

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

API NUMBER: 153 23634

Approval Date: 09/20/2018

Expiration Date: 03/20/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 20N Rge: 18W

County: WOODWARD

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 245 1895

Lease Name: HLC 25/36-20-18

Well No: 1H

Well will be 245 feet from nearest unit or lease boundary.

Operator Name: TAPSTONE ENERGY LLC

Telephone: 4057021600

OTC/OCC Number: 23467 0

TAPSTONE ENERGY LLC
100 E MAIN ST
OKLAHOMA CITY, OK 73104-2509

HEDGES LAND & CATTLE COMPANY, LLC
C/O 58331 S. CR 220
VICI OK 73859

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10650	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807069
201807066
201807067
201807068

Special Orders:

Total Depth: 18500

Ground Elevation: 1823

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 140

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: 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: RUSH SPRINGS

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

PERMIT NO: 18-35385

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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 36 Twp 20N Rge 18W County WOODWARD

Spot Location of End Point: C

Feet From: NORTH 1/4 Section Line: 2640

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 10039

Radius of Turn: 1000

Direction: 175

Total Length: 6890

Measured Total Depth: 18500

True Vertical Depth: 10650

End Point Location from Lease,
Unit, or Property Line: 2640

Notes:

Category

Description

DEEP SURFACE CASING

9/19/2018 - 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

9/19/2018 - 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

INTERMEDIATE CASING

9/19/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

9/19/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

153 23634 HLC 25/36-20-18 1H

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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
PENDING CD - 201807066	9/19/2018 - G57 - (E.O.)(640)(HOR) 25-20N-18W VAC 57549/57610 CRLM EXT 679616 MSSP POE TO BHL NLT 660' FB REC 9-14-2018 (P. PORTER)
PENDING CD - 201807067	9/19/2018 - G57 - (E.O.)(640)(HOR) 36-20N-18W VAC 119799 MSCST EXT 679616 MSSP POE TO BHL NLT 660' FB REC 9-14-2018 (P. PORTER)
PENDING CD - 201807068	9/19/2018 - G57 - (E.O.) 25 & 36-20N-18W EST MULTIUNIT HORIZONTAL WELL X201807066 MSSP 25-20N-18W X201807067 MSSP 36-20N-18W 50% 25-20N-18W 50% 36-20N-18W TAPSTONE ENERGY, LLC. REC 9-14-2018 (P. PORTER)
PENDING CD - 201807069	9/19/2018 - G57 - (E.O.) 25 & 36-20N-18W X201807066 MSSP 25-20N-18W X201807067 MSSP 36-20N-18W COMPL. INT. (25-20N-18W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FWL COMPL. INT. (36-20N-18W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FWL TAPSTONE ENERGY, LLC. REC 9-14-2018 (P. PORTER)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

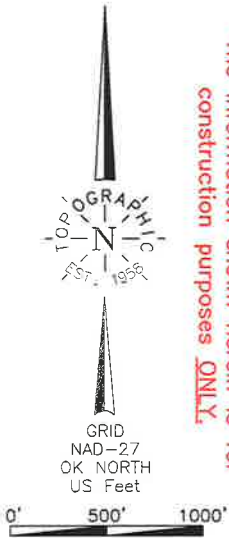
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

