

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

API NUMBER: 017 25311

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: 260 825

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

Well No: 4MXH

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  
9305 REFORMATORY ST  
GRANTOR TRUST, 7/21/2015  
UNION CITY OK 73090

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	10944	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 107705  
98732

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807941  
201807942  
201807945  
201807946  
201807947

Special Orders:

Total Depth: 18864

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: 18-35585

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: E2 W2 E2 W2

Feet From: NORTH 1/4 Section Line: 2640

Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 10191

Radius of Turn: 575

Direction: 175

Total Length: 7770

Measured Total Depth: 18864

True Vertical Depth: 10944

End Point Location from Lease,  
Unit, or Property Line: 1800

Notes:

Category

Description

DEEP SURFACE CASING

10/25/2018 - GA8 - 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

10/25/2018 - 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)

MEMO

10/25/2018 - GA8 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201807941

10/29/2018 - G58 - (I.O.) 5 & 8-10N-7W  
EST MULTIUNIT HORIZONTAL WELL  
X107705 MSSLM 5-10N-7W  
X98732 MSSLM 8-10N-7W  
66% 5-10N-7W  
34% 8-10N-7W  
NO OP. NAMED  
REC 10/16/2018 (DUNN)

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 25311 MAD PLAY 5-8-10-7 4MXH

Category	Description
PENDING CD - 201807942	10/29/2018 - G58 - (I.O.) 5 & 8-10N-7W X107705 MSSLM 5-10N-7W X98732 MSSLM 8-10N-7W COMPL. INT. 5-10N-7W NCT 0' FSL, NCT 150' FNL, NCT 825' FWL COMPL. INT. 8-10N-7W NCT 0' FNL, NCT 1320' FSL, NCT 825' FWL NO OP. NAMED REC 10/16/2018 (DUNN)
PENDING CD - 201807945	10/29/2018 - G58 - 5-10N-7W X107705 MSSLM 2 WELLS NO OP. NAMED REC 10/16/2018 (DUNN)
PENDING CD - 201807946	10/29/2018 - G58 - 8-10N-7W X98732 MSSLM 2 WELLS NO OP. NAMED REC 10/16/2018 (DUNN)
PENDING CD - 201807947	11/2/2018 - G58 - (E.O.) 5 & 8-10N-7W X165:10-3-28(C)(2)(B) MSSLM (MAD PLAY 5-8-10-7 4MXH) MAY BE CLOSER THAN 600' TO THE MASON B1 WELL REC 10/16/2018 (DUNN)
SPACING - 107705	10/29/2018 - G58 - (640) 5 & 8-10N-7W CONFIRMS SP ORDER 98732 EXT 98732 MSSLM, OTHERS
SPACING - 98732	10/29/2018 - G58 - (640) 8-10N-7W EST MSSLM, OTHERS

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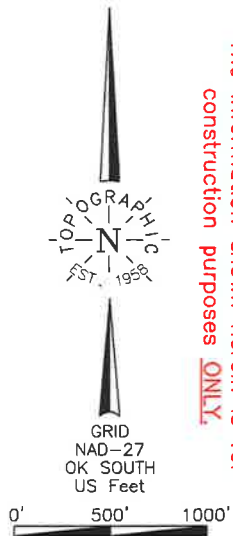
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

