

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

API NUMBER: 043 23683

Approval Date: 01/18/2019

Expiration Date: 07/18/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 19N Rge: 17W County: DEWEY

SPOT LOCATION: S2 N2 NE NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 475 1980

Lease Name: RANDI 18/7-19-17

Well No: 4H

Well will be 475 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

RANDI LYNN COLE AND RON D. COLE
ROUTE 2, BOX 153
DANIELE LYNN COLE AND RON D. COLE
VICI OK 73859

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	11100	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 657193
651262

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810734
201810733
201810730
201810729

Special Orders:

Total Depth: 21700

Ground Elevation: 1951

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 240

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? 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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

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

PERMIT NO: 19-36087

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 07 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 10500

Radius of Turn: 638

Direction: 1

Total Length: 10197

Measured Total Depth: 21700

True Vertical Depth: 11100

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

Notes:

Category

Description

DEEP SURFACE CASING

1/11/2019 - 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

1/11/2019 - 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

1/11/2019 - 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

MEMO

1/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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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.

043 23683 RANDI 18/7-19-17 4H

Category	Description
PENDING CD - 201810729	1/18/2019 - G58 - 18-19N-17W X651262 MSSP 2 WELLS NO OP. NAMED HEARING 1/22/2019
PENDING CD - 201810730	1/18/2019 - G58 - 7-19N-17W X657193 MSSP 2 WELLS NO OP. NAMED HEARING 1/22/2019
PENDING CD - 201810733	1/18/2019 - G58 - (E.O.) 18 & 7-19N-17W EST MULTIUNIT HORIZONTAL WELL X651262 MSSP 18-19N-17W X657193 MSSP 7-19N-17W 50% 18-19N-17W 50% 7-19N-17W NO OP. NAMED REC 1/11/2019 (MINMIER)
PENDING CD - 201810734	1/18/2019 - G58 - (E.O.) 18 & 7-19N-17W X651262 MSSP 18-19N-17W X657193 MSSP 7-19N-17W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. (18-19N-17W) NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (7-19N-17W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FWL NO OP. NAMED REC 1/11/2019 (MINMIER)
SPACING - 651262	1/18/2019 - G58 - (643.68)(IRR. UNIT) 18-19N-17W VAC 78413 MCSTR EST MSSP, OTHERS
SPACING - 657193	1/18/2019 - G58 - (642.4)(IRR. UNIT) 7-19N-17W VAC 85657 MCSTR EST MSSP, OTHERS

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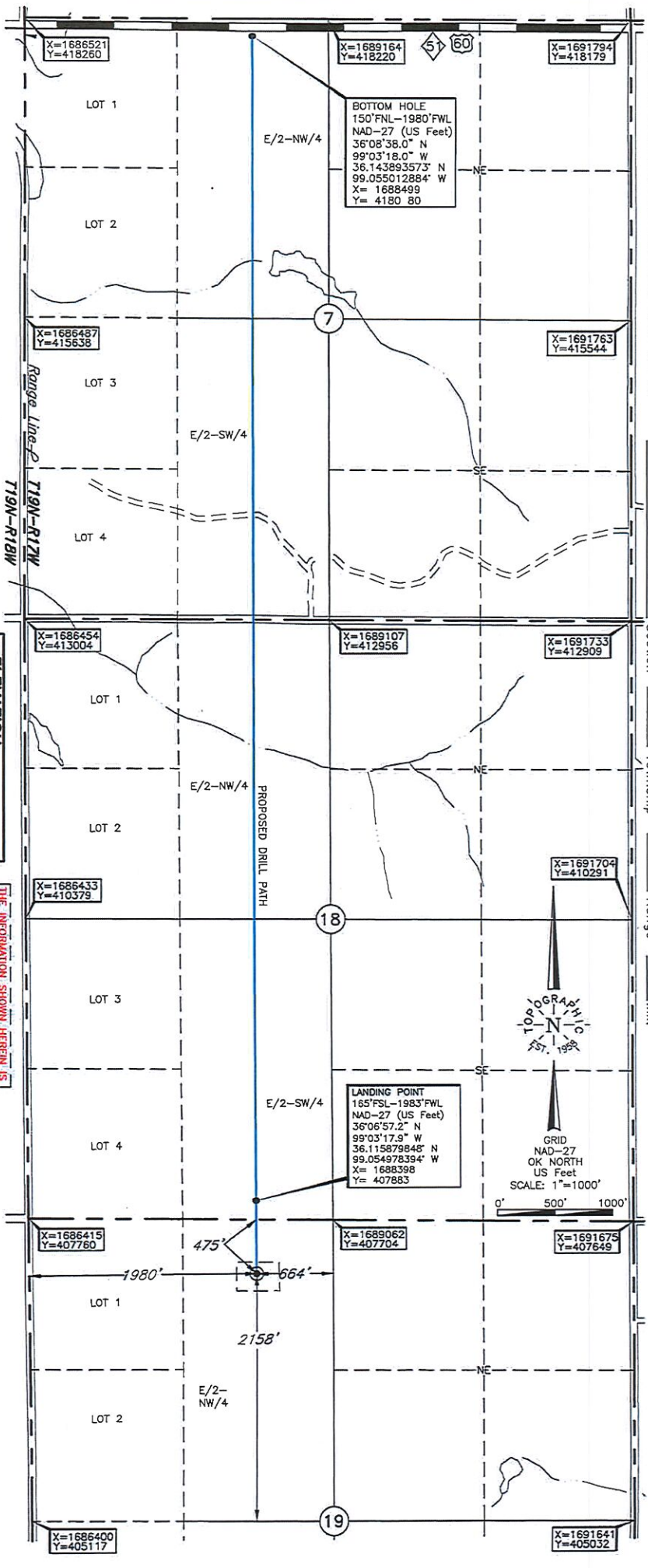
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

