

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

API NUMBER: 043 23641

Approval Date: 07/18/2018

Expiration Date: 01/18/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 19N Rge: 17W

County: DEWEY

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 205 400

Lease Name: BURCHETT 11/2-19-17

Well No: 1H

Well will be 205 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

CHRIS, CHERYL BURCHETT, TERESA B. MURRAY
CO-TRUSTEES
RT. 2, BOX 57
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: 666765

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804535
201804537
201804538
201804536

Special Orders:

Total Depth: 20700

Ground Elevation: 1840

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 210

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)
H. SEE MEMO

PERMIT NO: 18-34908

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 02 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 10018

Radius of Turn: 382

Direction: 2

Total Length: 10082

Measured Total Depth: 20700

True Vertical Depth: 10600

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

Notes:

Category

Description

DEEP SURFACE CASING

7/10/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

7/10/2018 - 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; 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

INTERMEDIATE CASING

7/10/2018 - 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

MEMO

7/10/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

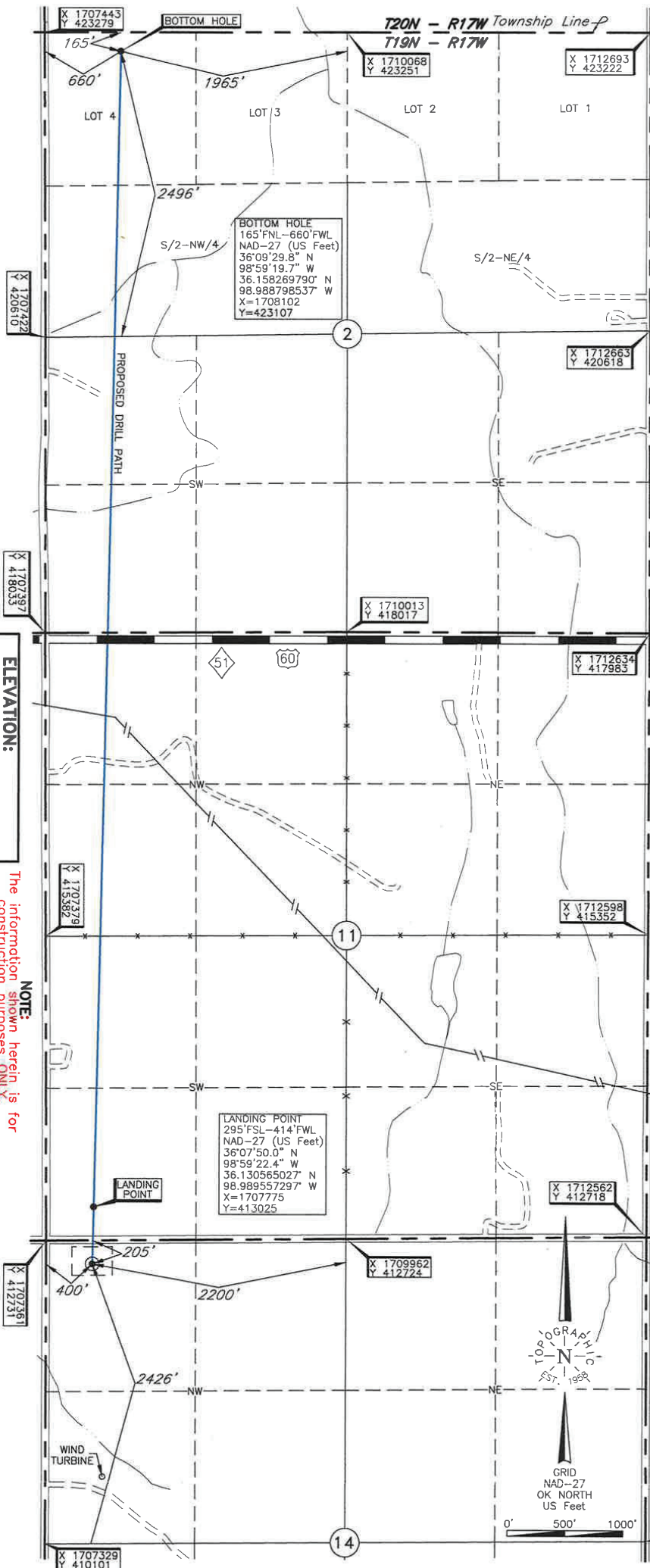
043 23641 BURCHETT 11/2-19-17 1H

Category	Description
PENDING CD - 201804535	7/16/2018 - G57 - (640)(HOR) 11-19N-17W VAC 125752 CSTR, MSSSD EXT 666765 MSSP POE TO BHL NLT 660' FB REC 7-3-2018 (MILLER)
PENDING CD - 201804536	7/16/2018 - G57 - 2-19N-17W X666765 MSSP 1 WELL NO OP. NAMED REC 7-3-2018 (MILLER)
PENDING CD - 201804537	7/16/2018 - G57 - (I.O.) 11 & 2-19N-17W EST MULTIUNIT HORIZONTAL WELL X201804535 MSSP 11-19N-17W X666765 MSSP 2-19N-17W 50% 11-19N-17W 50% 2-19N-17W TAPSTONE ENERGY, LLC. REC 7-3-2018 (MILLER)
PENDING CD - 201804538	7/16/2018 - G57 - (I.O.) 11 & 2-19N-17W X201804535 MSSP 11-19N-17W X666765 MSSP 2-19N-17W COMPL. INT. (11-19N-17W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (2-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL TAPSTONE ENERGY, LLC. REC 7-3-2018 (MILLER)
SPACING - 666765	7/16/2018 - G57 - (640)(HOR) 2-19N-17W VAC 204212 CSTR, MSSSD EST MSSP POE TO BHL NLT 660' FB

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 • OUT OF STATE (800) 654-3219
 DEWEY Certificate of Authorization No. 1293 LS County: Oklahoma
 205' FNL - 400' FWL Section 14 Township 19N Range 17W 11M.

LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION
 PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



BOTTOM HOLE
 165' FNL - 660' FWL
 NAD-27 (US Feet)
 36°09'29.8" N
 98°59'19.7" W
 36.158269790' N
 98.988798537' W
 X=1708102
 Y=423107

LANDING POINT
 295' FSL - 414' FWL
 NAD-27 (US Feet)
 36°07'50.0" N
 98°59'22.4" W
 36.130565027' N
 98.989557297' W
 X=1707775
 Y=413025

ELEVATION:
 1840' Gr. at Stake

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

Operator: TAPSTONE ENERGY
 Lease Name: BURCHETT 11/2-19-17 Well No.: 1H
 Topography & Vegetation Loc. fell in sloping pasture
 Good Drill Site? Yes Reference Stakes or Alternate Location
 Stakes Set None
 Best Accessibility to Location From North off county road
 Distance & Direction From Jct. St. Hwy. 51 E-W and US Hwy. 183 N-S, West of Sealing,
 from Hwy Jct or Town OK, go ±2.0 mi. West on St. Hwy. 51, then ±1.0 mi. South to the NW Cor. of Sec. 14-T19N-R17W

DATUM: NAD-27
 LAT: 36°07'45.1" N
 LONG: 98°59'22.5" W
 LAT: 36°12'91.91981" N
 LONG: 98°59'59.4888" W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1707759
 Y: 412525

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

Date of Drawing: May 23, 2018
 Invoice # 293485 Date Staked: May 21, 2018 AC

CERTIFICATE:

I, T. Wayne Fisch, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

T. Wayne Fisch
 Oklahoma Lic. No. 1378

