

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

API NUMBER: 043 23601

Approval Date: 03/06/2018

Expiration Date: 09/06/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: DEWEY

SPOT LOCATION: S2 NE NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 350 330

Lease Name: DONELL 2920-19-17

Well No: 1H

Well will be 350 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

RUSSELL & DAVA CARTER, CO-TRUSTEES
59095 US HWY 183
SEILING OK 73663

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9765	6	
2	MERAMEC-OSAGE	10868	7	
3			8	
4			9	
5			10	

Spacing Orders: 132649
647686

Location Exception Orders:

Increased Density Orders: 673652

Pending CD Numbers: 201801113
201801114
201801112

Special Orders:

Total Depth: 21500

Ground Elevation: 1922

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 310

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: 18-33984

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: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 10600

Radius of Turn: 469

Direction: 359

Total Length: 10163

Measured Total Depth: 21500

True Vertical Depth: 11100

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

Notes:

Category

Description

HYDRAULIC FRACTURING

2/28/2018 - 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

INCREASED DENSITY - 673652

3/5/2018 - G58 - 29-19N-17W
X647686 MSSP
2 WELLS
TAPSTONE ENERGY, LLC
2/14/2018

INTERMEDIATE CASING

2/28/2018 - 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

2/28/2018 - 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.

043 23601 DONELL 2920-19-17 1H

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

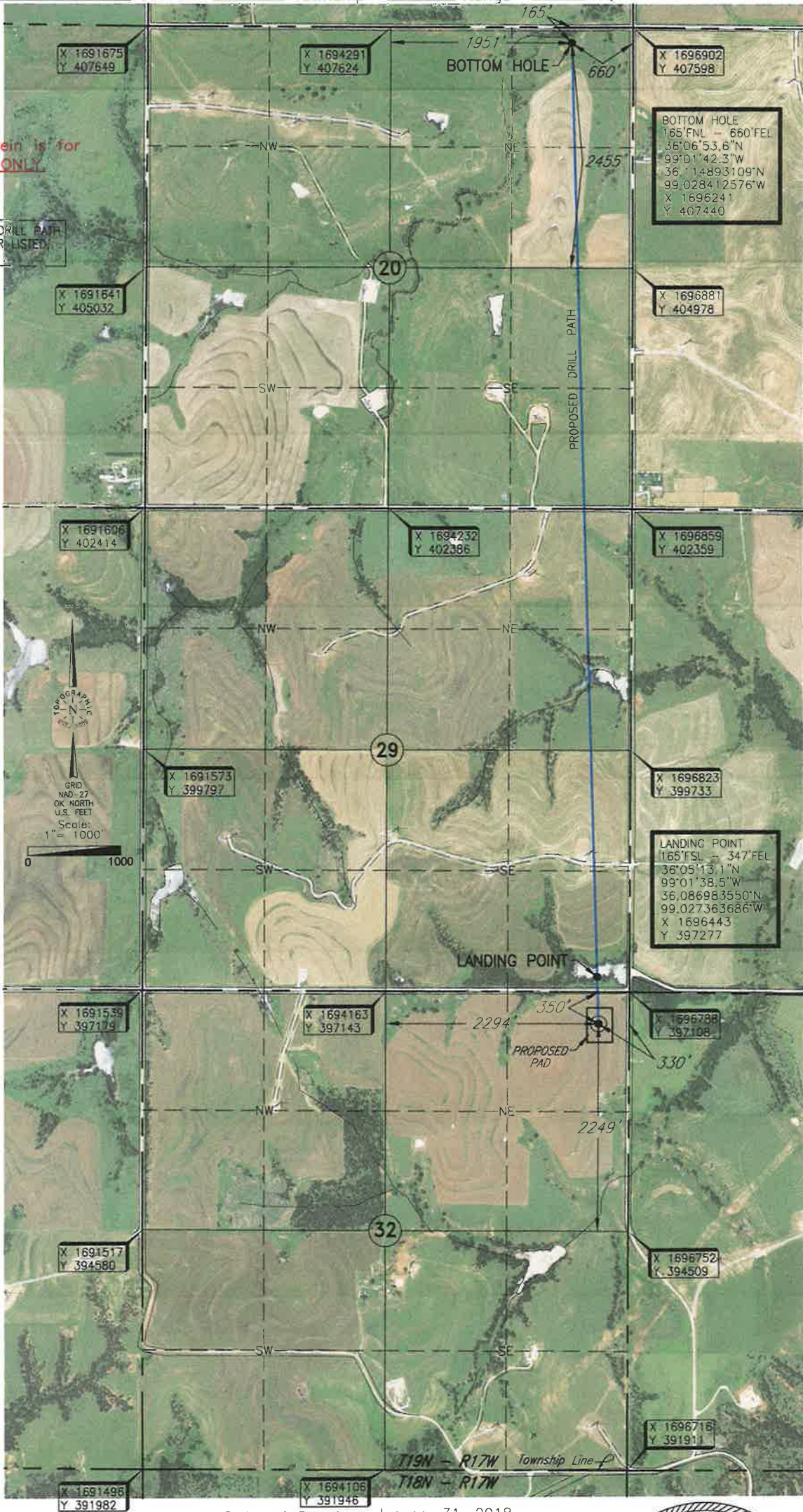
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201801112	3/5/2018 - G58 - (I.O.) 20-19N-17W X132649 MRMOG 1 WELL NO OP. NAMED HEARING 3/5/2018
PENDING CD - 201801113	3/5/2018 - G58 - (E.O.) 29 & 20-19N-17W X647686 MSSP (29-19N-17W) X132649 MRMOG (20-19N-17W) 50% 29-19N-17W 50% 20-19N-17W NO OP. NAMED REC 2/26/2018 (M. PORTER)
PENDING CD - 201801114	3/5/2018 - G58 - (E.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 330' FEL COMPL. INT. (20-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL REC 2/26/2018 (M. PORTER)
SPACING - 132649	3/5/2018 - G58 - (640) 20-19N-17W EXT 126186 MRMOG
SPACING - 647686	3/5/2018 - G58 - (640)(HOR) 29-19N-17W VAC 54296 CRLM VAC 217107 MSSLM EST MSSP COMPL. INT NLT 660' FB

