

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

API NUMBER: 017 25431

Approval Date: 03/27/2019

Expiration Date: 09/27/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 13N Rge: 6W

County: CANADIAN

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 360 2495

Lease Name: BROOKIE 1306

Well No: 2LMH-18

Well will be 360 feet from nearest unit or lease boundary.

Operator
Name: CHAPARRAL ENERGY LLC

Telephone: 4054788770; 4054264

OTC/OCC Number: 16896 0

CHAPARRAL ENERGY LLC
701 CEDAR LAKE BLVD
OKLAHOMA CITY, OK 73114-7800

DONALD LLOYD SMITH
2905 SHERIDAN RD
BARTLESVILLE OK 74006

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8619	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 641397

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201900767
201900769

Special Orders:

Total Depth: 13715

Ground Elevation: 1298

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 320

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 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

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

PERMIT NO: 19-36401

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 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

HORIZONTAL HOLE 1

Sec 18 Twp 13N Rge 6W County CANADIAN

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 7804

Radius of Turn: 600

Direction: 359

Total Length: 4968

Measured Total Depth: 13715

True Vertical Depth: 8915

End Point Location from Lease,
Unit, or Property Line: 359

Notes:

Category

Description

DEEP SURFACE CASING

3/21/2019 - 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

3/21/2019 - 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

3/21/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201900767

3/26/2019 - GB1 - 18-13N-6W
X641397 MSSP
5 WELLS
CHAPARRAL ENERGY, LLC.
REC. 3/12/2019 (P. PORTER)

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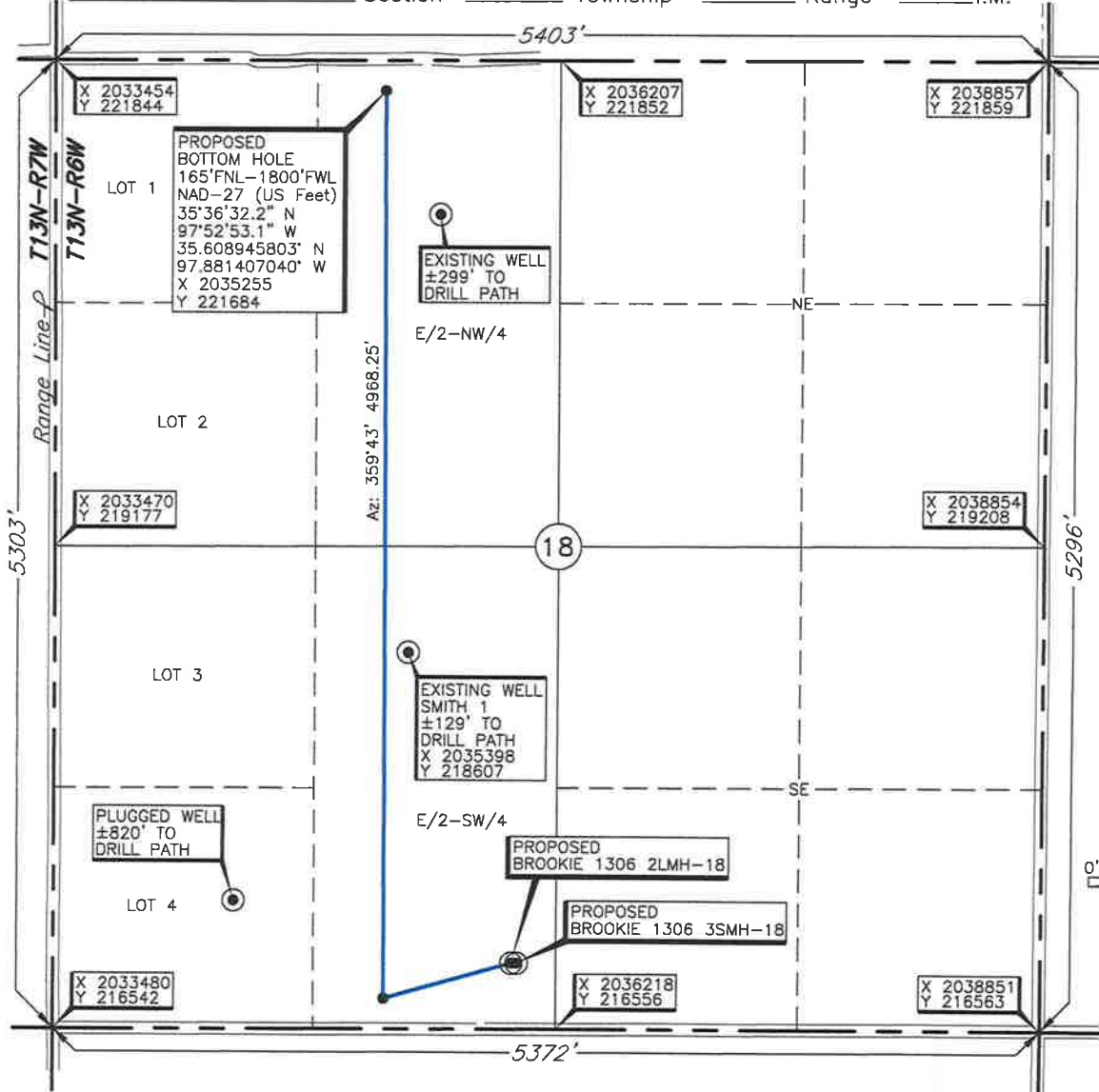
017 25431 BROOKIE 1306 2LMH-18

