

API NUMBER: 017 25598 A

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

Approval Date: 01/23/2020

Expiration Date: 07/23/2021

Horizontal Hole Oil & Gas

Amend reason: AMEND BOTTOM HOLE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 05 Township: 10N Range: 6W County: CANADIAN

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 232 2157

Lease Name: HOOD 1006 Well No: 2LMH-5 Well will be 232 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC Telephone: 4054788770; 4054264481; OTC/OCC Number: 16896 0

CHAPARRAL ENERGY LLC
4700 GAILLARDIA PKWY STE 200
OKLAHOMA CITY, OK 73142-1839

KEVIN RAY & JENNIFER A. BORNEMANN
9600 SOUTH MANNING ROAD
UNION CITY OK 73090

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	9763

Spacing Orders: 243747

Location Exception Orders: 700347

Increased Density Orders: 698256

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 14700

Ground Elevation: 1287

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 250

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 20-37218

H. (Other)

SEE MEMO

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: C

Liner not required for Category: C

Pit Location is: BED AQUIFER

Pit Location Formation: DUNCAN

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is: BED AQUIFER

Pit Location Formation: DUNCAN

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

HORIZONTAL HOLE 1

Section: 5	Township: 10N	Range: 6W	Meridian: IM	Total Length: 4943
	County: CANADIAN			Measured Total Depth: 14700
Spot Location of End Point: SW	SE	SE	SW	True Vertical Depth: 9900
Feet From: SOUTH		1/4 Section Line: 150		End Point Location from
Feet From: WEST		1/4 Section Line: 2250		Lease, Unit, or Property Line: 150

NOTES:

Category	Description
DEEP SURFACE CASING	1/22/2020 - 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	<p>[4/16/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG</p>
INCREASED DENSITY - 698256 (201902647)	<p>1/23/2020 - GC2 - 5-10N-6W</p> <p>X243747 MSSP</p> <p>4 WELLS</p> <p>CHAPARRAL ENERGY, LLC</p> <p>6-24-2019</p>
LOCATION EXCEPTION - 700347 (201902649)	<p>1/23/2020 - GC2 - (I.O.) 5-10N-6W</p> <p>X243747 MSSP</p> <p>X165:10-3-28 (C)(2)(B) MAY BE CLOSER THAN 600' FROM PROPOSED WELLS, MCCOMAS 5-1, BORNEMANN 1-5, BORNEMANN 2-5, BORNEMANN 3-5</p> <p>COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL/FWL</p> <p>CHAPARRAL ENERGY, LLC</p> <p>8-6-2019</p>
MEMO	1/22/2020 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 243747	<p>1/23/2020 - GC2 - (640) 5-10N-6W</p> <p>EST OTHERS</p> <p>EXT OTHERS</p> <p>EXT 231308/239218 MSSP, OTHERS</p>

