

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

API NUMBER: 043 23639

Approval Date: 06/26/2018

Expiration Date: 12/26/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 19N Rge: 17W

County: DEWEY

SPOT LOCATION:

NE

NE

NW

NW

FEET FROM QUARTER: FROM

NORTH

FROM

WEST

SECTION LINES:

265

1180

Lease Name: DONELL 29/20-19-17

Well No: 2H

Well will be 265 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

BONNIE JOAN THAXTON  
P. O. BOX 131  
ARDMORE OK 73402

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11400	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 132649  
647686

Location Exception Orders: 679216

Increased Density Orders:

Pending CD Numbers: 201803835  
201803833  
201803834

Special Orders:

Total Depth: 21500

Ground Elevation: 1960

Surface Casing: 470

Depth to base of Treatable Water-Bearing FM: 320

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: 18-34677

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 20 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 195

Feet From: WEST 1/4 Section Line: 1350

Depth of Deviation: 10278

Radius of Turn: 750

Direction: 2

Total Length: 10044

Measured Total Depth: 21500

True Vertical Depth: 11400

End Point Location from Lease,  
Unit, or Property Line: 195

Notes:

Category

Description

HYDRAULIC FRACTURING

6/8/2018 - G58 - 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](http://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](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

6/8/2018 - G58 - 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 - 679216

6/8/2018 - G58 - (I.O.) 29 & 20-19N-17W  
X647686 MSSP (29-19N-17W)  
X132649 MRMOG (20-19N-17W)  
COMPL. INT. (29-19N-17W) NCT 165' FSL, NCT 0' FNL, NCT 660' FWL  
COMPL. INT. (20-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 660' FWL  
TAPSTONE ENERGY, LLC  
6/13/2018

MEMO

6/8/2018 - G58 - 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.

043 23639 DONELL 29/20-19-17 2H

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.

Category	Description
PENDING CD - 201803833	6/8/2018 - G58 - 20-19N-17W X132649 MRMOG 1 WELL NO OP. NAMED REC 6/5/2018 (DENTON)
PENDING CD - 201803834	6/8/2018 - G58 - 29-19N-17W X647686 MSSP 1 WELL NO OP. NAMED REC 6/5/2018 (DENTON)
PENDING CD - 201803835	6/8/2018 - G58 - (I.O.) 29 & 20-19N-17W EST MULTIUNIT HORIZONTAL WELL X647686 MSSP (29-19N-17W) X132649 MRMOG (20-19N-17W) 50% 29-19N-17W 50% 20-19N-17W NO OP. NAMED REC 6/12/2018 (FOREMAN)
SPACING - 132649	6/8/2018 - G58 - (640) 20-19N-17W EXT 126186 MRMOG
SPACING - 647686	6/8/2018 - G58 - (640)(HOR) 29-19N-17W VAC 54296 CRLM VAC 217107 MSSLM EST MSSP COMPL. INT NLT 660' FB

