

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

API NUMBER: 153 23643 A

Approval Date: 03/08/2019  
Expiration Date: 09/08/2020

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: CHANGED SHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 20N Rge: 18W County: WOODWARD  
SPOT LOCATION: N2 NE SE NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 1600 330

Lease Name: HLC 36/25-20-18 Well No: 2H Well will be 330 feet from nearest unit or lease boundary.  
Operator TAPSTONE ENERGY LLC Telephone: 4057021600 OTC/OCC Number: 23467 0  
Name:

TAPSTONE ENERGY LLC  
100 E MAIN ST  
OKLAHOMA CITY, OK 73104-2509

STATE OF OKLAHOMA  
204 N. ROBINSON, SUITE 900  
C/O COMMISSIONERS OF THE LAND OFFICE  
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10800	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 684814 Location Exception Orders: 690795 Increased Density Orders: 690792  
684815 690793  
690794

Pending CD Numbers:

Special Orders:

Total Depth: 17202 Ground Elevation: 1838 Surface Casing: 290 Depth to base of Treatable Water-Bearing FM: 120

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: 19-36176  
H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is 18 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 25 Twp 20N Rge 18W County WOODWARD

Spot Location of End Point: NE NW NE NE

Feet From: NORTH 1/4 Section Line: 179

Feet From: EAST 1/4 Section Line: 855

Depth of Deviation: 10247

Radius of Turn: 561

Direction: 359

Total Length: 6073

Measured Total Depth: 17202

True Vertical Depth: 10800

End Point Location from Lease,  
Unit, or Property Line: 179

Notes:

Category

Description

HYDRAULIC FRACTURING

2/5/2019 - 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)

INCREASED DENSITY - 690792

3/6/2019 - G56 - 36-20N-18W  
X684815 MSSP  
2 WELLS  
TAPSTONE ENERGY, LLC  
2/1/2019

INCREASED DENSITY - 690793

3/6/2019 - G56 - 25-20N-18W  
X684814 MSSP  
2 WELLS  
TAPSTONE ENERGY, LLC  
2/1/2019

INTERMEDIATE CASING

2/5/2019 - 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

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

The duration of this permit is 18 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.

153 23643 HLC 36/25-20-18 2H

LOCATION EXCEPTION - 690795	3/6/2019 - G56 - (I.O.) 25 & 36-20N-18W X684815 MSSP 36-20N-18W X684814 MSSP 25-20N-18W COMPL INT (36-20N-18W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL INT (25-20N-18W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL TAPSTONE ENERGY, LLC 2/1/2019
MEMO	2/5/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 684814	3/6/2019 - G56 - (640)(HOR) 25-20N-18W VAC 57549/57610 CRLM EXT 679616 MSSP COMPL INT NCT 660' FB
SPACING - 684815	3/6/2019 - G56 - (640)(HOR) 36-20N-18W VAC 119799 MSCST EXT 679616 MSSP COMPL INT NCT 660' FB
SPACING - 690794	3/6/2019 - G56 - (I.O.) 36 & 25-20N-18W ESTABLISH MULTIUNIT HORIZONTAL WELL X684815 MSSP 36-20N-18W X684814 MSSP 25-20N-18W 33.33% 36-20N-18W 66.67% 25-20N-18W TAPSTONE ENERGY, LLC 2/1/2019