API:017-25598A

TOPOGRAPHIC LAND SURVEYORS

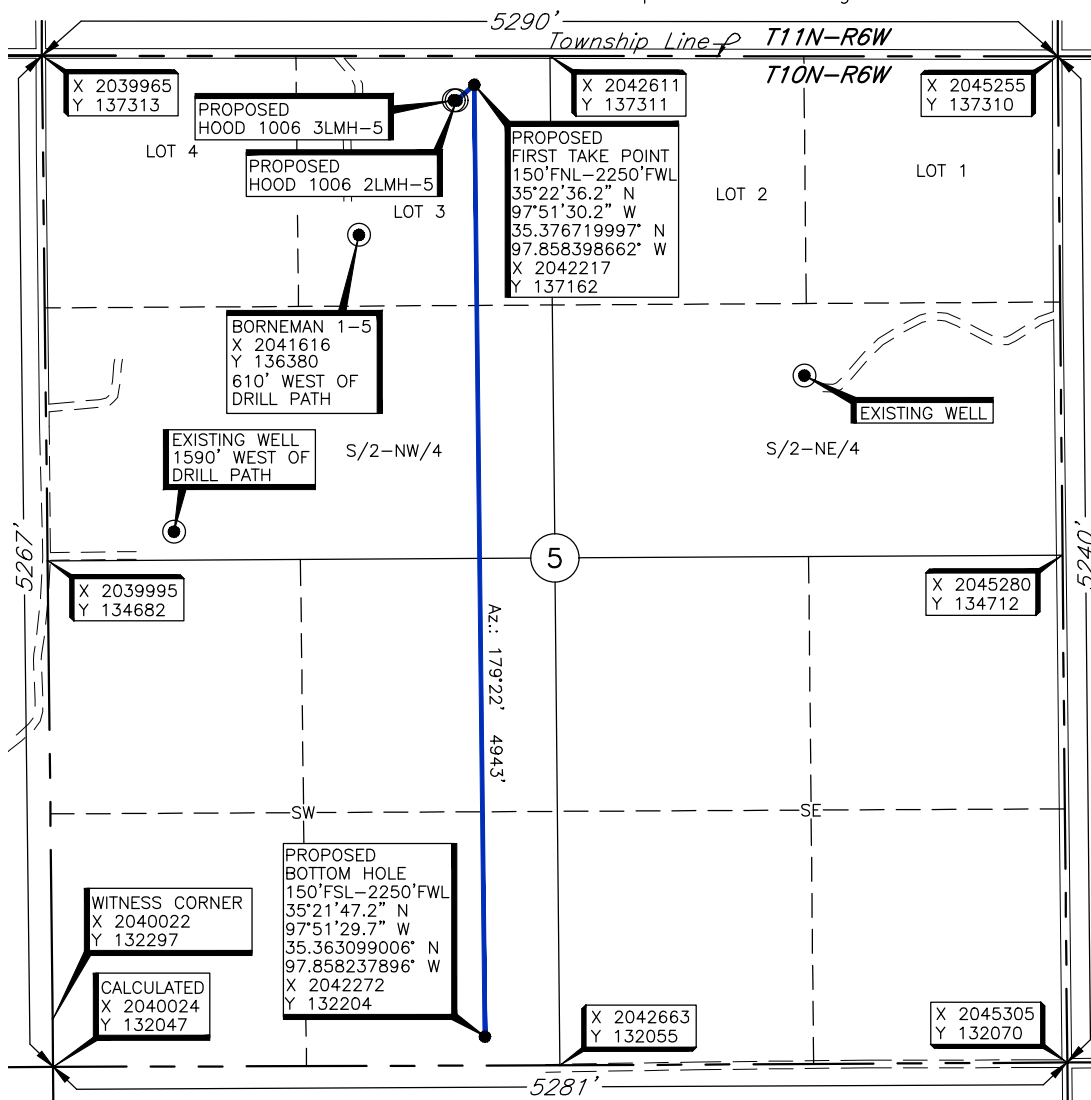
13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1292 LS

CANADIAN

County, Oklahoma

232'FNL-2157'FWL Section 5 Township 10N Range 6W I.M.



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

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY

Operator: CHAPARRAL ENERGY, LLC.

Lease Name: HOOD 1006

Well No.: 2LMH-5

ELEVATION:

1287' Gr. at Stake

Topography & Vegetation Loc. fell in wheat field.

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 the junction of US Hwy 40/US Hwy 270 & Cimarron Road, East of El Reno, Oklahoma,
go ± 8.5 miles South on Cimarron Road, then West ±2.5 mile to the North Quarter Corner of Section 5, T10N-R6W.

DATUM: NAD-27
LAT: 35°22'35.4" N
LONG: 97°51'31.4" W
LAT: 35.376493027° N
LONG: 97.858710386° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 2042125
Y: 137080

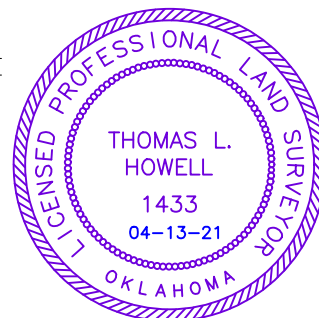
Revision ☒ 5 Date of Drawing: Apr. 13, 2021
Project # 126107 Date Staked: Jan. 17, 2020 JS

CERTIFICATE:

