

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

API NUMBER: 093 25207

Approval Date: 03/06/2019

Expiration Date: 09/06/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 21N Rge: 15W

County: MAJOR

SPOT LOCATION: ☐ SE ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 610 885

Lease Name: ELAINE

Well No: 2-9H

Well will be 610 feet from nearest unit or lease boundary.

Operator Name: RIVIERA OPERATING LLC

Telephone: 2818404234; 4052412

OTC/OCC Number: 22182 0

RIVIERA OPERATING LLC
600 TRAVIS ST STE 1700
HOUSTON, TX 77002-3005

STANLEY & NORMA STRECKER
22120 ASH ROAD
MORRIS OK 74445

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8070	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807679
201808713
201808712

Special Orders:

Total Depth: 13850

Ground Elevation: 1612

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 540

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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

PERMIT NO: 18-36048

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: 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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

HORIZONTAL HOLE 1

Sec 09 Twp 21N Rge 15W County MAJOR

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1500

Depth of Deviation: 7629

Radius of Turn: 750

Direction: 350

Total Length: 5043

Measured Total Depth: 13850

True Vertical Depth: 8435

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

1/2/2019 - G71 - 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

1/2/2019 - G71 - 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

1/2/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201807679

2/7/2019 - GA8 - (640)(HOR) 9-21N-15W
EST MSSP
POE TO BHL NCT 660' FB
(COEXIST SP. ORDER # 217552/283067 CSTR, MSSLM SW4 & ORDER # 289490 CSTR, MSSLM N2 & SE4)
REC 10/16/2018 (P.PORTER)

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.

093 25207 ELAINE 2-9H

Category	Description
PENDING CD - 201808712	2/7/2019 - GA8 - 9-21N-15W X201807679 MSSP 1 WELL NO OP. NAMED REC 11/20/2018 (DENTON)
PENDING CD - 201808713	2/7/2019 - GA8 - (I.O.) 9-21N-15N X201807679 MSSP X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO HOUK STRECKER 3-9; HOUK STRECKER 1-9; HOUK STRECKER 2-9; HOUK STRECKER 4-9 COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED REC 11/20/2018 (DENTON)

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

Map Details:

- Grid:** Section 9 and 16, with quarter sections NW, NE, SW, and SE.
- Proposed Drill Path:** A blue line starting from the 'BOTTOM HOLE' and passing through the 'LAST TAKE POINT' and 'FIRST TAKE POINT'.
- Distances along Path:** ±752', ±585', ±483', and ±468'.
- Existing Wells:** Indicated by dashed lines and labeled 'EXISTING WELL'.
- Rectangular Area:** A large area in the bottom right with dimensions 1724' by 885', and a distance of 610' from the drill path. A vertical distance of 2018' is also shown.
- Coordinates:**
 - Top Left: X= 1759151, Y= 481037
 - Top Center: X= 1761749, Y= 481031
 - Top Right: X= 1764346, Y= 481024
 - Middle Left: X= 1759120, Y= 478405
 - Middle Right: X= 1764327, Y= 478396
 - Bottom Left: X= 1759089, Y= 475773
 - Bottom Center: X= 1761698, Y= 475772
 - Bottom Right: X= 1764307, Y= 475768
 - Far Bottom Left: X= 1759079, Y= 473154
 - Far Bottom Center: X= 1761680, Y= 470517
 - Far Bottom Right: X= 1764299, Y= 473138
 - Far Bottom Far Right: X= 1764291, Y= 470509
- Take Point Data:**
 - Bottom Hole:** 50'FNL-1500'FEL, NAD-27 (US Feet), 36°19'07.1" N, 98°48'18.0" W, 36.318627938' N, 98.804988717' W, X= 1762846, Y= 480978
 - Last Take Point:** 165'FNL-1500'FEL, NAD-27 (US Feet), 36°19'05.9" N, 98°48'18.0" W, 36.318312026' N, 98.804988399' W, X= 1762845, Y= 480863
 - First Take Point:** 165'FSL-1500'FEL, NAD-27 (US Feet), 36°18'17.2" N, 98°48'17.9" W, 36.304774390' N, 98.804974381' W, X= 1762808, Y= 475935