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

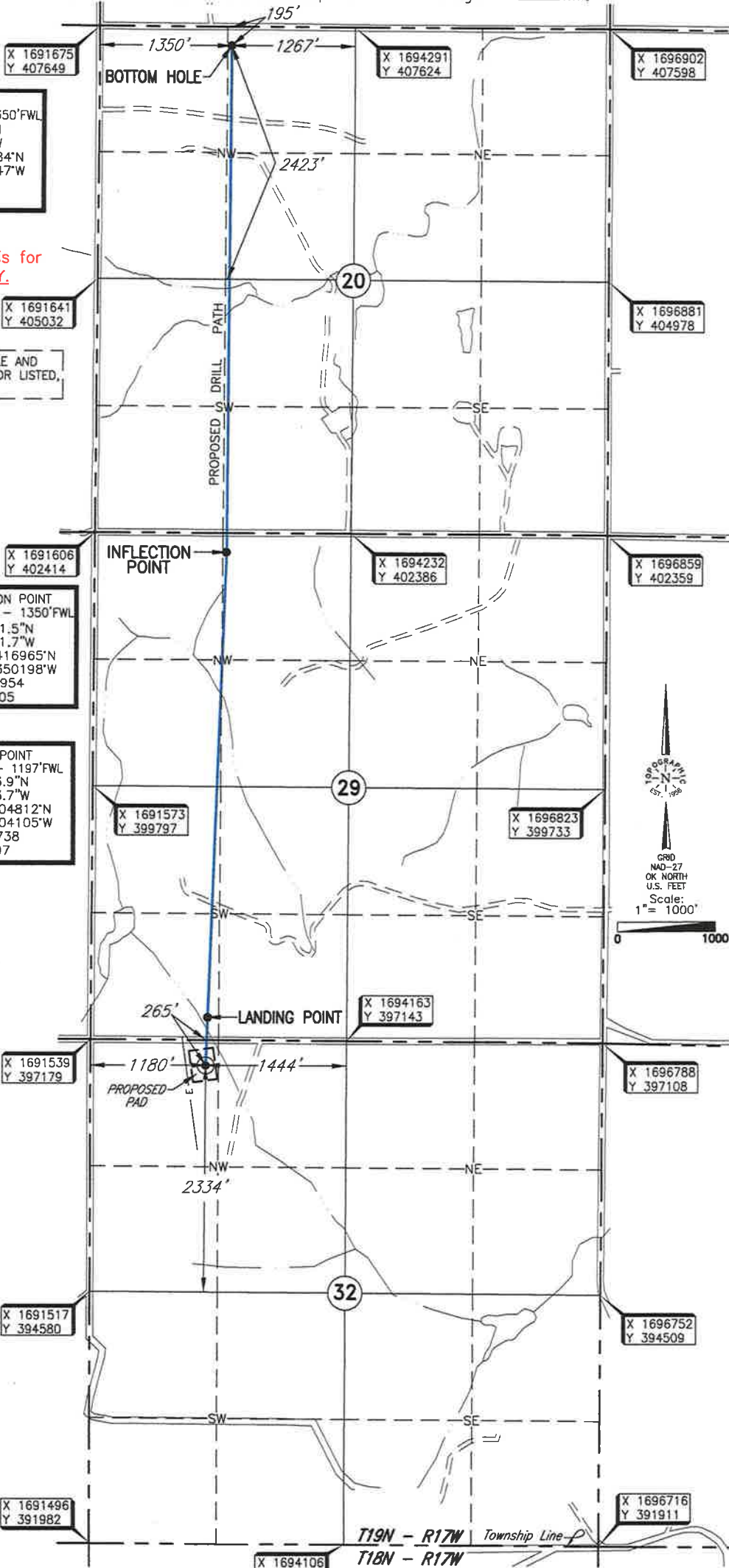
Certificate of Authorization No. 1293 LS

DEWEY

County, Oklahoma

043-23639

265'FNL - 1180'FWL Section 32 Township 19N Range 17W I.M.



**BOTTOM HOLE**  
195'FNL - 1350'FWL  
36°06'53.3"N  
99°02'21.5"W  
36.114802384°N  
99.039306747°W  
X 1693023  
Y 407441

X 1691675  
Y 407649

X 1694291  
Y 407624

X 1696902  
Y 407598

X 1691641  
Y 405032

X 1696881  
Y 404978

LANDING POINT, INFLECTION POINT, BOTTOM HOLE AND  
DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED,  
NOT SURVEYED.

X 1691606  
Y 402414

X 1694232  
Y 402386

X 1696859  
Y 402359

**INFLECTION POINT**  
195'FNL - 1350'FWL  
36°06'01.5"N  
99°02'21.7"W  
36.100416965°N  
99.039350198°W  
X 1692954  
Y 402205

**LANDING POINT**  
235'FSL - 1197'FWL  
36°05'13.9"N  
99°02'23.7"W  
36.087204812°N  
99.039904105°W  
X 1692738  
Y 397397