350'FNL - 330'FEL Section 32 Township 19N Range 17W I.M.

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

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



Operator: TAPSTONE ENERGY
Lease Name: DONELL 29/20-19-17
Topography & Vegetation: Location fell in terraced 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 Hwy Jct or Town: From Seiling, Ok., go ±4 miles West on St. Hwy. 51, then ±4 miles South to the NE Corner of Section 32, T19N - R17W.

ELEVATION:
1922' Gr. at Stake

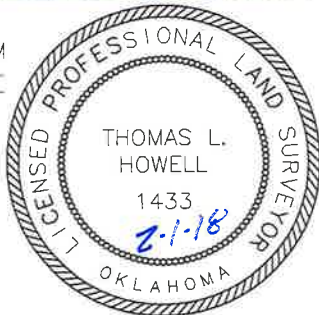
DATUM: NAD-27
LAT: 36°05'08.0"N
LONG: 99°01'38.3"W
LAT: 36.085568780°N
LONG: 99.027310537°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1696453
Y: 396762

Date of Drawing: January 31, 2018
Invoice # 287459 Date Staked: January 25, 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



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

350'FNL - 330'FEL Section 32 Township 19N Range 17W I.M.

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X 1691675
Y 407649

X 1694291
Y 407624

X 1696902
Y 407598

BOTTOM HOLE
165'FNL - 660'FEL
36°06'53.6"N
99°01'42.3"W
36.114893109°N
99.028412576°W
X 1696241
Y 407440

X 1691641
Y 405032

X 1696881
Y 404978

X 1691606
Y 402414

X 1694232
Y 402386

X 1696859
Y 402359

X 1691573
Y 399797

X 1696823
Y 399733

LANDING POINT
165'FSL - 347'FEL
36°05'13.1"N
99°01'38.5"W
36.086983550°N
99.027363686°W
X 1696443
Y 397277

X 1691539
Y 397179

X 1694163
Y 397143

X 1696788
Y 397108

X 1691517
Y 394580

X 1696752
Y 394509

X 1696716
Y 391911

X 1691496
Y 391982

X 1694106
Y 391946

Date of Drawing: January 31, 2018

Invoice # 287459

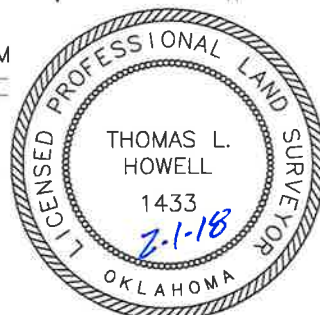
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DATUM: NAD-27
LAT: 36°05'08.0"N
LONG: 99°01'38.3"W
LAT: 36.085568780°N
LONG: 99.027310537°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1696453
Y: 396762

This information was gathered with a GPS receiver with a 1 ft accuracy.