Operator: RIVIERA OPERATING, LLC Well No.: 2-9H **ELEVATION:** 1612' Gr. at Stake

Lease Name: ELAINE

Topography & Vegetation LOC. FELL IN TERRACED PASTURE, ±253' NORTH OF E-W PIPELINE

Good Drill Site? YES Reference Stakes or Alternate Location
Stakes Set NONE

Best Accessibility to Location FROM NORTH OFF COUNTY ROAD

Distance & Direction
from Hwy Jct or Town FROM CHESTER, OK, GO EAST ON ST. HWY. 60 ±8 MILES, NORTH AT ORION ±7 MILES, WEST

1 MILE, SOUTH 1 MILE TO THE NE CORNER OF SECTION 16-T21N-15W

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

Date of Drawing: Dec. 7, 2018

Invoice # 306915 Date Staked: Nov. 27, 2018

SS

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 J. Nance
Oklahoma Lic. No. 1433



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

DATUM: NAD-27
LAT: 36°18'09.6" N
LONG: 98°48'10.4" W
LAT: 36.302656965° N
LONG: 98.802875859° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1763420
Y: 475159

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

MAJOR

County, Oklahoma

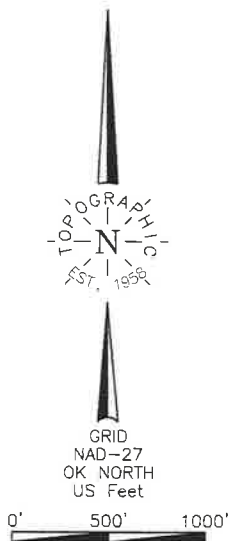