CANADIAN

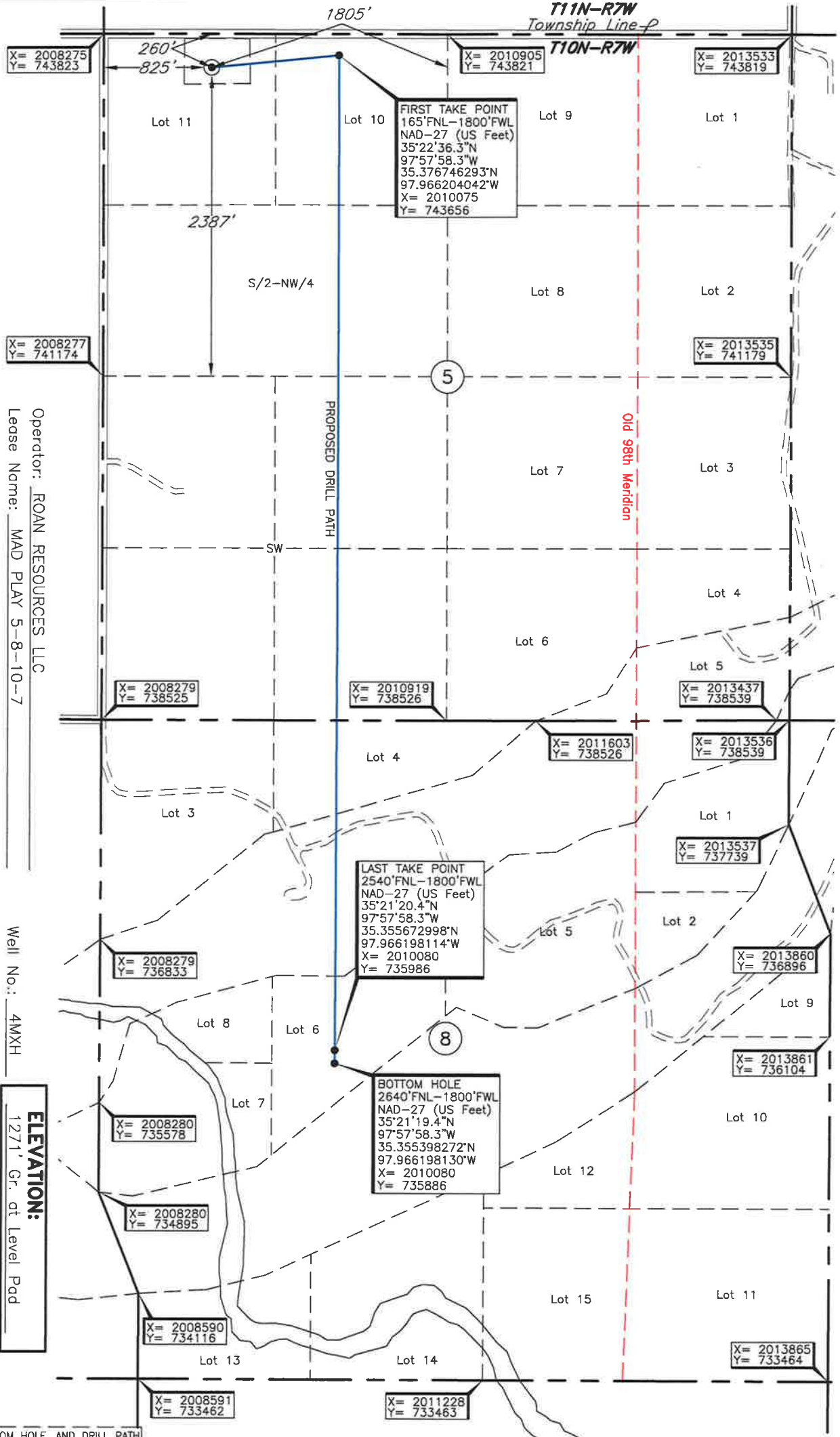
County, Oklahoma

017-25311

260'FNL-825'FWL Section 5 Township 10N Range 7W I.M.



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



Operator: ROAN RESOURCES LLC  
Lease Name: MAD PLAY 5-8-10-7  
Topography & Vegetation: Conductor on level pod.  
Good Drill Site? Yes  
Reference Stakes or Alternate Location: Stakes Set  
None

Well No.: 4MXH  
**ELEVATION:**  
1271' Gr. at Level Pod

Best Accessibility to Location: From North off county road.  
Distance & Direction: From US Hwy. 81 at Union City, OK, go ±1 mile West, then ±1 mile South, then ±1 mile West, to the NW Cor. of Sec. 5-T10N-R7W.

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 # 303989C 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°58'10.1"W  
LAT: 35.376487182°N  
LONG: 97.969473837°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2009101  
Y: 743562

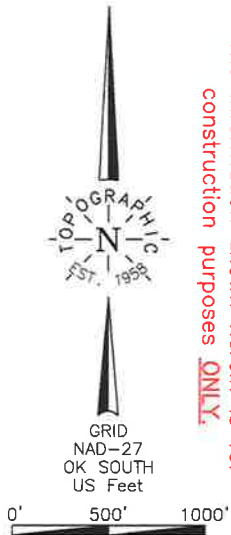
This information was gathered with a GPS receiver with 1 ft horizontal accuracy and 1 ft vertical accuracy.