Operator: TAPSTONE ENERGY
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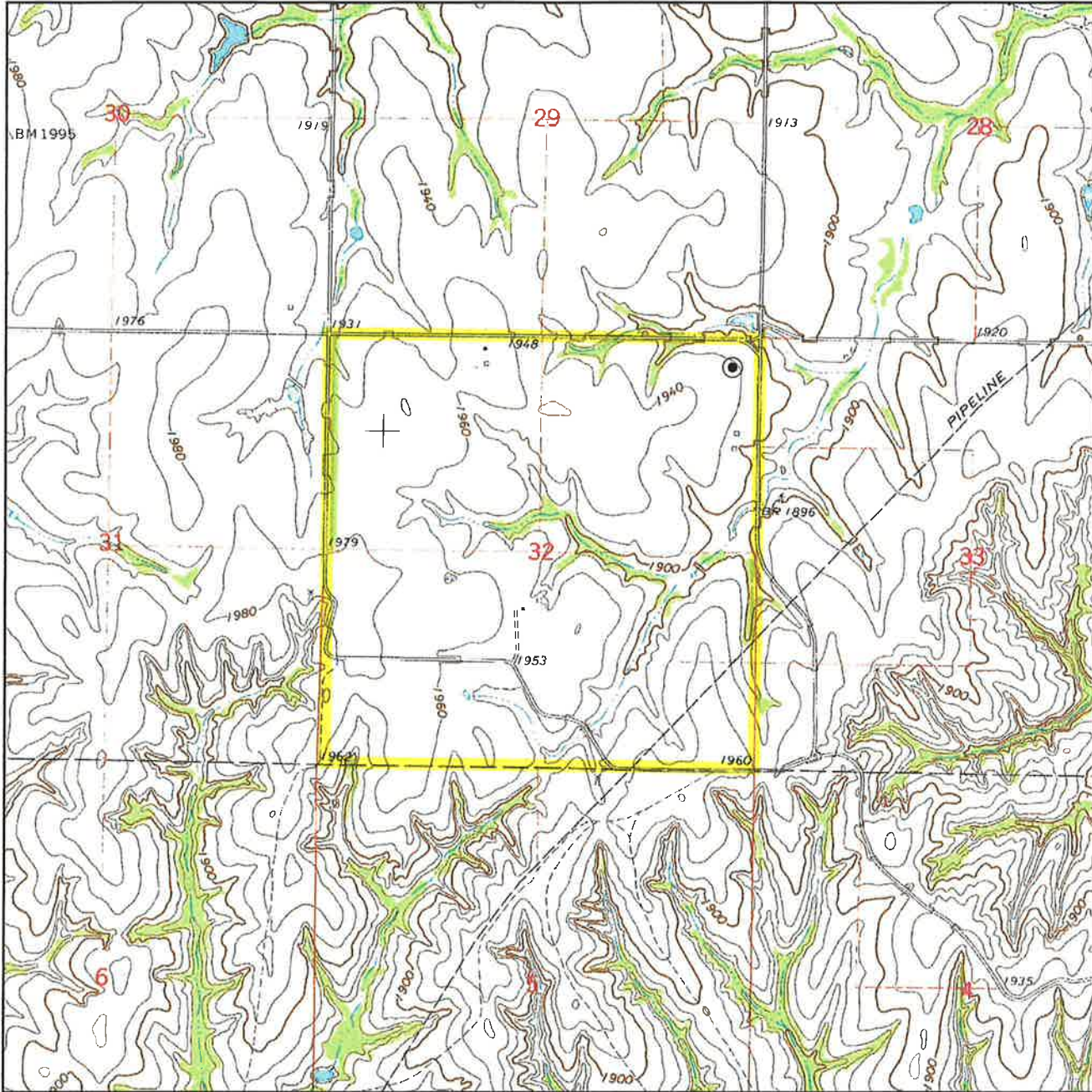
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 32 Twp. 19N Rng. 17W IM

County DEWEY State OK

Operator TAPSTONE ENERGY

Description 350'FNL - 330'FEL

Lease DONELL 29/20-19-17 1H

Elevation 1922' 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.