610'FNL-885'FEL

Section 16

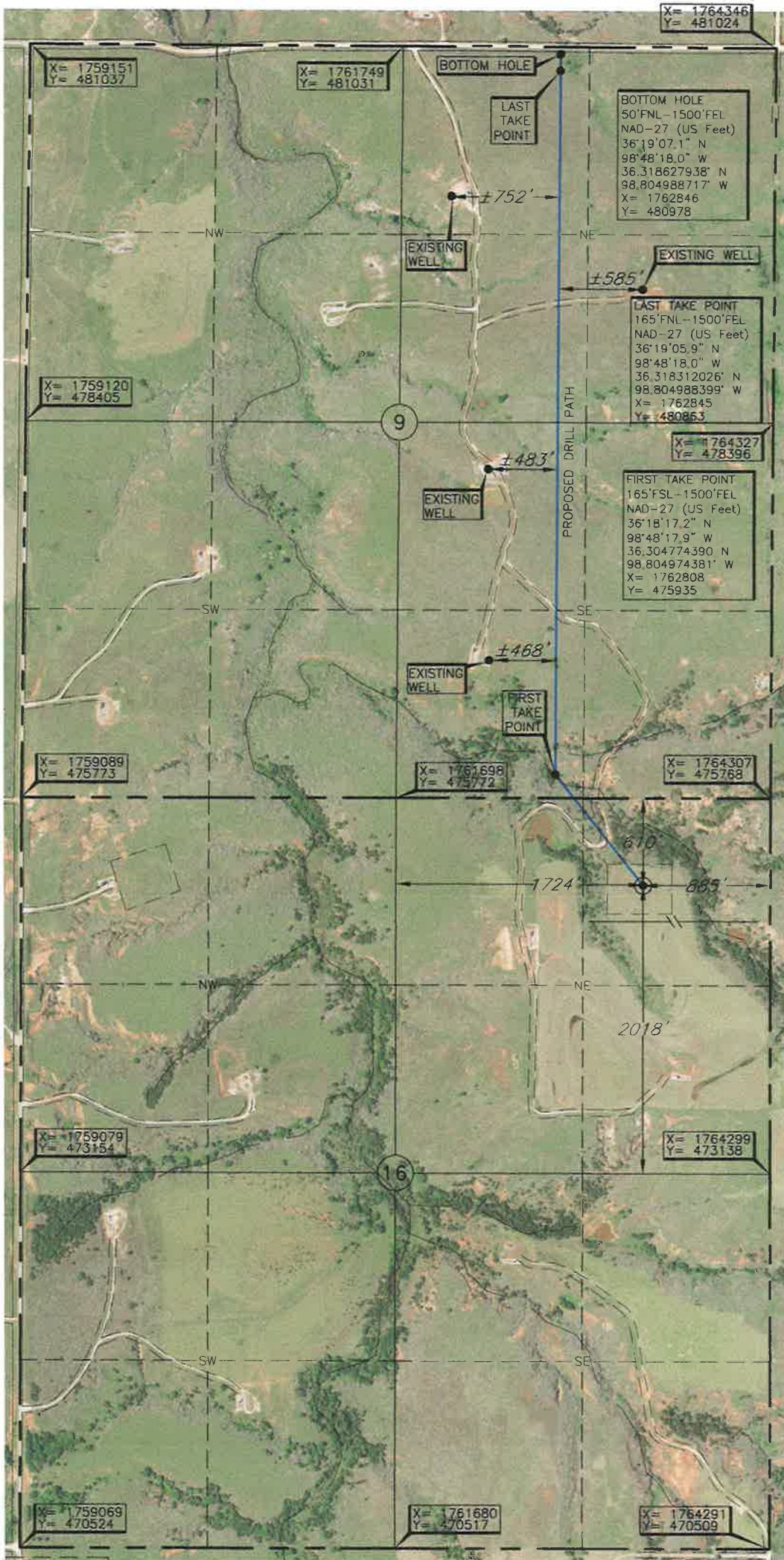
Township 21N

Range 15W

I.M.



THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY



Operator: RIVIERA OPERATING, LLC
Lease Name: ELAINE
Topography & Vegetation: LOC. FELL IN TERRACED PASTURE; ±253' NORTH OF E-W PIPELINE

Good Drill Site? YES
Reference Stakes or Alternate Location: NONE

Best Accessibility to Location: FROM NORTH OFF COUNTY ROAD

Distance & Direction from Hwy Jct or Town: FROM CHESTER, OK, GO EAST ON ST. HWY. 60 ±8 MILES, NORTH AT ORION ±7 MILES, WEST

1 MILE, SOUTH 1 MILE TO THE NE CORNER OF SECTION 16-T21N-15W

Well No.: 2-9H
ELEVATION: 1612' Gr. at Stake

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

Date of Drawing: Dec. 7, 2018

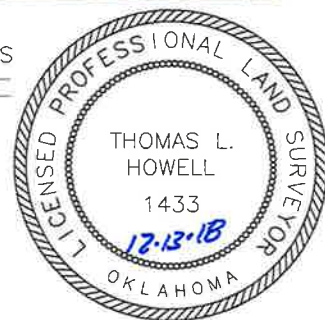
Invoice # 306915 Date Staked: Nov. 27, 2018

SS

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: 36°18'09.6" N
LONG: 98°48'10.4" W
LAT: 36.302656965° N
LONG: 98.802875859° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1763420
Y: 475159