API:153 23634

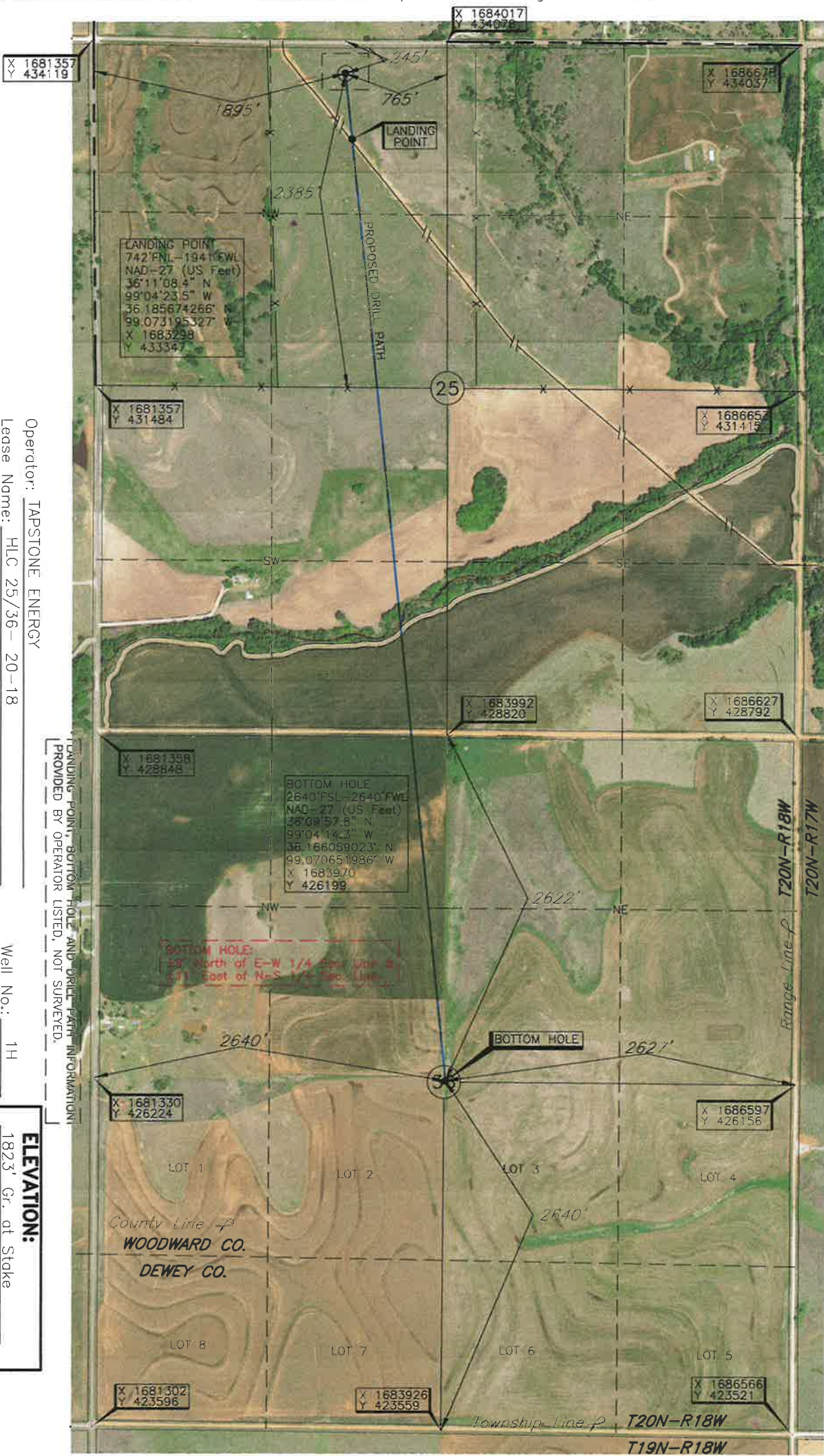
WOODWARD

County, Oklahoma

245'FNL - 1895'FWL Section 25 Township 20N Range 18W I.M.



NOTE:
The information shown herein is for
construction purposes ONLY.



