

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

API NUMBER: 153 23640

Approval Date: 12/07/2018
Expiration Date: 06/07/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 20N Rge: 17W County: WOODWARD
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 2415

Lease Name: JUNE 12-20-17 Well No: 1H 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

JUANITA JUNE WHITE
5906 CHICKADEE DR
MARIETTA OK 73448

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	9950	6
2			7
3			8
4			9
5			10

Spacing Orders: 672107 Location Exception Orders: 685446 Increased Density Orders: 684212

Pending CD Numbers:

Special Orders:

Total Depth: 14950 Ground Elevation: 1704 **Surface Casing: 550** Depth to base of Treatable Water-Bearing FM: 400

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-35678

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? N

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 12 Twp 20N Rge 17W County WOODWARD

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2570

Depth of Deviation: 9327

Radius of Turn: 516

Direction: 359

Total Length: 4812

Measured Total Depth: 14950

True Vertical Depth: 9950

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

Notes:

Category

Description

HYDRAULIC FRACTURING

11/5/2018 - 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 - 684212

12/5/2018 - G58 - 12-20N-17W
X672107 MSNLC
1 WELL
TAPSTONE ENERGY, LLC
10/2/2018

INTERMEDIATE CASING

11/5/2018 - 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

LOCATION EXCEPTION - 685446

12/5/2018 - G58 - (I.O.) 12-20N-17W
X672107 MSNLC
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1980' FEL
TAPSTONE ENERGY, LLC
10/24/2018

This permit does not address the right of entry or settlement of surface damages.
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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	11/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201810282	12/7/2018 - G58 - (I.O.) 12-20N-17W X165:10-3-28(C)(2)(B) MSNLC (JUNE 12-20-17 1H) NO CLOSER THAN 225' FROM THE PATSY 13/12-20-17 2H WELL HEARING 12/21/2018 (OK PER MCCOY)
SPACING - 672107	12/5/2018 - G58 - (640)(HOR) 12-20N-17W VAC 129845 STGV, STLS, SPWR, OSGE EST MSNLC COMPL. INT. NLT 660' FB

