

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

API NUMBER: 139 24637

Approval Date: 10/10/2019

Expiration Date: 04/10/2021

Straight Hole

Oil & Gas

PERMIT TO DRILL

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

SPOT LOCATION: ☐ NE ☐ SW ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 681 672

Lease Name: SNITKER

Well No: 5

Well will be 672 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	4796	6	
2	LANSING	4858	7	
3	MARMATON	5938	8	
4			9	
5			10	

Spacing Orders: 702790

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201904564  
201904583

Special Orders:

Total Depth: 6100

Ground Elevation: 2860

**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

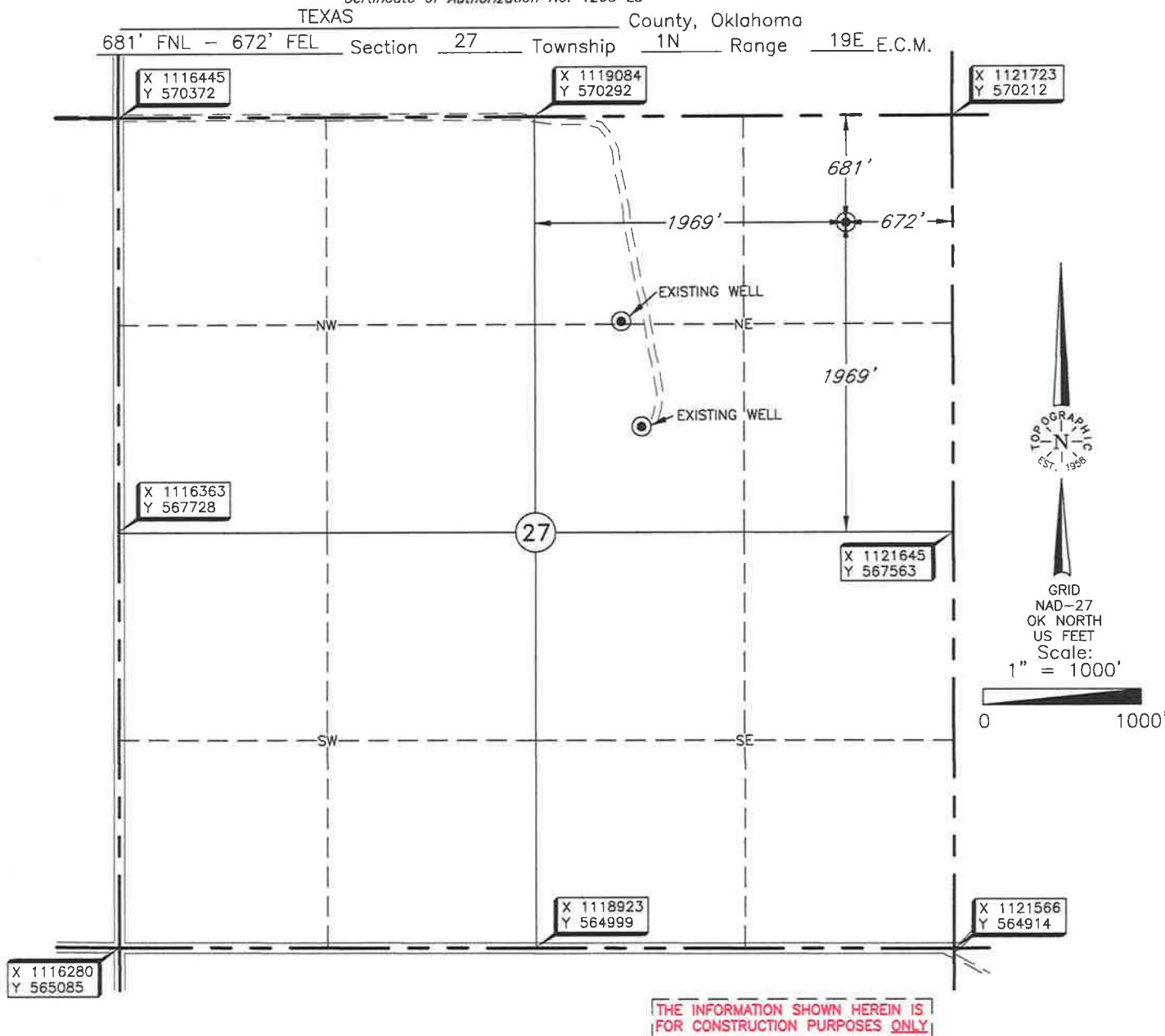
Notes:

