API NUMBER: 017 25308

Horizontal Hole Oil & Gas

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

Approval Date: 11/02/2018
Expiration Date: 05/02/2020

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 10N Rge: 5W County: CANADIAN

SPOT LOCATION: NW NE NW NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **260** **765**

Lease Name: MAD PLAY 5-8-10-7 **Well No: 1WXH** **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 7/21/2015
UNION CITY OK 73090

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

	Name	Depth		Name	Depth
1	WOODFORD	11180	6		
2			7		
3			8		
4			9		
5			10		

Spacing Orders: 673284 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201807930
201807934

Special Orders:

Total Depth: 19100 Ground Elevation: 1255 **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: 18-35582
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 W2 W2 W2

Feet From: NORTH 1/4 Section Line: 2640

Feet From: WEST 1/4 Section Line: 300

Depth of Deviation: 10425

Radius of Turn: 575

Direction: 185

Total Length: 7772

Measured Total Depth: 19100

True Vertical Depth: 11180

End Point Location from Lease,
Unit, or Property Line: 300

Notes:

Category	Description
DEEP SURFACE CASING	10/26/2018 - 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	10/26/2018 - 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 - 201807930	10/26/2018 - 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)

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
PENDING CD - 201807934	10/26/2018 - 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 250' FWL COMPL. INT. 8-10N-7W NCT 0' FNL, NCT 1320' FSL, NCT 250' FWL NO OP. NAMED REC 10/16/2018 (DUNN)
SPACING - 673284	10/26/2018 - G58 - (640)(HOR) 5 & 8-10N-7W EST WDFD POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL

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.

