

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

API NUMBER: 043 23592

Approval Date: 02/01/2018

Expiration Date: 08/01/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 19N Rge: 17W

County: DEWEY

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 230 900

Lease Name: EARL 30-19-17

Well No: 2H

Well will be 230 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

CAROL SCHOMP & LOLA SCHOMP
P.O. BOX 174
TALOGA OK 73667

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	12150	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 660424

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708754
201708753

Special Orders:

Total Depth: 17100

Ground Elevation: 1965

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: 18-33860

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 30 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 11677

Radius of Turn: 400

Direction: 3

Total Length: 4795

Measured Total Depth: 17100

True Vertical Depth: 12150

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

1/29/2018 - 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

1/29/2018 - 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

1/29/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201708753

2/1/2018 - G58 - (I.O.) 30-19N-17W
X660424 MSSP
1 WELL
NO OP. NAMED
REC 1/29/2018 (DENTON)

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

043 23592 EARL 30-19-17 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 - 201708754	2/1/2018 - G58 - (I.O.) 30-19N-17W X660424 MSSP COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 1/29/2018 (DENTON)
SPACING - 660424	2/1/2018 - G58 - (640)(HOR) 30-19N-17W VAC 54296 CRLM VAC 217107 MSSLM EXT 647686 MSSP POE TO BHL NCT 660' FB

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS
DEWEY

043-23592

County, Oklahoma

230°FNL - 900°FEL Section 31 Township 19N Range 17W I.M.



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



Operator: IAPSTONE ENERGY
Lease Name: EARL 30-19-17
Topography & Vegetation: Loc. fell in sloping wheat field
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set
Best Accessibility to Location: From North off county road
Distance & Direction: From Jct. US Hwy. 183 North and St. Hwy. 51 West in Seiling, OK, go ±5.0 mi. West on St Hwy. 51, then ±4.0 mi. South to the NE Cor. of Sec. 31-T19N-R17W

ELEVATION:
1965' Gr. at Stake

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

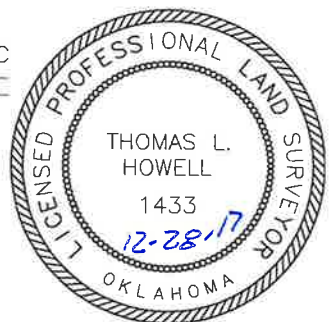
DATUM: NAD-27
LAT: 36°05'09.4\"/>

Date of Drawing: Dec. 27, 2017
Invoice # 285820 Date Staked: Dec. 19, 2017 AC

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



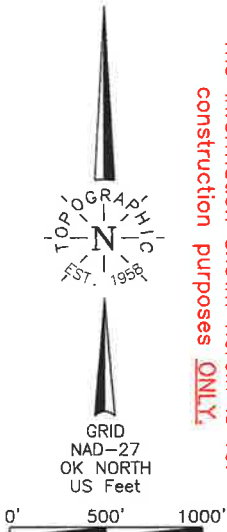
County, Oklahoma

230'FNL - 900'FEL Section 31 Township 19N Range 17W I.M.

X= 1686385
Y= 402474

X= 1688994
Y= 402444

X= 1691606
Y= 402414



NOTE:

The information shown herein is for construction purposes ONLY.

LOT 1

LOT 2

LOT 3

LOT 4

LOT 1

LOT 2

LOT 3

LOT 4

E/2-NW/4

E/2-SW/4

E/2-NW/4

E/2-SW/4

BOTTOM HOLE
165'FNL-660'FEL
NAD-27 (US Feet)
36°06'01.8" N
99°02'46.2" W
36.100499925' N
99.046153697' W
X=1690944
Y=402257

LANDING POINT
270'FSL-876'FEL
NAD-27 (US Feet)
36°05'14.4" N
99°02'48.9" W
36.087321201' N
99.046920482' W
X=1690666
Y=397462

LANDING POINT

WIND TURBINE

WIND TURBINE

WIND TURBINE

WIND TURBINE

WIND TURBINE

WIND TURBINE

WIND TURBINE

X= 1691496
Y= 391982

X= 1691573
Y= 399797

X= 1691539
Y= 397179

X= 1691517
Y= 394580

X= 1688881
Y= 392027

X= 1686266
Y= 392072

X= 1686313
Y= 397258

X= 1686290
Y= 394655

Range Line
T19N-R17W
T19N-R17W

Range Line
T19N-R17W
T19N-R17W

Township Line
T19N-R17W
T18N-R17W

Operator: TAPSTONE ENERGY
Lease Name: EARL 30-19-17
Topography & Vegetation Loc. fell in sloping wheat field
Well No.: 2H
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Reference Stakes or Alternate Location Stakes Set None
Best Accessibility to Location From North off county road
Distance & Direction from Hwy Jct or Town From Jct. US Hwy. 183 North and St. Hwy. 51 West in Seiling, OK, go ±5.0 mi. West on St Hwy. 51, then ±4.0 mi. South to the NE Cor. of Sec. 31-T19N-R17W

