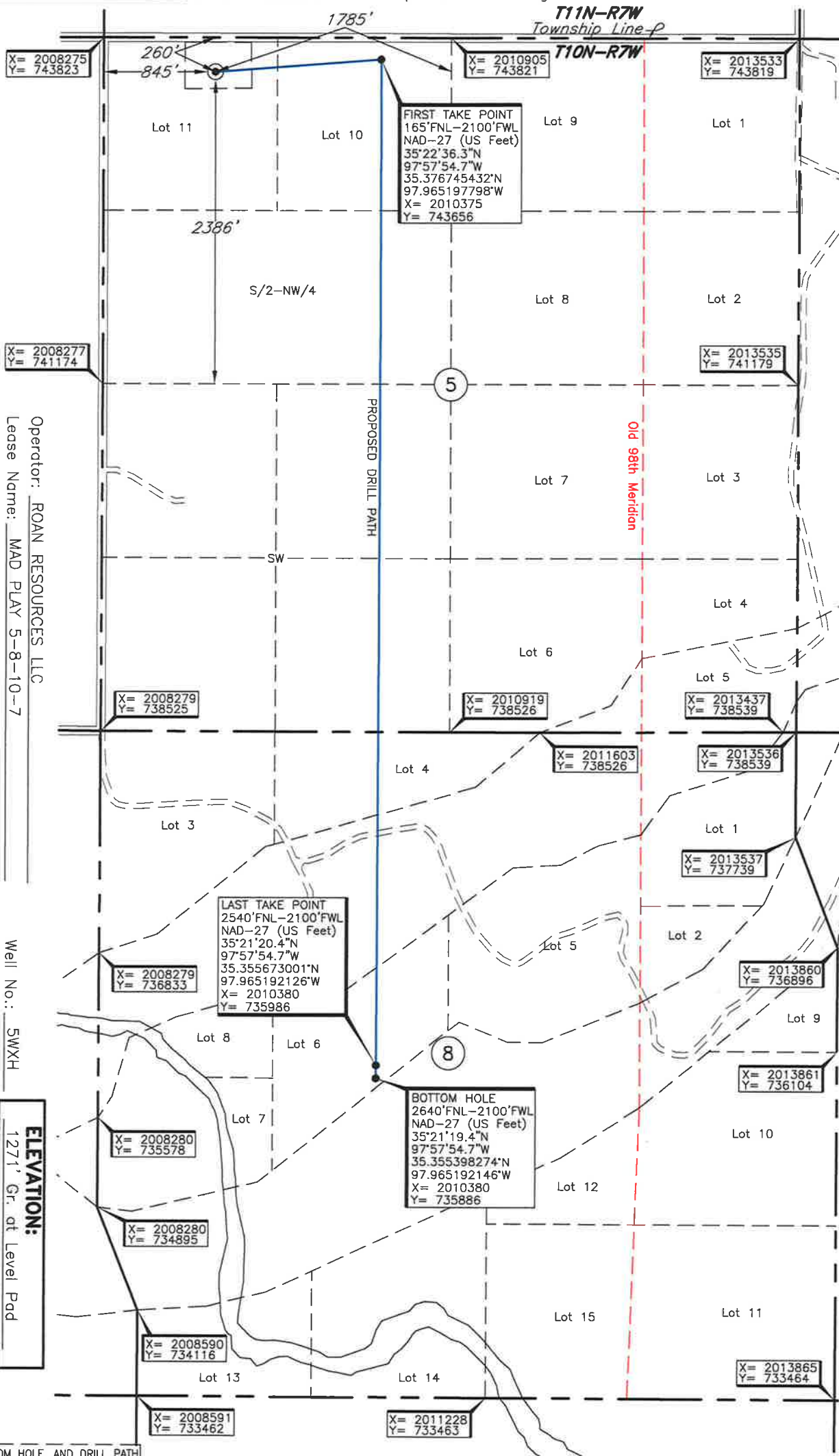
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

017 25312 MAD PLAY 5-8-10-7 5WXH

| Category | Description |
|------------------------|--|
| PENDING CD - 201807937 | 10/29/2018 - G58 - (E.O.) 5 & 8-10N-7W EST MULTIUNIT HORIZONTAL WELL X673284 WDFD 5 & 8-10N-7W XOTHERS 66% 5-10N-7W 34% 8-10N-7W NO OP. NAMED REC 10/16/2018 (DUNN) |
| PENDING CD - 201807943 | 11/2/2018 - G58 - 5-10N-7W X673284 WDFD 2 WELLS NO OP. NAMED REC 10/16/2018 (DUNN) |
| PENDING CD - 201807944 | 11/2/2018 - G58 - 8-10N-7W X673284 WDFD 2 WELLS NO OP. NAMED REC 10/16/2018 (DUNN) |
| SPACING - 673284 | 10/29/2018 - G58 - (640)(HOR) 5 & 8-10N-7W EST WDFD POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL |



NOTE:
The information shown herein is for
construction purposes ONLY.



FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE, AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Date of Drawing: Oct. 5, 2018

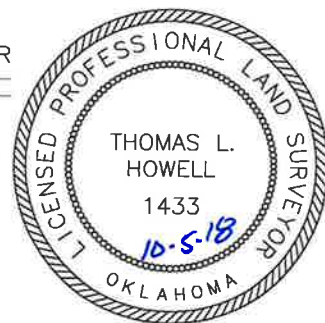
Invoice # 303989D Date Staked: Oct. 3, 2018

TR

CERTIFICATE:

I, Thomas L. Howell, an Oklahoma Licensed Land
Surveyor and an authorized agent of Topographic Land
Surveyors of Oklahoma, do hereby certify to the
information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433



DATUM: NAD-27
LAT: 35°22'35.4"N
LONG: 97°58'09.9"W
LAT: 35.376486935°N
LONG: 97.969406143°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2009121
Y: 743562

This information was gathered with a GPS receiver with a foot horizontal accuracy.

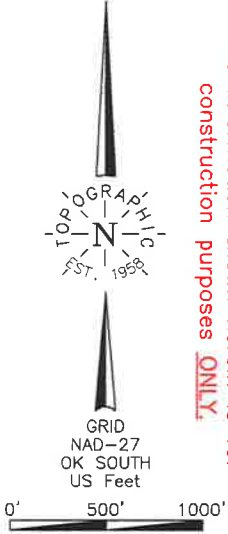
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