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

Thomas L. Howell

Oklahoma Reg. No. 1433

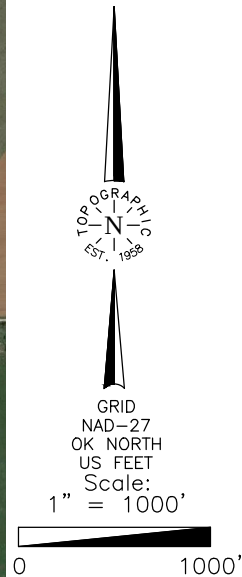
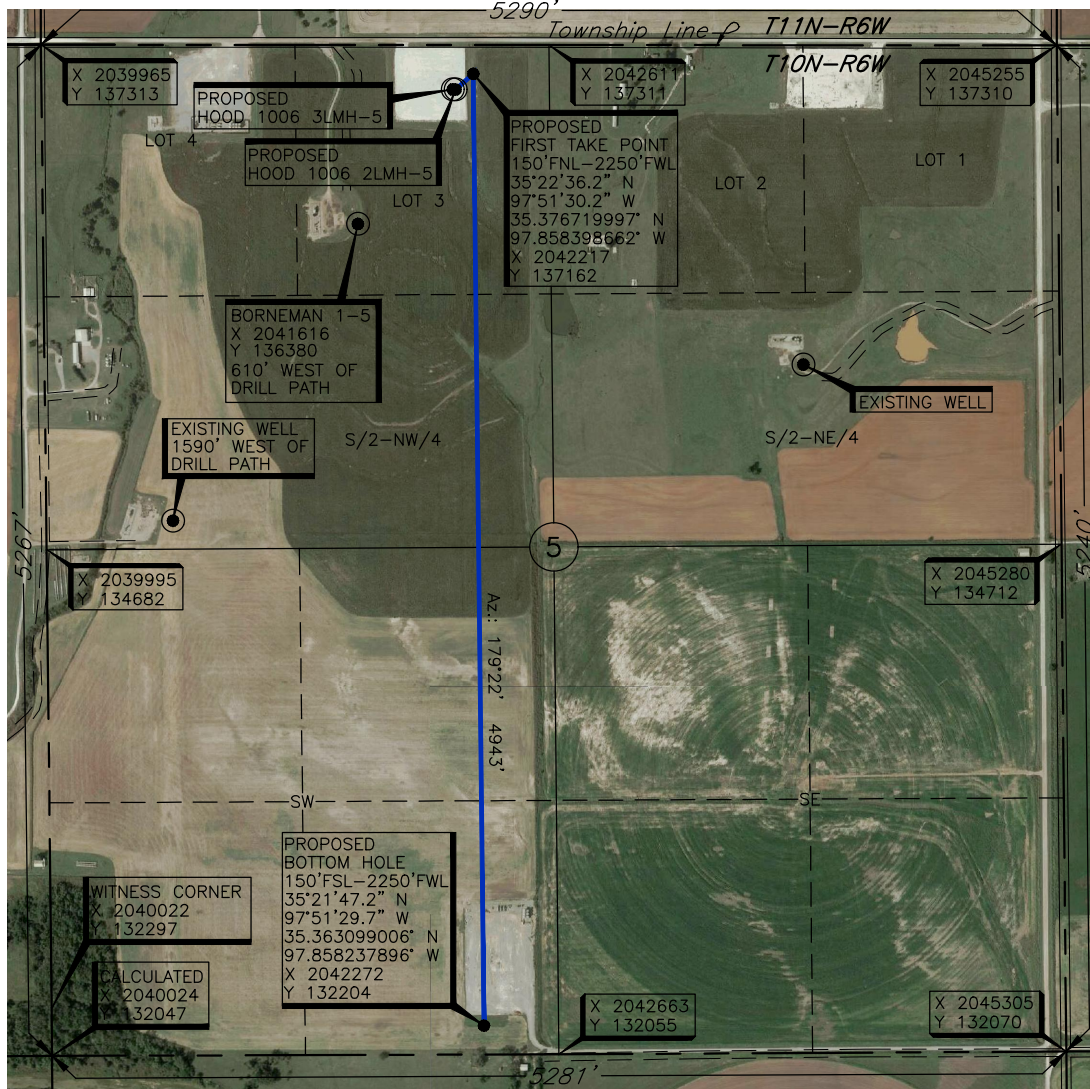


This information was
gathered with a GPS receiver
with ±1 foot Horiz./Vert. accuracy

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232'FNL-2157'FWL Section 5 Township 10N Range 6W I.M.