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

017-25308

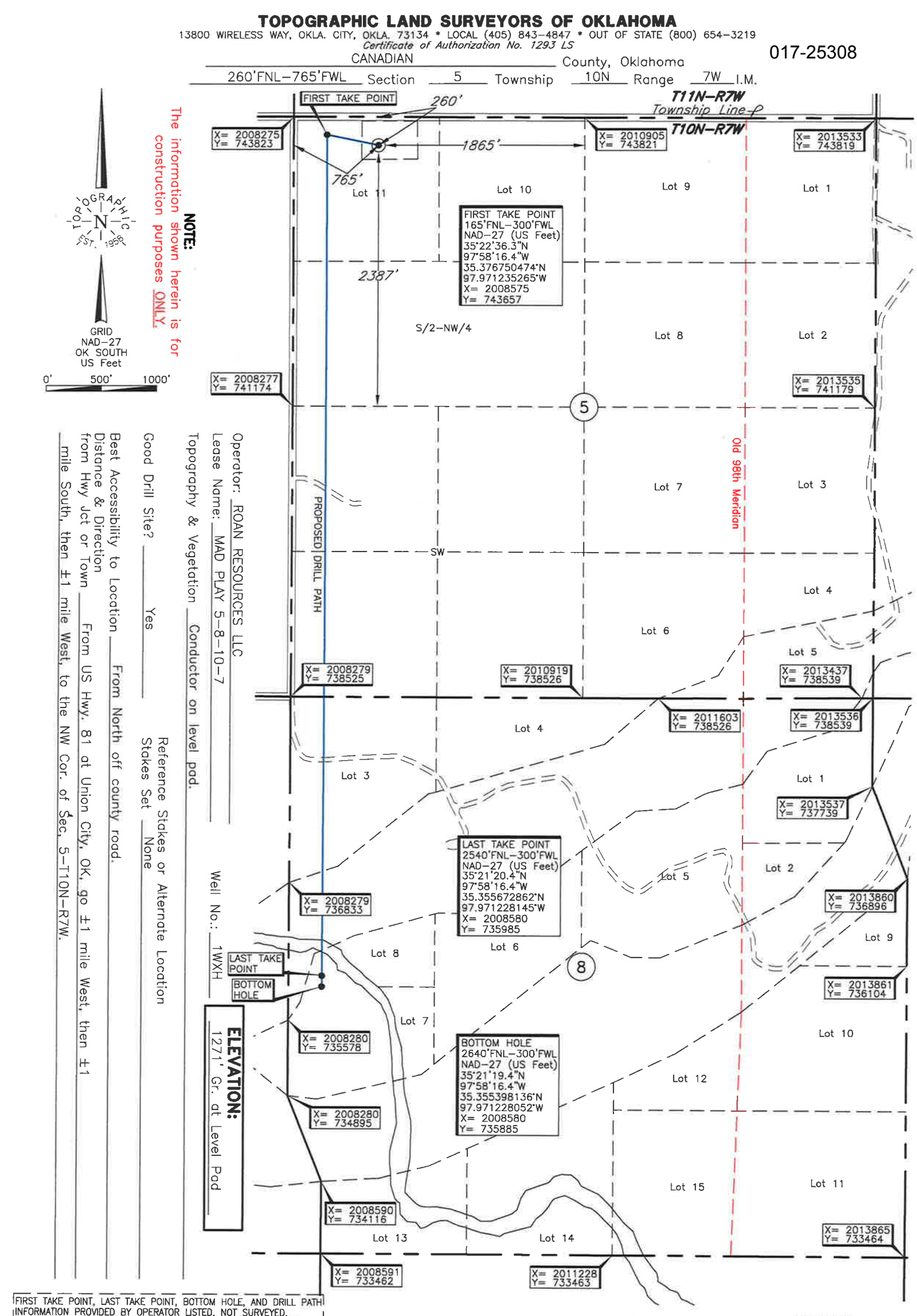
CANADIAN County, Oklahoma

260'FNL-765'FWL Section 5 Township 10N Range 7W I.M.

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

GRID NAD-27 OK SOUTH US Feet

0' 500' 1000'



Operator: ROAN RESOURCES LLC

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

Well No.: 1WXH

Topography & Vegetation Conductor on level pad.

Good Drill Site? Yes

Best Accessibility to Location From North off county road.

Distance & Direction from Hwy Jct or Town 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.

Reference Stakes or Alternate Location

Stakes Set None

ELEVATION: 1271' Gr. at Level Pad

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

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

DATUM: NAD-27
LAT: 35°22'35.4"N
LONG: 97°58'10.8"W
LAT: 35.376487650°N
LONG: 97.969674981°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2009041
Y: 743562

Invoice # 303989

Date of Drawing: Oct. 4, 2018
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