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

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

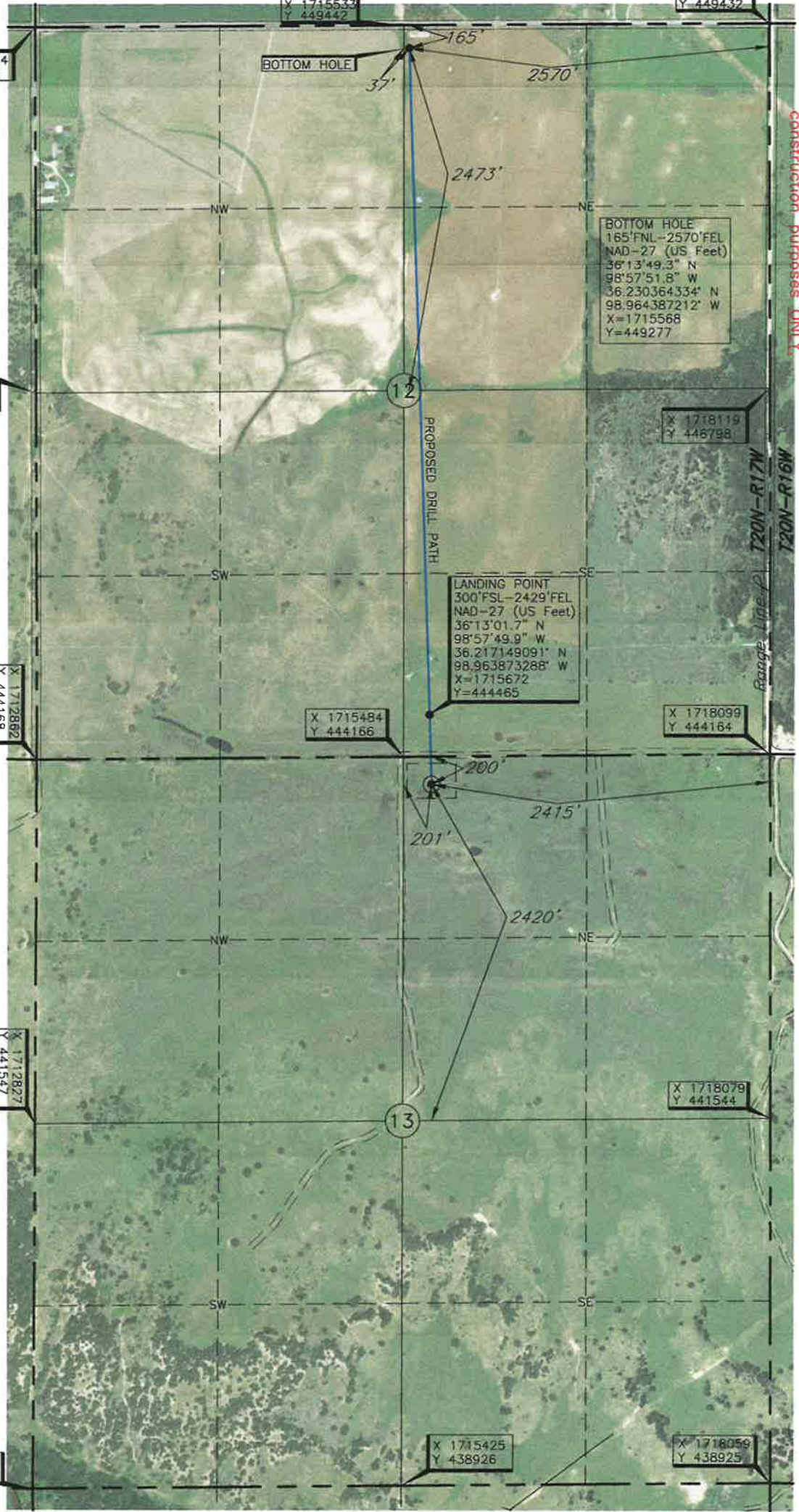
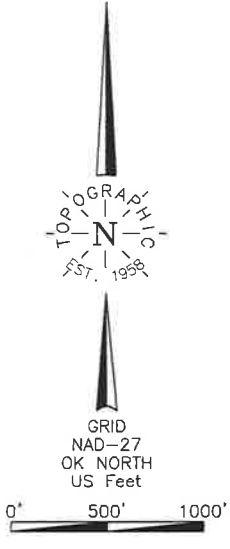
13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

153-23640

WOODWARD

County, Oklahoma

200'FNL - 2415'FEL Section 13 Township 20N Range 17W I.M.



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

BOTTOM HOLE
 165'FNL-2570'FEL
 NAD-27 (US Feet)
 36°13'49.3" N
 98°57'51.8" W
 36.230364334° N
 98.964387212° W
 X=1715568
 Y=449277

LANDING POINT
 300'FSL-2429'FEL
 NAD-27 (US Feet)
 36°13'01.7" N
 98°57'49.9" W
 36.217148091° N
 98.963873288° W
 X=1715672
 Y=444465

Operator: TAPSTONE ENERGY
 Lease Name: JUNE 12-20-17

Topography & Vegetation Loc. fell in levee pasture

Good Drill Site? Yes

Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location From East of county road
 Distance & Direction From Chester, OK, go ±2.0 mi. West to the NE Cor. of Sec. 13-20N-R17W,
 from Hwy Jct or Town

Well No.: 1H

ELEVATION:
1704' Gr. at Stake

X 1712792
 Y 438927

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

Revision **A** Date of Drawing: Aug. 01, 2018
 Invoice # 298181 Date Staked: Jul. 17, 2018 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

