

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

API NUMBER: 043 23696

Approval Date: 04/04/2019

Expiration Date: 10/04/2020

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 19N Rge: 18W County: DEWEY

SPOT LOCATION: ☐ SW ☐ SW ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 220 2400

Lease Name: ELAINE 12/13-19-18

Well No: 2H

Well will be 220 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

ROBERT T. HEDGES FAMILY, LLC  
P.O. BOX 634  
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 647113  
647109

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901389  
201901390  
201901869  
201901388

Special Orders:

Total Depth: 21000

Ground Elevation: 1838

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 200

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: 19-36424

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 13 Twp 19N Rge 18W County DEWEY

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2400

Depth of Deviation: 10056

Radius of Turn: 477

Direction: 181

Total Length: 10195

Measured Total Depth: 21000

True Vertical Depth: 10600

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

### Notes:

#### Category

#### Description

#### HYDRAULIC FRACTURING

3/27/2019 - 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](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

3/27/2019 - 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

3/27/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

#### PENDING CD - 201901388

4/3/2019 - GA8 - 13-19N-18W  
X647109 MSSP  
3 WELLS  
TAPSTONE ENERGY, LLC  
REC 3/26/2019 (MILLER)

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

043 23696 ELAINE 12/13-19-18 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 - 201901389	4/3/2019 - GA8 - (I.O.) 12 & 13-19N-18W EST MULTIUNIT HORIZONTAL WELL X647113 MSSP 12-19N-18W X647109 MSSP 13-19N-18W 50% 12-19N-18W 50% 13-19N-18W NO OP. NAMED REC. 3/26/2019 (MILLER)
PENDING CD - 201901390	4/3/2019 - GA8 - (I.O.) 12 & 13-19N-18W X647113 MSSP 12-19N-18W X647109 MSSP 13-19N-18W COMPL. INT. (12-19N-18W) NCT 150' FNL, 0' FSL, NCT 1320' FEL COMPL. INT. (13-19N-18W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL NO OP. NAMED REC 3/26/2019 (MILLER)
PENDING CD - 201901869	4/3/2019 - GA8 - 12-19N-18W X647113 MSSP 2 WELLS TAPSTONE ENERGY, LLC HEARING 4/16/2019
SPACING - 647109	4/3/2019 - GA8 - (640)(HOR) 13-19N-18W VAC 82101 MCSTR EST MSSP COMPL. INT. NLT 660' FB
SPACING - 647113	4/3/2019 - GA8 - (640)(HOR) 12-19N-18W VAC 82101 MCSTR EXT 644112 MSSP COMPL. INT. NLT 660' FB

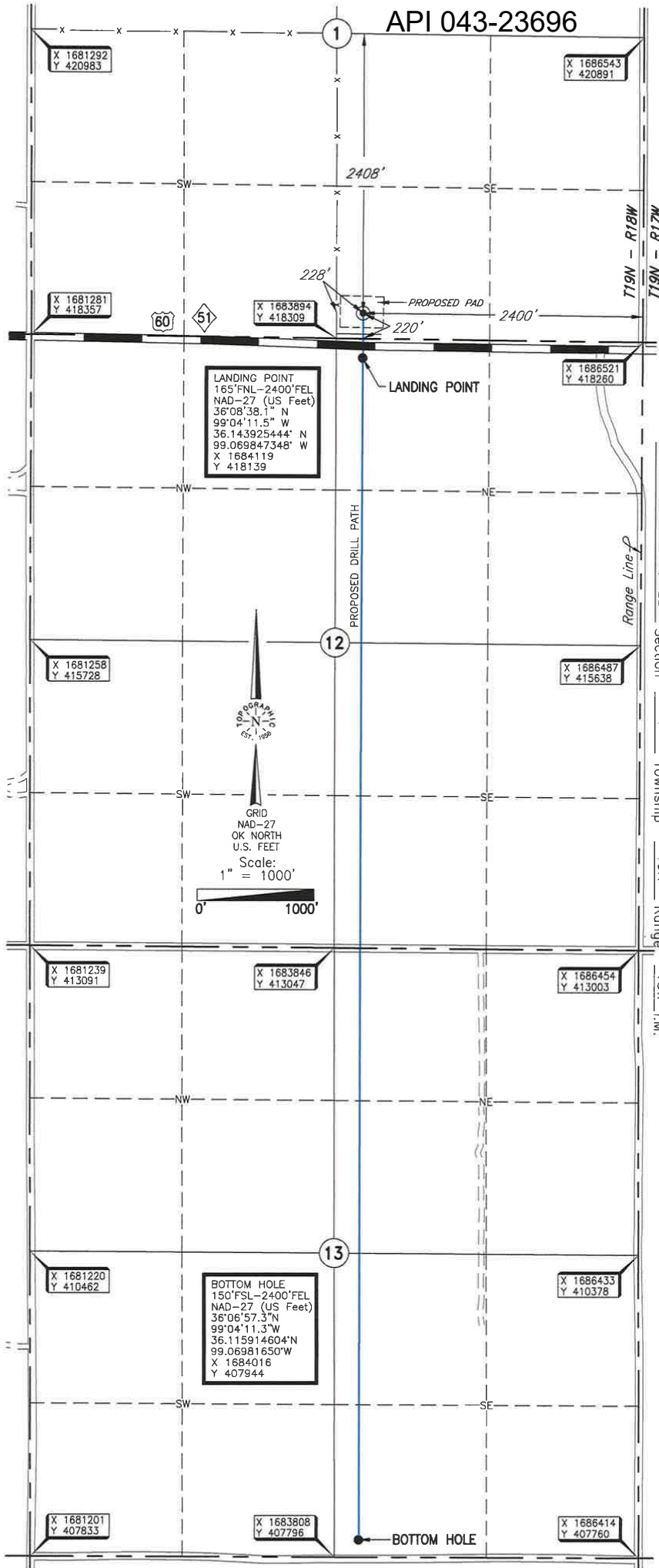
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API 043-23696

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
 13800 Wireless Way, Okla. City, OK 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
 DEWEY Certificate of Authorization No. 1293 LS  
 County, Oklahoma  
 Section 1 Township 19N Range 18W 1.M.



Operator: TAPSTONE ENERGY  
 Lease Name: ELAINE 12/13-19-18 Well No.: 2H  
 Topography & Vegetation Location fell in terraced wheat field  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From South off US Hwy. 60 and St. Hwy. 51  
 Distance & Direction from Hwy Jct or Town From Sealing, OK, go ±7.7 mi. West on US Hwy. 60/St. Hwy. 51 to the SE Corner of Section 1, T19N - R18W.

**ELEVATION:**  
 1838' Gr. at Stake

DATUM: NAD-27  
 LAT: 36°08'41.9"N  
 LONG: 99°04'11.5"W  
 LAT: 36.144982771"N  
 LONG: 99.069847350"W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1684123  
 Y: 418524

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

**NOTE:**

- THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY
- LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

**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



Revision ☒ A Date of Drawing: March 1, 2019  
 Project # 124078 Date Staked: February 28, 2019  
 RKM