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	<p>6/10/2019 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
PENDING CD - 201904564	<p>10/9/2019 - GB6 - (I.O.) 27-1N-19ECM  X702790 TRNT, LNSG, MRMN  NCT 660' FNL, NCT 660' FEL  NO OP. NAMED  REC. 09/30/2019 (JOHNSON)</p>
PENDING CD – 201904583	<p>10/9/2019 - GB6 - (I.O.) 27-1N-19ECM  X702790 MRMN  4 WELLS  NO OP. NAMED  REC. 09/30/2019 (JOHNSON)</p>
SPACING - 702790	<p>8/29/2019 - GB6 - (640) 27-1N-19ECM  EXT 625998 TRNT, LNSG, OTHER  EXT 608084 MRMN</p>

**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

35-139-24637



Operator: FOUNDATION ENERGY MANAGEMENT

Lease Name: SNITKER

Well No.: 5

**ELEVATION:**

2860' Gr. at Stake

Topography &amp; Vegetation Location fell in terraced grass pasture.

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From North off county road.

Distance &amp; Direction

From Hwy Jct or Town From Hardesty, Oklahoma, go East  $\pm 10.0$  miles on US Hwy 412, then South  $\pm 6.0$  miles, then East  $\pm 0.5$  mile to the North Quarter Corner of Section 27-T1N-R19ECM.Revision ☒ 2

Date of Drawing: October 7, 2019

Project # 126631

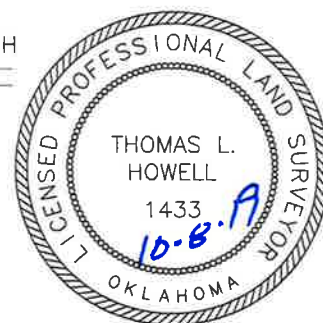
Date Staked: October 4, 2019

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.

Oklahoma Reg. No. 1433

This information was gathered with a GPS receiver with  $\pm 1$  foot Horiz./Vert. accuracy

DATUM: NAD-27  
 LAT:  $36^{\circ}31'38.7''$ N  
 LONG:  $100^{\circ}59'30.9''$ W  
 LAT:  $36.527430370^{\circ}$ N  
 LONG:  $100.991930408^{\circ}$ W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1121031  
 Y: 569552