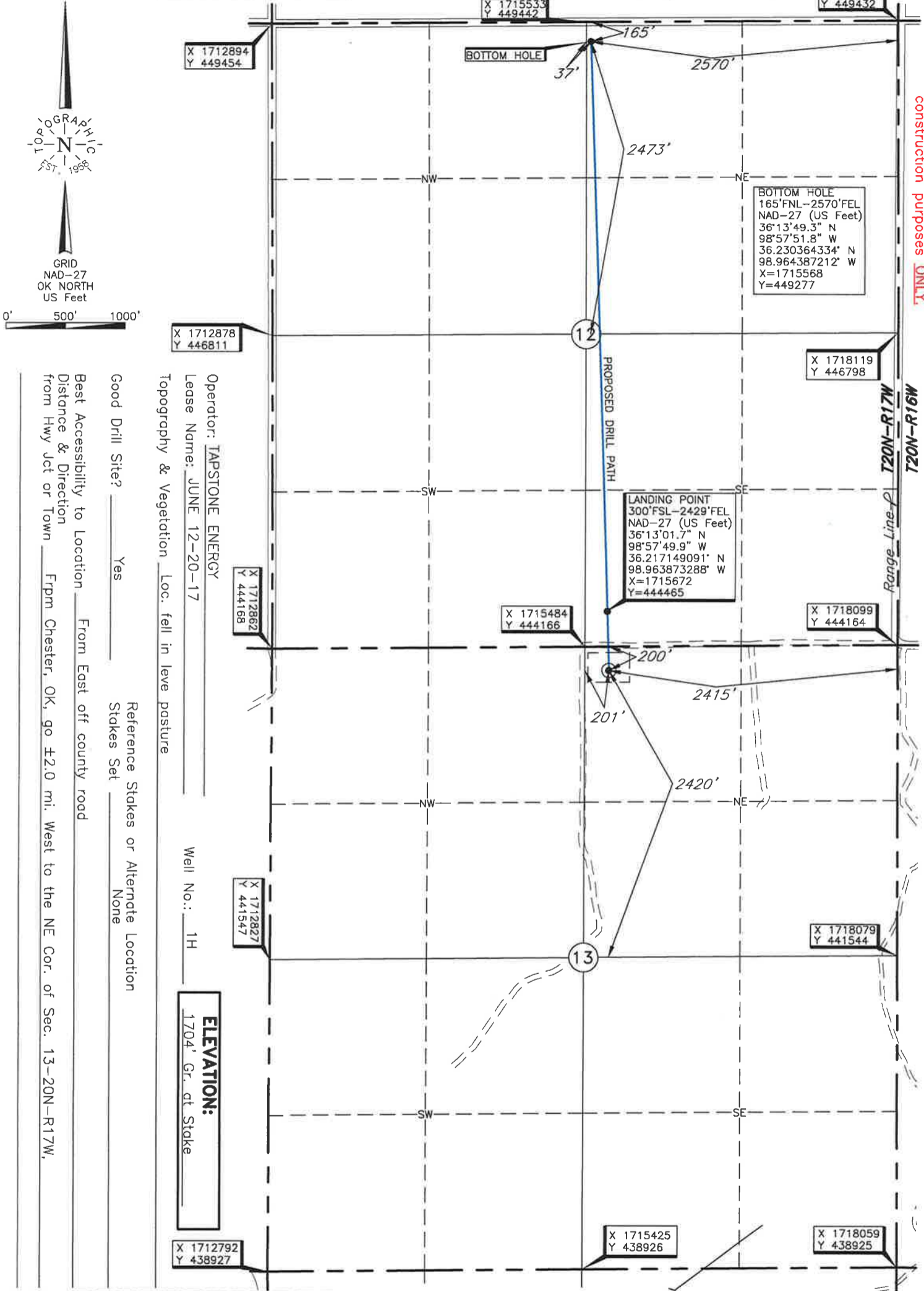
Thomas L. Howell
 Oklahoma Lic. No. 1433



