

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

API NUMBER: 051 24339

Approval Date: 05/02/2018

Expiration Date: 11/02/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 5N Rge: 5W

County: GRADY

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 2435 240

Lease Name: ENGLAND

Well No: 1-12H

Well will be 240 feet from nearest unit or lease boundary.

Operator Name: RED ROCKS OIL & GAS OPERATING LLC

Telephone: 4056003065

OTC/OCC Number: 22649 0

RED ROCKS OIL & GAS OPERATING LLC
1141 N ROBINSON AVE STE 301
OKLAHOMA CITY, OK 73103-4919

JERRY & TAMMY ENGLAND
17251 ROCKWELL AVENUE
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 WOODFORD	11895	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 671277

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803009

Special Orders:

Total Depth: 17006

Ground Elevation: 1123

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 90

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: 18-34318

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 12 Twp 5N Rge 5W County GRADY

Spot Location of End Point: NE NE NE SE

Feet From: SOUTH 1/4 Section Line: 2320

Feet From: EAST 1/4 Section Line: 265

Depth of Deviation: 11353

Radius of Turn: 573

Direction: 85

Total Length: 4752

Measured Total Depth: 17006

True Vertical Depth: 11975

End Point Location from Lease,
Unit, or Property Line: 265

Notes:

Category

Description

DEEP SURFACE CASING

4/23/2018 - 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

4/23/2018 - 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

4/23/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201803009

4/24/2018 - G57 - (E.O.) 12-5N-5W
X671277 WDFD
SHL NCT 2435' FSL, NCT 240' FWL
COMPL. INT. NCT 265' FWL, NCT 265' FEL, NCT 2200' FSL
NO OP. NAMED
REC 4-23-2018 (THOMAS)

This permit does not address the right of entry or settlement of surface damages.

051 24339 ENGLAND 1-12H

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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
SPACING - 671277	4/24/2018 - G57 - (640)(HOR) 12-5N-5W EXT 646850 WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
WATERSHED STRUCTURE	4/23/2018 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 224-0523 PRIOR TO DRILLING