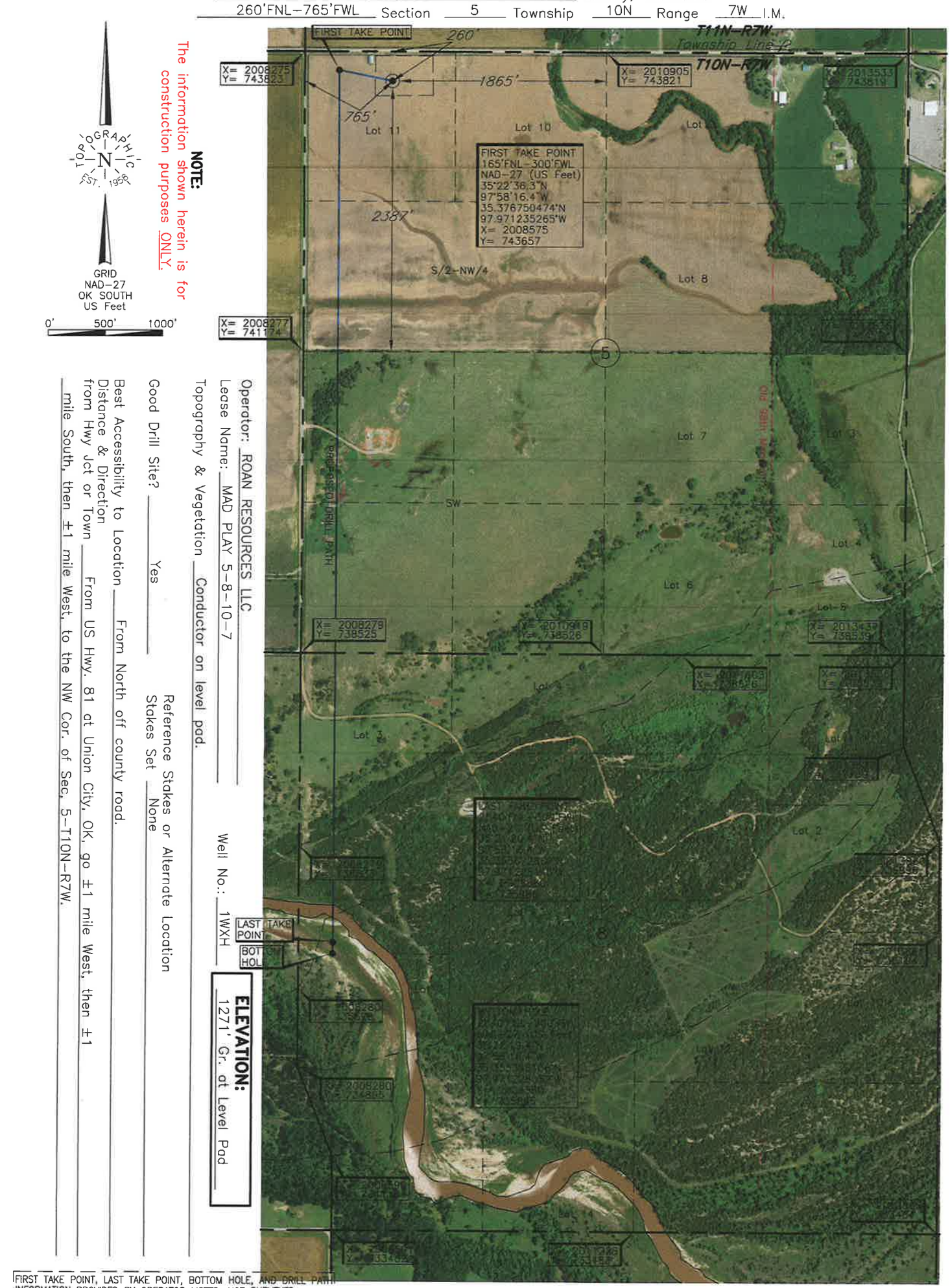
LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
10-5-18
OKLAHOMA

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-765'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 Well No.: 1WXH

Topography & Vegetation Conductor on level pad.

Good Drill Site? Yes Stakes Set None Reference Stakes or Alternate Location

Best Accessibility to Location From North off county road.

Distance & Direction from Hwy Jct or Town 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.

ELEVATION: 1271' Gr. at Level Pad

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

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

DATUM: NAD-27
LAT: 35°22'35.4"N
LONG: 97°58'10.8"W
LAT: 35.376487650°N
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STATE PLANE COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2009041
Y: 743562