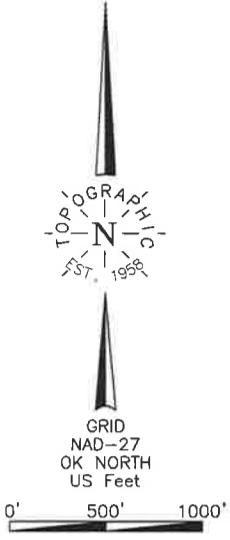
DATUM: NAD-27
 LAT: 36°12'56.8" N
 LONG: 98°57'49.8" W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1715683
 Y: 443965

WOODWARD County, Oklahoma

200'FNL - 2415'FEL Section 13 Township 20N Range 17W I.M.



NOTE:
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X 1712878
Y 446811

Operator: TAPSTONE ENERGY
 Lease Name: JUNE 12-20-17
 Topography & Vegetation Loc. fall in leve pasture

X 1712862
Y 444168

X 1715484
Y 444166

X 1718119
Y 446798

X 1718099
Y 444164

X 1712827
Y 441547

Well No.: 1H
ELEVATION:
 1704' Gr. at Stake

X 1718079
Y 441544

X 1715425
Y 438926

X 1718059
Y 438925

X 1712792
Y 438927

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

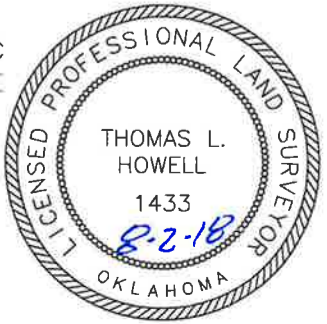
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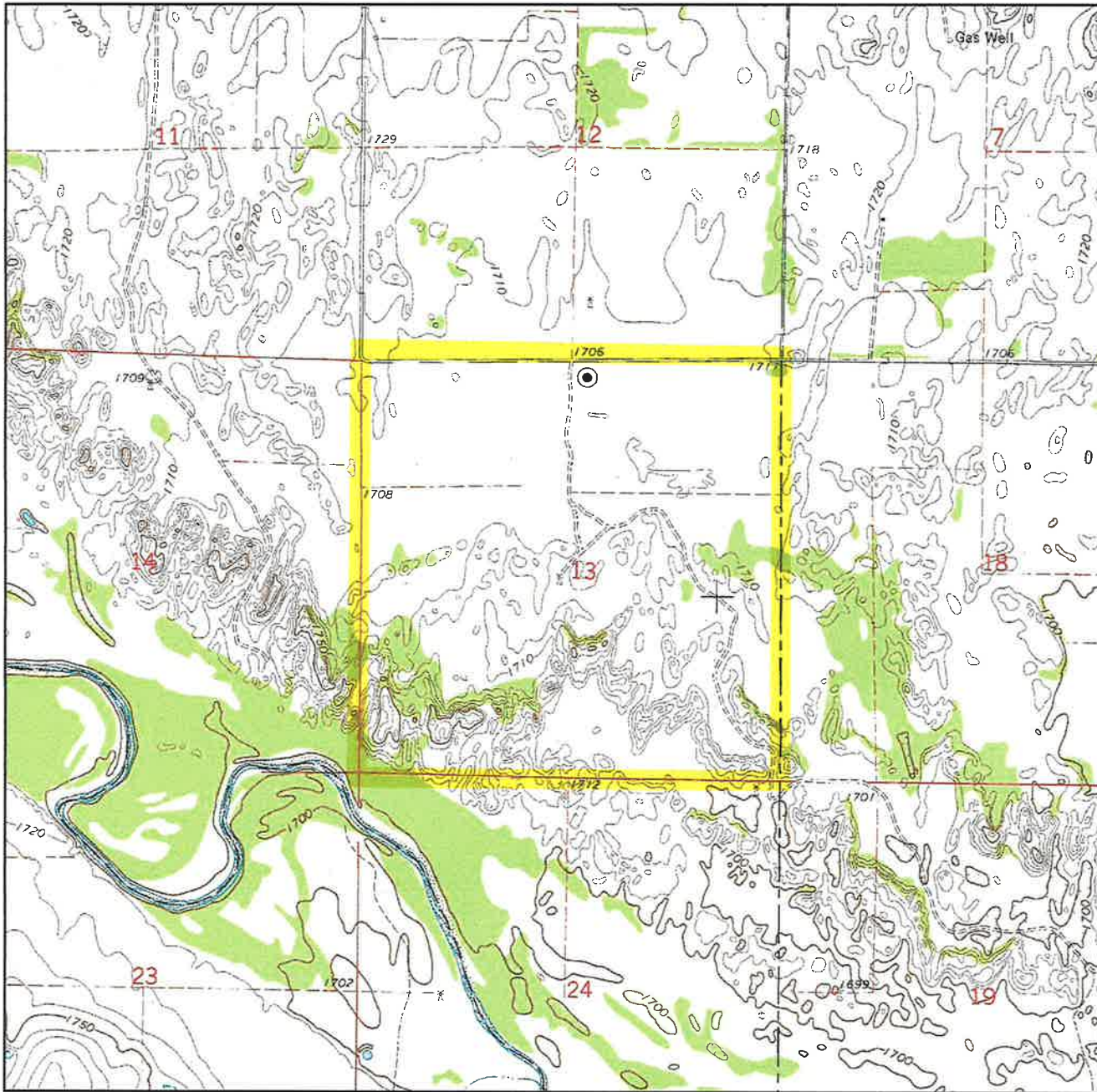
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 LAT: 36.215776230° N
 LONG: 98.963819909° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1715683
 Y: 443965

