API NUMBER: 139 24636

Straight Hole Oil & Gas

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

Approval Date: 10/10/2019
Expiration Date: 04/10/2021

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 1N Rge: 19ECM County: TEXAS

SPOT LOCATION: SE NW NE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**
SECTION LINES: **2038** **668**

Lease Name: SNITKER **Well No: 4** **Well will be 668 feet from nearest unit or lease boundary.**

Operator Name: **FOUNDATION ENERGY MANAGEMENT LLC** Telephone: 3032448114 OTC/OCC Number: 22137 0

FOUNDATION ENERGY MANAGEMENT LLC
5057 KELLER SPRINGS RD STE 650
ADDISON, TX 75001-6583

LISCO, LLC
PO BOX 1155
GUYMON OK 73942

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

	Name	Depth		Name	Depth
1	TORONTO	4818	6		
2	LANSING	4880	7		
3	MARMATON	5947	8		
4			9		
5			10		

Spacing Orders: 702790 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201904563
201904583

Special Orders:

Total Depth: 6100 Ground Elevation: 2879 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 670

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

Type of Pit System: ON SITE
Type of Mud System: WATER BASED
Chlorides Max: 50000 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: 1B
Liner required for Category: 1B
Pit Location is BED AQUIFER
Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

Notes:

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.

Category	Description
DEEP SURFACE CASING	6/12/2019 - 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	6/10/2019 - 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
PENDING CD - 201904563	10/9/2019 - GB6 - (I.O.) 27-1N-19ECM X702790 TRNT, LNSG, MRMN NCT 1980' FSL, NCT 660' FEL NO OP. NAMED REC. 09/30/2019 (JOHNSON)
PENDING CD – 201904583	10/9/2019 - GB6 - (I.O.) 27-1N-19ECM X702790 MRMN 4 WELLS NO OP. NAMED REC. 09/30/2019 (JOHNSON)
SPACING - 702790	8/29/2019 - GB6 - (640) 27-1N-19ECM EXT 625998 TRNT, LNSG, OTHER EXT 608084 MRMN

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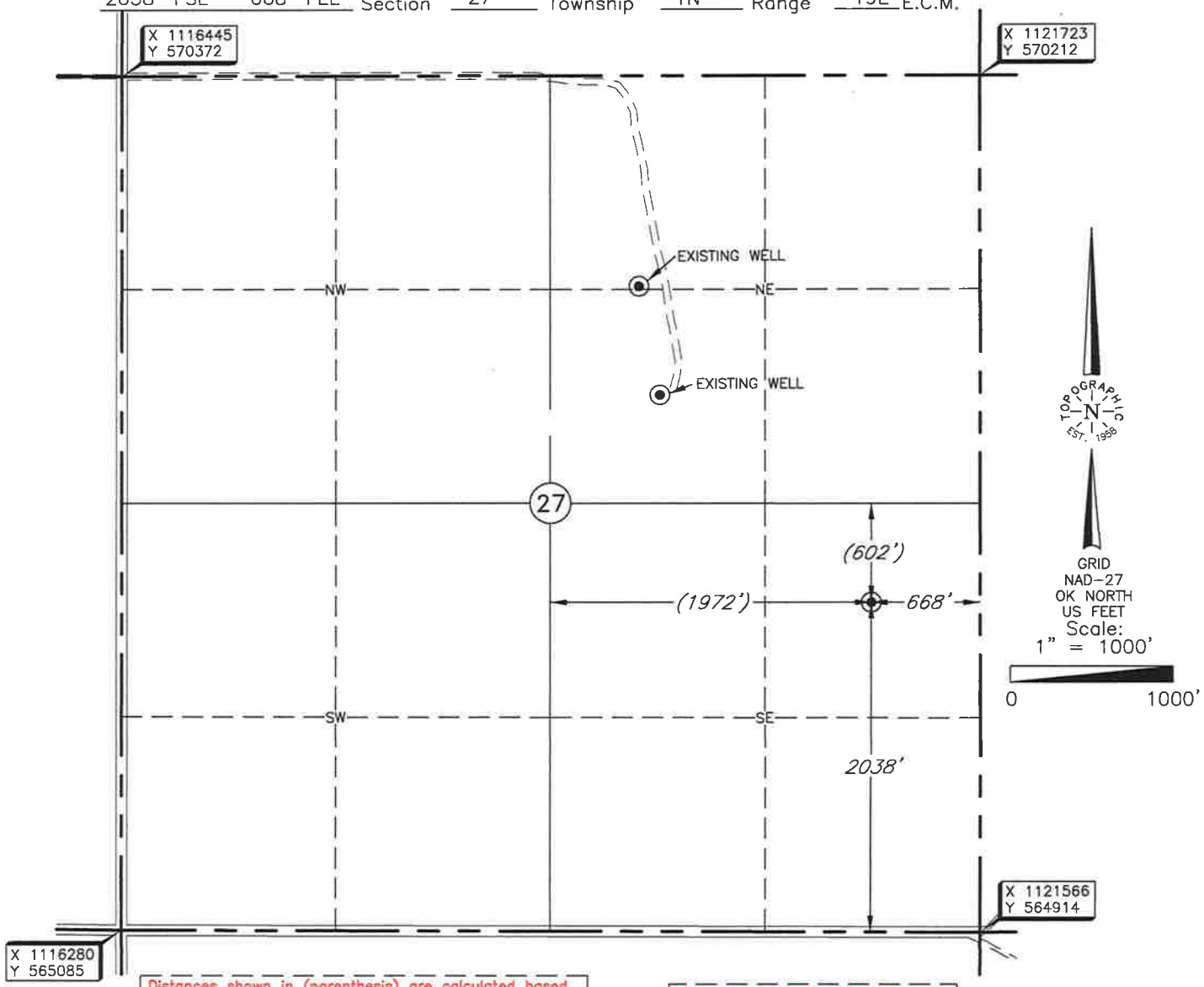
35-139-24636