Invoice # 303989 Date of Drawing: Oct. 4, 2018
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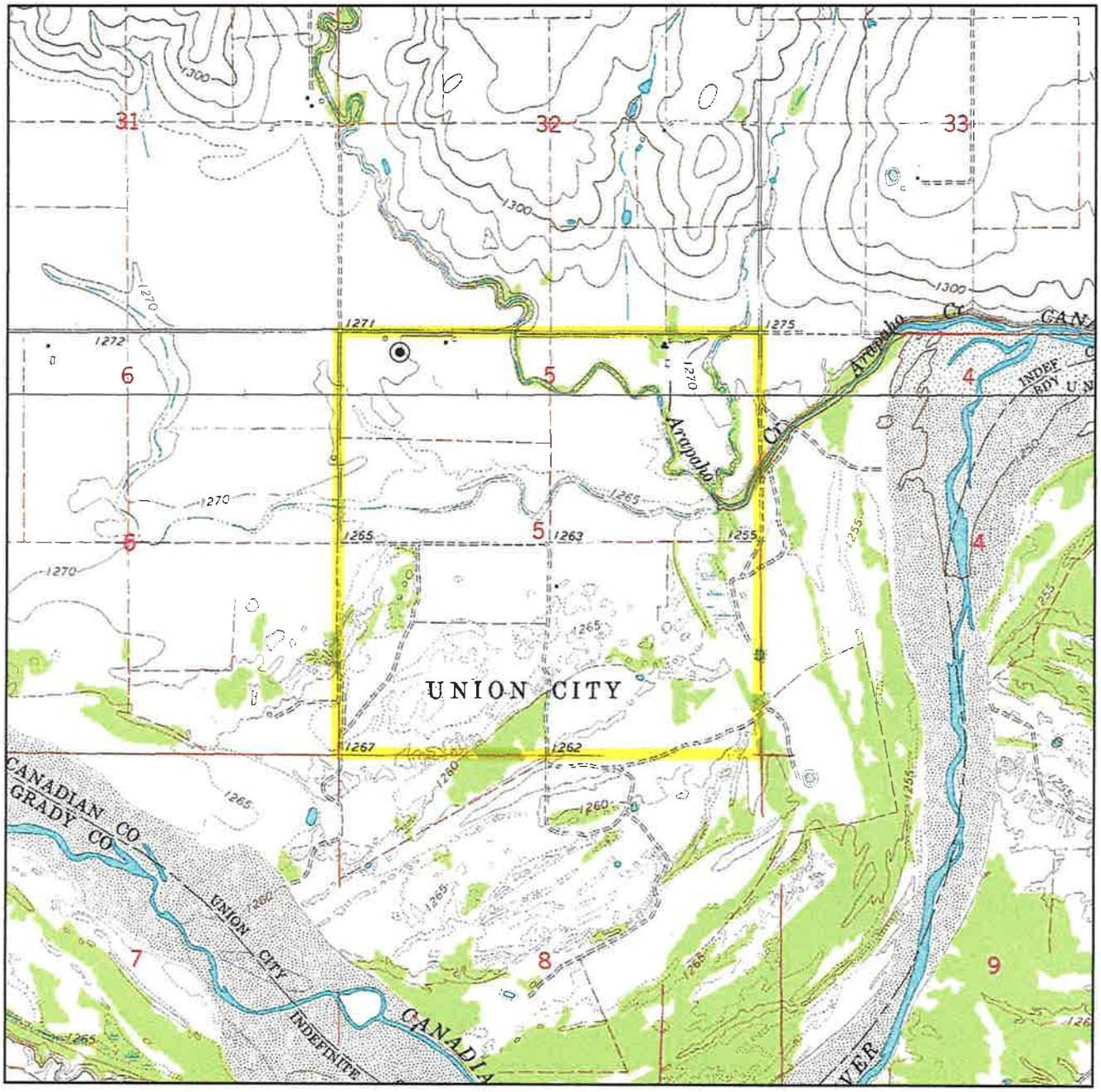
Thomas L. Howell

Oklahoma Lic. No. 1433

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
10-5-18
OKLAHOMA

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-765'FWL

Lease MAD PLAY 5-8-10-7 1WXH

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.