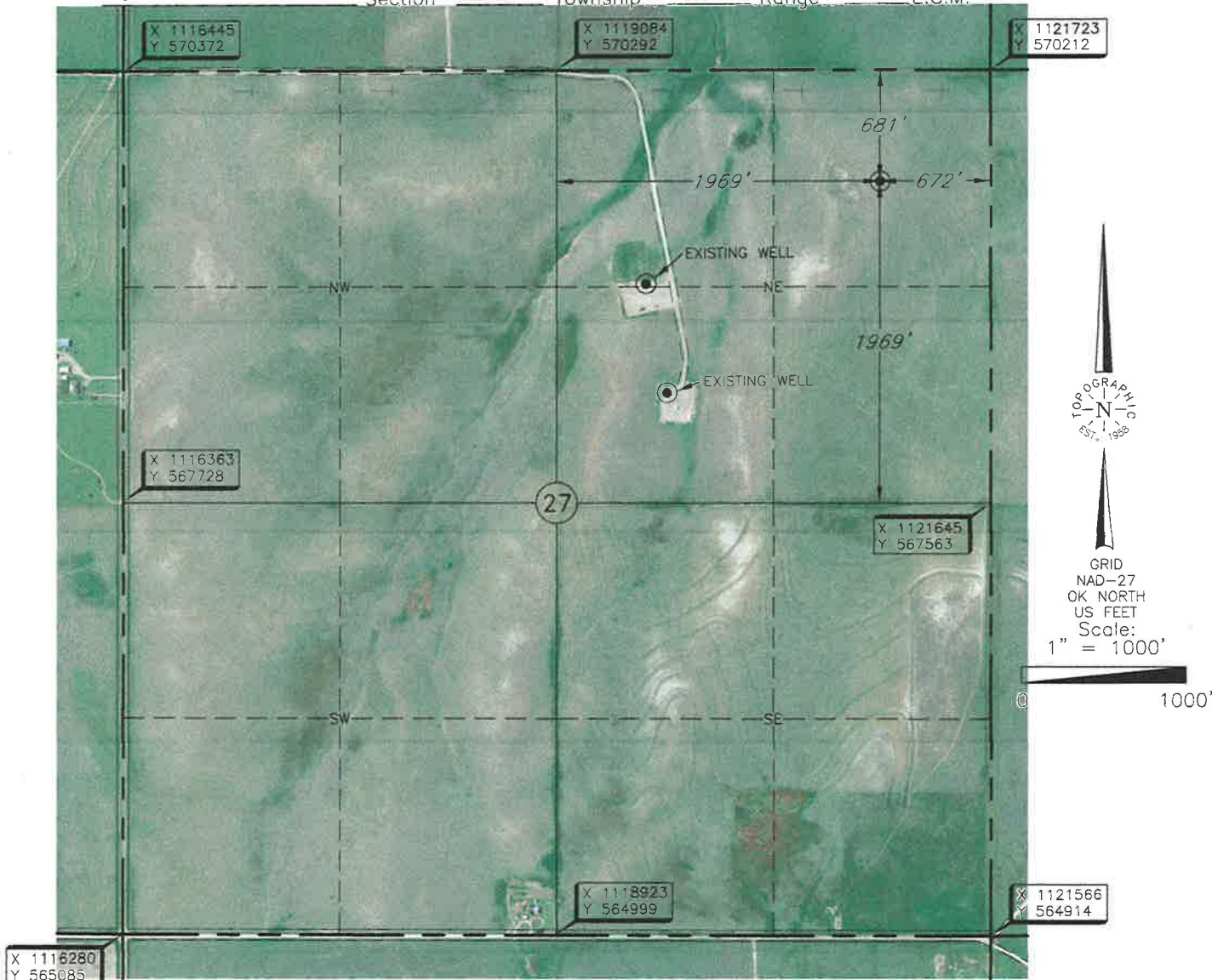
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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Certificate of Authorization No. 1293 LS

TEXAS

County, Oklahoma

681' FNL - 672' FEL Section 27 Township 1N Range 19E E.C.M.