LAND SURVEYORS OF OKLAHOMA

January 25, 2018

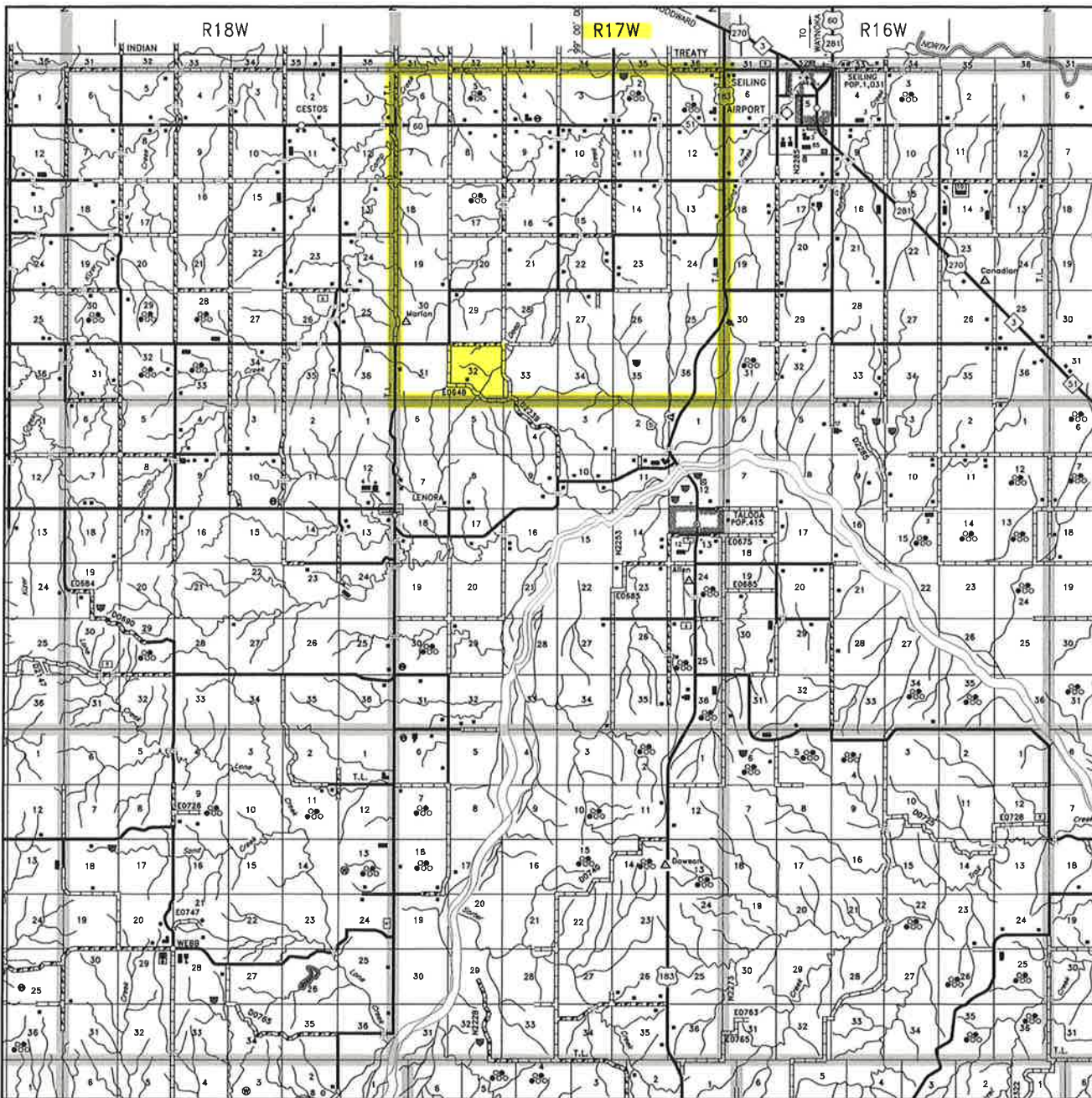
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 32 Twp. 19N Rng. 17W IM