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

Date of Drawing: Dec. 27, 2017

Invoice # 285820 Date Staked: Dec. 19, 2017

AC

CERTIFICATE:

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Thomas L. Howell
Oklahoma Lic. No. 1433



DATUM: NAD-27
LAT: 36°05'09.4" N
LONG: 99°02'49.2" W
LAT: 36.085949159° N
LONG: 99.047000297° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1690637
Y: 396963

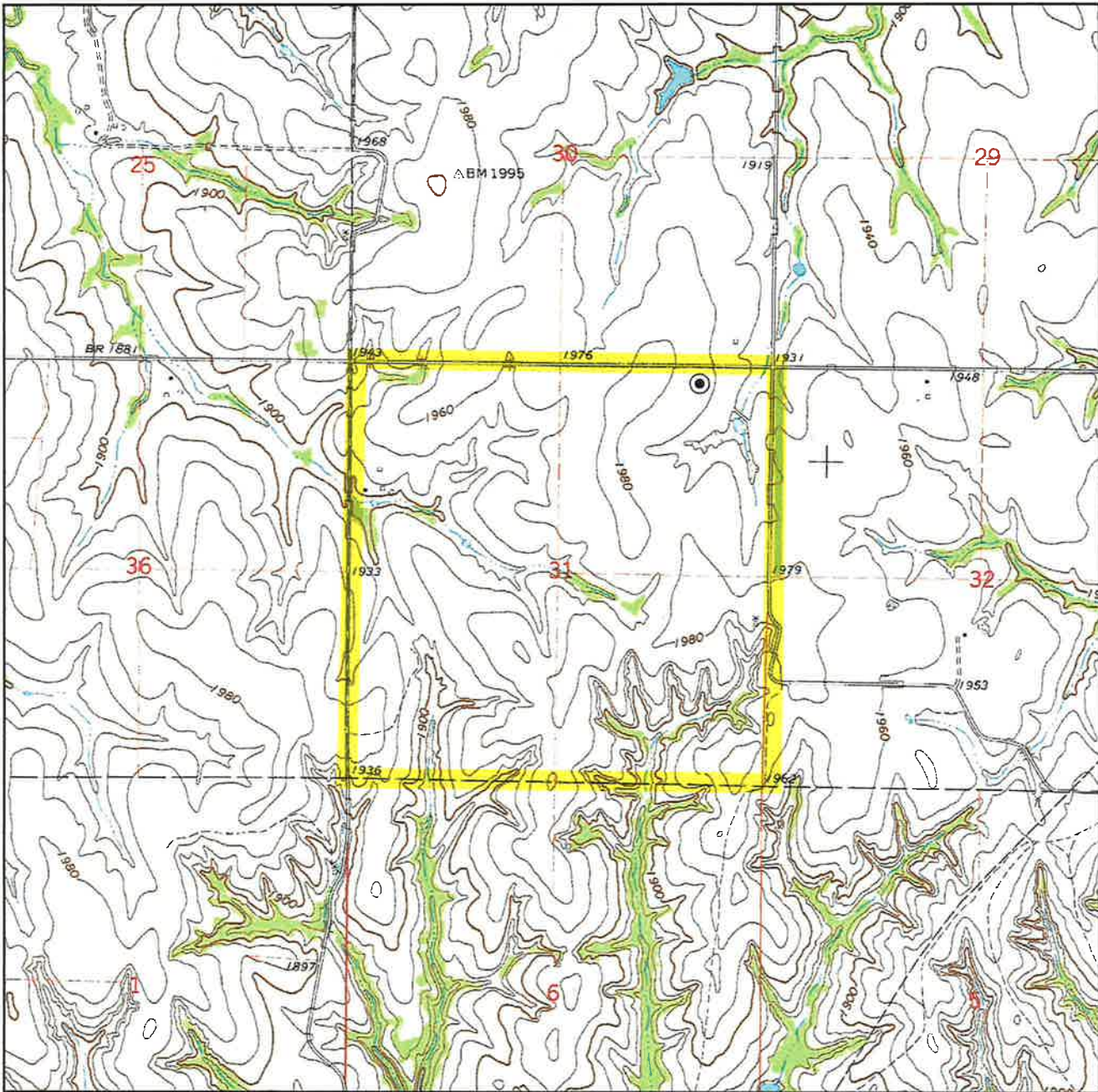
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