Operator: TAPSTONE ENERGY
Lease Name: HLC 25/36-20-18
Topography & Vegetation Loc. fell in terraced pasture between 2 NW-SE pipeline
Good Drill Site? Yes
Reference Stakes or Alternate Location
Stakes Set None
Best Accessibility to Location From North off county road
Distance & Direction From Jct. US Hwy. 183 and US Hwy. 270 NW-SE, go \pm 8.0 mi. NW on US Hwy. 270, then \pm 2.0 mi. South on paved road to the NW Cor. of Sec. 25-T20N-R18W
Well No.: 1H
ELEVATION: 1823' Gr. at Stake

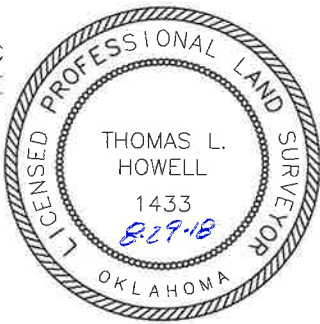
DATUM: NAD-27
LAT: 36°11'13.3"N
LONG: 99°04'24.1"W
LAT: 36.187040285° N
LONG: 99.073372494° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1683252
Y: 433845

Invoice # 300822 Date of Drawing: Aug. 28, 2018
Date Staked: Aug. 24, 2018

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



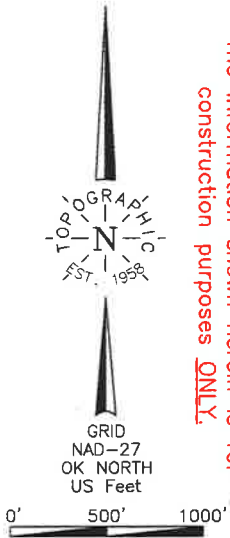
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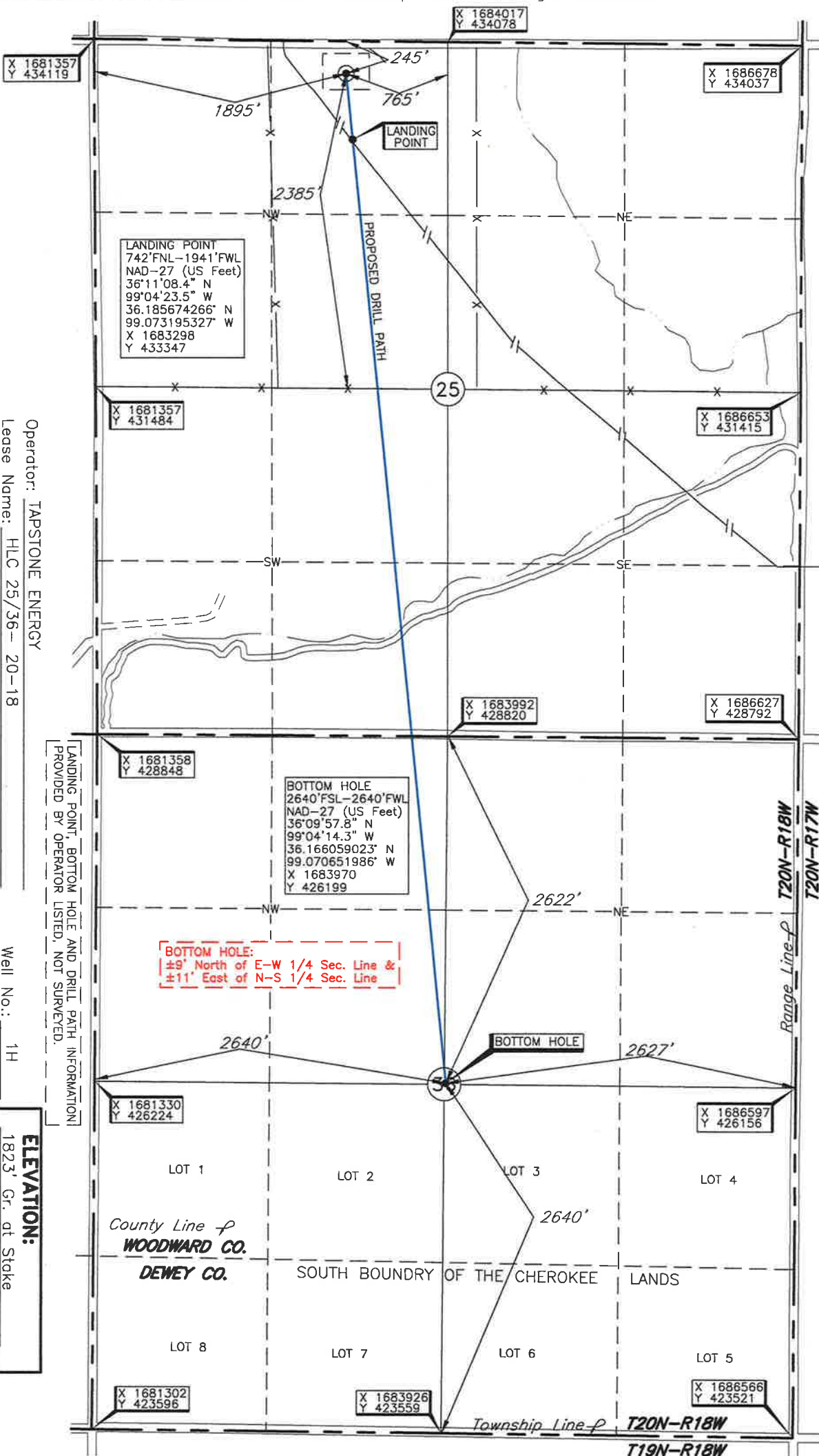
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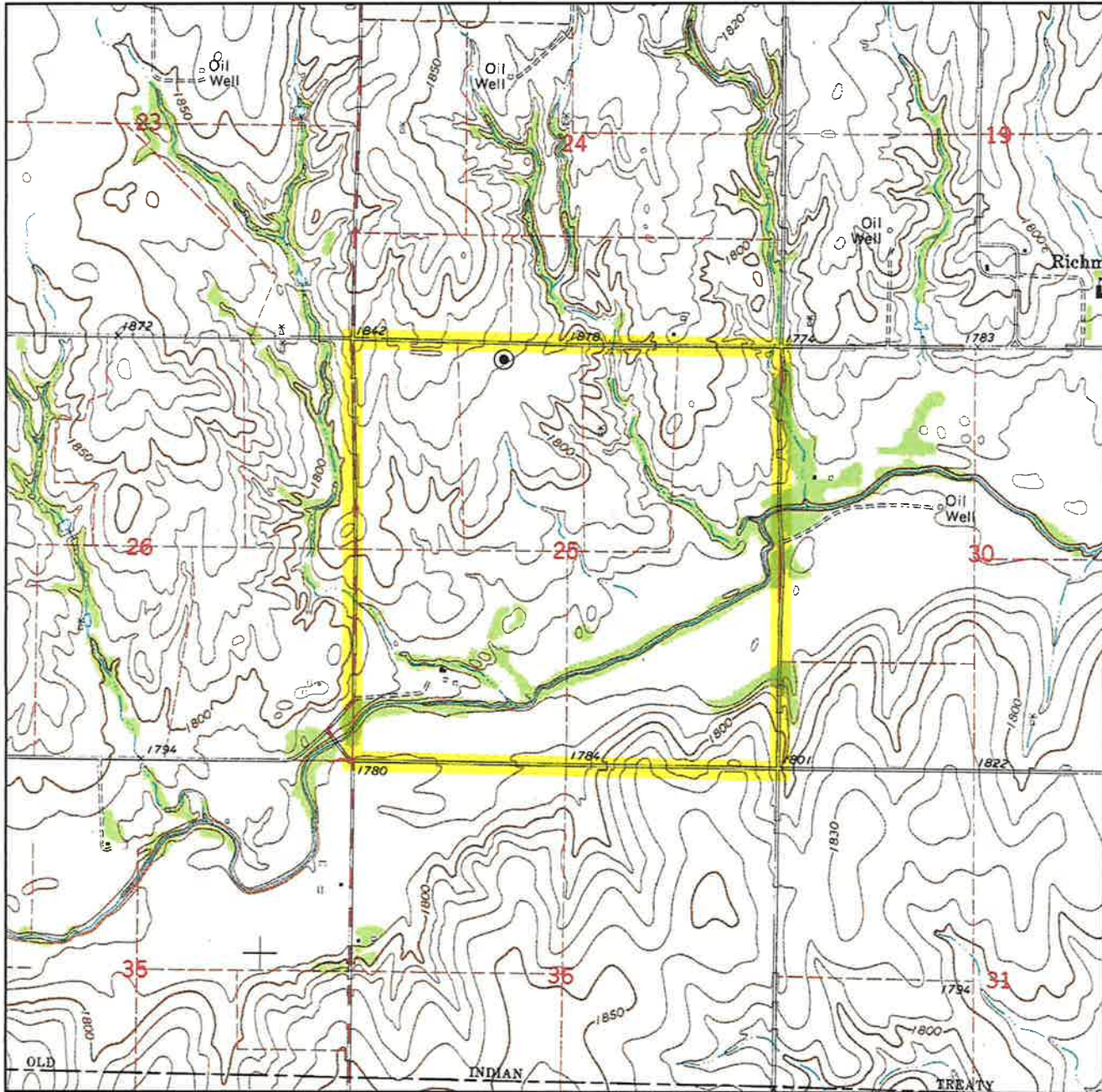