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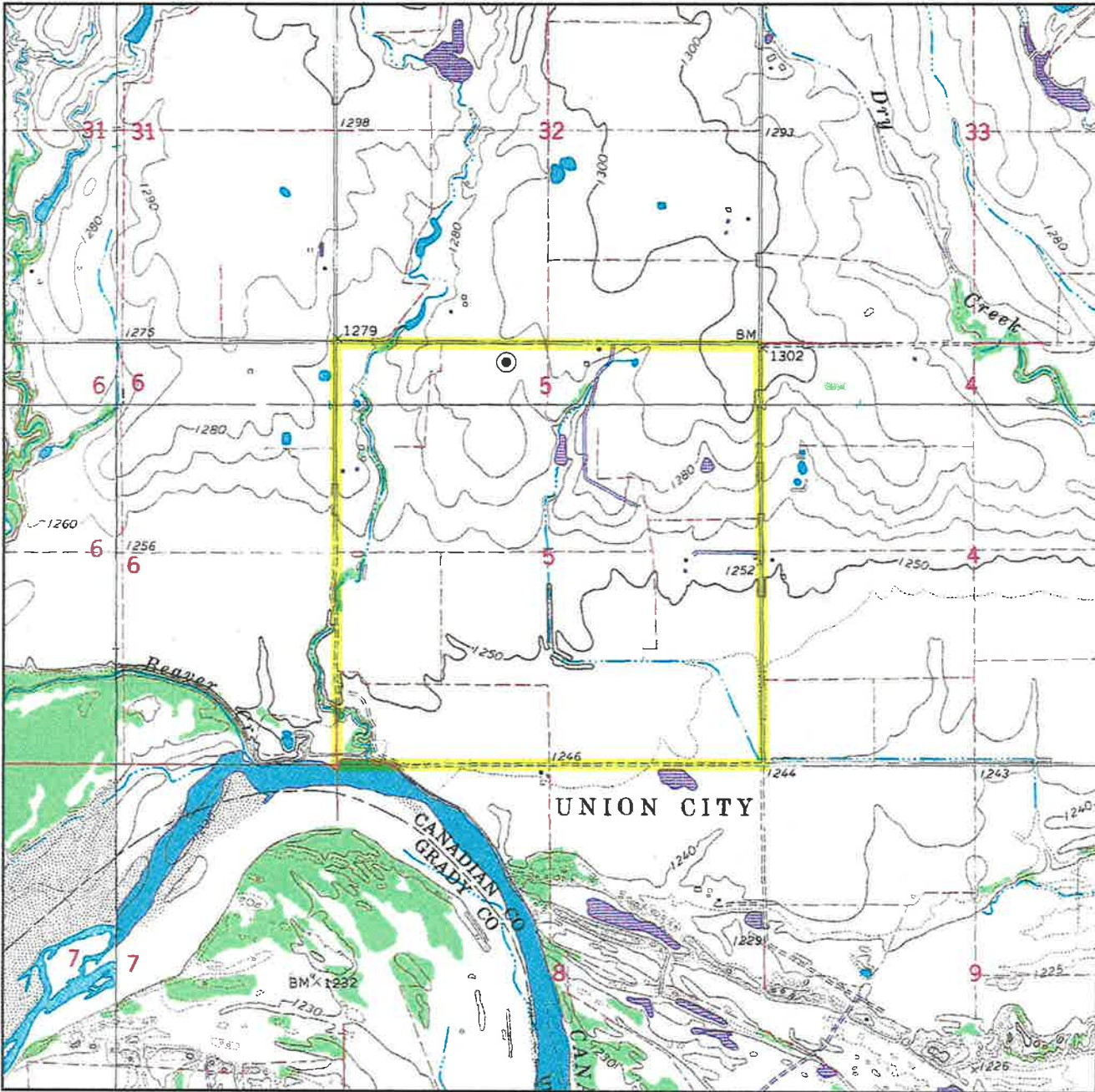
TOPOGRAPHIC LAND SURVEYORS

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. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.