LOCATION & ELEVATION VERIFICATION MAP



Sec. 31 Twp. 19N Rng. 17W IM

County DEWEY State OK

Operator TAPSTONE ENERGY

Description 230'FNL - 900'FEL

Lease EARL 30-19-17 2H

Elevation 1965' Gr. at Stake

U.S.G.S. Topographic
Quadrangle Map LENORA, OK

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

Dec. 19, 2017

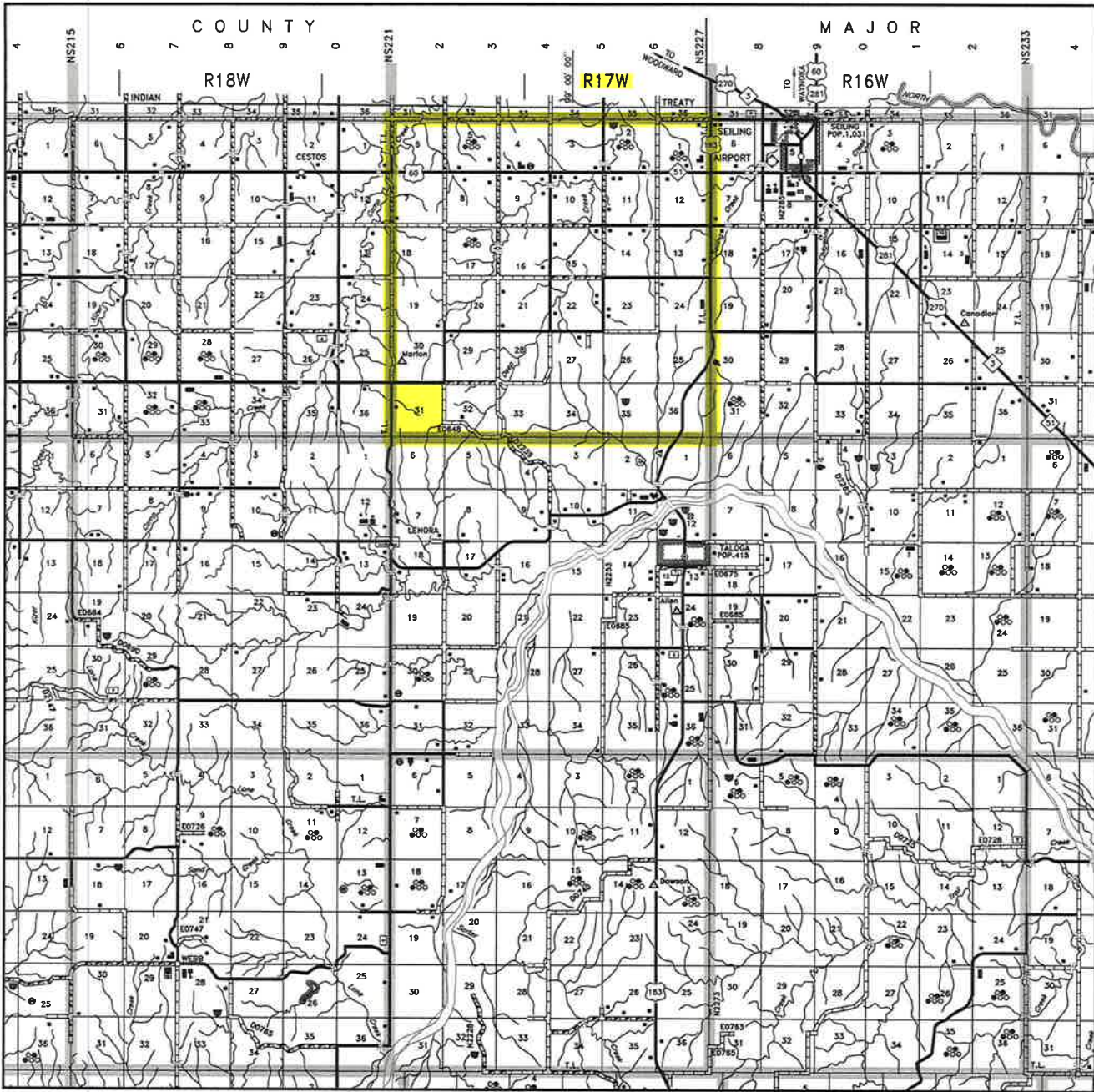
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 31 Twp. 19N Rng. 17W IM