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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 25 Twp. 20N Rng. 18W IM

County WOODWARD State OK

Operator TAPSTONE ENERGY

Description 245'FNL - 1895'FWL

Lease HLC 25/36- 20-18 1H

Elevation 1823' 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.



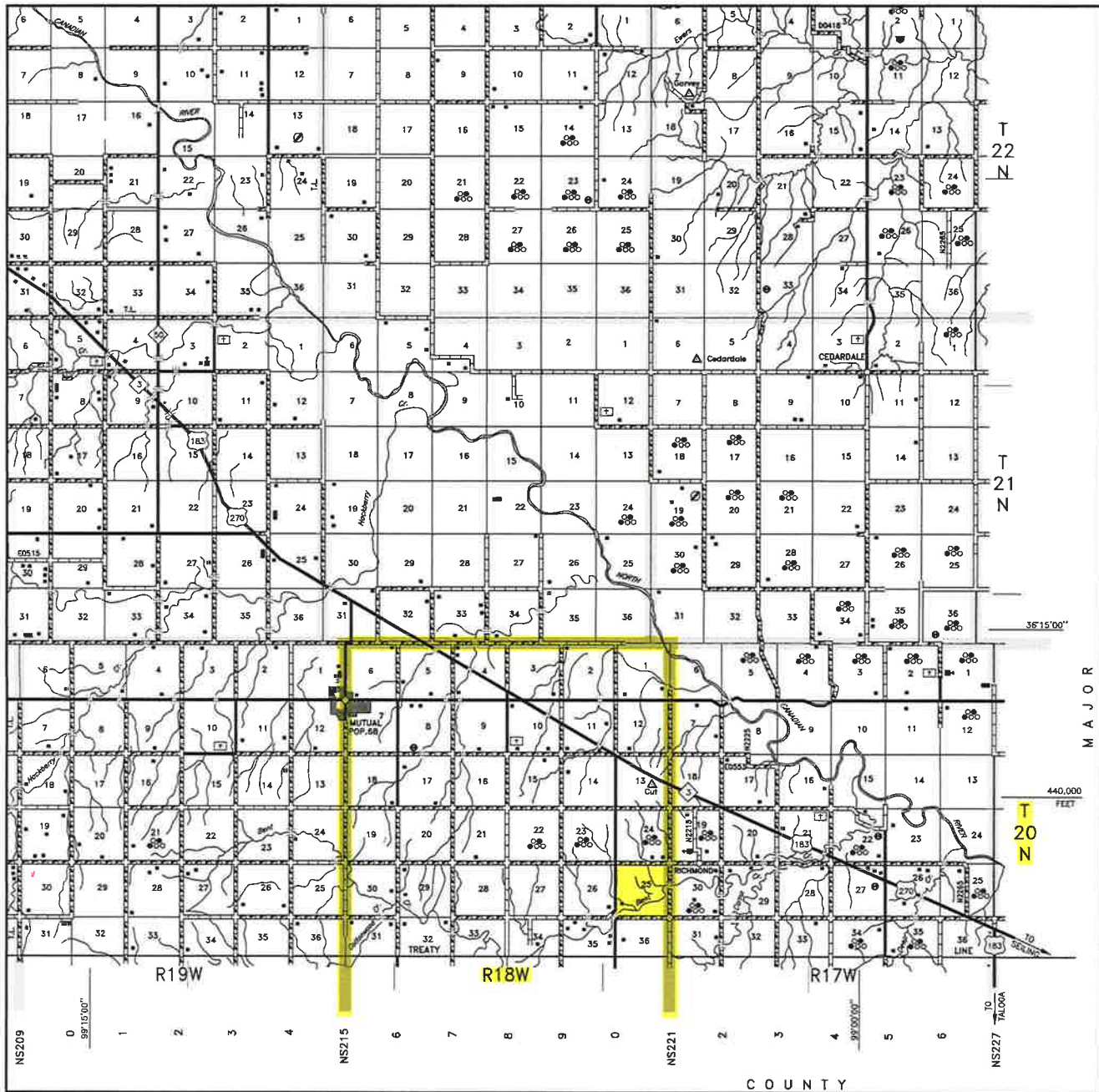
LAND SURVEYORS OF OKLAHOMA

Aug. 24, 2018

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 25 Twp. 20N Rng. 18W IM

County WOODWARD State OK

Operator TAPSTONE ENERGY



LAND SURVEYORS OF OKLAHOMA

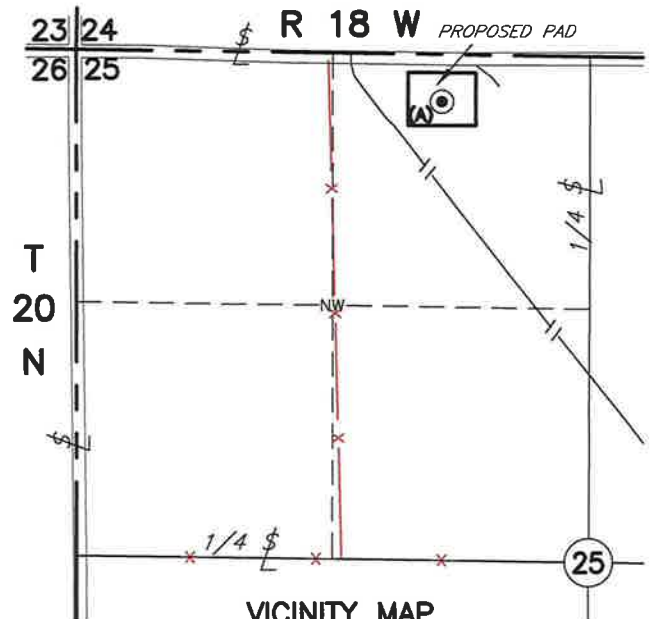
T 20 N - R 18 W (INDIAN MERIDIAN)