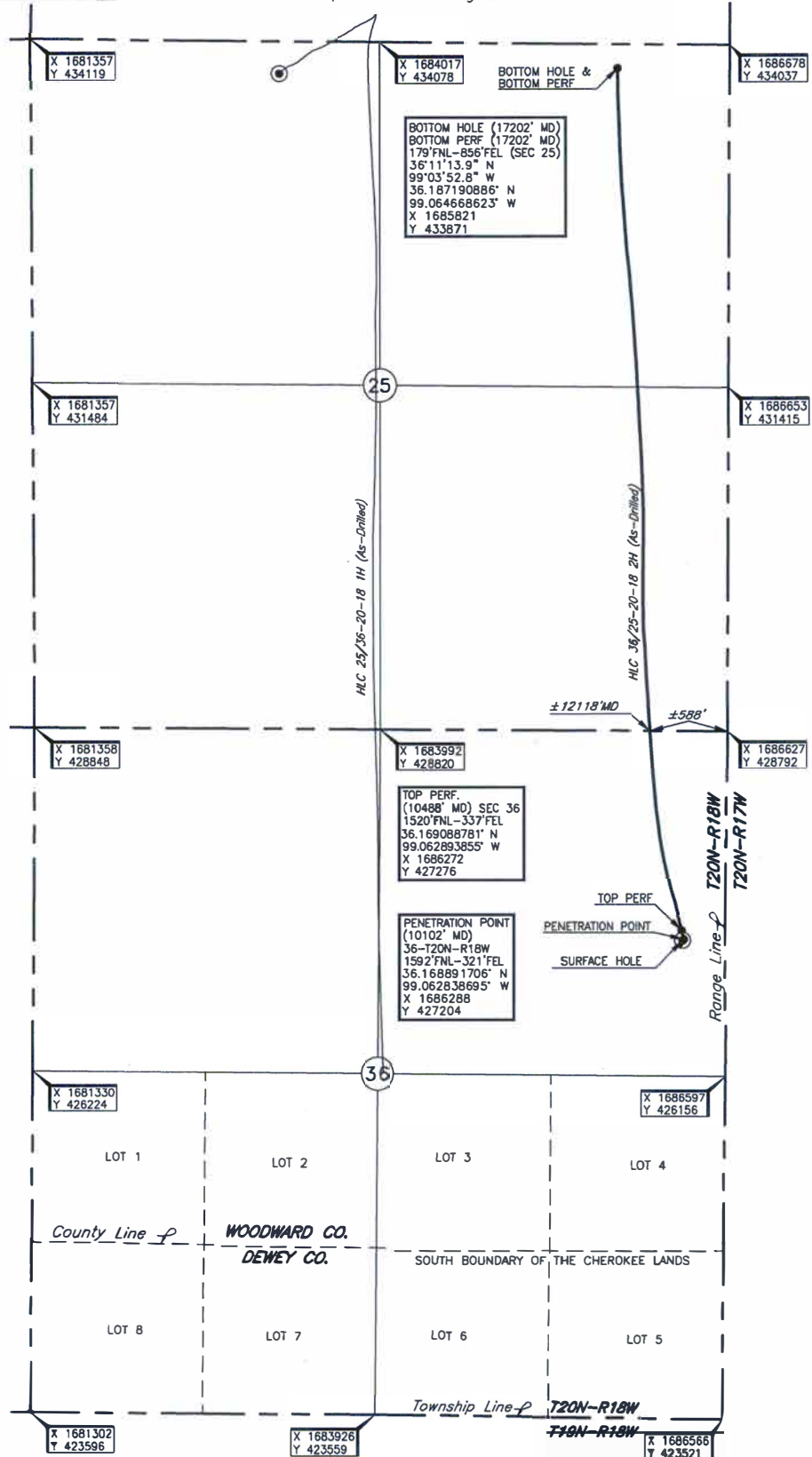
153-23643A

## 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 LSREVISION A  
7-10-19

WOODWARD County, Oklahoma

1600' FNL - 330' FEL Section 36 Township 20N Range 18W I.M.



Operator: TAPSTONE ENERGY  
 Lease Name: HLC 36/25 20-18  
 Topography & Vegetation: Loc. fell in rolling slope grass pasture.  
 Good Drill Site? Yes  
 Reference Stakes or Alternate Location: Stakes Set None  
 Best Accessibility to Location: From East off county road  
 Distance & Direction from Hwy Jct or Town: From US Hwy. 183/US Hwy. 270 at the Woodward-Major county line, go ±0.5 mile Northwest, then go ±5.5 miles West to the Northeast corner of Section 36, T20N-R18W.

ELEVATION:

1838' Gr. at Stake

DATUM: NAD-27  
 LAT: 36°10'07.9" N  
 LONG: 99°03'46.3" W  
 LAT: 36.168869082° N  
 LONG: 99.062868857° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1686279  
 Y: 427196

Project # 124296 Date of Drawing: July 03, 2019 TR  
 Date Staked: Aug. 24, 2018

## FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION  
 FURNISHED BY TAPSTONE ENERGY