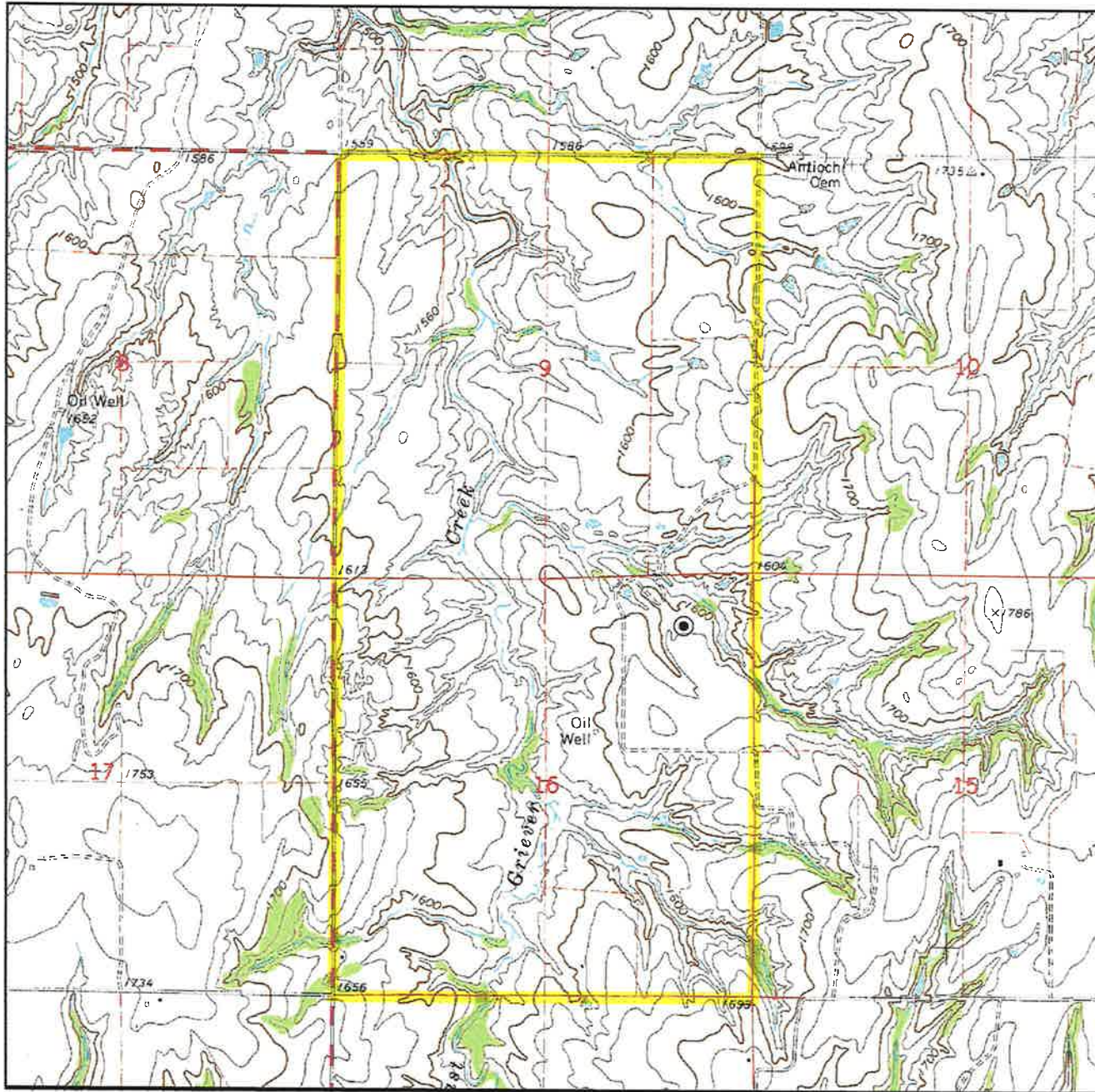
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

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

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 16 Twp. 21N Rng. 15W IM

County MAJOR State OK

Operator RIVIERA OPERATING, LLC

Description 610'FNL-885'FEL

Lease ELAINE 2-9H

Elevation 1612' Gr. at Stake

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

Contour Interval 20'