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

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
DEWEY Certificate of Authorization No. 1293 LS
County, Oklahoma
Section 19 Township 19N Range 17W L.M.

043-23683

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA



ELEVATION:
1951' Gr. at Stake

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY

Operator: TAPSTONE ENERGY
Lease Name: RANDI 18/7-19-17
Topography & Vegetation LOC. FELL IN ROLLING PASTURE
Good Drill Site? YES
Reference Stakes or Alternate Location
Stakes Set NONE
Best Accessibility to Location FROM WEST OFF COUNTY ROAD
Distance & Direction from Hwy Jct or Town FROM JCT. US HWY. 281 AND ST. HWY. 51 IN SELLING, OK. CO #47.7 MILES
WEST ON HWY 51/US HWY 60, THEN #2 MILES SOUTH TO THE NW COR. OF SEC. 19-T19N-R17W

DATUM: NAD-27
LAT: 36°06'50.8\"N
LONG: 99°03'17.9\"W
LAT: 36.114121575\" N
LONG: 99.054978230\" W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1688392
Y: 407243

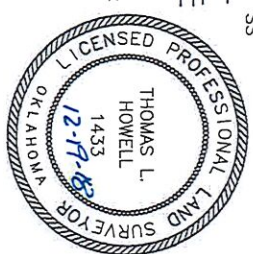
(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)

Date of Drawing: Dec. 14, 2018
Invoice # 308172 Date Staked: Dec. 13, 2018

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.

