

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

API NUMBER: 153 23624

Approval Date: 06/14/2018

Expiration Date: 12/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 20N Rge: 17W

County: WOODWARD

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 440 2020

Lease Name: FORBES 25/24 20-17

Well No: 2H

Well will be 440 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

DANIEL R. BRECKENRIDGE  
57843 S. COUNTY ROAD 225  
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9800	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 661944  
673655  
678875

Location Exception Orders: 678823

Increased Density Orders: 678822  
678821

Pending CD Numbers:

Special Orders:

Total Depth: 19300

Ground Elevation: 1794

**Surface Casing: 190**

Depth to base of Treatable Water-Bearing FM: 40

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: 18-34609

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 24 Twp 20N Rge 17W County WOODWARD

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 9023

Radius of Turn: 573

Direction: 359

Total Length: 9376

Measured Total Depth: 19300

True Vertical Depth: 9800

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

### Notes:

#### Category

#### Description

HYDRAULIC FRACTURING

6/13/2018 - 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](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)

INCREASED DENSITY - 678821

6/13/2018 - G57 - 24-20N-17W  
X661944 MSSP  
2 WELLS  
TAPSTONE ENERGY, LLC.  
6-6-2018

INCREASED DENSITY - 678822

6/13/2018 - G57 - 25-20N-17W  
X673655 MSSP  
3 WELLS  
TAPSTONE ENERGY, LLC.  
6-6-2018

INTERMEDIATE CASING

6/13/2018 - 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

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

153 23624 FORBES 25/24 20-17 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
LOCATION EXCEPTION - 678823	6/13/2018 - G57 - (I.O.) 25 & 24-20N-17W X673655 25-20N-17W X661944 24-20N-17W COMPL. INT. (25-20N-17W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (24-20N-17W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL TAPSTONE ENERGY, LLC. 6-6-2018
MEMO	6/13/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 661944	6/13/2018 - G57 - (640)(HOR) 24-20N-17W VAC OTHER VAC 55987 CSTR VAC 129845 STGV, STLS, SPWR, OSGE EXT 658187 MSSP POE TO BHL NLT 660' FB
SPACING - 673655	6/13/2018 - G57 - (640)(HOR) 25-20N-17W VAC 55987 CSTR VAC 129845 STGV, STLS, SPWR, OSGE EXT 661944 MSSP POE TO BHL NLT 660' FB
SPACING - 678875	6/13/2018 - G57 - (I.O.) 25 & 24-20N-17W EST MULTIUNIT HORIZONTAL WELL X673655 MSSP 25-20N-17W X661944 MSSP 24-20N-17W 50% 25-20N-17W 50% 24-20N-17W TAPSTONE ENERGY, LLC. 6-7-2018

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS

WOODWARD

County, Oklahoma

440' FSL - 2020' FWL Section 25 Township 20N Range 17W I.M.



**ELEVATION:**  
1794' Gr. at

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

Invoice # 292945B Date of Drawing: May 02, 2018  
Date Staked: Apr. 27, 2018

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