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

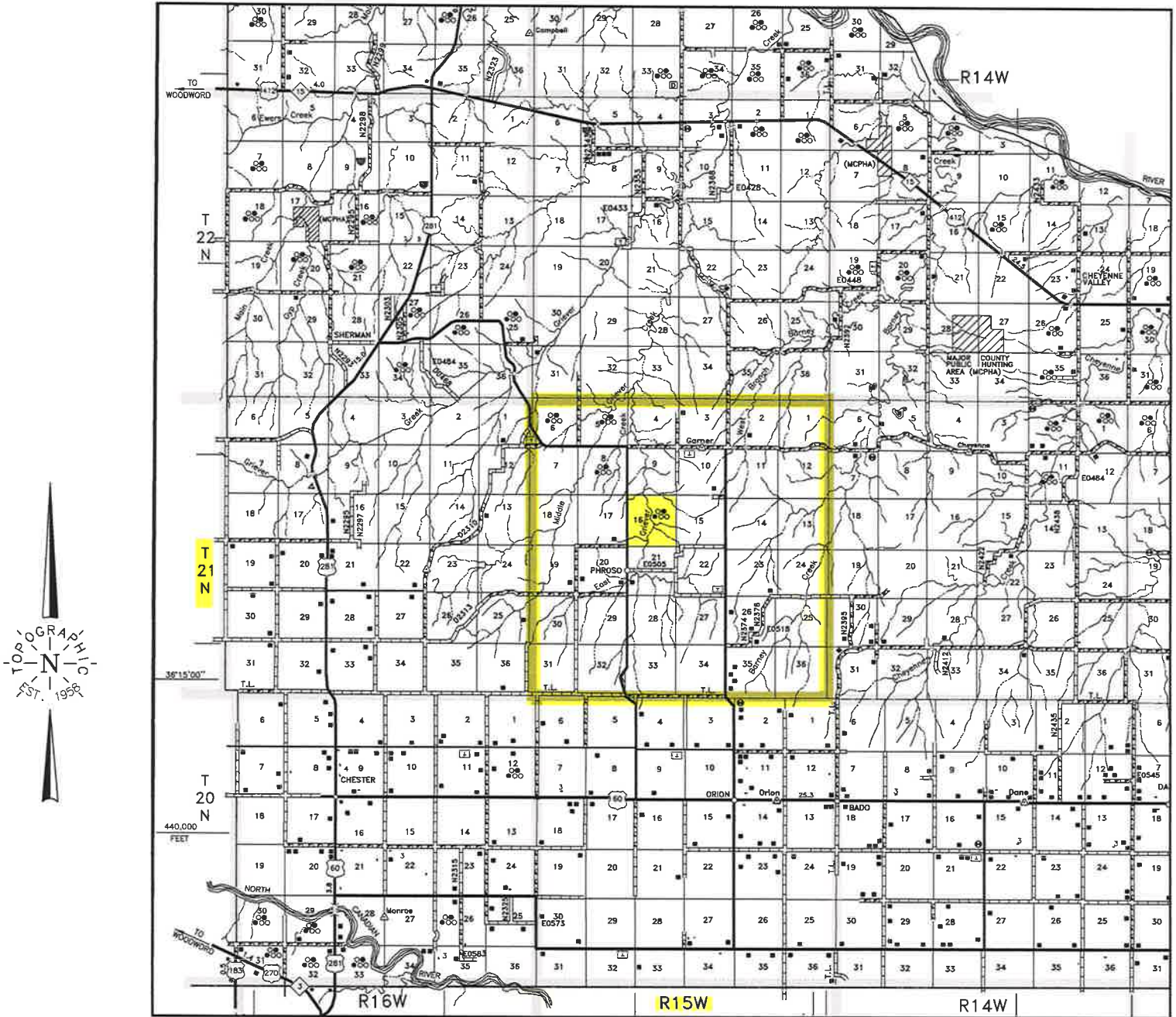
LAND SURVEYORS OF OKLAHOMA

NOV. 27, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 16 Twp. 21N Rng. 15W IM

County MAJOR State OK

Operator RIVIERA OPERATING, LLC



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

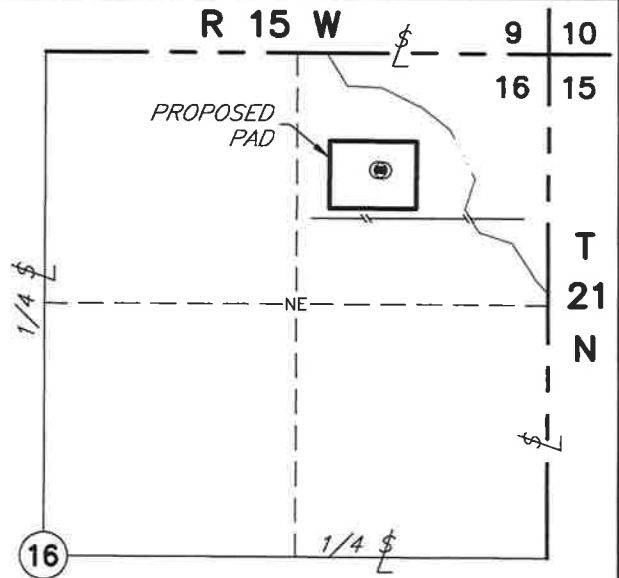
LAND SURVEYORS OF OKLAHOMA

(INDIAN MERIDIAN)