This information was gathered with a GPS receiver with ±1 foot (1 ft) accuracy.

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. 13 Twp. 20N Rng. 17W I.M.

County WOODWARD State OK

Operator TAPSTONE ENERGY

Description 200'FNL - 2415'FEL

Lease JUNE 12-20-17 1H

Elevation 1704' 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.



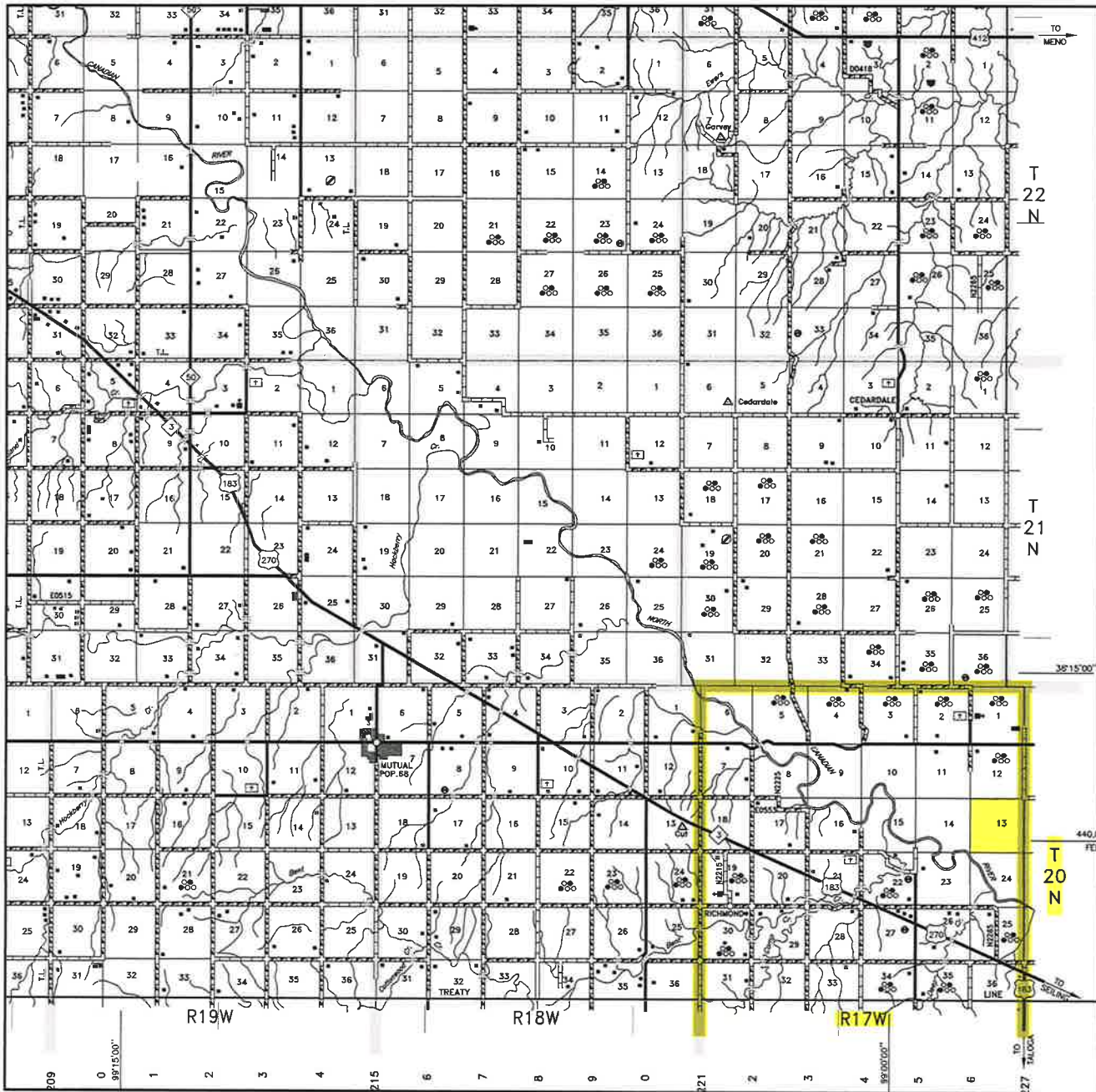