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

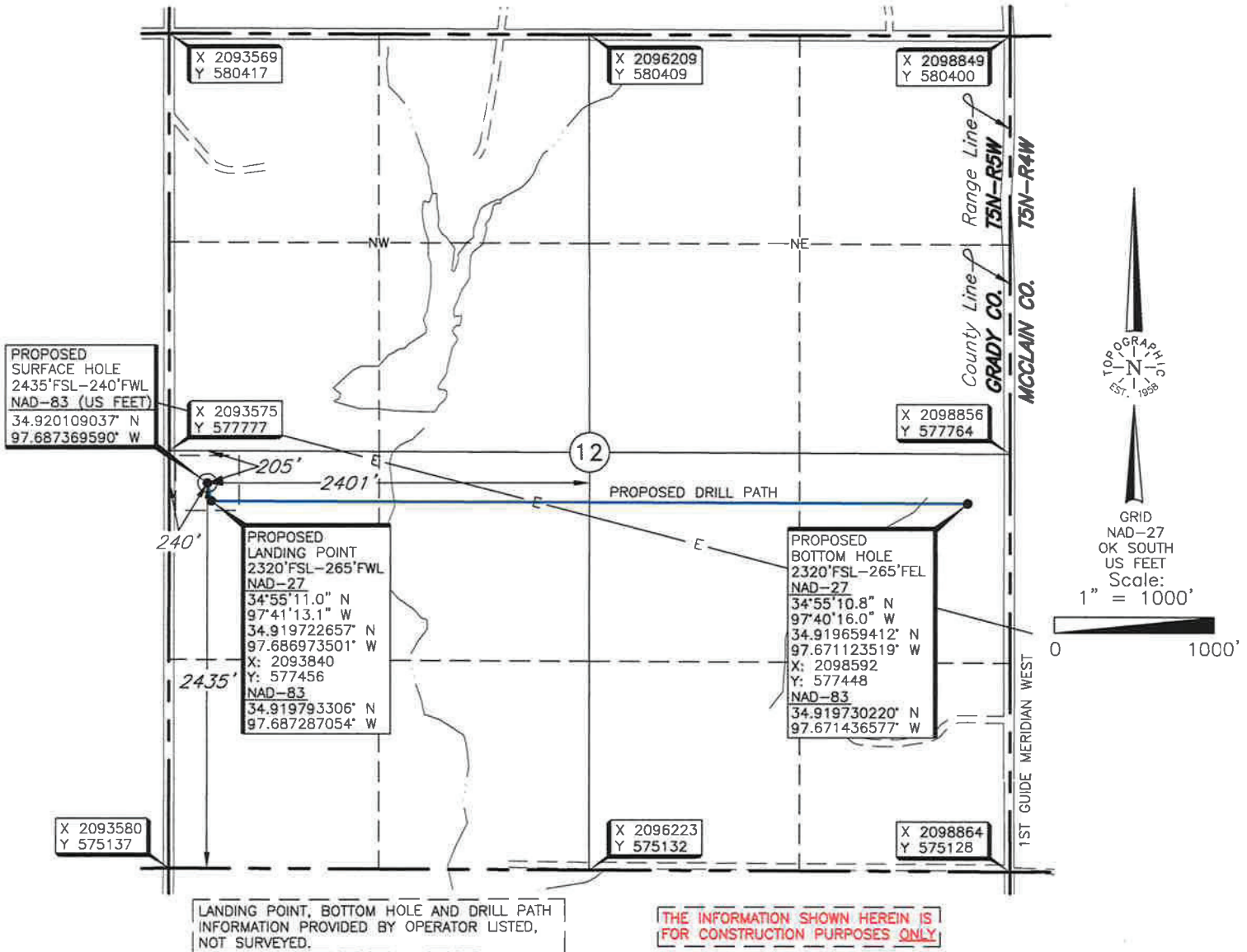
Certificate of Authorization No. 1293 LS

GRADY

County, Oklahoma

API: 051 24339

2435'FSL-240'FWL Section 12 Township 5N Range 5W I.M.



Operator: RED ROCK OIL & GAS OPERATING, LLC

Lease Name: ENGLAND

Well No.: 1-12H

Topography & Vegetation Loc. fell in rough sloping pasture, sloping downhill to the East

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

Best Accessibility to Location From West off county road

Distance & Direction

from Hwy Jct or Town From Bradley, OK, go ±0.25 mi. North, then ±2.1 mi. East, then ±3.0 mi. North, then ±1.0 mi. West, then ±1.0 mi. South to the SW Cor. of Sec. 12-T5N-R5W

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

DATUM: NAD-27
LAT: 34°55'12.1"N
LONG: 97°41'13.4"W
LAT: 34.920038397° N
LONG: 97.687056029° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 2093815
Y: 577571