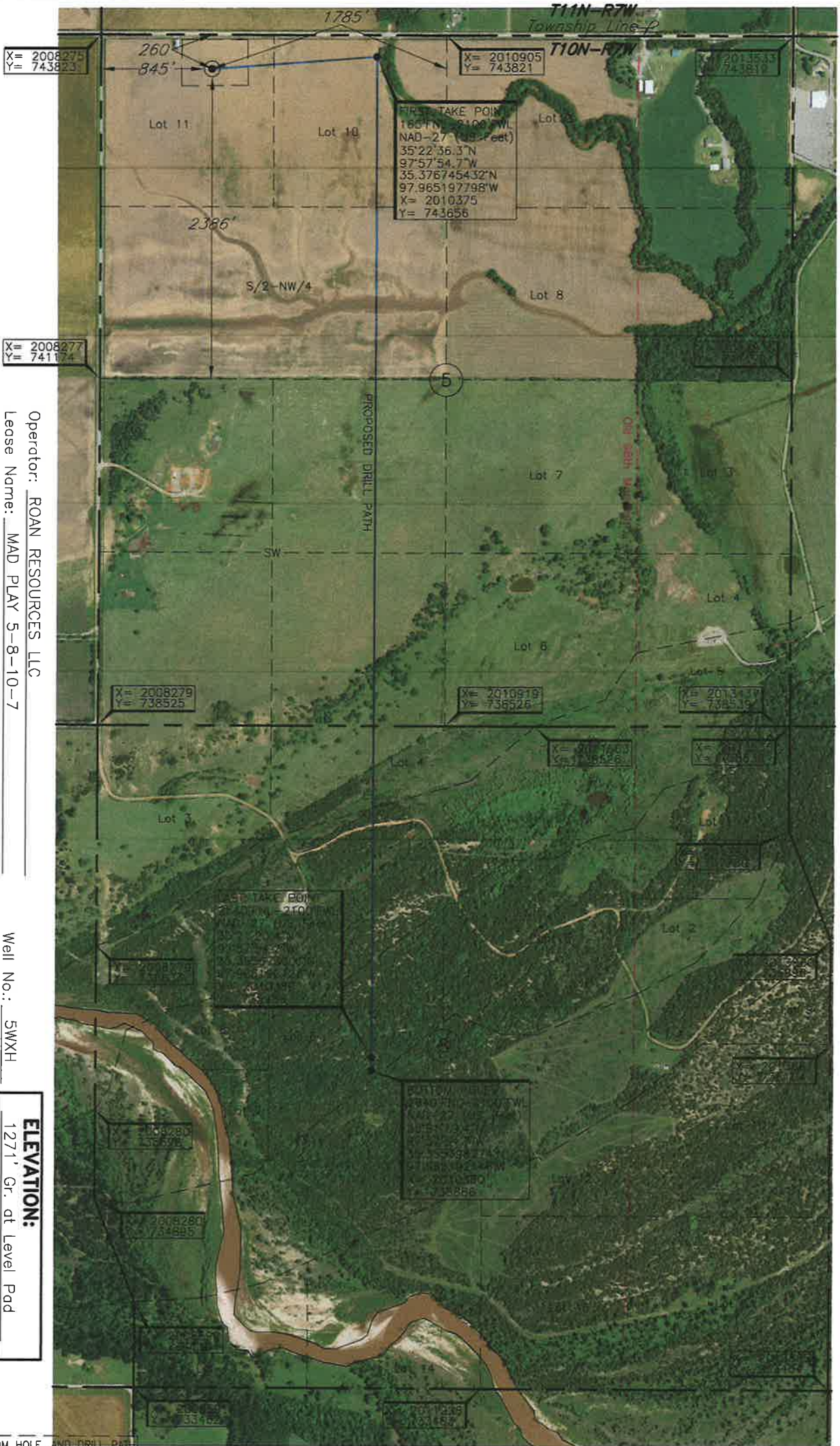
CANADIAN

County, Oklahoma

260'FNL-845'FWL Section 5 Township 10N Range 7W I.M.



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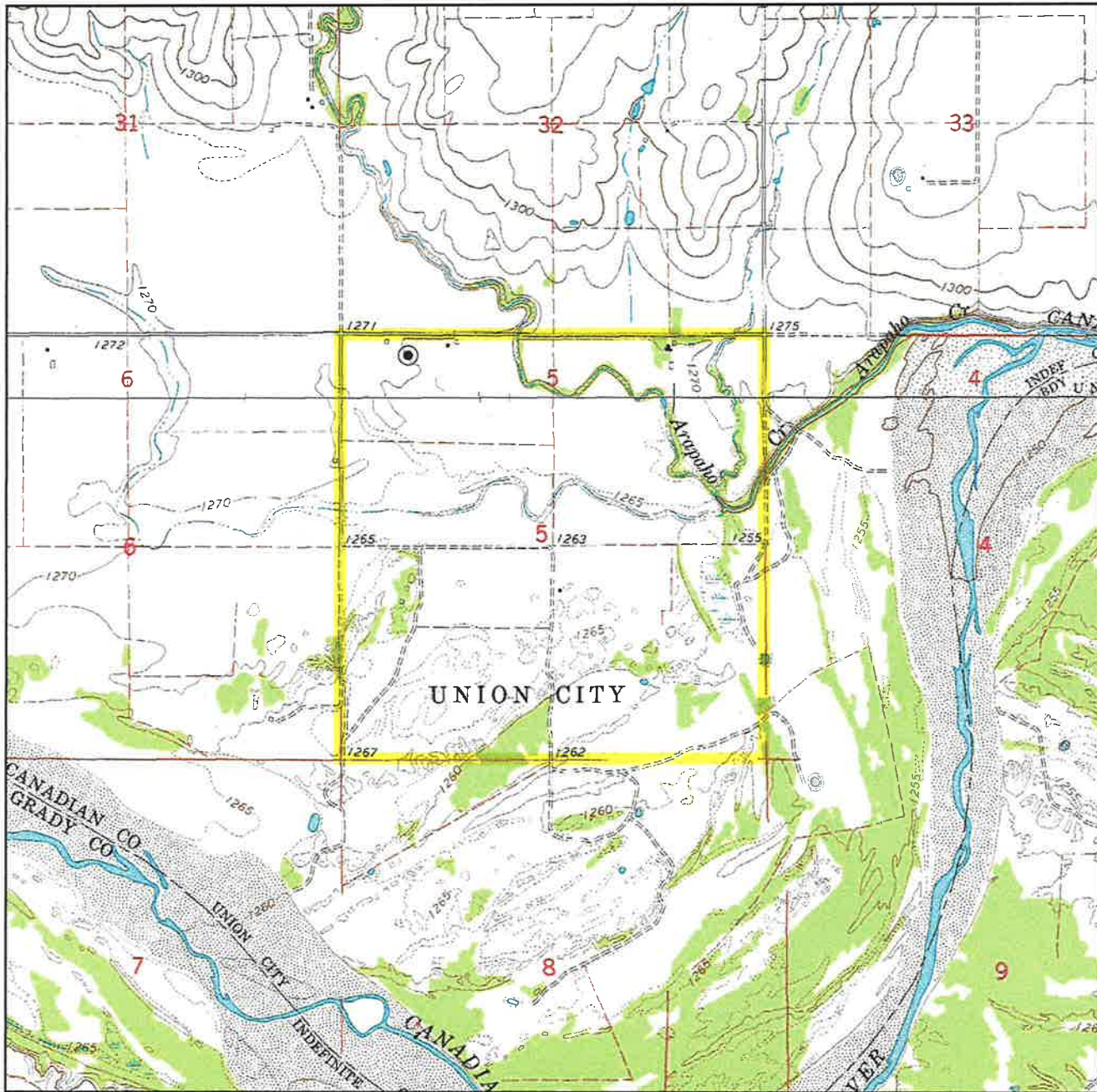
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 5 Twp. 10N Rng. 7W IM