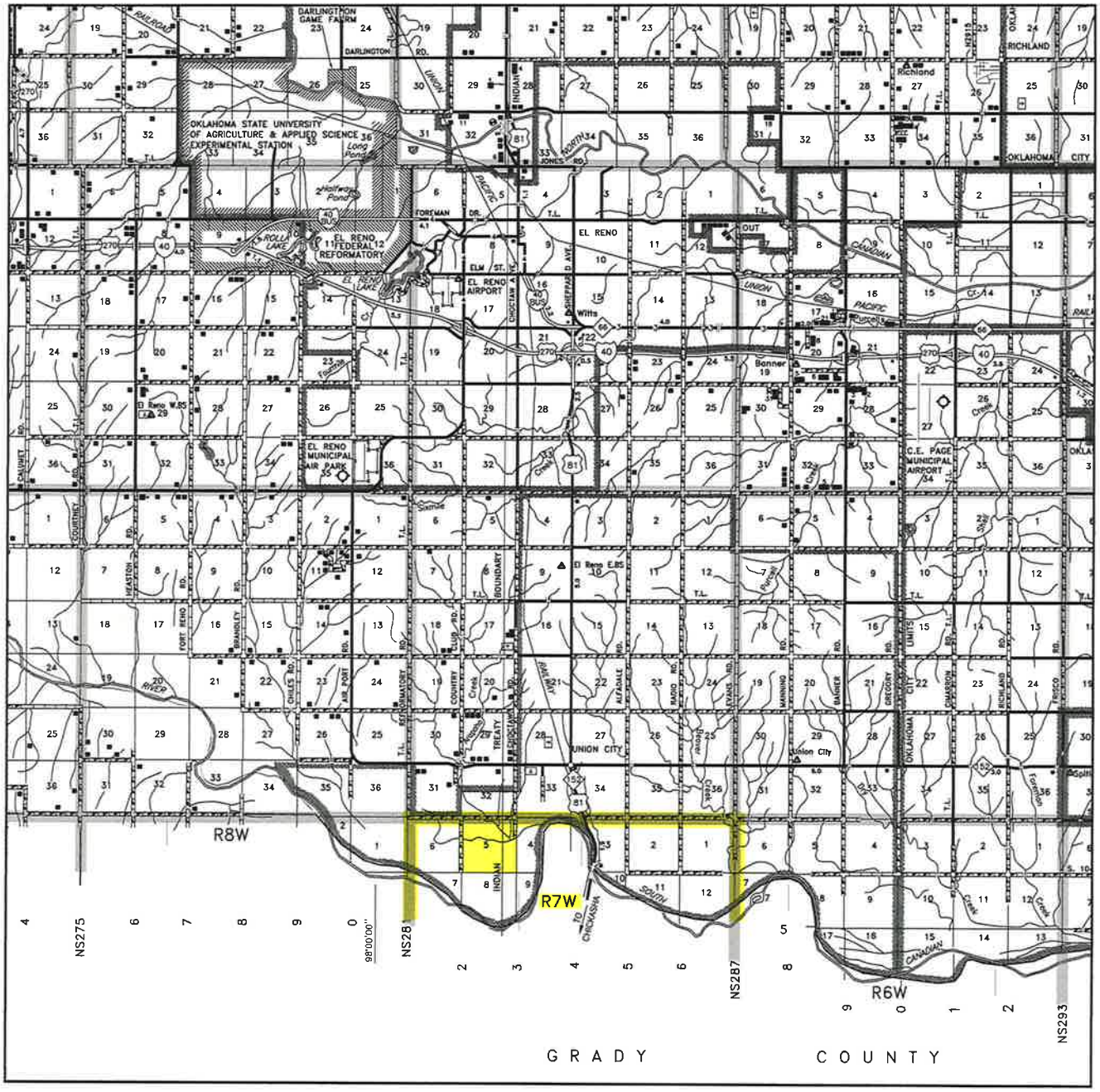
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
LAND SURVEYORS OF OKLAHOMA