Description 232'FNL-2142'FWL

Lease HOOD 1006 3LMH-5

Elevation 1287' Gr. at Stake

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.

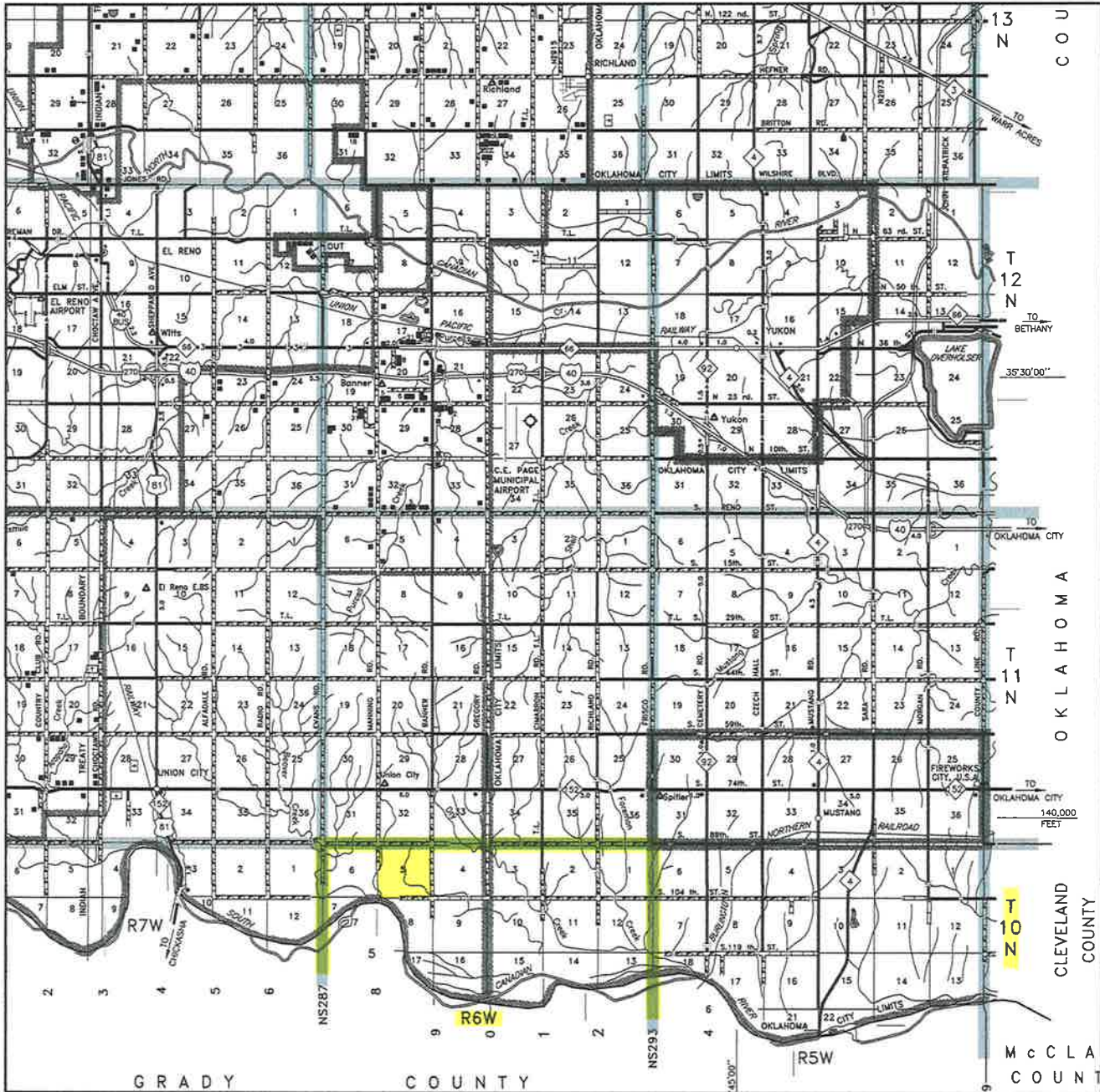


Jan. 17, 2020

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 5 Twp. 10N Rng. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.