X 1691573  
Y 399797

X 1696823  
Y 399733

X 1694163  
Y 397143

X 1691539  
Y 397179

X 1696788  
Y 397108

X 1691517  
Y 394580

X 1696752  
Y 394509

X 1691496  
Y 391982

X 1696716  
Y 391911

X 1694106  
Y 391946

T19N - R17W Township Line  
T18N - R17W



**-NOTE-**  
The information shown herein is for  
construction purposes ONLY.

Operator: TAPSTONE ENERGY  
Lease Name: DONELL 29/20-19-17  
Topography & Vegetation Location fell in terraced wheat field 200' East of buried powerline.  
Good Drill Site? Yes  
Reference Stakes or Alternate Location  
Stakes Set None  
Best Accessibility to Location From North off county road.  
Distance & Direction From Seiling, OK, go ±4.0 mi. West on St. Hwy. 51, then ±4.0 mi. South to the NE Cor. of Sec. 32-T19N-R17W.  
Well No.: 2H  
**ELEVATION:**  
1960' Gr. at Stake

DATUM: NAD-27  
LAT: 36°05'09.0"N  
LONG: 99°02'23.9"W  
LAT: 36.085832035°N  
LONG: 99.039961647°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1692716  
Y: 396898

Date of Drawing: April 30, 2018  
Invoice # 292947 Date Staked: April 27, 2018 RKM

## 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





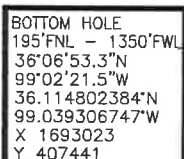
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Certificate of Authorization No. 1293 LS

DEWEY

County, Oklahoma

265'FNL - 1180'FWL Section 32 Township 19N Range 17W L.M.



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LANDING POINT, INFLECTION POINT, BOTTOM HOLE AND  
DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED,  
NOT SURVEYED.

INFLECTION POINT  
195°FNL - 1350°FWL  
36°06'01.5"N  
99°02'21.7"W  
36.100416965°N  
99.039350198°W  
X 1692954  
Y 402205

LANDING POINT  
235° FSL - 1197° FW  
36° 05' 13.9" N  
99° 02' 23.7" W  
36.087204812° N  
99.039904105° W  
X 1692738  
Y 397397

**ELEVATION:**

1960' Gr. at Stake

Operator: TAPSTONE ENERGY  
Lease Name: DONELL 29/2/2  
Topography & Vegetation Low  
Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From North off county road

From Selving, OK, go  $\pm 4.0$  mi. West on St. Hwy. 51, then  $\pm 4.0$  mi. South to the NE Cor. of Sec. 32-T19N-R17W.

Date of Drawing: April 30, 2018

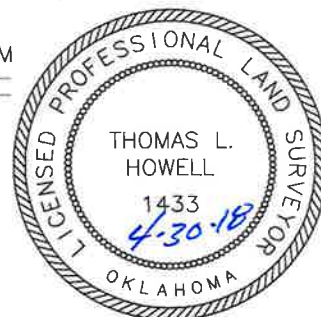
Invoice # 292947

Date Staked: April 27, 2018

RKM

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

Home L.L.P.  
Oklahoma Lic. No. 1433



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

DATUM: NAD-27  
LAT: 36°05'09.0"N  
LONG: 99°02'23.9"W  
LAT: 36.085832035°N  
LONG: 99.039961647°W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1692716  
Y: 396898



