

API NUMBER: 153 23641 A

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

Approval Date: 01/30/2019

Expiration Date: 07/30/2020

Horizontal Hole Oil & Gas

Amend reason: UPDATE ORDER

**AMEND PERMIT TO DRILL**

WELL LOCATION: Section: 31 Township: 20N Range: 17W County: WOODWARD

SPOT LOCATION:  NW  NW  NW  NE  
FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 200 2450

Lease Name: ENGLAND 30-20-17 Well No: 2H 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

VICKIE RAPP  
58365 SCR 222  
MUTUAL OK 73853

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	10700

Spacing Orders: 679616

Location Exception Orders: 703095

Increased Density Orders: 688523

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 15700

Ground Elevation: 1817

**Surface Casing: 230**

Depth to base of Treatable Water-Bearing FM: 80

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

**Approved Method for disposal of Drilling Fluids:**

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-36020  
H. SEE MEMO

**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: BED AQUIFER

Pit Location Formation: RUSH SPRINGS

**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

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.

**HORIZONTAL HOLE 1**

Section: 30	Township: 20N	Range: 17W	Total Length: 4811
County: WOODWARD			Measured Total Depth: 15700
Spot Location of End Point: NW	NW	NW	NE
Feet From: <b>NORTH</b>	1/4 Section Line: 150		True Vertical Depth: 10700
Feet From: <b>EAST</b>	1/4 Section Line: 2420		End Point Location from Lease, Unit, or Property Line: 150

**NOTES:**

Category	Description
HYDRAULIC FRACTURING	<p>12/31/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
INCREASED DENSITY - 688523	<p>1/30/2019 - G58 - 30-20N-17W X679616 MSSP 3 WELLS TAPSTONE ENERGY, LLC 12/18/2018</p>
INTERMEDIATE CASING	<p>12/31/2018 - 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</p>
LOCATION EXCEPTION - 703095	<p>4/27/2020 - GB1 - (F.O.) 30-20N-17W X679616 MSSP SHL (31-20N-17W) 200' FNL, 2450' FEL FIRST PERF 313' FSL, 2390' FEL LAST PERF 181' FNL, 2403' FEL TAPSTONE ENERGY, LLC 10/2/2019</p>
MEMO	<p>12/31/2018 - G71 - PITS 1 &amp; 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
SPACING - 679616	<p>1/30/2019 - G58 - (640)(HOR) 30-20N-17W VAC 57549/57610 CRLM VAC 562307 MSSLM EXT 657861 MSSP POE TO BHL NLT 660' FB</p>

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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.

153 23641 ENGLAND 30-20-17 2H