

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

API NUMBER: 043 23708 A

Approval Date: 08/14/2019

Expiration Date: 02/14/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 19N Rge: 14W

County: DEWEY

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 200 2055

Lease Name: W. POLLOCK FED 24/13-19-14

Well No: 2H

Well will be 200 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

POLLOCK LAND AND CATTLE, LLC
P. O. BOX 667
CANTON OK 73724

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	9250	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 686480

Location Exception Orders: 694674

Increased Density Orders:

Pending CD Numbers: 201901585
201807697

Special Orders:

Total Depth: 20000

Ground Elevation: 1684

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 160

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 19-36838

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 13 Twp 19N Rge 14W County DEWEY

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 9012

Radius of Turn: 477

Direction: 350

Total Length: 10238

Measured Total Depth: 20000

True Vertical Depth: 9458

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

7/29/2019 - 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

7/29/2019 - 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

INTERMEDIATE CASING

7/29/2019 - 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

LOCATION EXCEPTION - 694674

8/12/2019 - GC0 - (I.O.) 13 & 24-19N-14W
X686480 MSNLC
COMPL. INT. (24-19N-14W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL
COMPL. INT. (13-19N-14W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL
TAPSTONE ENERGY
4/15/2019

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

043 23708 W. POLLOCK FED 24/13-19-14 2H

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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
MEMO	7/29/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201807697	8/13/2019 - GC0 - NPT PARAGRAPH #6B OF 686480 THAT STATED 640 ACRE HOR TO REFLECT 1280 ACRE HOR
PENDING CD - 201901585	8/12/2019 - GC0 - 13 & 24-19N-14W X686480 MSNLC 3 WELLS TAPSTONE ENERGY REC 4/02/2019 (MILLER)
SPACING - 686480	8/12/2019 - GC0 - (1280*)(HOR) 13 & 24-19N-14W VAC #121423 MSSSD EST MSNLC COMPL. INT. NCT 660' FB *NPT TO CORRECT TYPO OF (640) TO (1280) IN SPACING ORDER PER ATTORNEY FOR OP. AND COPY HAS BEEN REVIEWED BY OCC

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

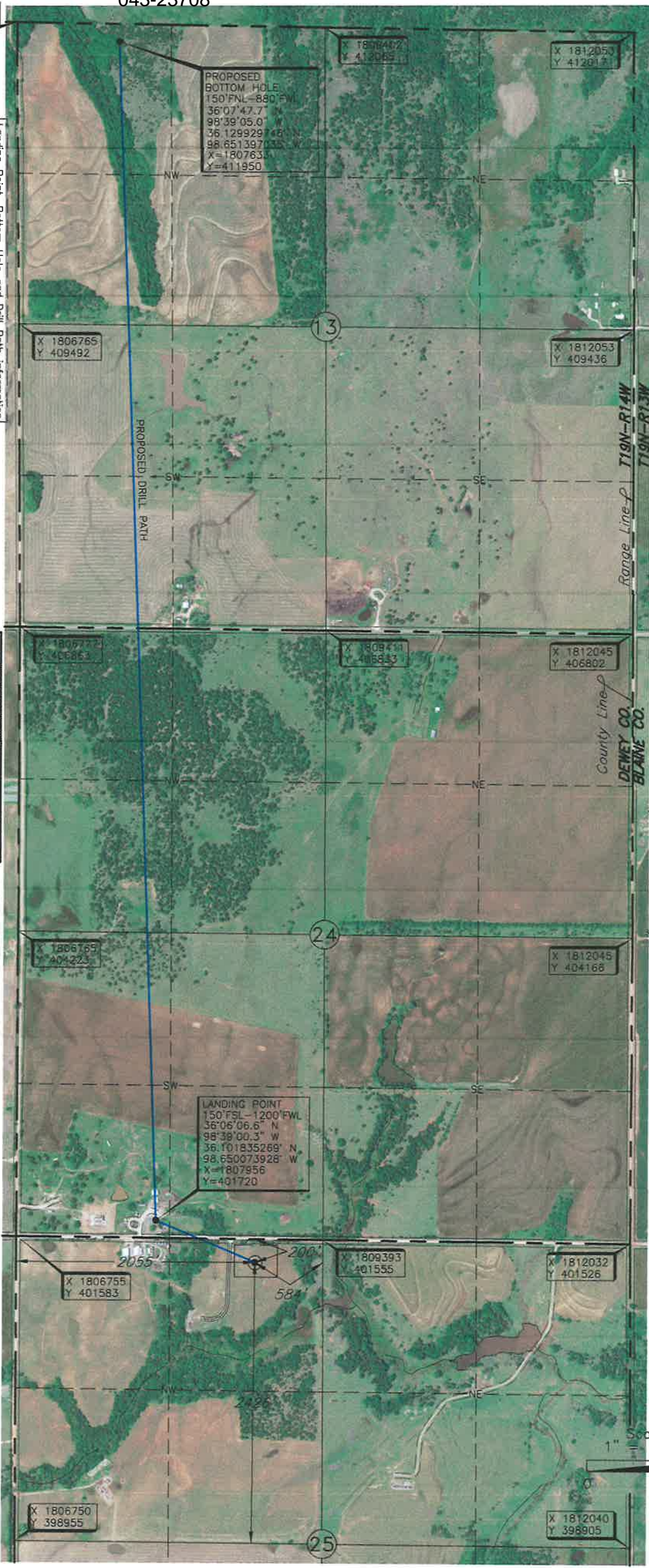
DEWEY Certificate of Authorization No. 1293 LS