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

TEXAS County, Oklahoma

2038' FSL – 668' FEL Section 27 Township 1N Range 19E E.C.M.



Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

Operator: FOUNDATION ENERGY MANAGEMENT

Lease Name: SNITKER Well No.: 4

ELEVATION: 2879' Gr. at Stake

Topography & Vegetation Location fell in terraced grass 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 Hardesty, Oklahoma, go East ±10.0 miles, then South ±7.0 miles, then East ±1.0 mile to the Southeast Corner of Section 27-T1N-R19ECM.

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

DATUM: NAD-27
LAT: 36°31'13.2"N
LONG: 100°59'30.9"W
LAT: 36.520343146°N
LONG: 100.991905969°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1120959
Y: 566973

Project # 126630

Date of Drawing: May 29, 2019
Date Staked: May 28, 2019 KH

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 Reg. No. 1433

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
5-30-19
OKLAHOMA

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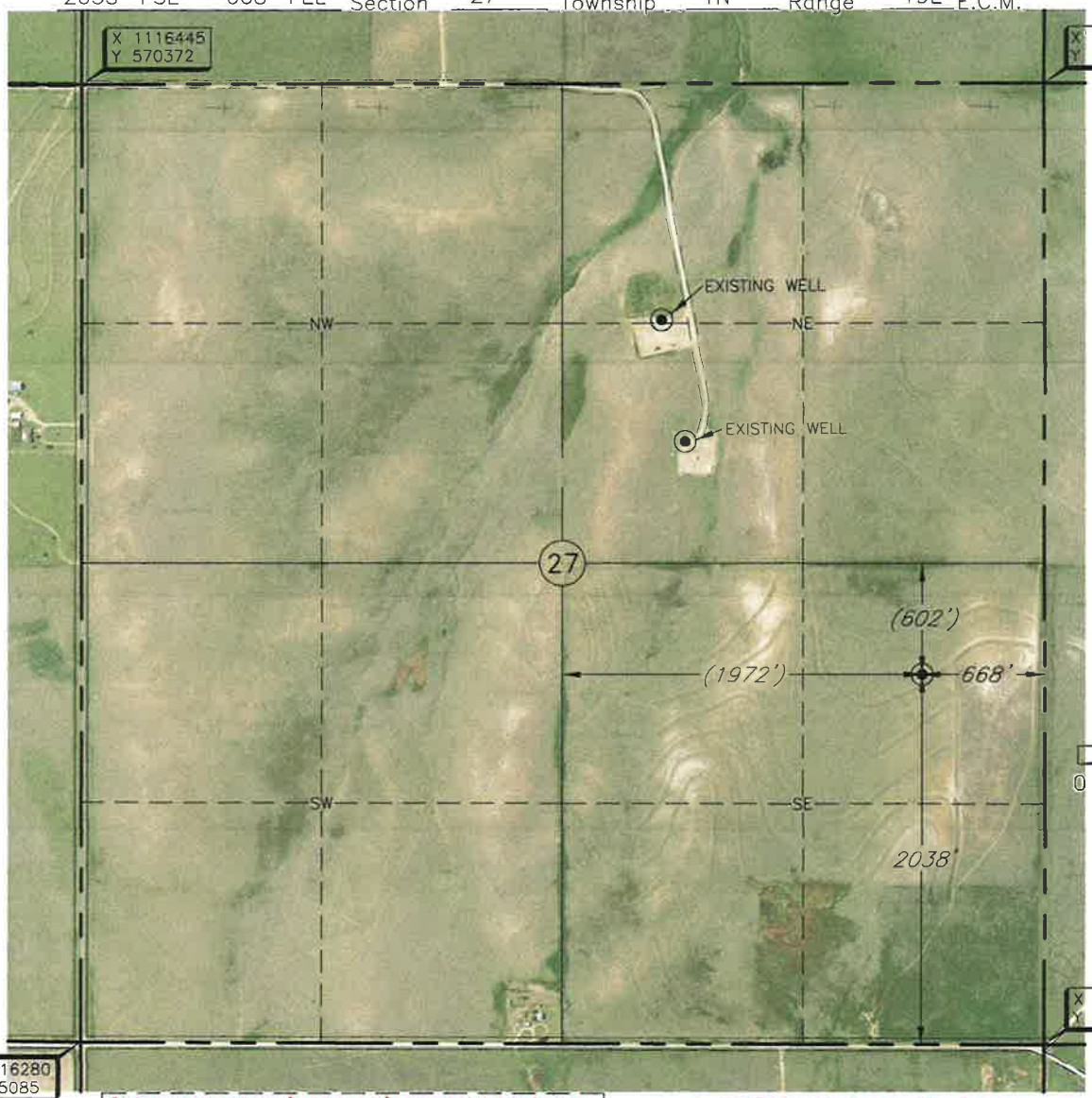