LAND SURVEYORS OF OKLAHOMA

Jul. 17, 2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com
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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 13 Twp. 20N Rng. 17W I.M.

County WOODWARD State OK

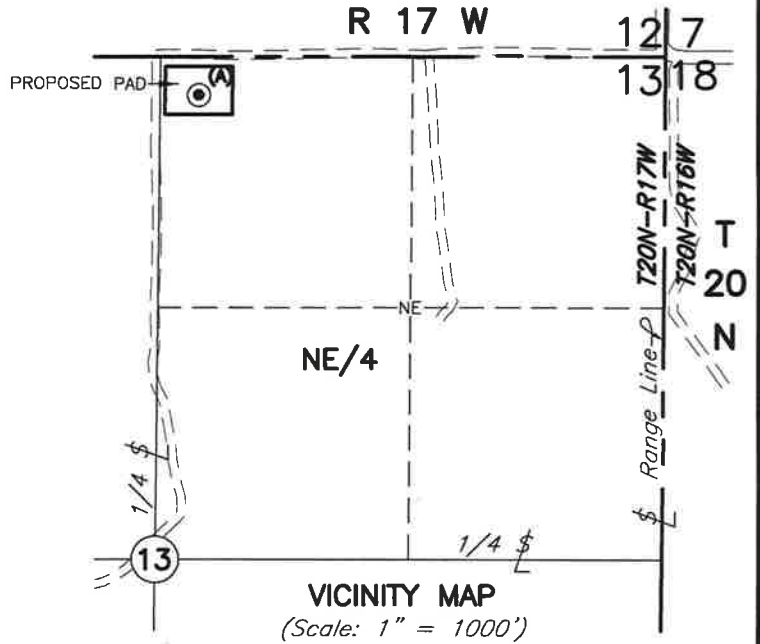
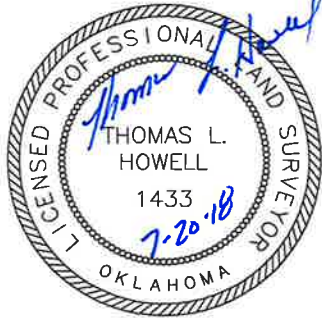
Operator TAPSTONE ENERGY