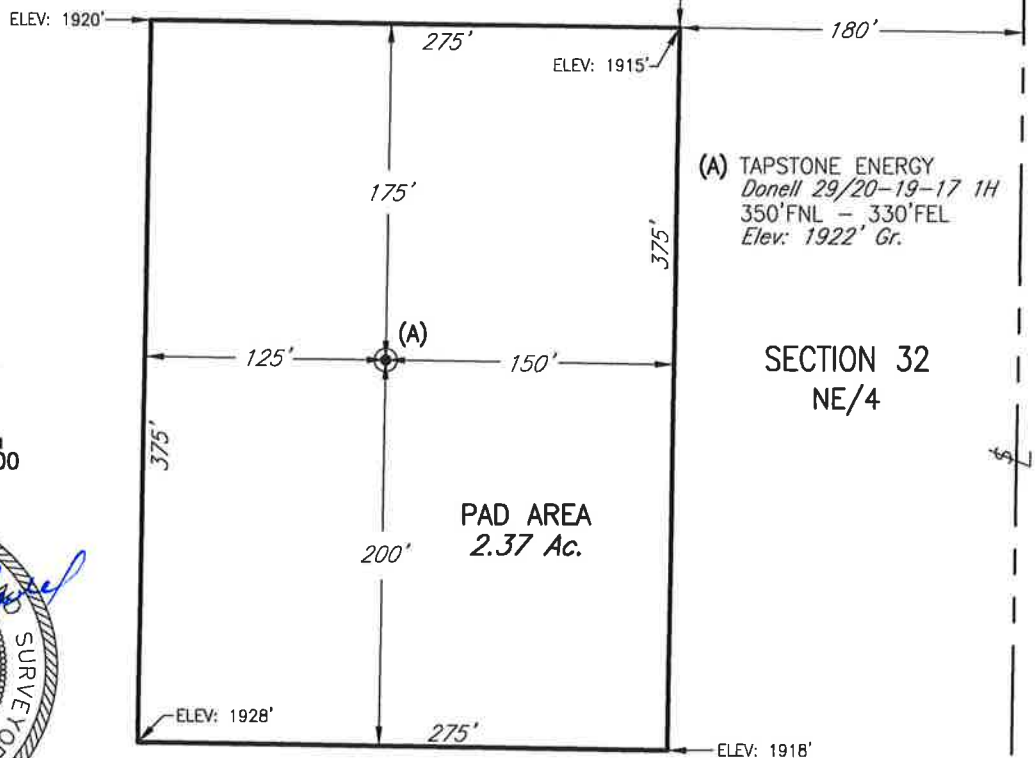
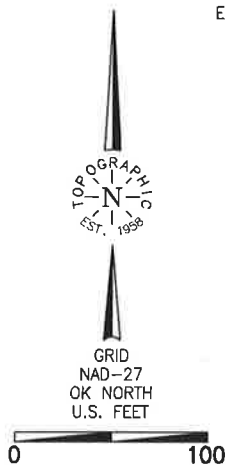
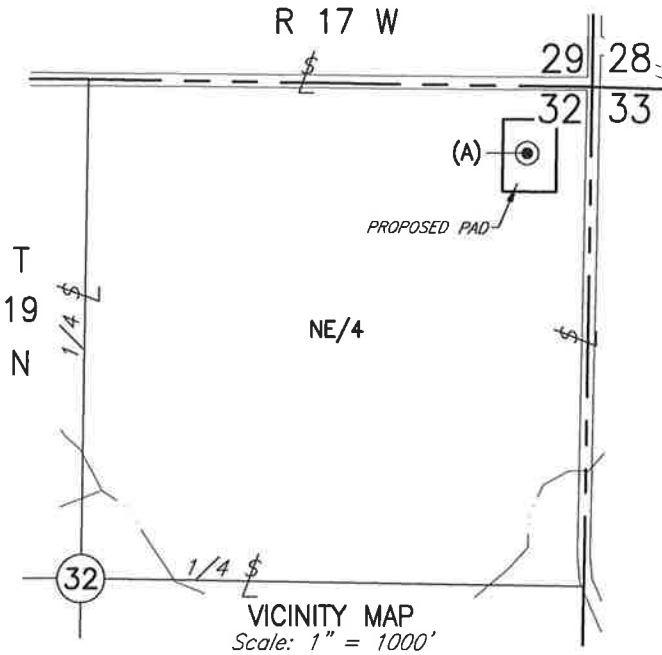
County DEWEY State OK

Operator TAPSTONE ENERGY



LAND SURVEYORS OF OKLAHOMA

T 19 N - R 17 W
(INDIAN MERIDIAN)



PLAT SHOWING
PROPOSED PAD AREA IN THE
NE/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'
				TAPSTONE ENERGY		DATE: 1-25-18
				and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma		INVOICE NO.: 287460
NO.	REVISION	DATE	BY	SURVEYING AND MAPPING BY		FILE NAME: L21146A.DWG
SUR. BY:	ES	1-25-18		TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA		DWG NO.: 120010-L4-146-A
DRAWN BY:	RKM			13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847		SHEET 1 OF 1
APPROVED BY:	TH			Certificate of Authorization No. 1293 LS		