THE INFORMATION SHOWN HEREIN IS  
FOR CONSTRUCTION PURPOSES ONLY

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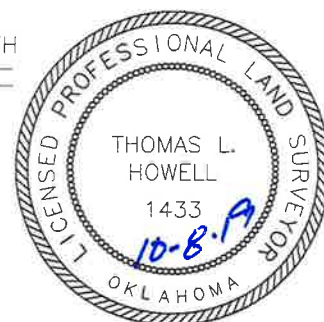
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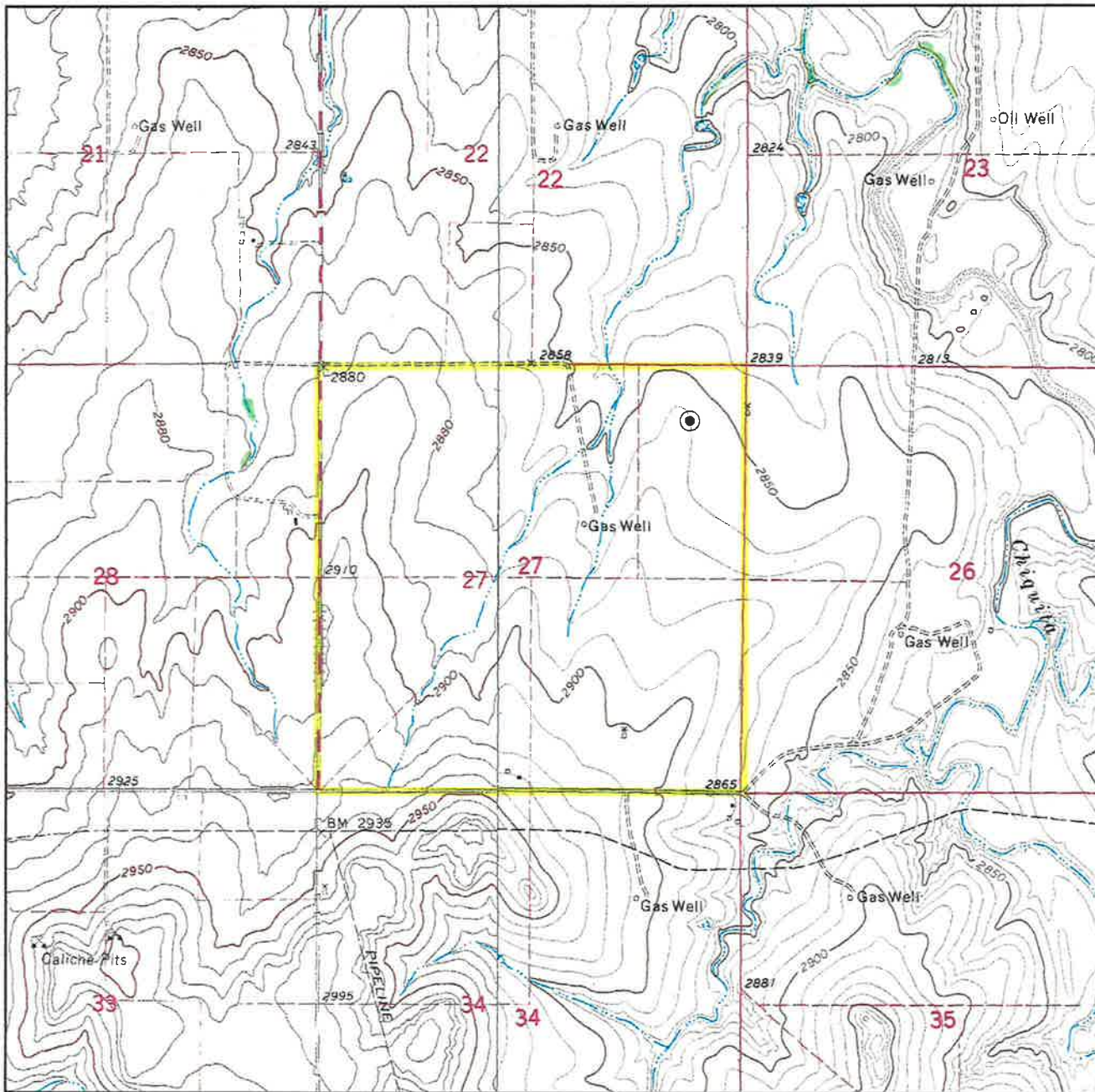
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way Oklahoma City, OK 73134 [www.topographic.com](http://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 681' FNL - 672' FEL