Category	Description
PENDING CD - 201900769	3/26/2019 - GB1 - (I.O.) 18-13N-6W X641397 MSSP X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO SMITH 1, DETERMAN 1, MERRELL A-1, NIEMANN A-1, AND NIEMANN A-2 COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL*** NO OP. NAMED REC. 3/12/2019 (P. PORTER) ***WILL BE NOTED IN WEST SIDE OF SECTION AT FINAL HEARING PER ATTORNEY FOR OPERATOR
SPACING - 641397	3/26/2019 - GB1 - (640)(HOR) 18-13N-6W EST MSSP, OTHERS COMPL. INT. NLT 660' FB (COEXIST WITH SP # 122201 MISS)

CANADIAN

County, Oklahoma

360'FSL-2495'FWL Section 18 Township 13N Range 6W I.M.



LANDING 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: BROOKIE 1306

Well No.: 2LMH-18

ELEVATION:

1298' Gr. at Stake

Topography & Vegetation Location fell in sloping pasture.

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

Best Accessibility to Location From South off county road.

Distance & Direction

from Hwy Jct or Town From the junction of US Hwy. 81 and St. Hwy. 3, go East on St. Hwy. 3 ±4 miles, then
South ±4.75 miles to the Southwest Corner of Section 18-T13N-R6W.

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)
DATUM: NAD-27
LAT: 35°35'45.0\" N
LONG: 97°52'44.4\" W
LAT: 35.595840640\" N
LONG: 97.879010643\" W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2035973
Y: 216915

