

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

API NUMBER: 149 21745

Approval Date: 09/26/2019

Expiration Date: 03/26/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 10N Rge: 18W

County: WASHITA

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 175 525

Lease Name: REEVES FARMS

Well No: 1-29H

Well will be 175 feet from nearest unit or lease boundary.

Operator Name: RHINO RESOURCES COMPANY LLC

Telephone: 4059474322

OTC/OCC Number: 24387 0

RHINO RESOURCES COMPANY LLC
1021 NW GRAND BLVD
OKLAHOMA CITY, OK 73118-6039

REEVES FARM
11639 N. 2160 RD
FOSS OK 73647

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

Name	Depth	Name	Depth
1 DES MOINES	10910	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 191959

Location Exception Orders: 683015
690819

Increased Density Orders: 699987
690734
680680

Pending CD Numbers:

Special Orders:

Total Depth: 17040

Ground Elevation: 1863

Surface Casing: 850

Depth to base of Treatable Water-Bearing FM: 580

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: ELK CITY

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

PERMIT NO: 19-36950

H. SEE MEMO

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.

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: ELK CITY

HORIZONTAL HOLE 1

Sec 29 Twp 10N Rge 18W County WASHITA

Spot Location of End Point: E2 NW NE NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 800

Depth of Deviation: 11692

Radius of Turn: 730

Direction: 358

Total Length: 4200

Measured Total Depth: 17040

True Vertical Depth: 12510

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

9/10/2019 - 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

9/10/2019 - 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

INCREASED DENSITY - 680680

9/24/2019 - GB1 - 29-10N-18W
X191959 DSMN
1 WELL
RHINO RESOURCES COMPANY, LLC
7/26/2018

INCREASED DENSITY - 690734

9/23/2019 - GC3 - NPT #680680 TO CHANGE OPR DESIGNATION TO UNDETERMINED

INCREASED DENSITY - 699987

9/23/2019 - GC3 - EXT OF TIME FOR ORDER #680680/690734 UNTIL 7/26/2020

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149 21745 REEVES FARMS 1-29H

LOCATION EXCEPTION - 683015	9/23/2019 - GC3 - (I.O.) 29-10N-18W X191959 DSMN X165:10-3-28 CLVD++ MAY BE CLOSER THAN 600' TO BP 4-29 (API 149-20845), PERKY 1 (API 149-20421), WELLER 6-29 (149-20912) COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 500' FEL NO OP. NAMED 9/14/2018
	++ S/B DSMN, WILL BE CORRECTED AT HEARING PER ATTORNEY FOR OPR
LOCATION EXCEPTION - 690819	9/23/2019 - GC3 - NPT PARAGRAPH 6 OF #683015 TO CHANGE OPR DESIGNATION TO UNDETERMINED
MEMO	9/10/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 191959	9/23/2019 - GC3 - (640) 29-10N-18W EXT 171887 DSMN, OTHERS

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

Certificate of Authorization No. 1293 LS

WASHITA

County, Oklahoma

175'FSL - 525'FEL Section 29 Township 10N Range 18W I.M.



NOTE:

The information shown herein is for construction purposes ONLY.

Operator: RHINO RESOURCES COMPANY, LLC

Lease Name: REEVES FARMS

Well No.: 1-29H

ELEVATION:

1863' Gr. at Stake

Topography & Vegetation Loc. fell in harvested hay field, $\pm 150'$ SE of railroad right-of-way

Alt. Loc. fell in harvested hay field

Good Drill Site? Fair; Alt: Yes

Reference Stakes or Alternate Location

Stakes Set Alt 1: 225' FSL-500' FEL Elev: 1863' Gr.

Best Accessibility to Location From South off county road

Distance & Direction

Distance & Direction
from Hwy Jct or Town From Dill City, OK, go ± 1 mile East, then ± 2 mile North to the SE Cor. of Sec. 29-T10N-R18W

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

DATUM: NAD-27
LAT: 35°18'22.4"N
LONG: 99°07'07.4"W
LAT: 35.306235140° N
LONG: 99.118713344° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK SOUTH
X: 1666190
Y: 719839

Revision **X** **B**

Date of Drawing: Sep. 20, 2019

Project # 126529

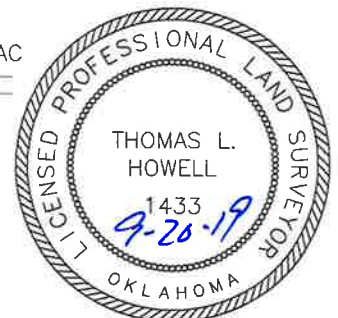
Date Staked: May 14, 2019

LC/AC

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.