County DEWEY State OK

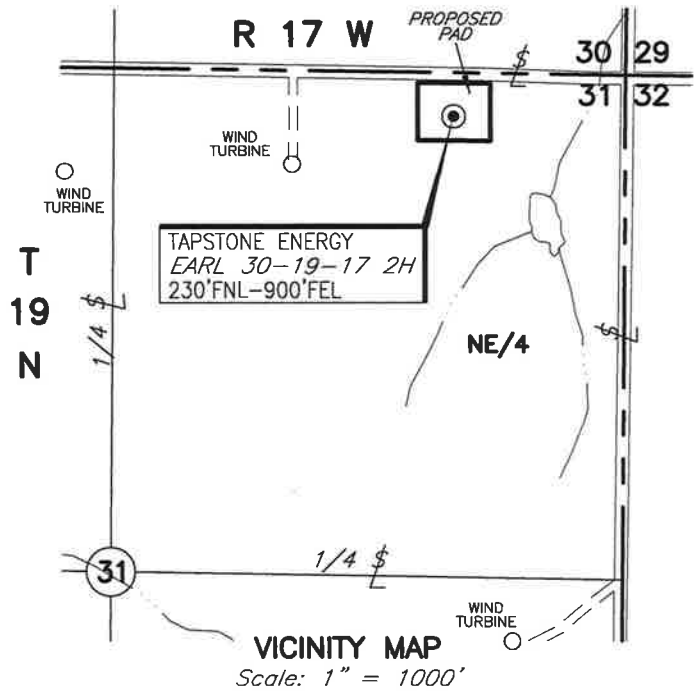
Operator TAPSTONE ENERGY



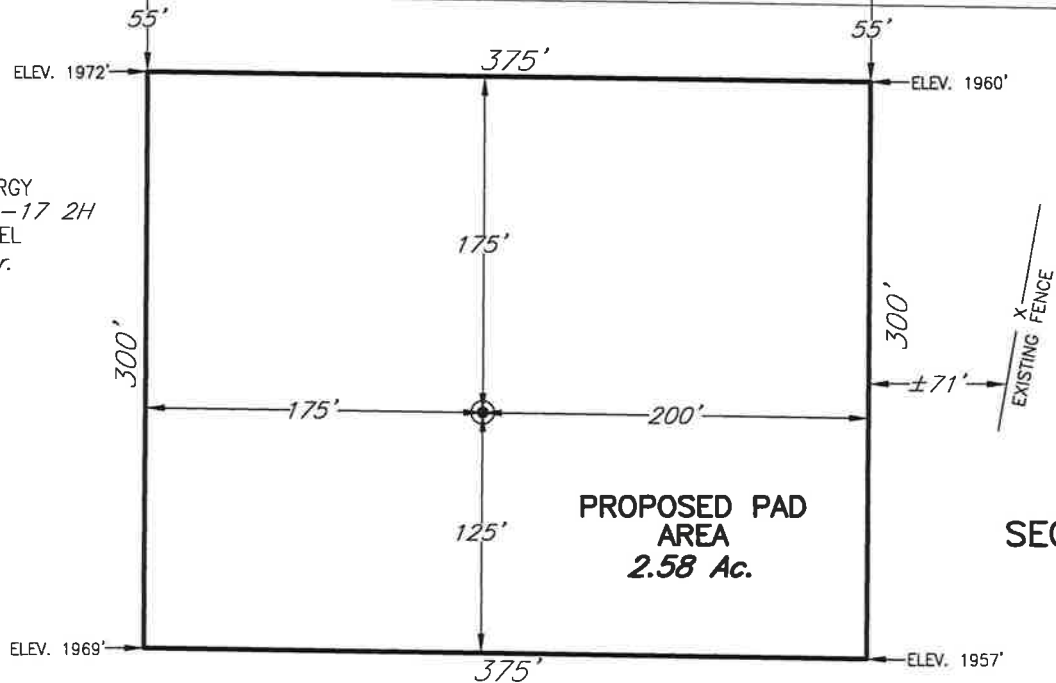
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA

T 19 N - R 17 W
(INDIAN MERIDIAN)



TAPSTONE ENERGY
EARL 30-19-17 2H
230'FNL-900'FEL
Elev. 1965' Gr.



SECTION 31
NE/4

PLAT SHOWING
PROPOSED PAD AREA
IN THE NE/4 OF SECTION 31,
T19N - R17W,
DEWEY COUNTY, OKLAHOMA

NOTE:

The information shown herein is for construction purposes ONLY.

				This plot was prepared exclusively for		SCALE: 1"=100'
				TAPSTONE ENERGY		DATE: 12/27/17
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.: 285820
SURV. BY: ES 12/19/17				SURVEYING AND MAPPING BY		FILE NAME: L4140A.DWG
DRAWN BY: AC				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DWG NO.: 120010-L4-140-A
APPROVED BY: TH				6709 N. Classen, Okla. City, OK. 73116 (405) 843-4847		SHEET 1 OF 1
				Certificate of Authorization No. 1293 LS		