Revision ☒ A

Date of Drawing: Mar. 19, 2019

Project # 124649 Date Staked: Mar. 6, 2019

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



TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

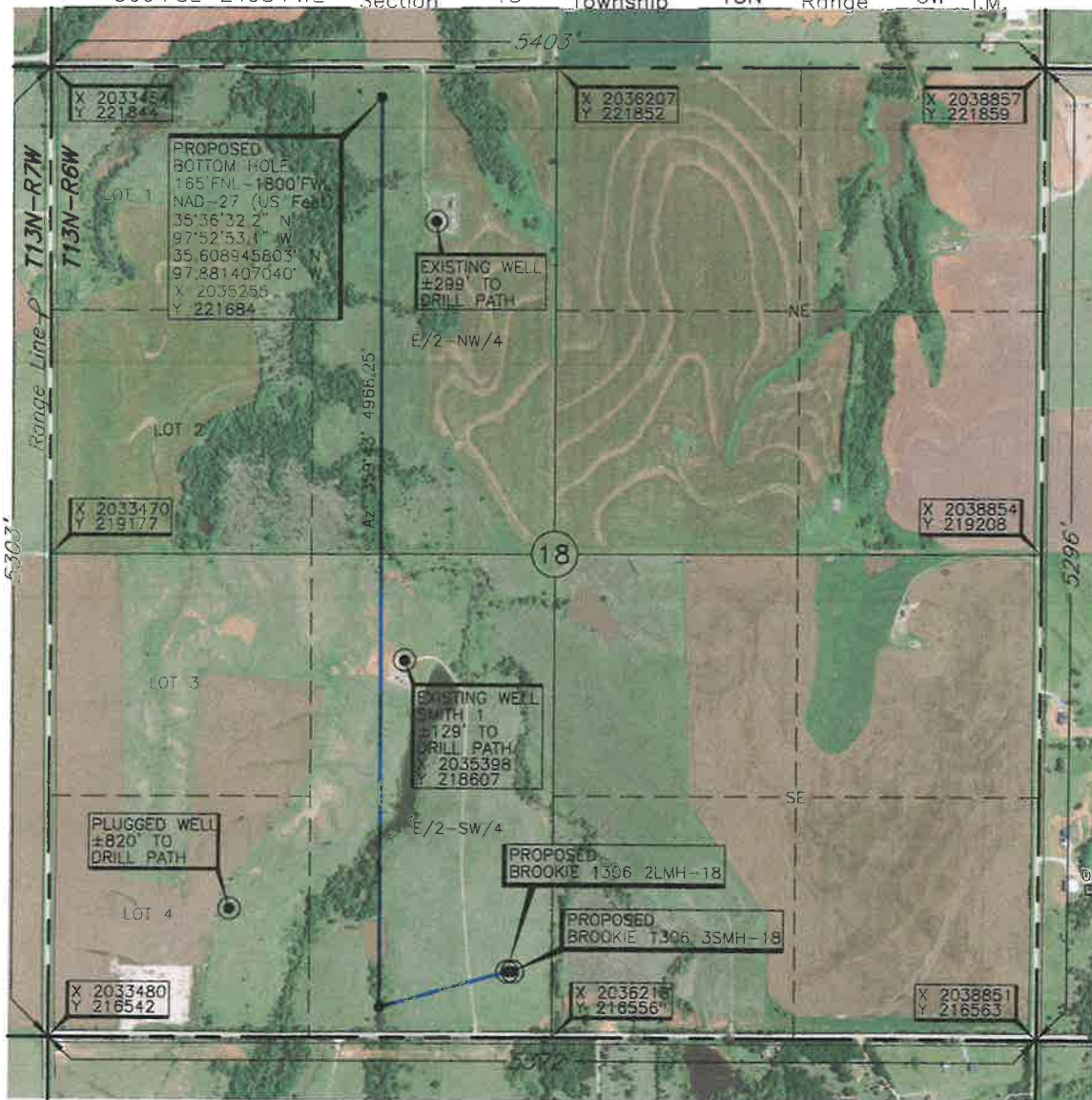
13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

360'FSL-2495'FWL Section 18 Township 13N Range 6W I.M.