County, Oklahoma

200' FNL - 2055' FWL Section 25 Township 19N Range 14W 1.M.



Scale: 1" = 1000'



PROPOSED
BOTTOM HOLE
150' FNL - 880' FWL
36°07'47.7" N
98°39'05.0" W
36 129929746 N
98 651397135 W
X=180763
Y=411950

LANDING POINT
150' FSL - 1200' FWL
36°06'06.6" N
98°38'00.3" W
36 101835269 N
98 650073928 W
X=1807956
Y=401720

Landing Point, Bottom Hole and Drill Path information
[provided by operator listed, NOT Surveyed.]

ELEVATION:
1684' Gr. at Stake

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY

Revision ☒ C Date of Drawing: July 18, 2019 KH
Project # 123400A Date Staked: Jan. 25, 2019

CERTIFICATE:

I, Dan W. Rogers, on Oklahoma
Licensed Land Surveyor and an authorized agent
of Topographic Land Surveyors of Oklahoma, do
hereby certify to the information shown herein.

Dan W. Rogers
Oklahoma Lic. No. 1200



Operator: TAPSTONE ENERGY
Lease Name: W POLLOCK FED 24/13 - 19-14
Well No.: 2H
Topography & Vegetation Loc. fell in wheat field, with East slope, ±175 South of E-W fence.
Good Drill Site? Yes
Reference Stakes or Alternate Location
Stakes Set None
Best Accessibility to Location From North off county road.
Distance & Direction From the junction of St. Hwy 51 and the Dewey/Blaine County line,
from Hwy Jct or Town go West ±1 mile, then North ±3 miles to the Northwest corner of Section 25, T19-R14W.

DATUM: NAD-27
LAT: 36°06'03.1"N
LONG: 98°38'49.8"W
LAT: 36.100863811°N
LONG: 98.647175924°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1808809
Y: 401361

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

200' FNL - 2055' FWL Section 25 Township 19N Range 14W I.M.