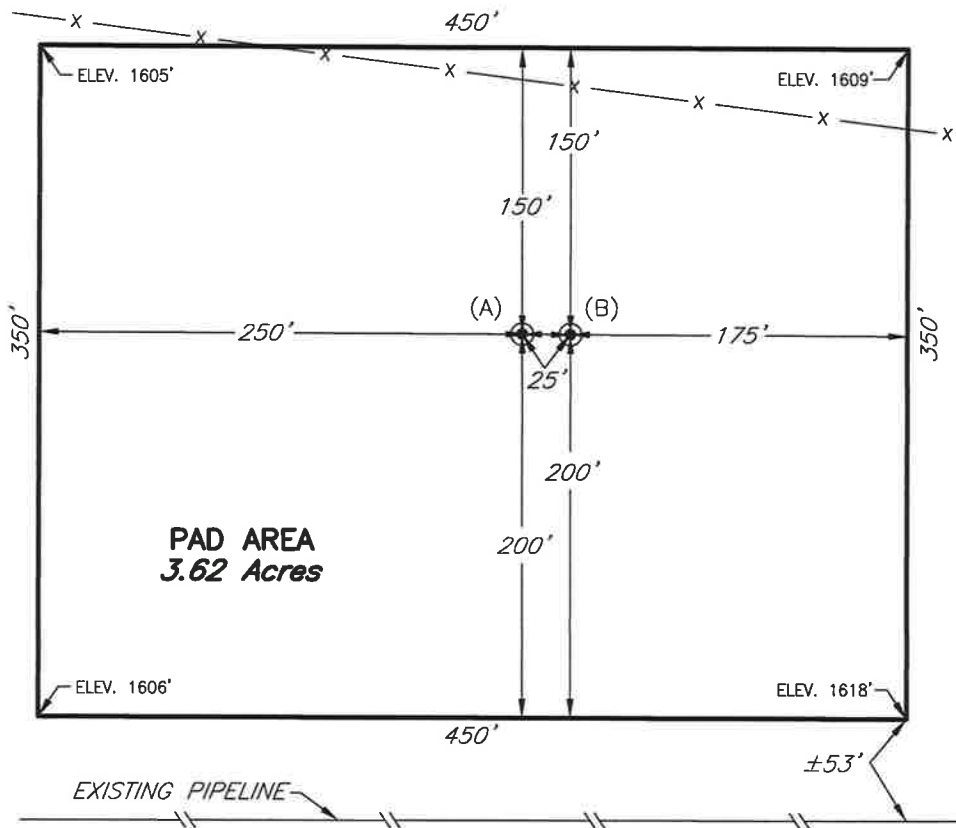
*PROPOSED PAD AREA IN THE
NE/4 OF SECTION 16, T21N-R15W
MAJOR COUNTY, OKLAHOMA*

(A) RIVIERA OPERATING, LLC
ELAINE 2-9H
610'FNL-885'FEL
Elev. 1612' Gr.

(B) RIVIERA OPERATING, LLC
ELAINE 3-9H
610'FNL-860'FEL
Elev. 1612' Gr.



VICINITY MAP
(Scale: 1" = 1000')



SECTION 16
NE/4



GRID
NAD-27
OK NORTH
US FEET



NOTE:

The information shown herein
is for construction purposes
ONLY.

1	NAME CHANGES	12/10/18	SS
NO.	REVISION	DATE	BY
SUR. BY: RL 11-27-18			
DRAWN BY:		SS	
APPROVED BY:		TH	

This plat was prepared exclusively for
RIVIERA OPERATING, 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:	12-5-18
INVOICE NO.:	306915
FILE NAME:	L2007A.DWG
DWG NO.:	118107-L2-007-A
SHEET	1 OF 1