Oklahoma Lic. No. 1433



TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

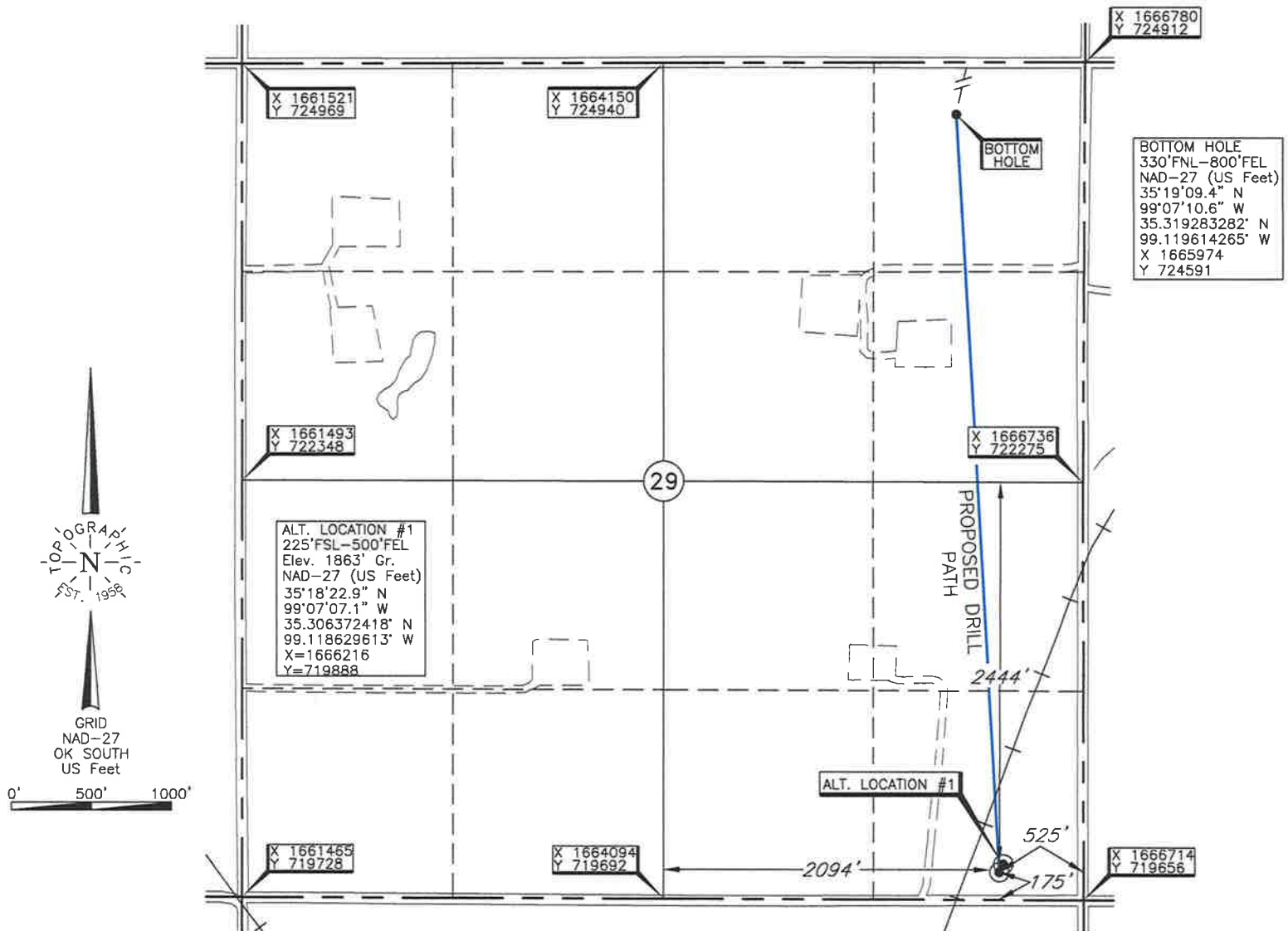
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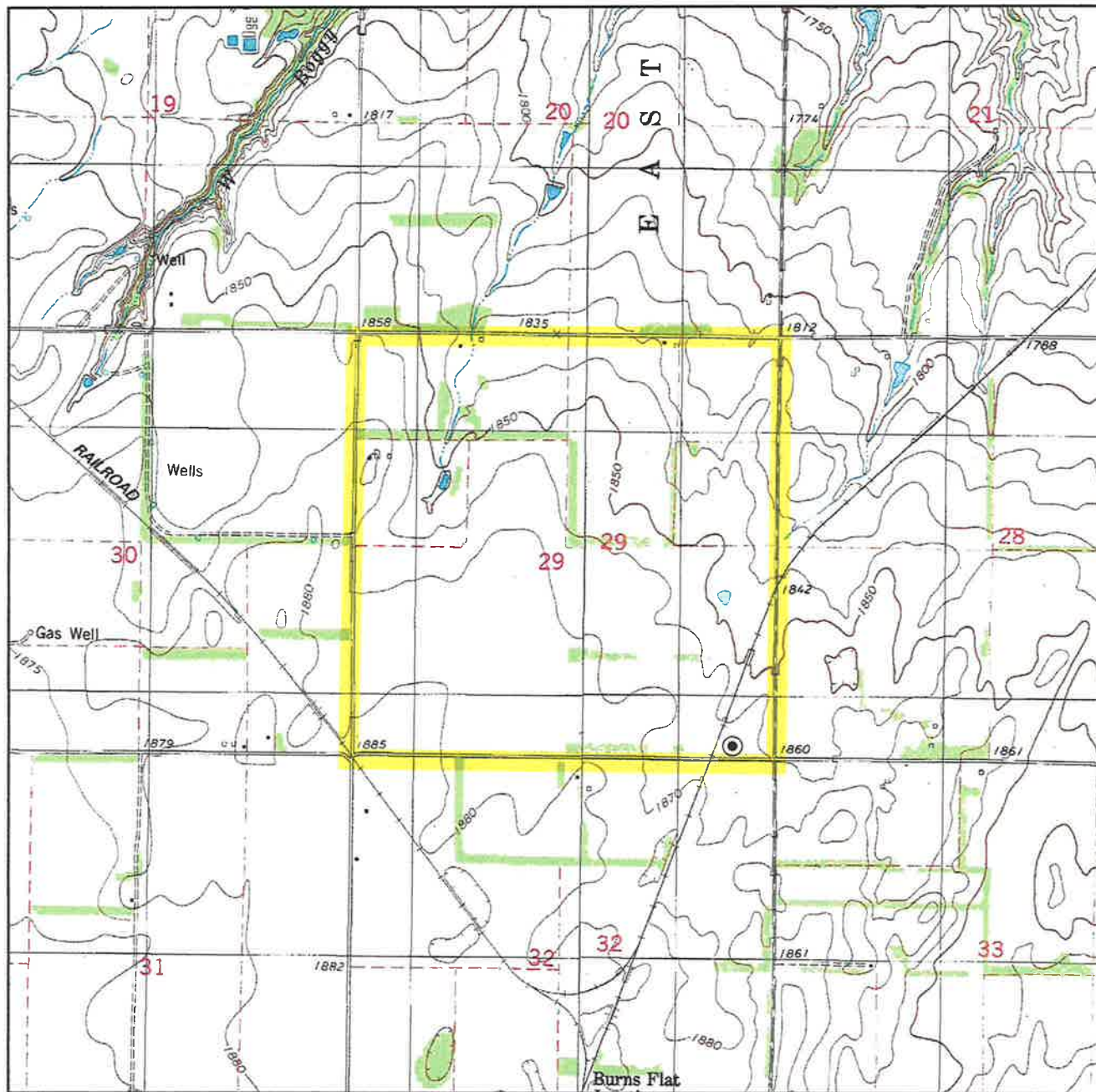
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 29 Twp. 10N Rng. 18W IM

County WASHITA State OK

Operator RHINO RESOURCES COMPANY, LLC

Description 175'FSL - 525'FEL

Lease REEVES FARMS 1-29H

Elevation 1863' 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.