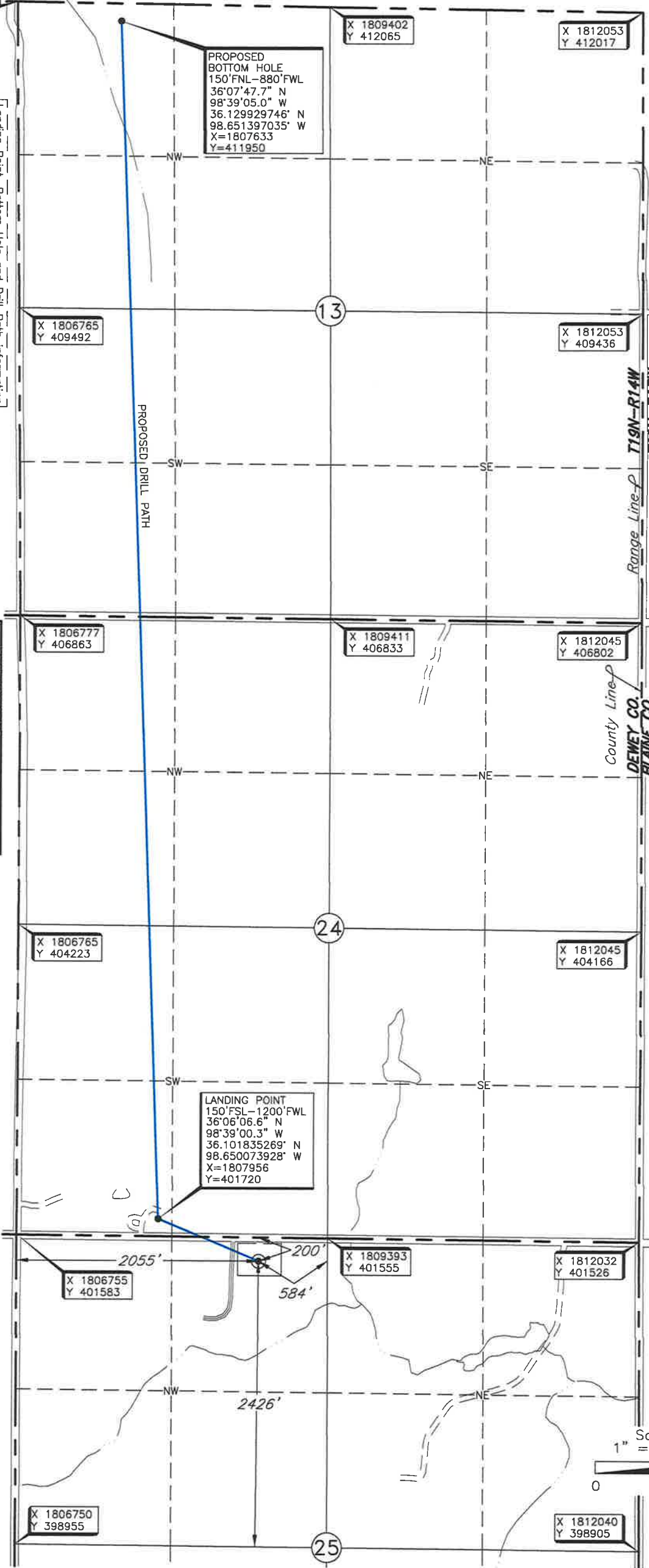
MC1N-R11W
T19N-R14W
Range Line
County Line
DEWEY CO. OKLA.



GRID
NAD-27
OK NORTH
US FEET

Scale:
1" = 1000'

0 1000'