Lease SNITKER #5

Elevation 2860' 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

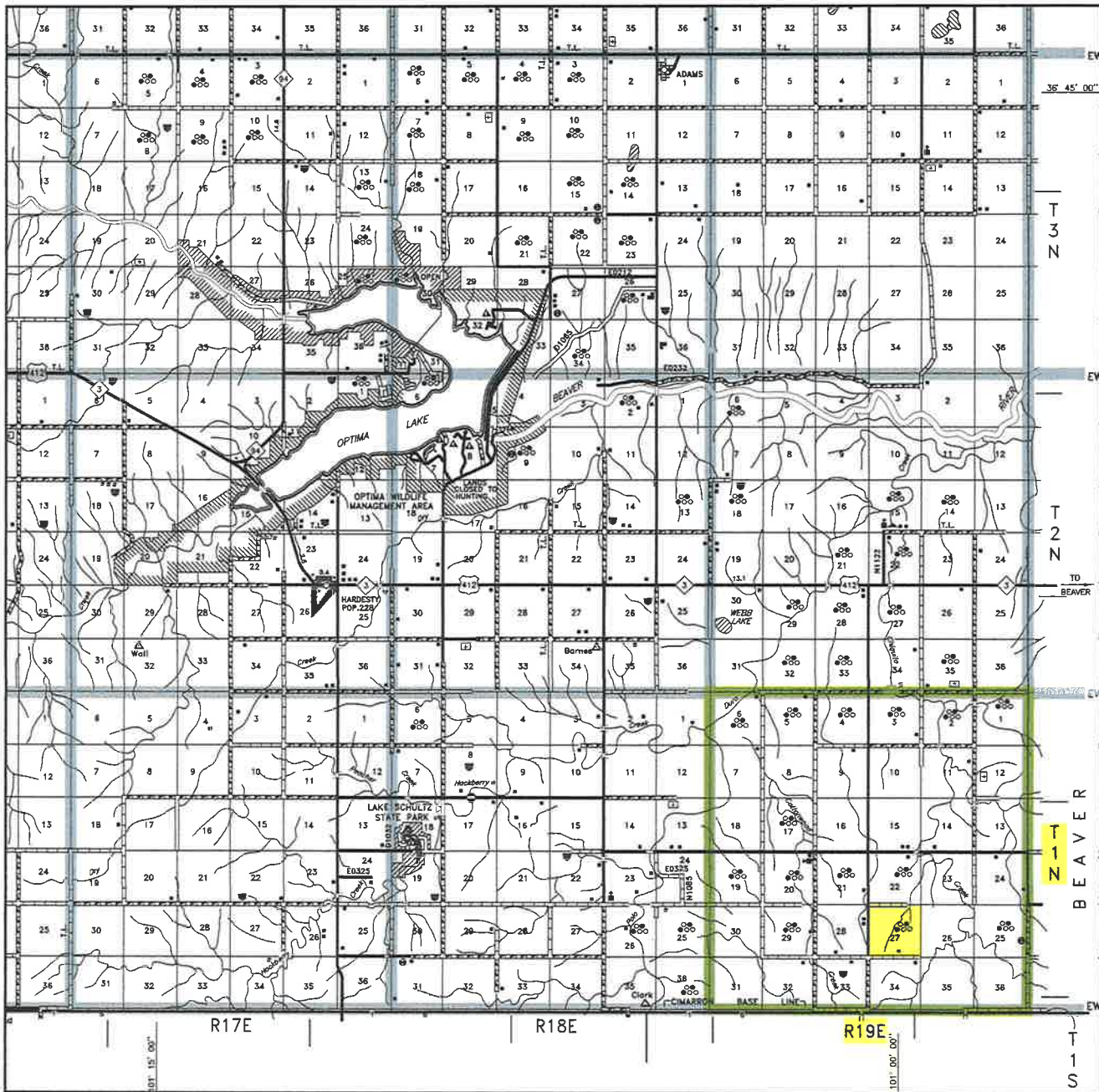
LAND SURVEYORS OF OKLAHOMA

October 4, 2019

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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



LAND SURVEYORS OF OKLAHOMA