Date of Drawing: May 1, 2018
Invoice # 293487 Date Staked: Oct. 03, 2017

NB

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

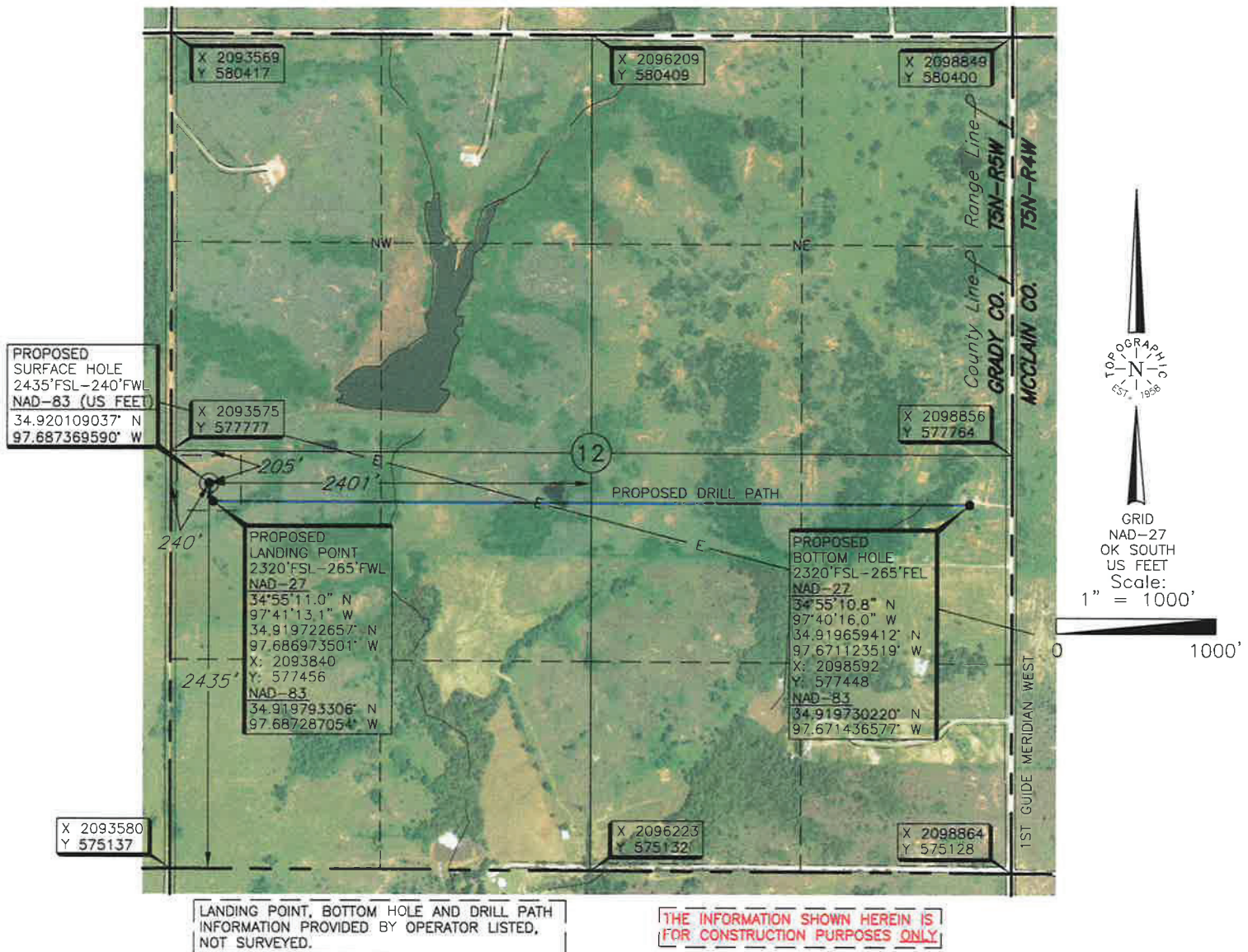
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County, Oklahoma

2435'FSL-240'FWL Section 12 Township 5N Range 5W I.M.



Operator: RED ROCK OIL & GAS OPERATING, LLC

Lease Name: ENGLAND

Well No.: 1-12H

ELEVATION:

1123' Gr. at Stake (NAVD 88)

1122' Gr. at Stake (NGVD 29)