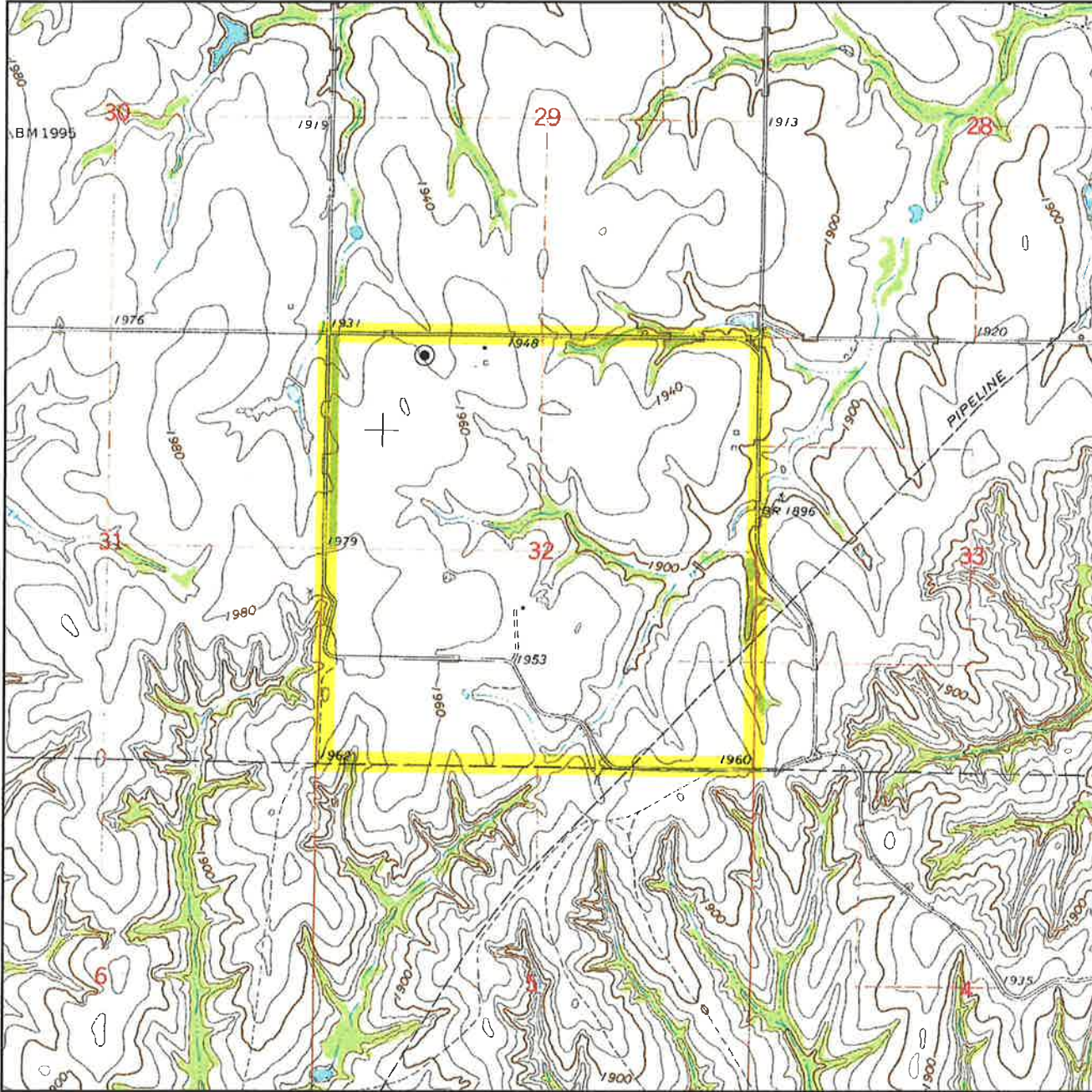
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 32 Twp. 19N Rng. 17W IM

County DEWEY State OK

Operator TAPSTONE ENERGY

Description 265'FNL - 1180'FWL

Lease DONELL 29/20-19-17 2H

Elevation 1960' Gr. at Stake

Above Background Data from  
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 20'