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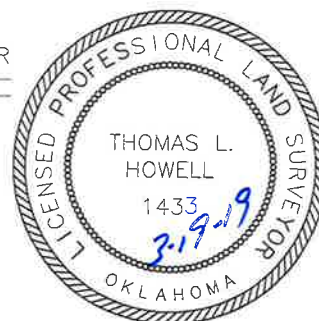
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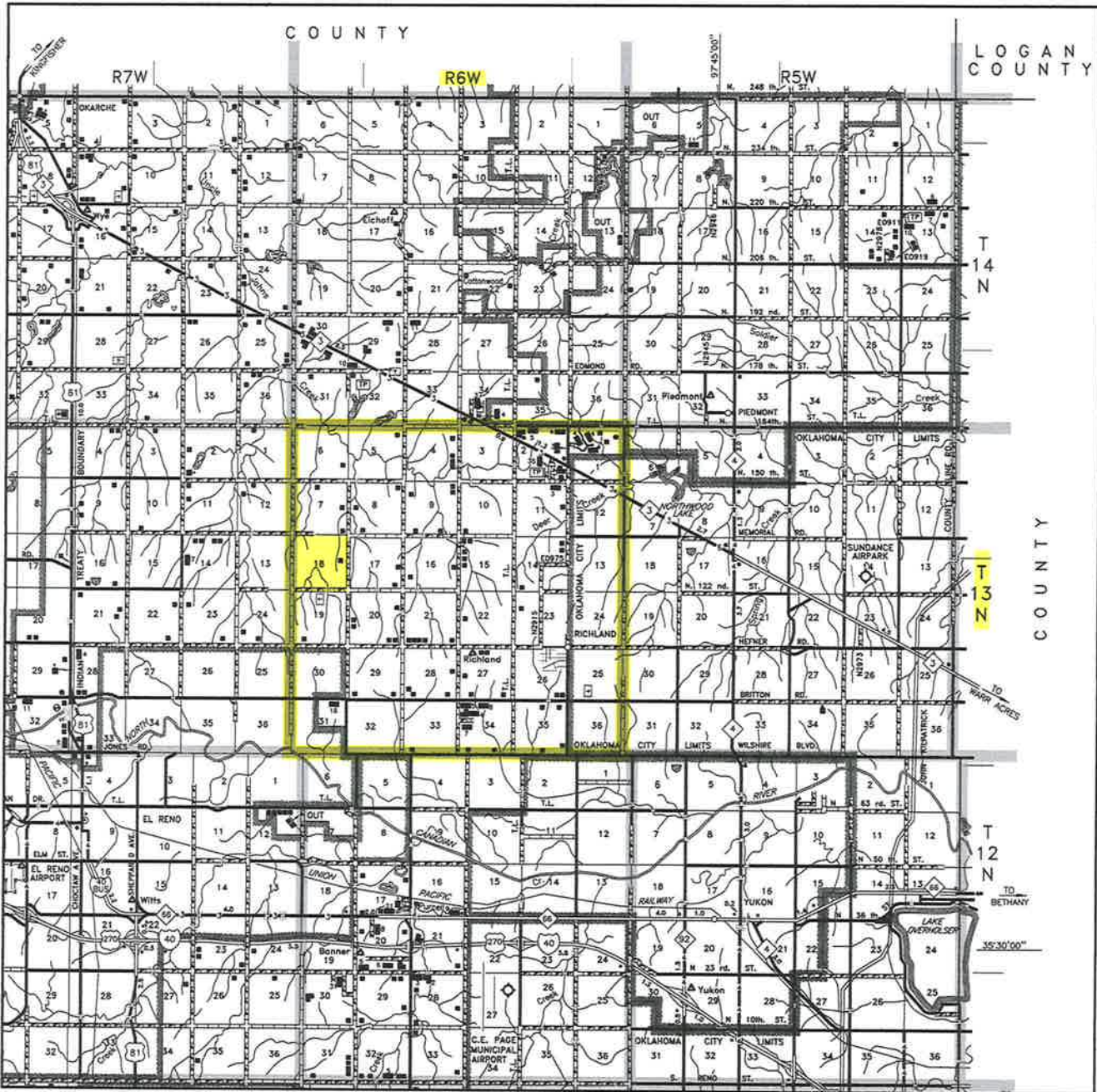


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DATUM: NAD-27
LAT: 35°35'45.0\"/>

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. 18 Twp. 13N Rng. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.