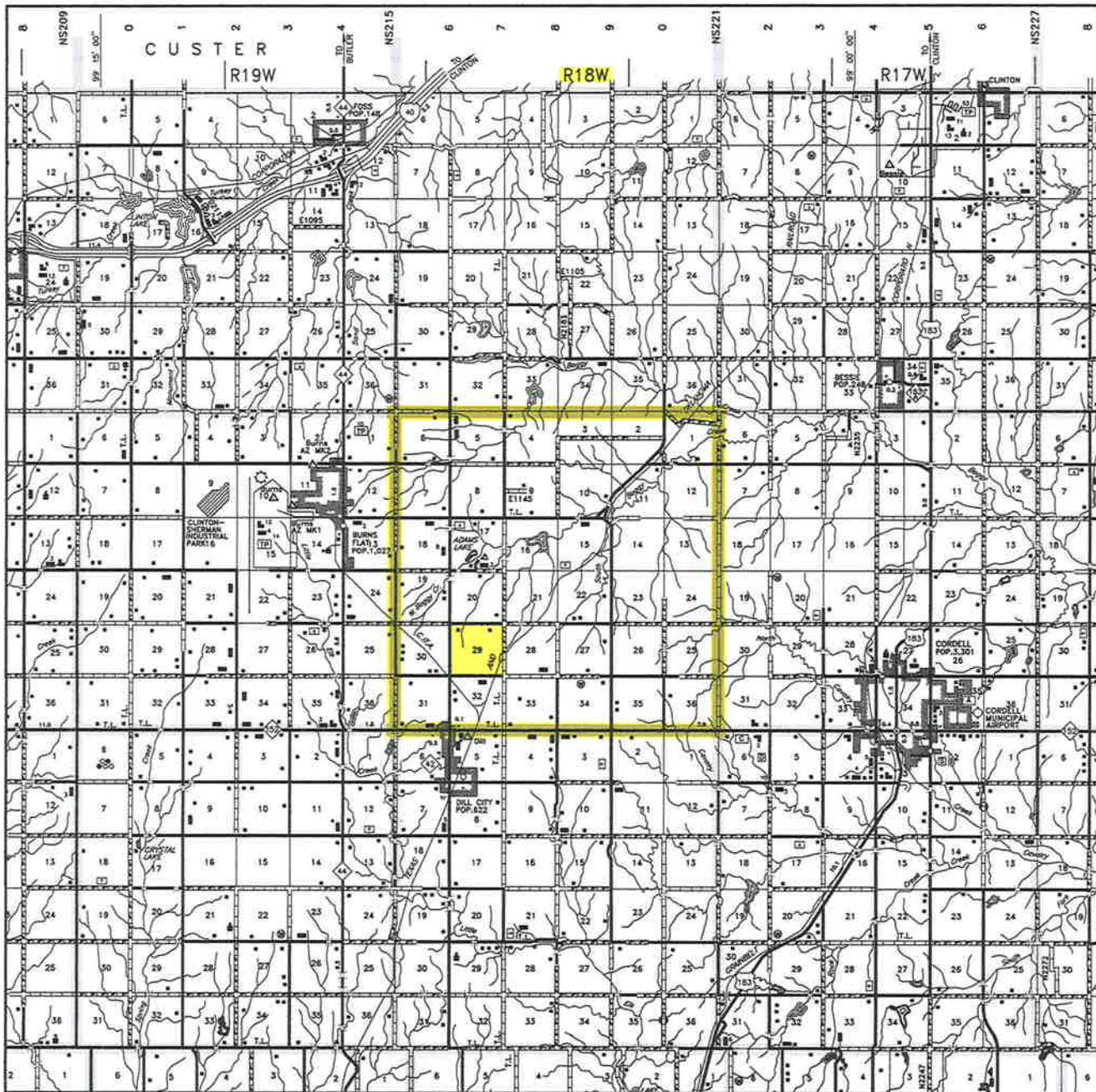
LAND SURVEYORS OF OKLAHOMA

May 14, 2019

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 29 Twp. 10N Rng. 18W IM

County WASHITA State OK

Operator RHINO RESOURCES COMPANY, LLC



LAND SURVEYORS OF OKLAHOMA