Oklahoma Lic. No. 1433

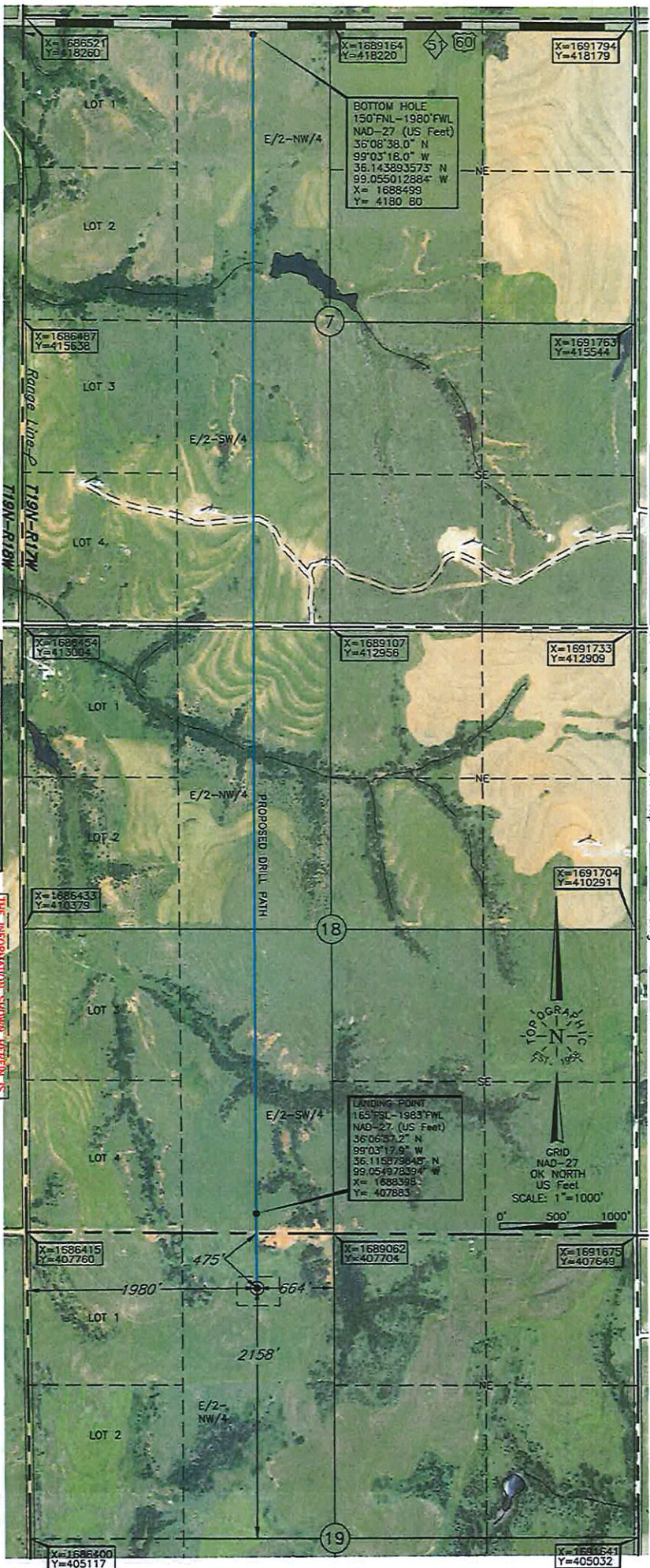


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LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION
 PROVIDED BY OPERATOR LISTED, NOT SURVEYED

475' FNL-1980' FWL Section 19 Township 19N Range 17W I.M.



ELEVATION:
 1951' Gr. at Stake

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 FOR CONSTRUCTION PURPOSES ONLY

Operator: TAPSTONE ENERGY

Lease Name: RANDI 18/7-19-17

Well No.: 4H

Topography & Vegetation LOC. FELL IN ROLLING PASTURE

Good Drill Site? YES

Reference Stakes or Alternate Location
 Stakes Set NONE

Best Accessibility to Location FROM WEST OFF COUNTY ROAD

Distance & Direction FROM JCT. US HWY. 281 AND ST. HWY. 51 IN SELLING, OK. GO #7.7 MILES
 from Hwy Jct or Town WEST ON HWY 51/US HWY 60, THEN ±2 MILES SOUTH TO THE NW COR. OF SEC. 19-T19N-R17W