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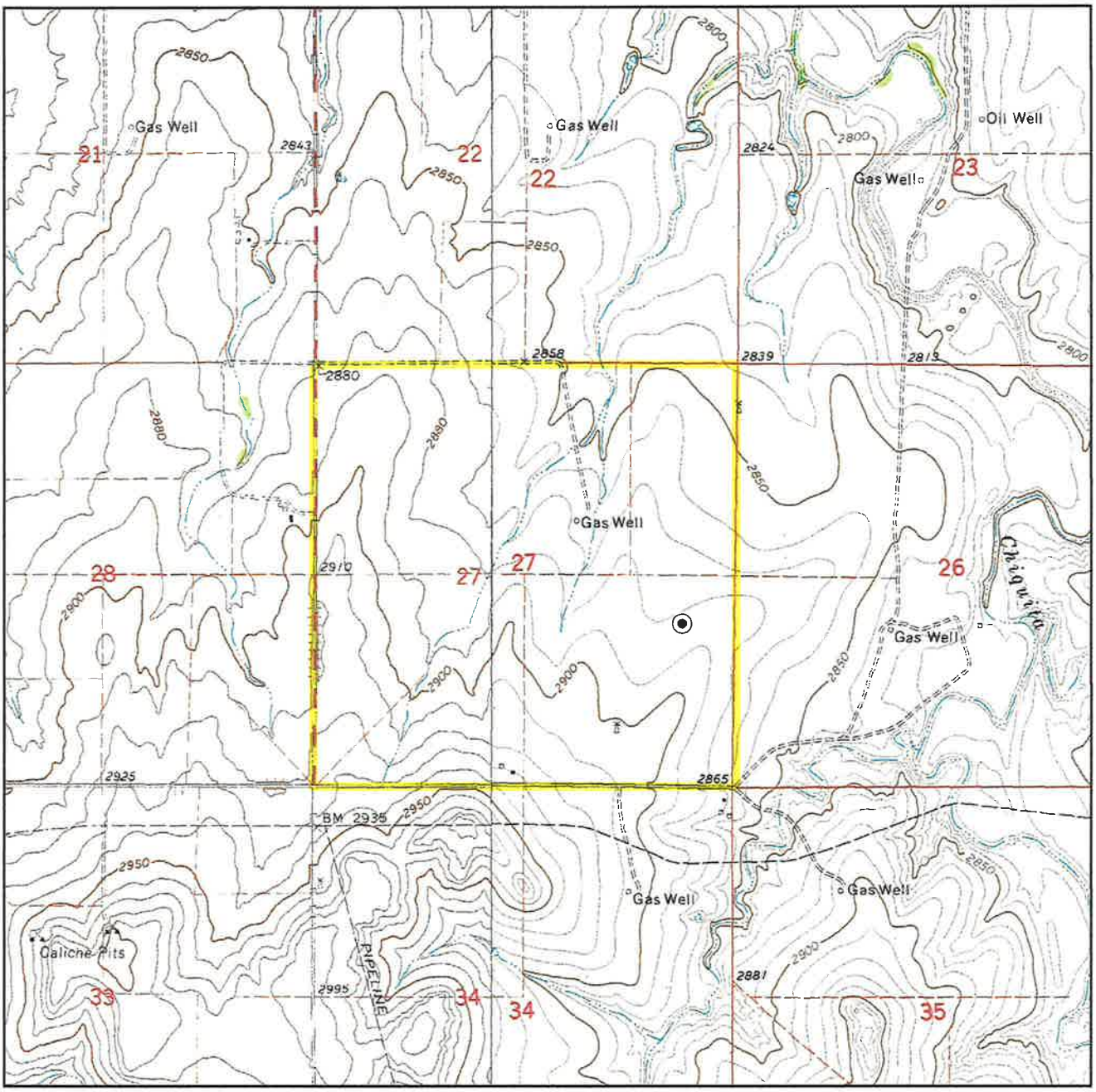
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 27 Twp. 1N Rng. 19 E.C.M.

