API NUMBER: 017 25312

Oil & Gas

Horizontal Hole

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:	7W	County:	CANADIAN

SPOT LOCATION: NW NE 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 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 Special Orders:

201807938 201807943 201807944

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

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

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35586

H. SEE MEMO

Approved Method for disposal of Drilling Fluids:

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:

MEMO

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

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. 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 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 HÒRIZONTAL WELL

X673284 WDFD 5 & 8-10N-7W

XOTHERS 66% 5-10N-7W 34% 8-10N-7W NO OP. NAMED REC 10/16/2018 (DUNN)

11/0/0010 050 5 101/3/1/

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

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 __10N __ Range 017-25312 260'FNL-845'FWL <u>7W</u> I.M₃ Township _ Range Section T11N-R7W Township Line 260 T10N-R7W 2008275 743823 NOTE: information shown herein is construction purposes ONLY X= 2013533 Y= 743819 FIRST TAKE POINT 165'FNL-2100'FWL NAD-27 (US Feet) 35'22'36.3"N 97'57'54.7"W 35.376745432'N 97.965197798'W X= 2010375 Y= 743656 0 GR4 A/ 2 - N - C Lot 9 Lot 1 Lot 11 Lot 10 2386 œ. S/2-NW/4 GRID NAD-27 OK SOUTH US Feet Lot 8 Lot 2 ġ 500' 1000 X= 2008277 Y= 741174 X= 2013535 Y= 741179 5 Best A.
Distance &
From Hwy Jr PROPOSED Good Lease Name: opography & Vegetation 98th t Accessibility to L ance & Direction n Hwy Jct or Tow Drill 112 Lot 7 Site? then MAD RESOURCES lown PLAY Location Lot 4 mile 5-8-10-7 Yes From Conductor Lot 6 Lot 5 S X= 2008279 Y= 738525 X= 2010919 Y= 738526 X= 2013437 Y= 738539 ð Hwy. 9 X= 2013536 Y= 738539 level 00 Stakes Set <u>a</u>t pad Lot 3 Lot 1 Union X= 2013537 Y= 737739 Stakes or City, LAST TAKE POINT 2540'FNL-2100'FWL NAD-27 (US Feet) 35:21'20.4"N 97:57'54.7"W 35.355673001'N 97:965192126'W X= 2010380 Y= 735986 욧, 9 ₩e|| Alternate go 2008279 736833 No.: ±1 mile 5WXH Location Lot 6 8 West, BOTTOM HOLE 2640'FNL-2100'FWI NAD-27 (US Feet) 35'21'19.4"N 97'57'54.7"W 35.355398274'N then Lot 7 Lot 10 X= 2008280 Y= 735578 LEVATION + 97.965192146°W X= 2010380 Y= 735886 Lot 12 9 at X= 2008280 Y= 734895 Level Pad Lot 11 X= 2013865 Y= 733464 Lot 13 X= 2008591 Y= 733462 X= 2011228 Y= 733463 FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. Oct. Date of Drawing: . ESSIONAL Invoice # 303989D Date Staked: Oct. DATUM: NAD-27 LAT: 35°22'35.4"N was receiver accuracy. TR LONG: 97'58'09.9"W **CERTIFICATE:** LAT: <u>35.376486935</u>°N THOMAS L Thomas L. Howell an Oklahoma Licensed Land LONG: 97.969406143°W STATE PLANE COORDINATES: (US Feet Surveyor and an authorized agent of Topographic Land HOWELL Surveyors of Oklahoma, do hereby certify to the 1433 (US Feet) shown herein information This rered ±1 fo ZONE: _ OK SOUTH OKLAHOMA 2009121 home 743562 Oklahoma Lic. No.

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 County, Oklahoma

10N Range 260'FNL-845'FWL _ Range Township 7W Section .I.M. The 2604 X= 2008 Y= 7438 NOTE: information shown herein construction purposes ONLY Lot 11 <u>...</u> GRID NAD-27 OK SOUTH US Feet ð 500' 1000' X= 2008 Y= 7411 Distance & Direction from Hwy Jct or Town Good Best Accessibility to Operator: Topography & Vegetation Lease Name: Drill Site? South, then ROAN RESOURCES MAD PLAY 5-8-10-7 Location mile Yes From Conductor West, SN िं Hwy. the 9 level Z X $\overline{\infty}$ Stakes Set Reference Stakes Cor. of f at pad Union of. Sec. City, road. None 5-T10N-R7W 욧. 9 WeⅡ Alternate Location go ±1 No.: mile 5WXH West, ELEVATION: then 1 Pad FIRST TAKE POINT, LAST TAKE POINT, BOTTOM HOLE, AND DRI INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. 5, Date of Drawing: SSIONAL Invoice # 303989D Date Staked: Oct. TR

DATUM: NAD-27 LAT: 35°22'35.4"N was receiver accuracy. LONG: 97.58'09.9"W 35.376486935°N LONG: 97.969406143°W STATE PLANE COORDINATES: (US Feet) ZONE: OK SOUTH 2009121 743562

