

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

API NUMBER: 043 23494

Approval Date: 01/10/2017
Expiration Date: 07/10/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 19N Rge: 18W County: DEWEY
SPOT LOCATION: N2 N2 NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 300 1980

Lease Name: RAPP 1-19-18 Well No: 1H Well will be 300 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

MICHAEL A. RAPP & VICKIE L. RAPP
RT. 1, BOX 810
MUTUAL OK 73853

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: 648233

Location Exception Orders: 650363

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15600

Ground Elevation: 1809

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

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 17-32001

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 01 Twp 19N Rge 18W County DEWEY

Spot Location of End Point: N2 N2 NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 10025

Radius of Turn: 477

Direction: 360

Total Length: 4826

Measured Total Depth: 15600

True Vertical Depth: 10600

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

Notes:

Category

Description

HYRAULIC FRACTURING

1/6/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

1/6/2017 - 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

LOCATION EXCEPTION - 650363

1/9/2017 - G75 - (I.O.) 1-19N-18W
X648233 MSSP
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1220' FEL
TAPSTONE ENERGY, LLC
3-1-2016

MEMO

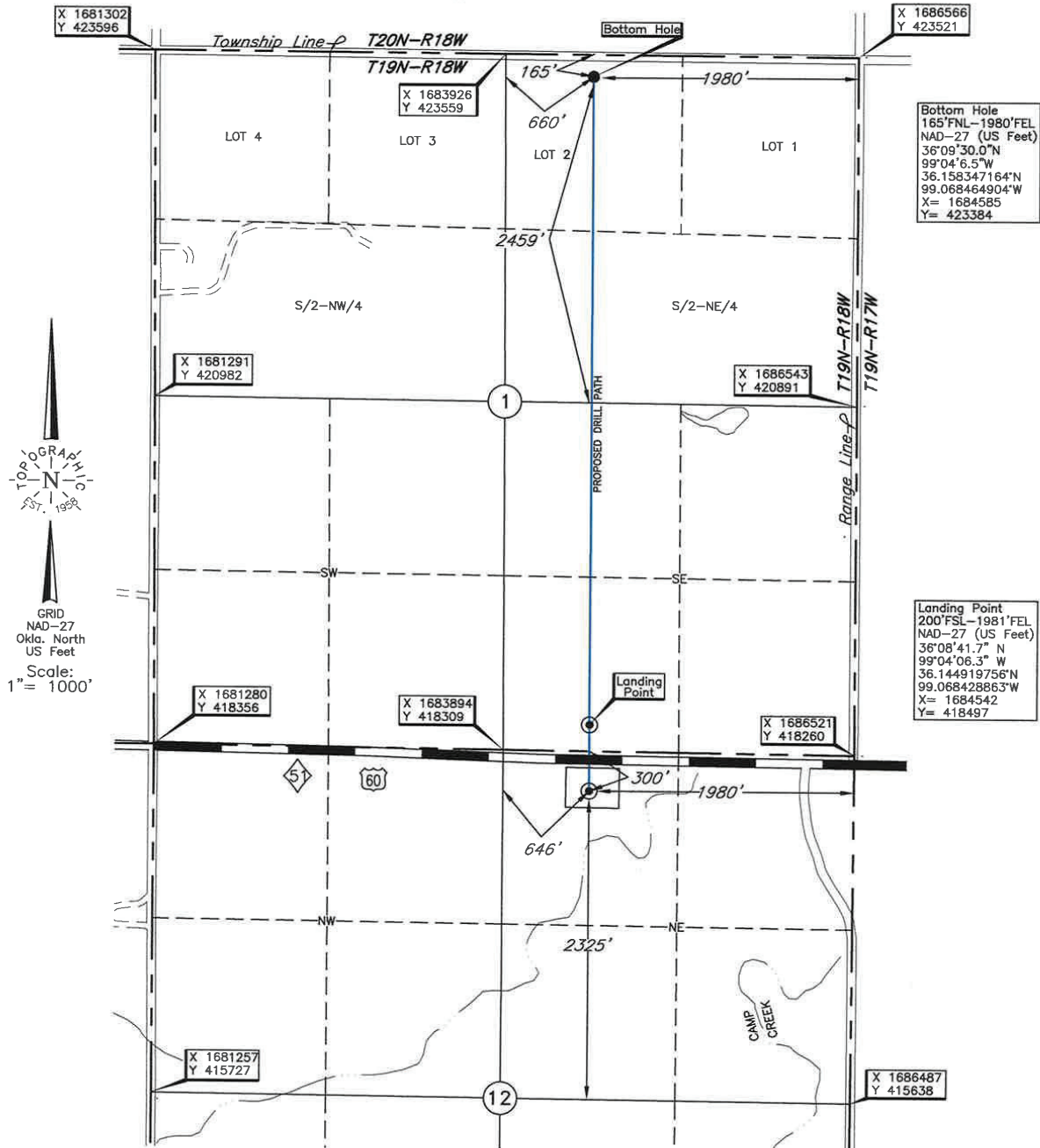
1/6/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 648233

1/9/2017 - G75 - (640)(HOR) 1-19N-18W
VAC 119799 MCSTR
EXT 644112 MSSP
COMPL. INT. NLT 660' FB

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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.

300'FNL-1980'FEL Section 12 Township 19N Range 18W I.M.



Bottom Hole and Drill Path information provided by operator listed, NOT Surveyed.

NOTE:
The information shown herein is for construction purposes ONLY.

Operator: TAPSTONE ENERGY
 Lease Name: RAPP 1-19-18 Well No.: 1H **ELEVATION:** 1809' Gr. at Stake

Topography & Vegetation Loc. fell in terraced pasture, sloping downhill to south

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North off US. Hwy. 60/St. Hwy. 51
 Distance & Direction From the Jct. of St. Hwy. 51-US. Hwy. 60 & US. Hwy. 183 N-S West of Seiling, Ok, go ±6 miles West on St. Hwy. 51/US. Hwy. 60 to the NE Cor. of Sec. 12-T19N-R18W

DATUM: NAD-27
 LAT: 36°08'36.8"N
 LONG: 99°04'06.3"W
 LAT: 36.143546011° N
 LONG: 99.068425177° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1684537
 Y: 417997

Revision A Date of Drawing: Jan. 05 2017
 Invoice # 250655 Date Staked: Sep. 29, 2015 LC

CERTIFICATE:
 I, Lee K. Goss 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. 1778



TOPOGRA
 N
 1988
 GRID
 NAD-27
 Okla. North
 US Feet
 Scale:
 1" = 1000'