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 LAT: 36.114121575°N
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 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1688392
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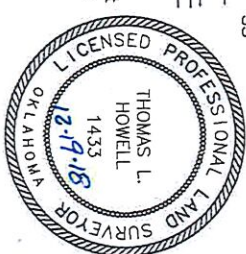
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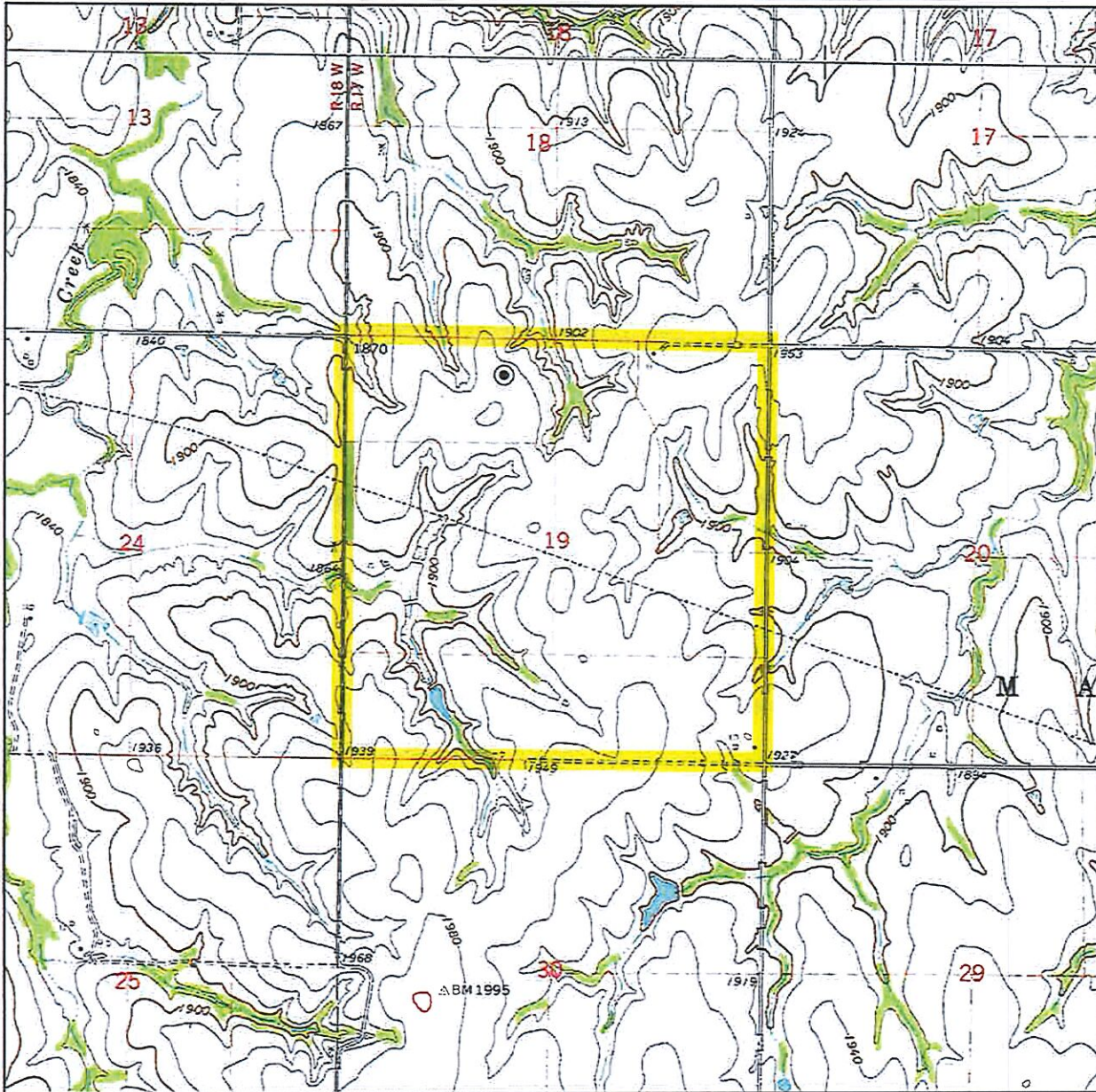
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Okla. City, Okla. 73134 * local (405) 843-4847 * out of state (800) 654-3219

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

LOCATION & ELEVATION VERIFICATION MAP



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

County DEWEY State OK

Operator TAPSTONE ENERGY

Description 475'FNL-1980'FWL

Lease RANDI 18/7-19-17 4H

Elevation 1951' 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

Dec. 13, 2018

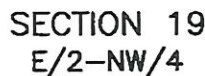
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LAND SURVEYORS OF OKLAHOMA

(INDIAN MERIDIAN)

PLAT SHOWING

- (B) TAPSTONE ENERGY
RANDI 18/7-19-17 3H
475'FNL-2000'FWL
Elev. 1951' Gr.



				This plot was prepared exclusively for				SCALE: 1"=100'			
1	WELL LOCATION (B)	12/19/18	SS	TAPSTONE ENERGY				DATE: 12-17-18			
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.: 308172			
SUR. BY: ES 12-13-18				SURVEYING AND MAPPING BY				FILE NAME: L2217A.DWG			
DRAWN BY: SS				TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA				DWG NO.: 120010-L2-217-A			
APPROVED BY: TH				13800 Wireless Way, Okla. City, OK 73134 (405) 843-4847 Certificate of Authorization No. 1293-LS				SHEET 1 OF 1			