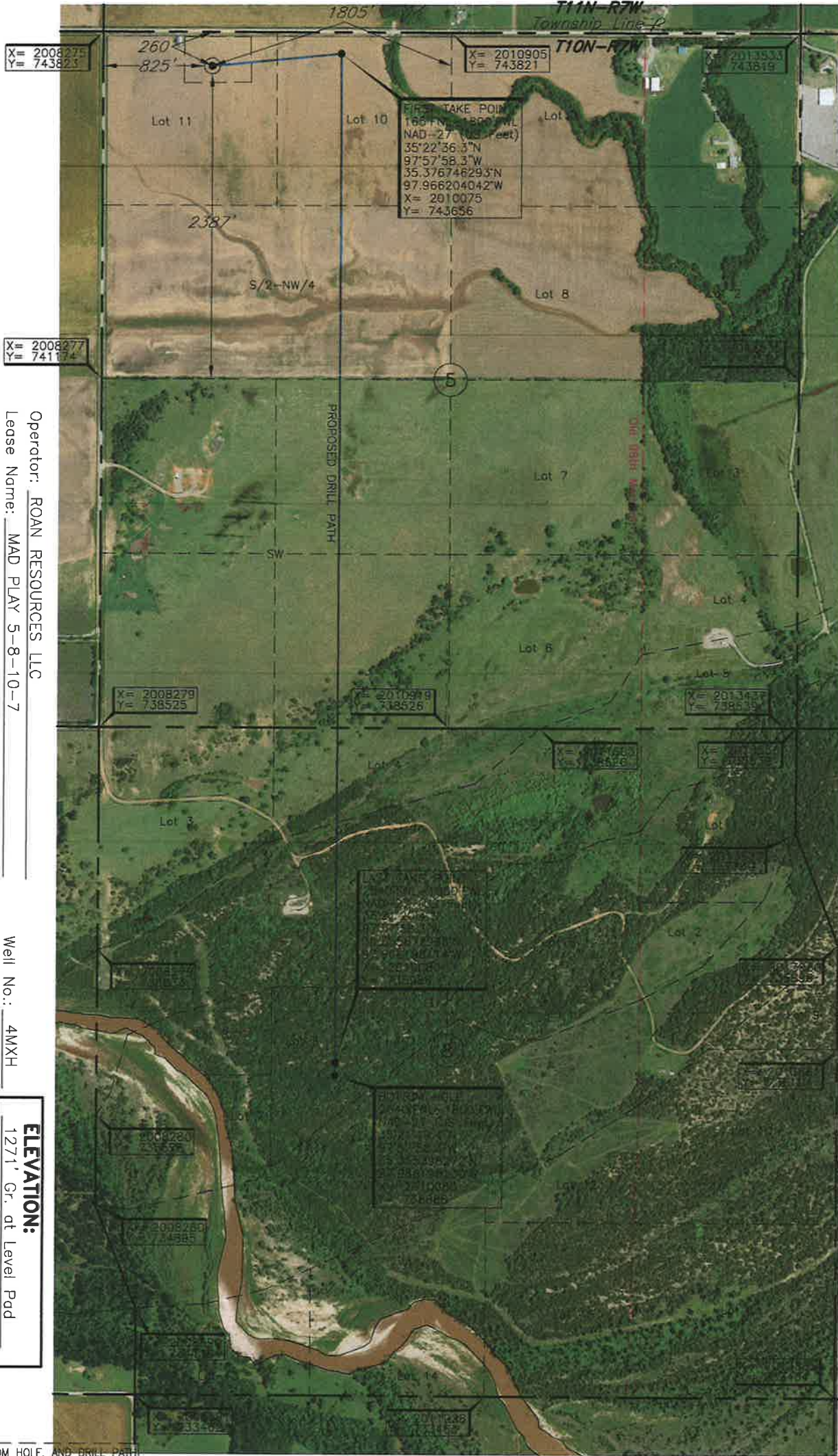
CANADIAN

County, Oklahoma

260'FNL-825'FWL Section 5 Township 10N Range 7W I.M.



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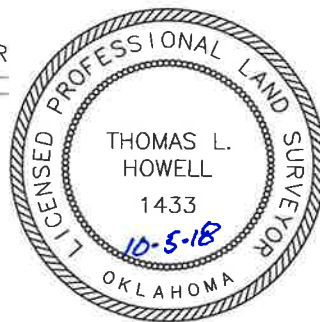
DATUM: NAD-27  
LAT: 35°22'35.4\"/>