County CANADIAN State OK

Operator ROAN RESOURCES LLC

Description 260'FNL-845'FWL

Lease MAD PLAY 5-8-10-7 5WXH

Elevation 1271' Gr. at Level Pad

Above Background Data from
U.S.G.S. Topographic Map
Scale: 1"=2000'

Contour Interval 10'

When elevation is shown hereon it is the ground
elevation of the location stake.
Review this plat and inform us immediately of
any possible discrepancy.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

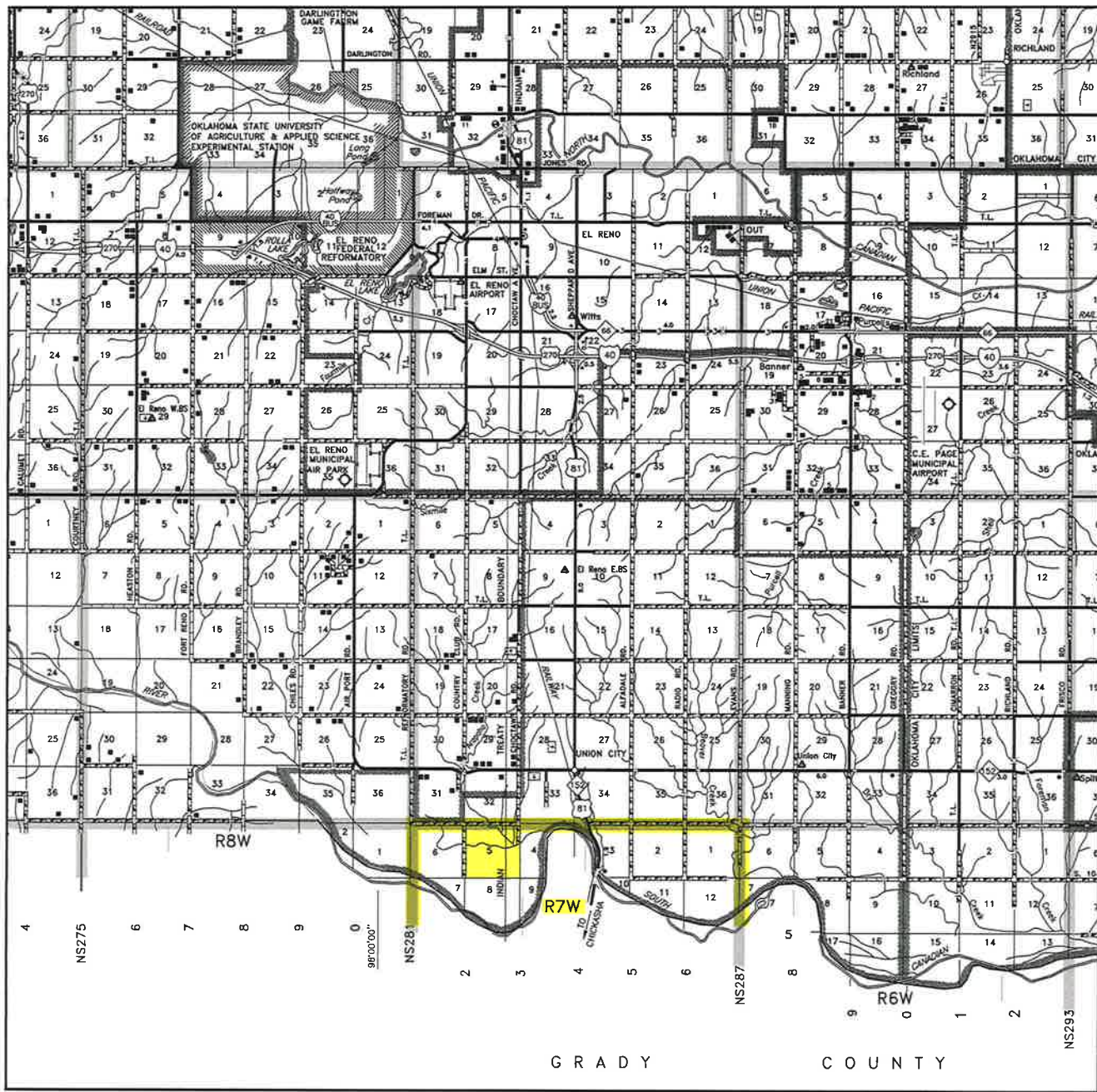
LAND SURVEYORS OF OKLAHOMA

Oct. 3, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 5 Twp. 10N Rng. 7W IM

County CANADIAN State OK

Operator ROAN RESOURCES LLC

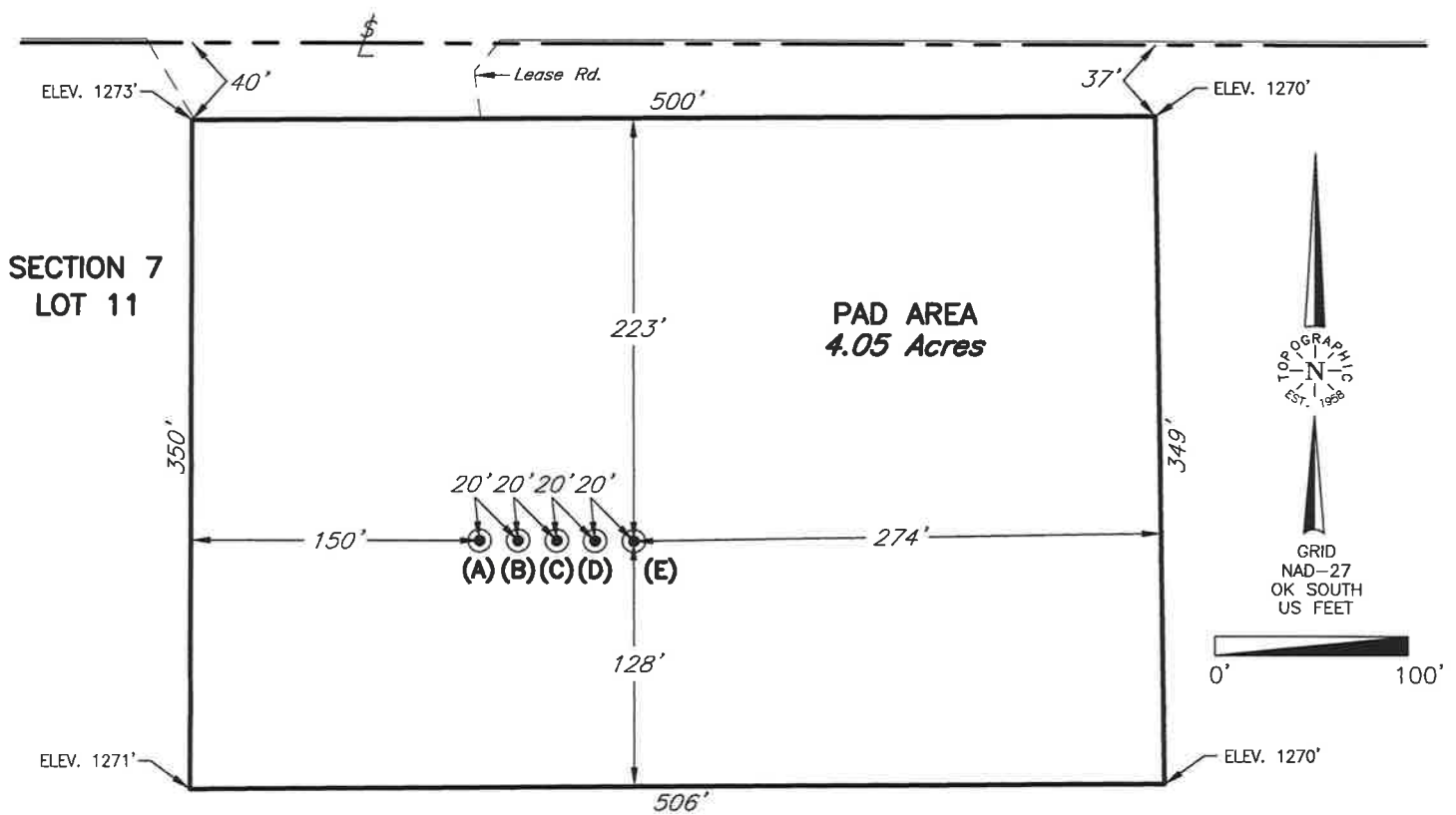
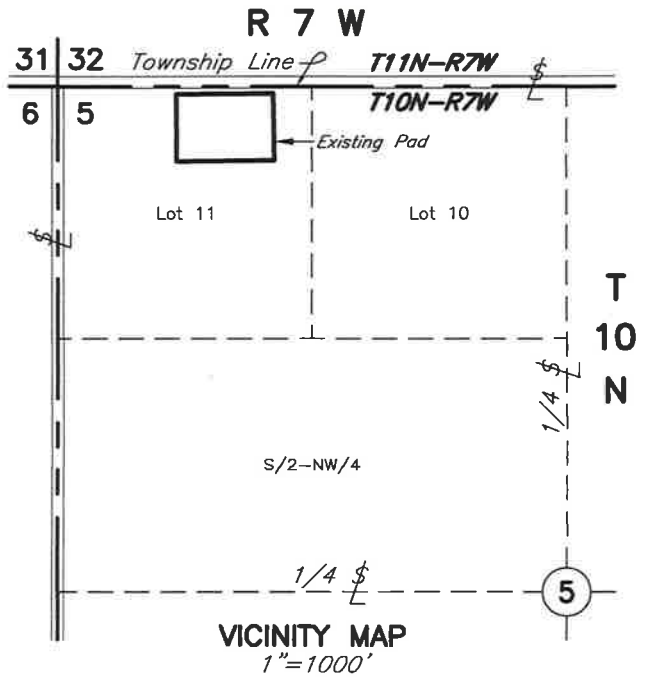


TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

T 10 N - R 7 W
(INDIAN MERIDIAN)

PLAT SHOWING
EXISTING PAD AREA IN THE
NW/4 OF SECTION 5, T10N - R7W
CANADIAN COUNTY, OKLAHOMA



(A) ROAN RESOURCES, LLC.
Mad Play 5-8-10-7 1WXH
260'FNL-765'FWL
Elev.: 1271' Gr.

(B) ROAN RESOURCES, LLC.
Mad Play 5-8-10-7 2MXH
260'FNL-785'FWL
Elev.: 1271' Gr.

(C) ROAN RESOURCES, LLC.
Mad Play 5-8-10-7 3WXH
260'FNL-805'FWL
Elev.: 1271' Gr.

(D) ROAN RESOURCES, LLC.
Mad Play 5-8-10-7 4MXH
260'FNL-825'FWL
Elev.: 1271' Gr.

(E) ROAN RESOURCES, LLC.
Mad Play 5-8-10-7 5WXH
260'FNL-845'FWL
Elev.: 1271' Gr.

NOTE:

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| | | | | | | | |
|------------------------|----------|------|----|---|--|--------------------------|--|
| | | | | This plat was prepared exclusively for | | SCALE: 1" = 100' | |
| | | | | ROAN RESOURCES, LLC. | | DATE: 10/05/18 | |
| NO. | REVISION | DATE | BY | and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma. | | FILE: L2003B.DWG | |
| SURVEY BY: JF 10/03/18 | | | | SURVEYING AND MAPPING BY | | INVOICE: #303989 | |
| DRAWN BY: TAW | | | | TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA | | DWG NO.: 118105-L2-003-B | |
| APPROVED BY: TH | | | | 13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 | | SHEET 1 OF 1 | |
| | | | | Certificate of Authorization No. 1293 LS. | | | |