PROPOSED
BOTTOM HOLE
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36°07'47.7" N
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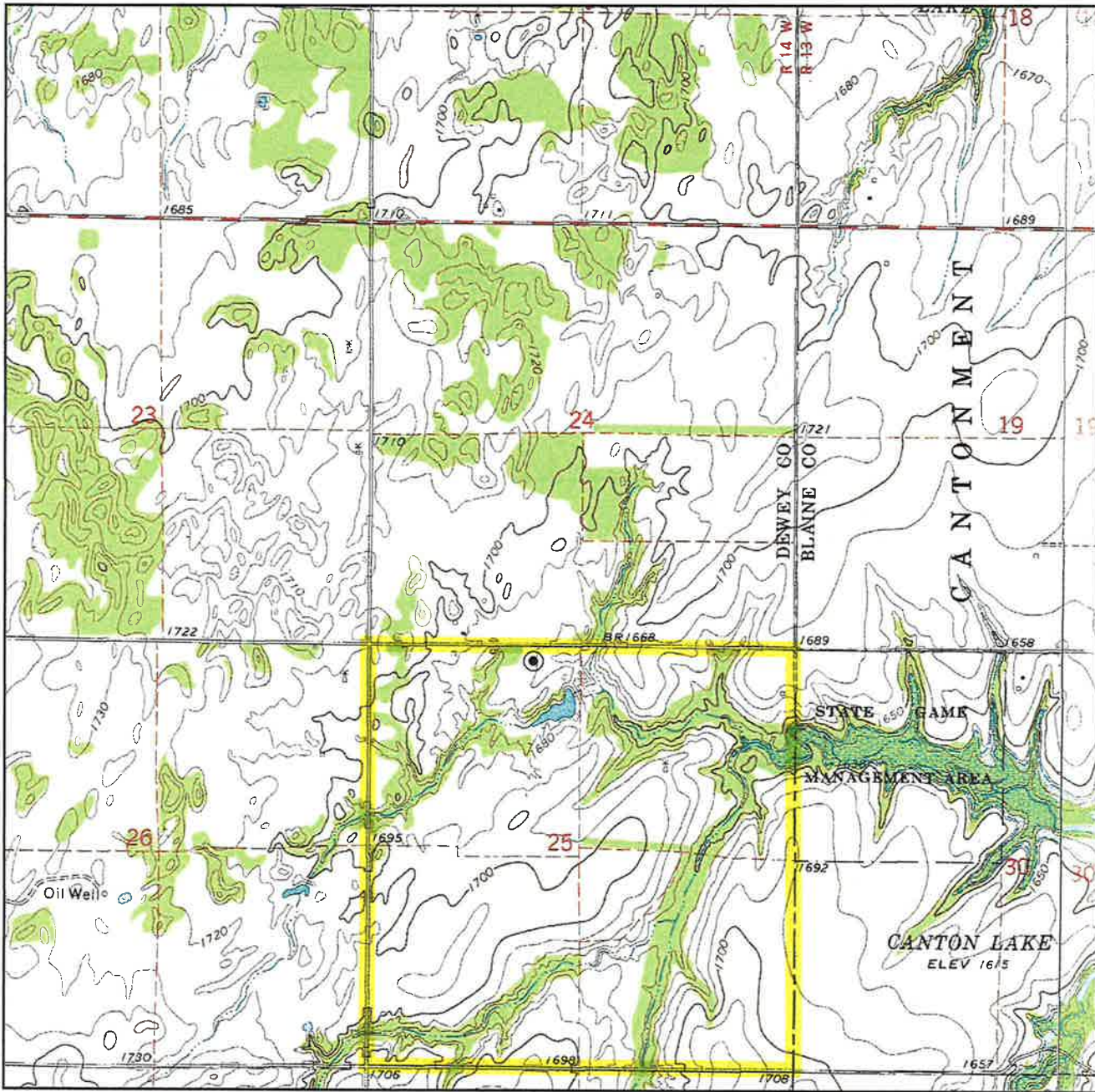
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 25 Twp. 19N Rng. 14W I.M.