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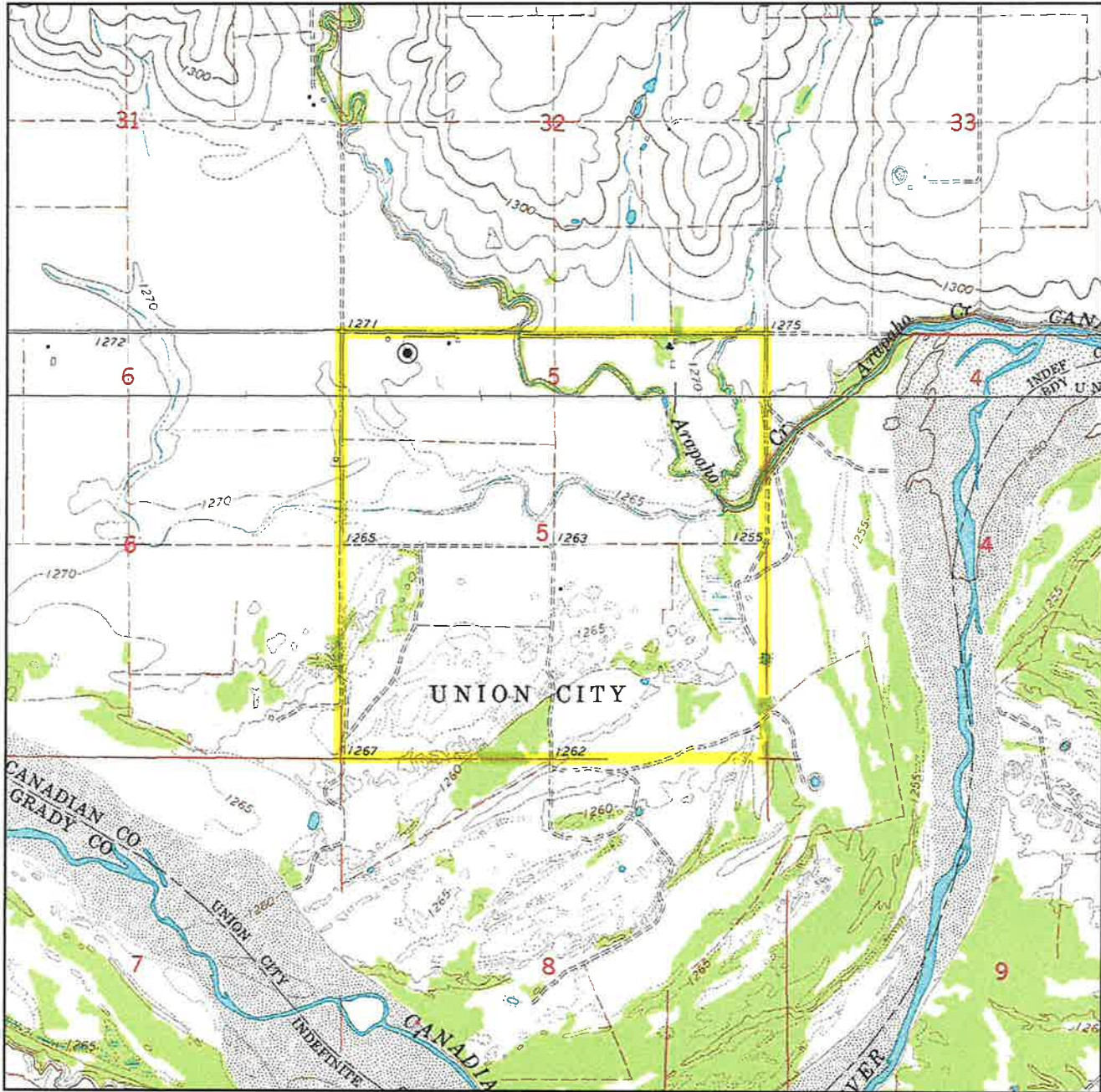




# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
13800 Wireless Way, Oklahoma City, OK 73134 [www.topographic.com](http://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-825'FWL