Oct. 3, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

VICINITY MAP



Scale: 1" = 3 Miles

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

County CANADIAN State OK

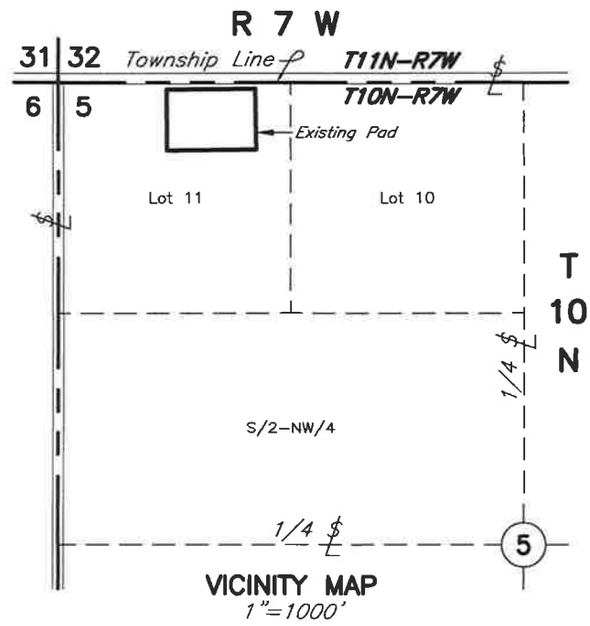
Operator ROAN RESOURCES LLC

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
LAND SURVEYORS OF OKLAHOMA

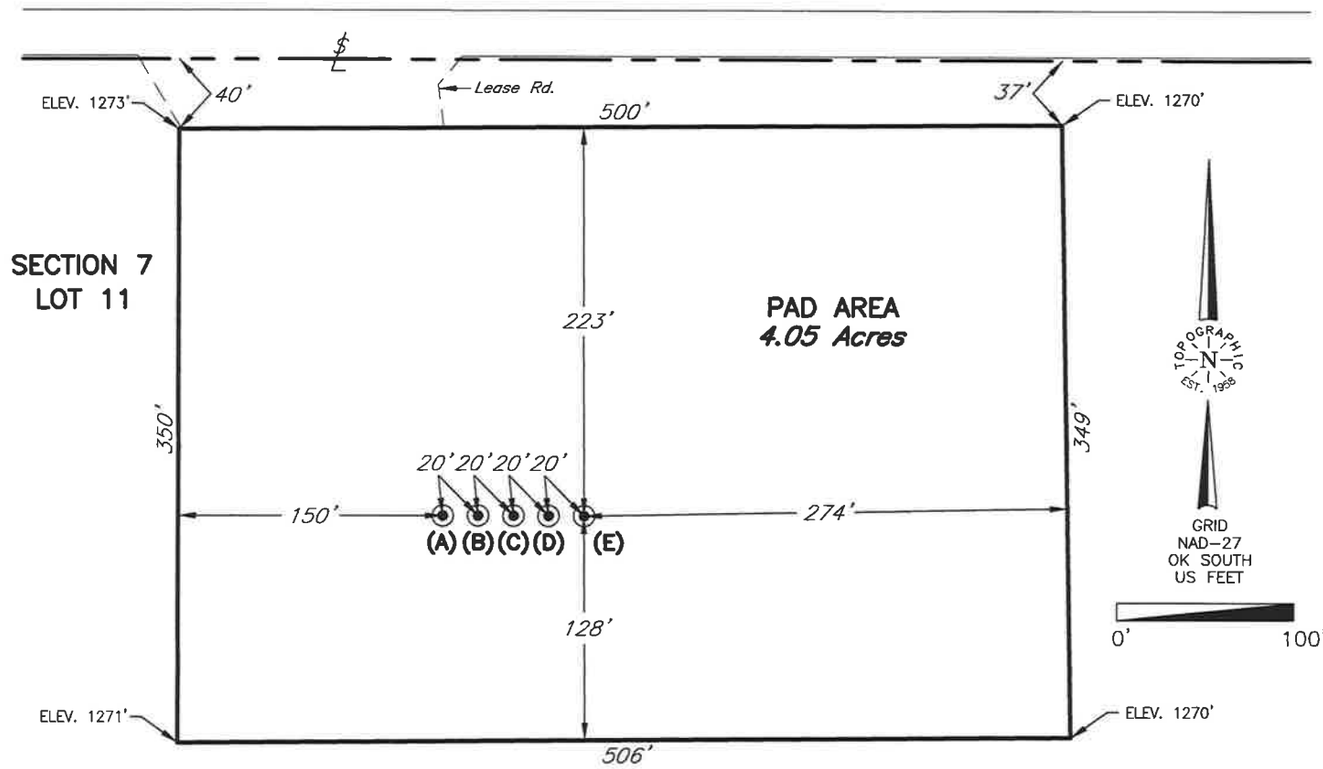
T 10 N – R 7 W
(INDIAN MERIDIAN)

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:

- The information shown herein is for construction purposes ONLY.

NO.	REVISION	DATE	BY

SURVEY BY:	JF 10/03/18
DRAWN BY:	TAW
APPROVED BY:	TH

This plat was prepared exclusively for
ROAN RESOURCES, LLC.
and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.

SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
13800 Wireless Way, Okla. City, OK. 73134 (405) 843–4847
Certificate of Authorization No. 1293 LS.

SCALE:	1" = 100'
DATE:	10/05/18
FILE:	L2003B.DWG
INVOICE:	#303989
DWG NO.:	118105–L2–003–B
SHEET	1 OF 1