County DEWEY State OK

Operator TAPSTONE ENERGY

Description 200'FNL-2055'FWL

Lease W POLLOCK FED 24/13 - 19-14 2H

Elevation 1684' 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

Jan. 25, 2019

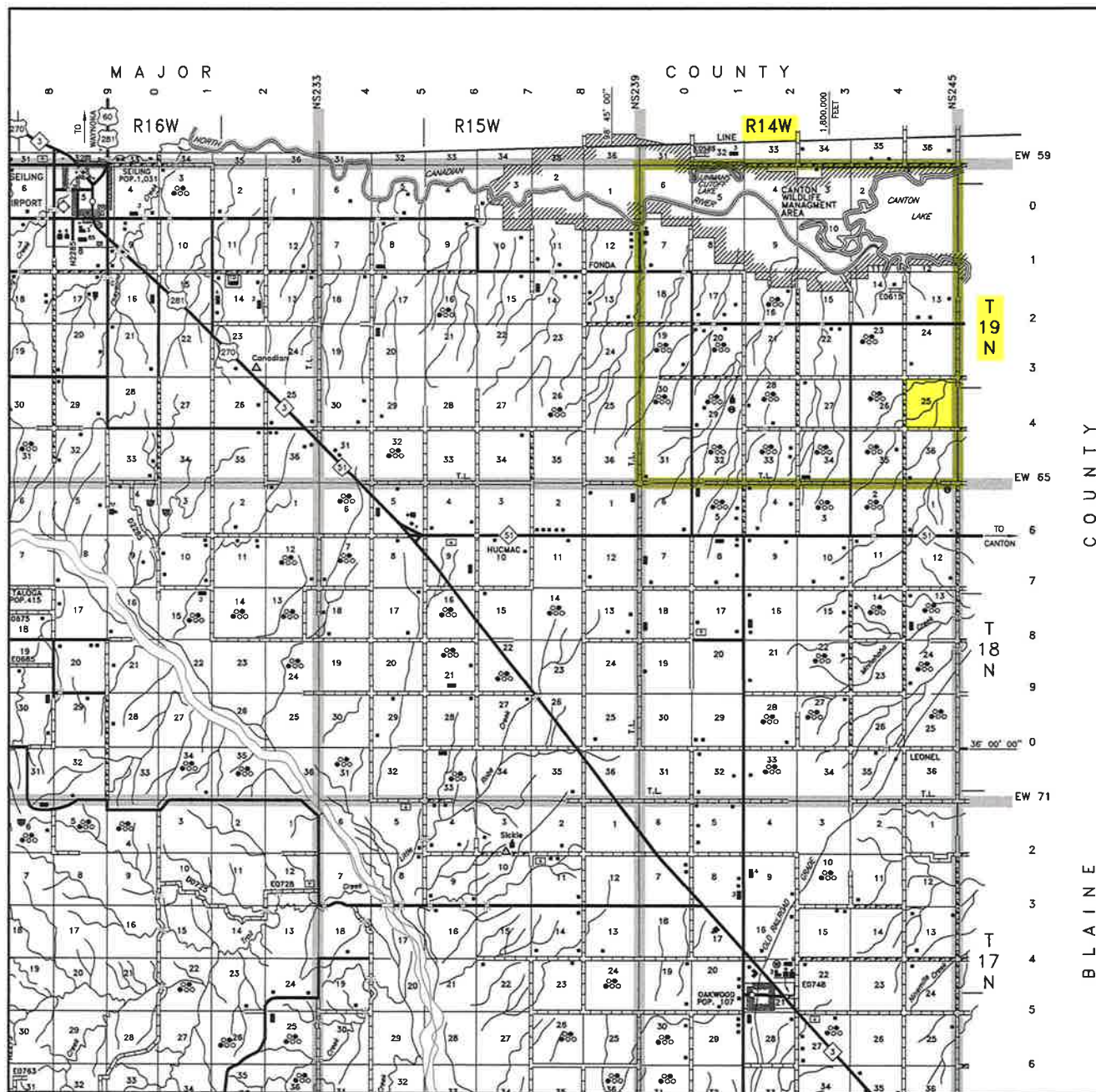
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 25 Twp. 19N Rng. 14W I.M.