PLAT SHOWING
PROPOSED PAD AREA IN THE
NW/4 OF SEC. 25, T20N - R18W,
WOODWARD COUNTY, OKLAHOMA

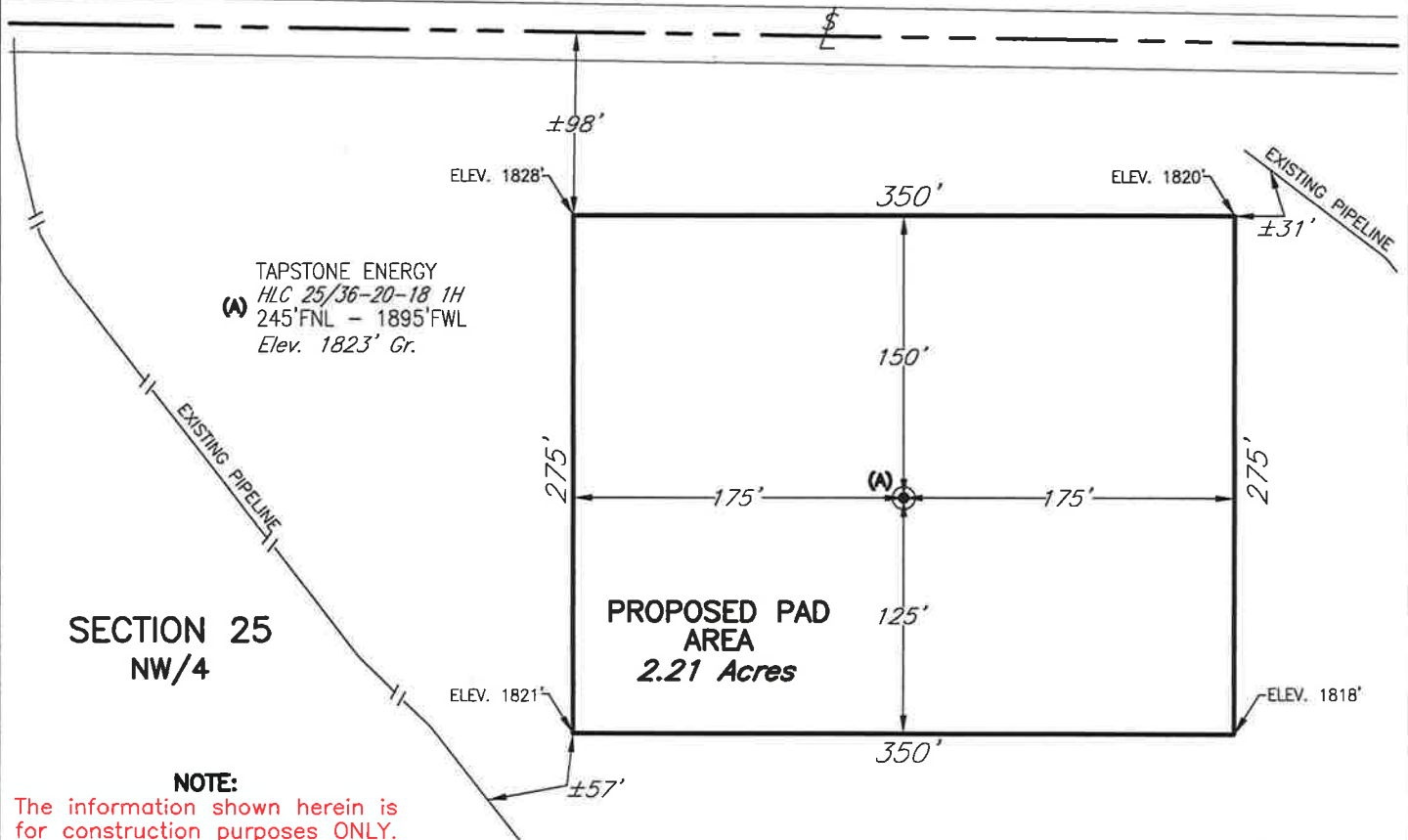


GRID
NAD-27
OK NORTH
US Feet

0' 50' 100'



VICINITY MAP
Scale: 1" = 1000'



				This plat was prepared exclusively for TAPSTONE ENERGY and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 Certificate of Authorization No. 1293 LS	SCALE: 1"=100'
					DATE: 8/28/18
NO.	REVISION	DATE	BY		INVOICE NO.: 300822
SUR. BY:	RL	8/24/18			FILE NAME: L2197A.DWG
DRAWN BY:	AC				DWG NO.:120010-L2-197-A
APPROVED BY:	TH				SHEET 1 OF 1