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

April 27, 2018



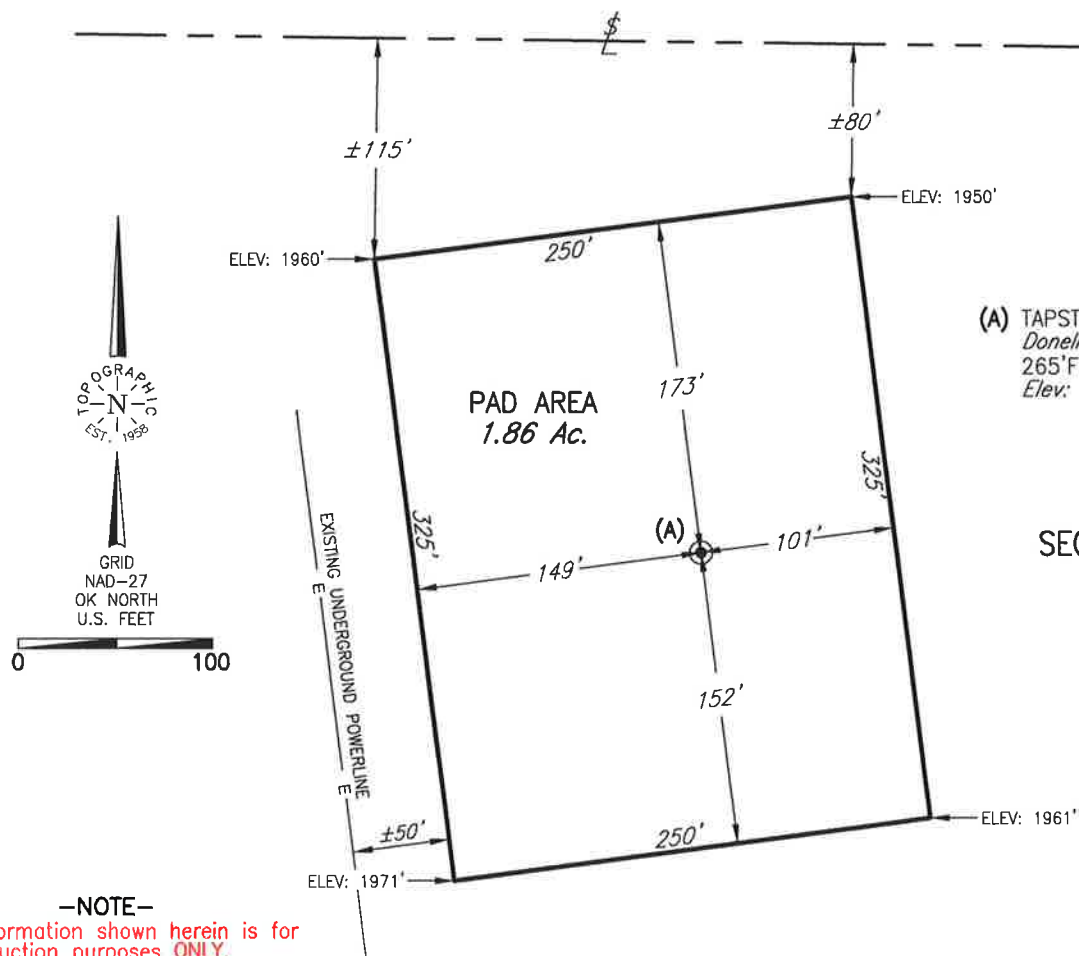
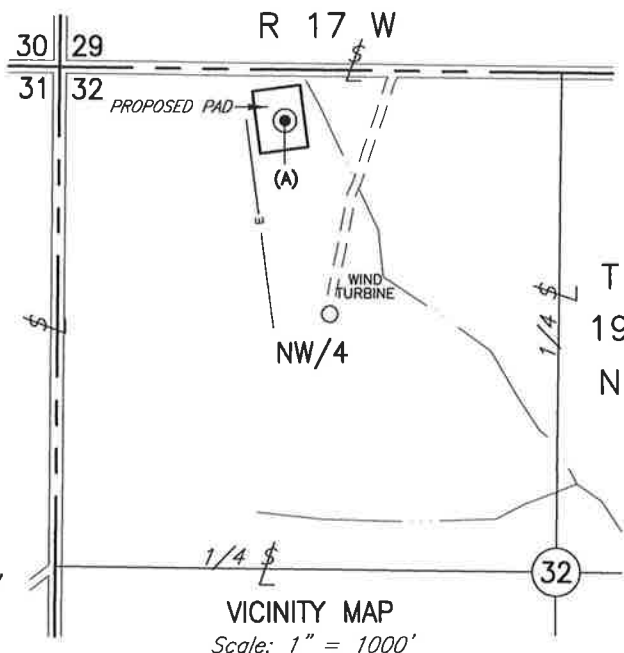
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LAND SURVEYORS OF OKLAHOMA

(INDIAN MERIDIAN)



PLAT SHOWING  
PROPOSED PAD AREA IN THE  
NW/4 OF SECTION 32, T19N - R17W  
DEWEY COUNTY, OKLAHOMA



-NOTE-

The information shown herein is for construction purposes ONLY.

				This plat was prepared exclusively for		SCALE: 1" = 100'
				<b>TAPSTONE ENERGY</b>		DATE: 4-30-18
NO.	REVISION	DATE	BY	and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 292947
SUR. BY: RL		4-27-18		SURVEYING AND MAPPING BY		FILE NAME: L2166A.DWG
DRAWN BY: RKM				<b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b>		DWG NO.: 120010-L4-160-A
APPROVED BY: TH				13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
				Certificate of Authorization No. 1293 LS		