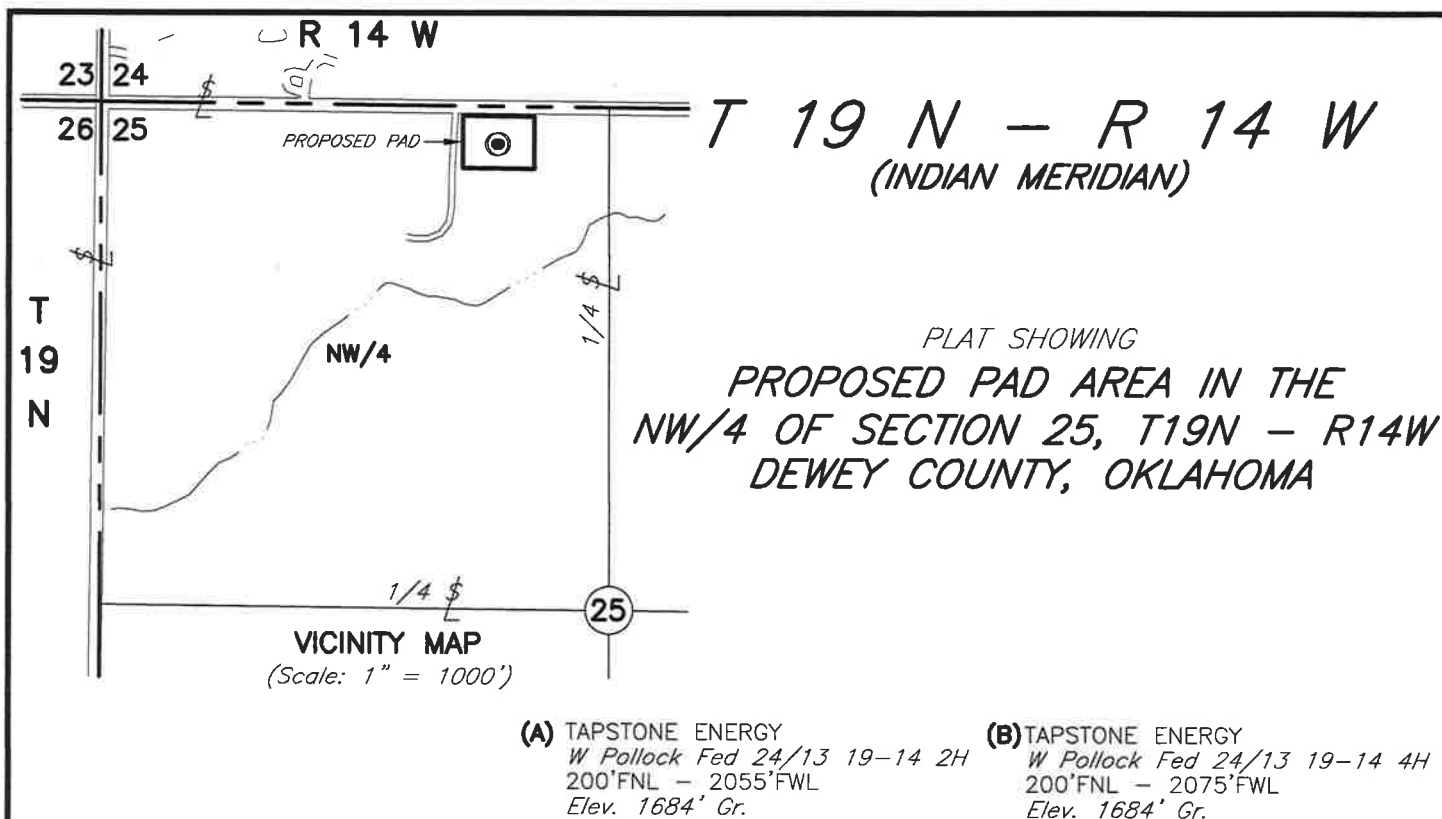
County DEWEY State OK

Operator TAPSTONE ENERGY



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA



				<p>This plot was prepared exclusively for</p> <p>TAPSTONE ENERGY</p> <p>and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.</p> <p><i>SURVEYING AND MAPPING BY</i></p> <p>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</p> <p><i>13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847</i></p> <p><i>Certificate of Authorization No. 1293 LS</i></p>	SCALE: 1" = 100'
NO.	REVISION	DATE	BY		DATE: 1-31-19
SURV. BY: PJ 1-25-19					PROJECT NO.: 123400
DRAWN BY: KH					FILE NAME: L2220A.DWG
APPROVED BY: TH					DRAWING NO.: 120010-L2-220-A
					SHEET 1 OF 1