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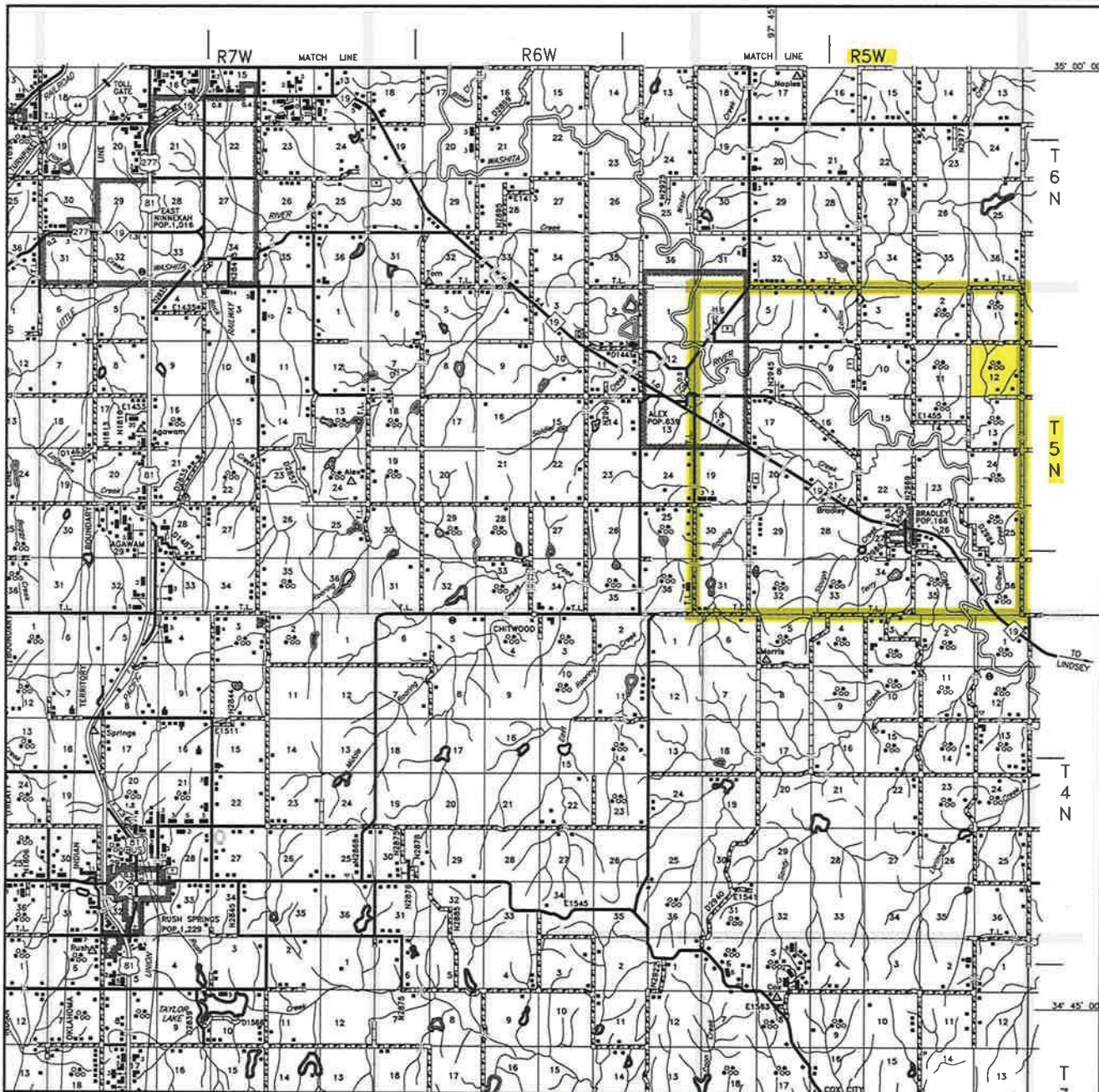
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 12 Twp. 5N Rng. 5W IM