County TEXAS State OK

Operator FOUNDATION ENERGY MANAGEMENT

Description 2038' FSL – 668' FEL

Lease SNITKER #4

Elevation 2879' 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

May 28, 2019

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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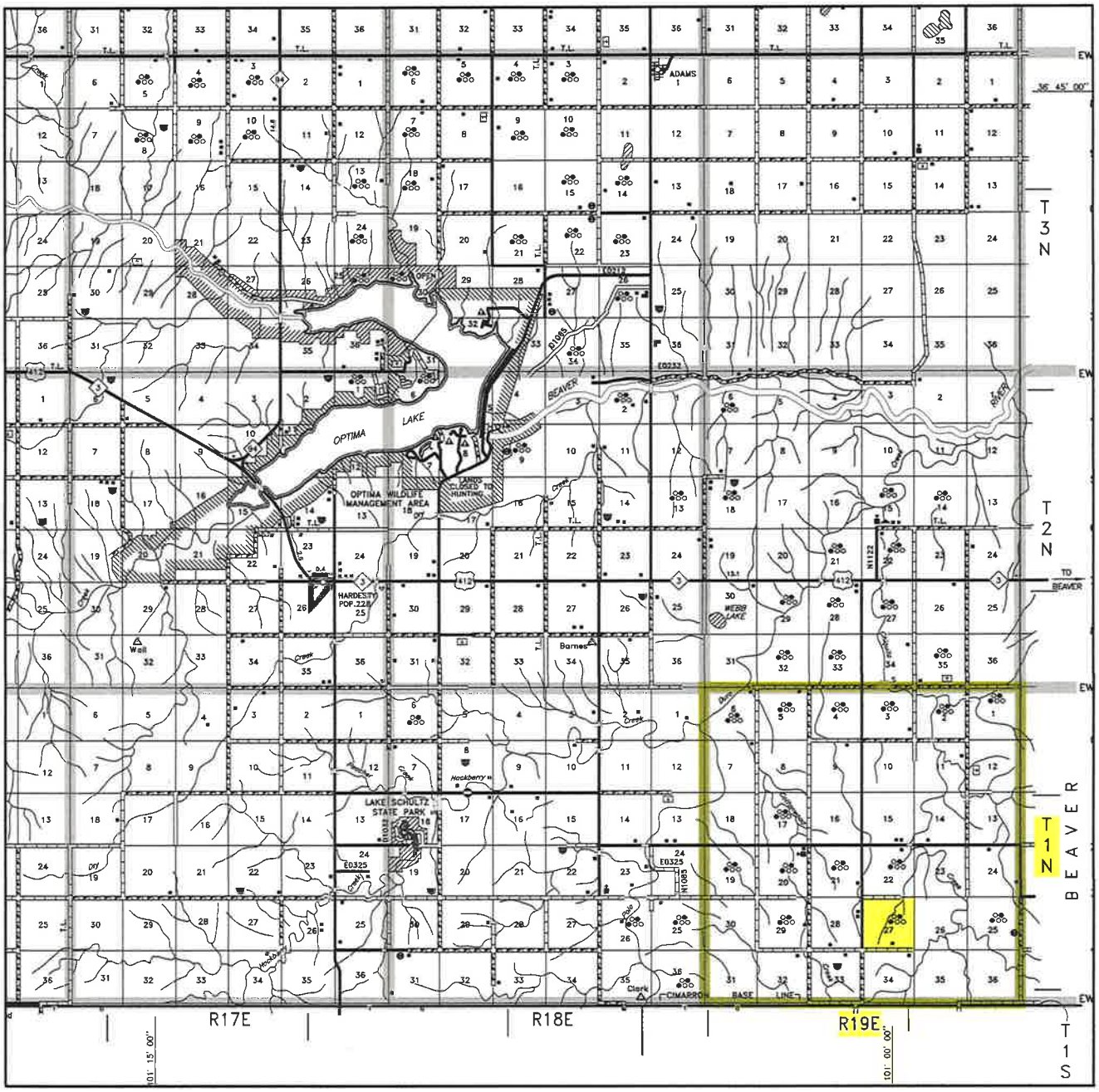
VICINITY MAP



Scale: 1" = 3 Miles

Sec. 27 Twp. 1N Rng. 19E E.C.M.

County TEXAS State OK

Operator FOUNDATION ENERGY MANAGEMENT

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