LAND SURVEYORS OF OKLAHOMA

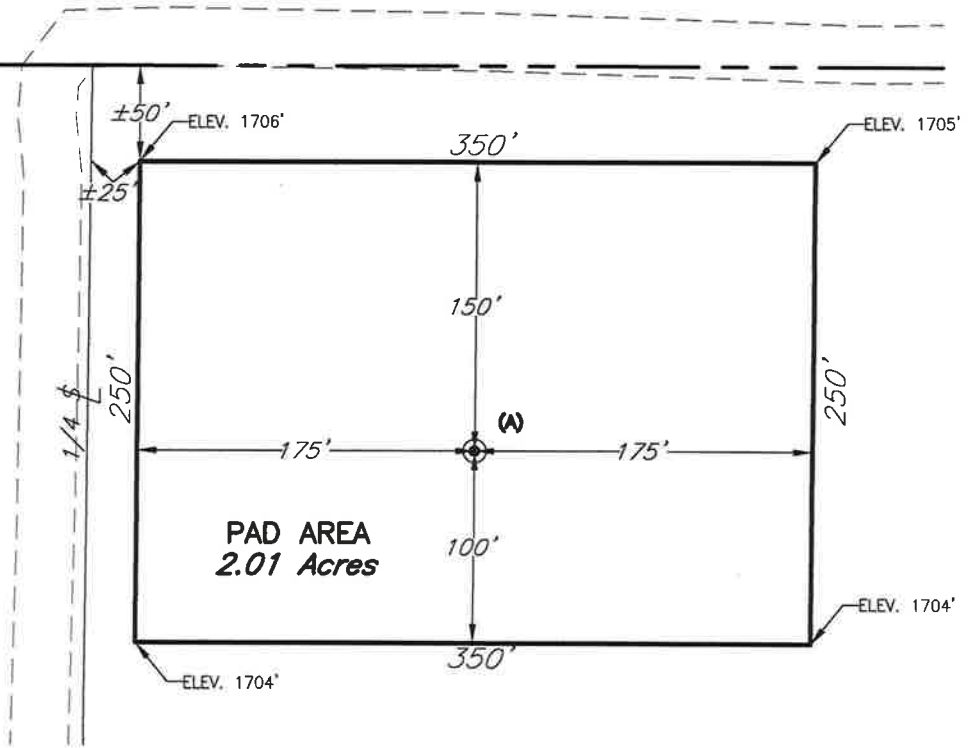
T 20 N - R 17 W (INDIAN MERIDIAN)

PLAT SHOWING
PROPOSED PAD AREA IN THE
NE/4 OF SECTION 13, T20N - R17W
WOODWARD COUNTY, OKLAHOMA



(A) TAPSTONE ENERGY
JUNE 12-20-17 1H
200'FNL-2415'FEL
Elev. 1704' Gr.

SECTION 13
NE/4



NOTE:

The information shown herein is for construction purposes ONLY.

This plat was prepared exclusively for

TAPSTONE ENERGY

SCALE: 1"=100'

DATE: 7-20-18

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.: 298181

SURV. BY: ES 7-17-18

SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

FILE NAME: L2188A.DWG

DRAWN BY: AC

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847

DWG NO.: 120010-L2-188-A

APPROVED BY: TH

Certificate of Authorization No. 1293 LS

SHEET 1 OF 1