County GRADY State OK

Operator RED ROCK OIL & GAS OPERATING, LLC



LAND SURVEYORS OF OKLAHOMA

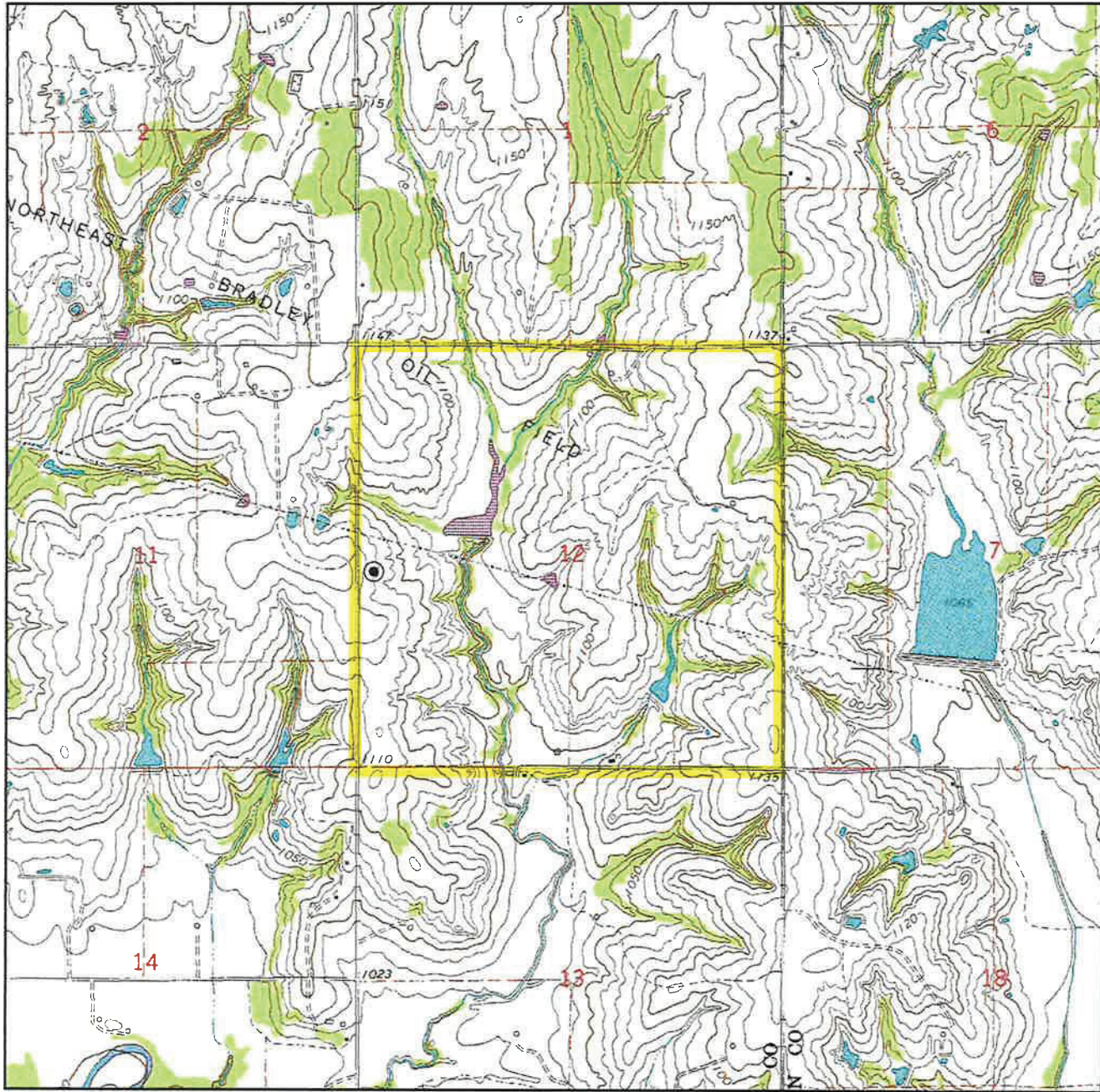
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LOCATION & ELEVATION VERIFICATION MAP



Sec. 12 Twp. 5N Rng. 5W IM

County GRADY State OK

Operator RED ROCK OIL & GAS OPERATING, LLC

Description 2435'FSL-240'FWL

Lease ENGLAND 1-12H

Elevation 1123' Gr. at Stake (NAVD 88)
1122' Gr. at Stake (NGVD 29)

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. 03, 2017