Lease MAD PLAY 5-8-10-7 4MXH

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



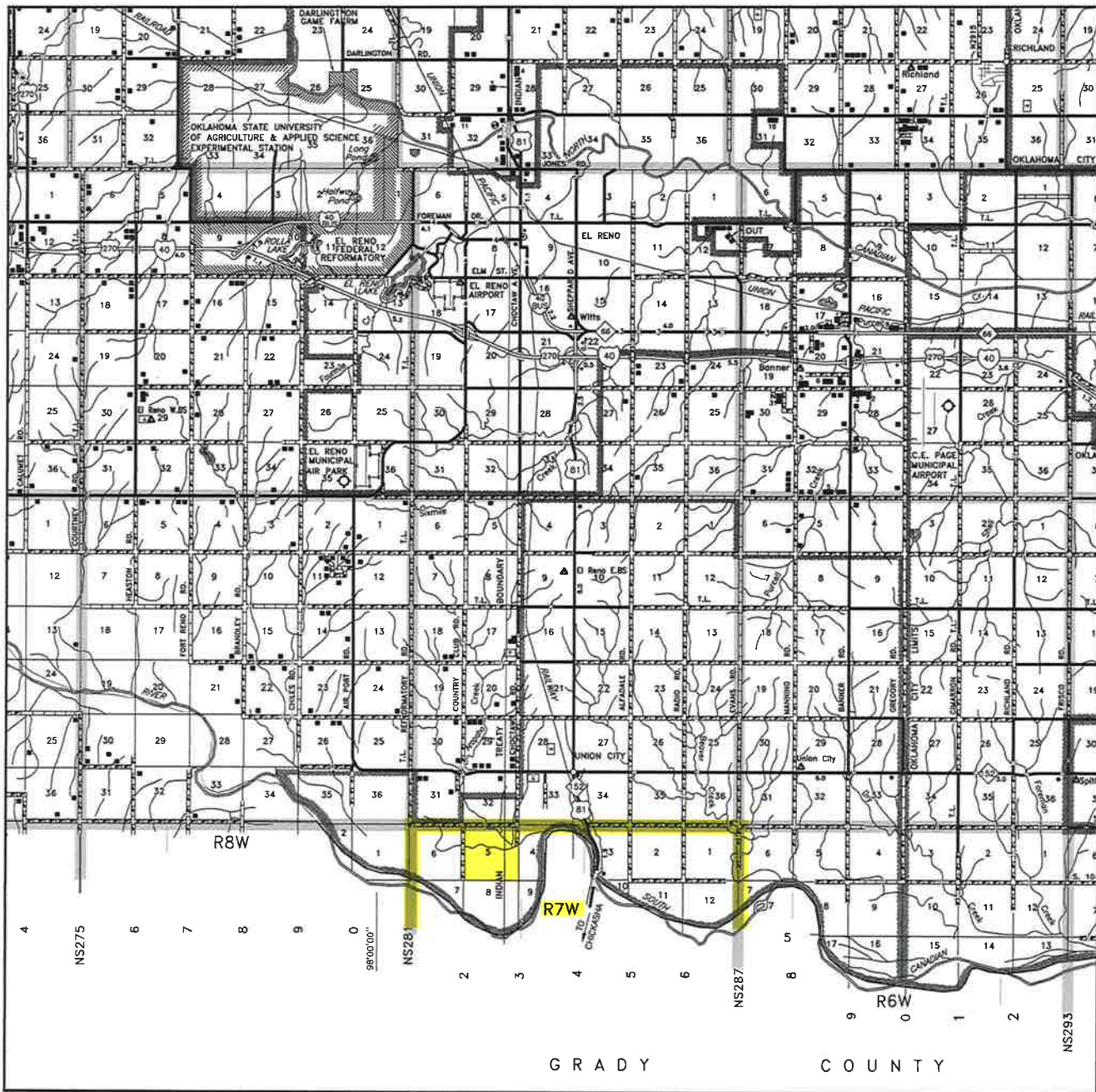
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## VICINITY MAP