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

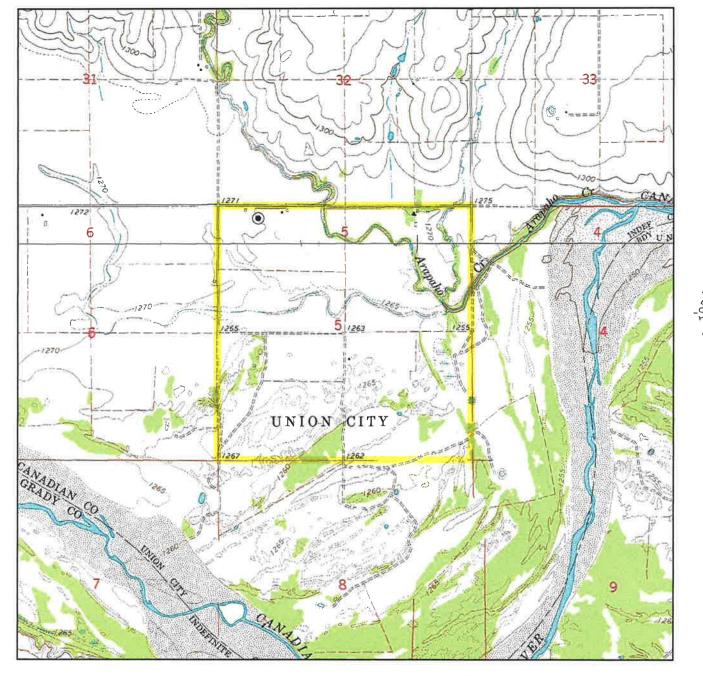
nome Oklahoma Lic. No. _

THOMAS L HOWELL 1433 OKLAHOM

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



Sec5	Twp10N Rng7W IN	1
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'

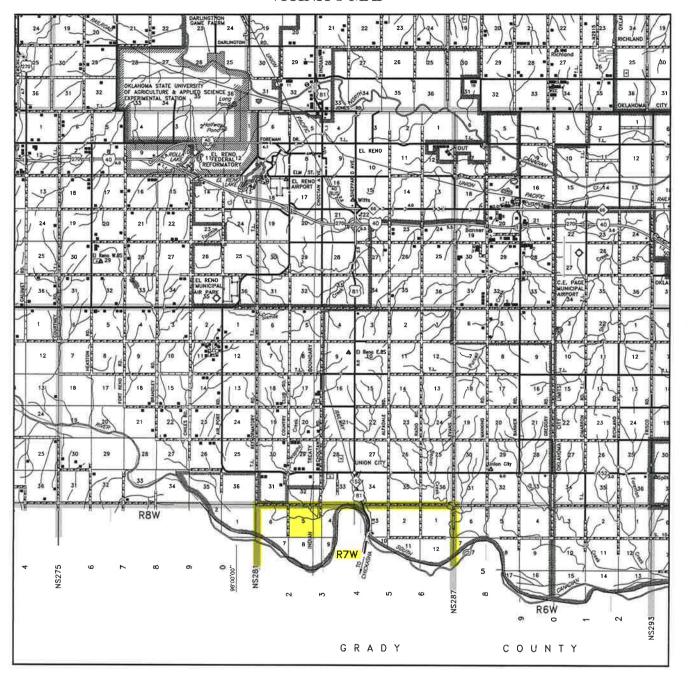
When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of any possible discrepancy.



TOPOGRAPHIC 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

90GR464 -2-N-5-

Sec5	Twp	10NRng.	7W	IM
County	CANADIAN	State	OK	
Operator	ROAN RES	OURCES LLC		

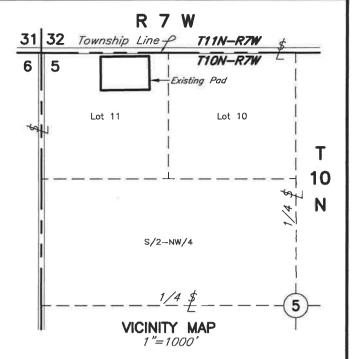


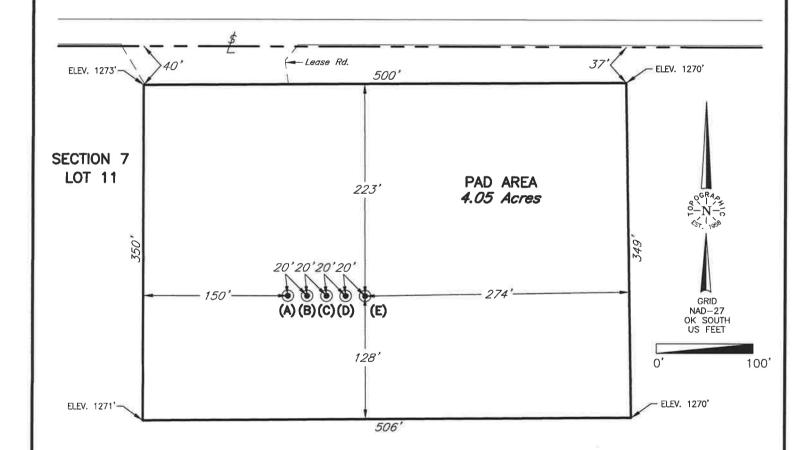
T 10 N - R 7 W (INDIAN MERIDIAN)

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 <u>ONLY</u>.

				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 Okkahoma.	FILE:	L2003B.DWG
SUF	SURVEY BY: JF 10/03/18		/18	SURVEYING AND MAPPING BY		#303989
DRAWN BY: TAW			TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 Wireless Way, Okla. City, OK. 73134 (405) 843–4847		:118105-L2-003-B	
APPROVED BY: TH			Certificate of Authorization No. 1293 LS.	SHEET	1 OF 1	