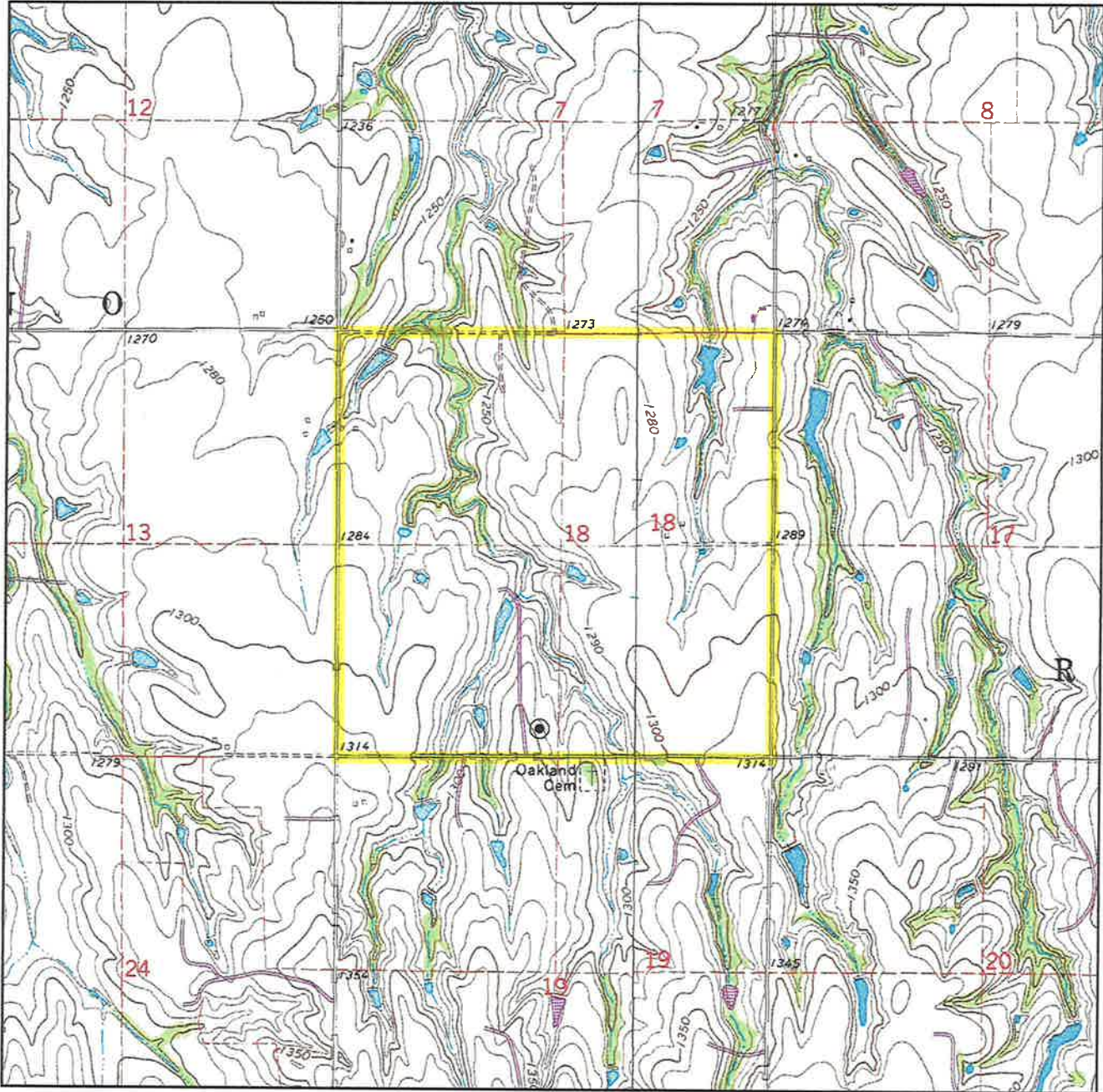


LAND SURVEYORS OF OKLAHOMA

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LOCATION & ELEVATION VERIFICATION MAP



Sec. 18 Twp. 13N Rng. 6W I.M.

County CANADIAN State OK

Operator CHAPARRAL ENERGY, LLC.

Description 360'FSL-2495'FWL

Lease BROOKIE 1306 2LMH-18

Elevation 1298' 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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

Mar. 6, 2019