Scale: 1" = 3 Miles

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

County CANADIAN State OK

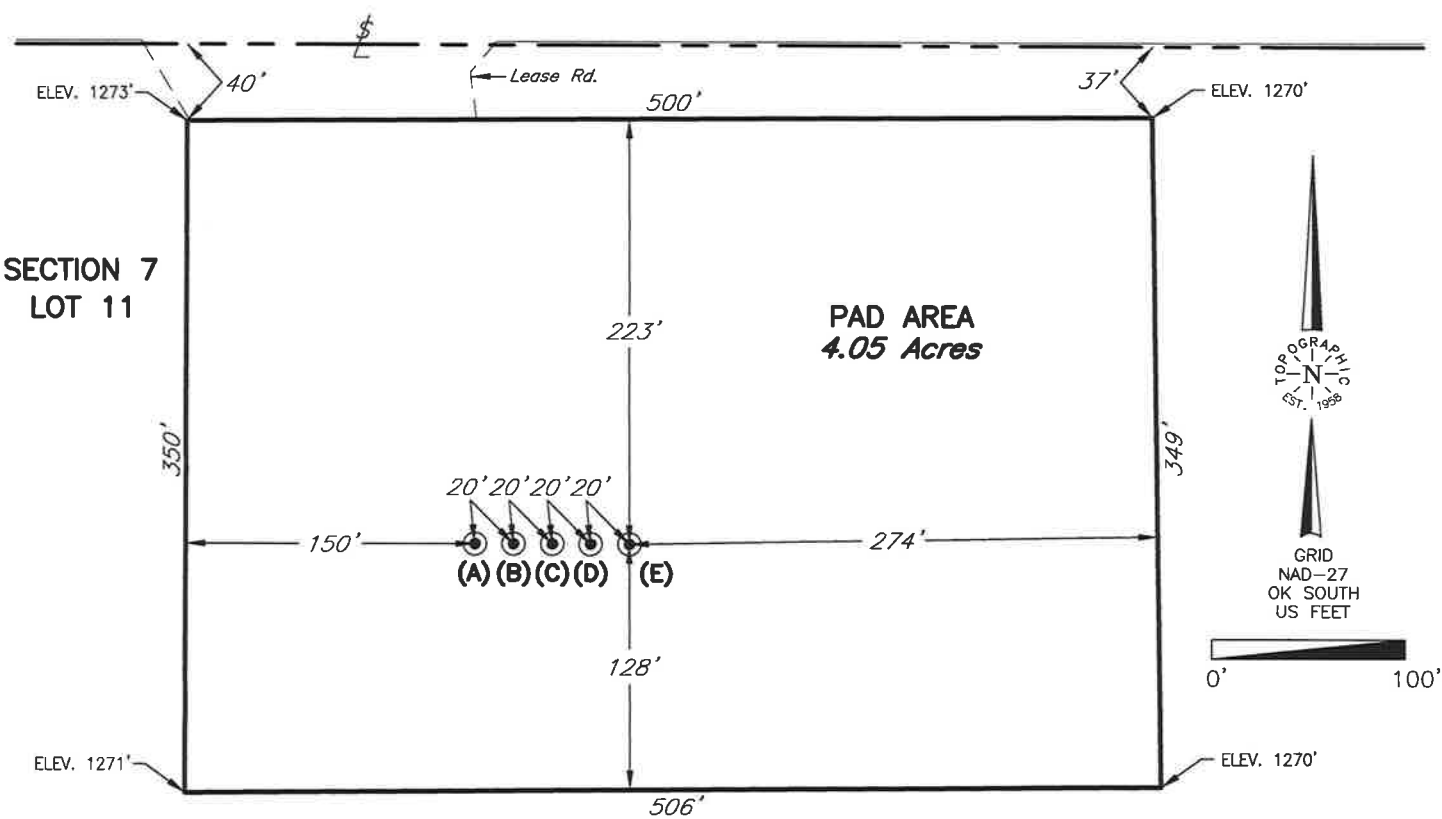
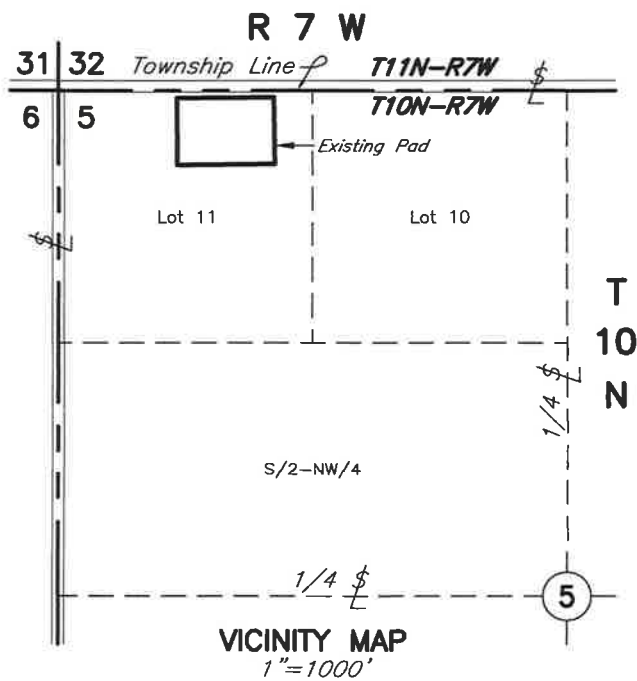
Operator ROAN RESOURCES LLC



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.			