

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

API NUMBER: 043 23486

Approval Date: 11/08/2016
Expiration Date: 05/08/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 19N Rge: 17W County: DEWEY
SPOT LOCATION: SW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 400 2350

Lease Name: FRED 4-19-17 Well No: 1H Well will be 400 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

FRED M. SANDER & REBECCA SANDER
RT. 2, BOX 62
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS UPPER CHESTER)	11500	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 646339 Location Exception Orders: Increased Density Orders:
Pending CD Numbers: 201603923 Special Orders:

Total Depth: 16600 Ground Elevation: 1824 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 130

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: 16-31715
- H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 04 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2200

Depth of Deviation: 10815

Radius of Turn: 750

Direction: 1

Total Length: 4607

Measured Total Depth: 16600

True Vertical Depth: 11500

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

Notes:

Category	Description
DEEP SURFACE CASING	10/31/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	10/31/2016 - 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/ 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	10/31/2016 - 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
PENDING CD - 201603923	11/1/2016 - G75 - (I.O.) 4-19N-17W X646339 MSLUC COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 560' FEL NO OP. NAMED REC 10-17-2016 (THOMAS)
SPACING - 646339	11/1/2016 - G75 - (640) 4-19N-17W VAC 85657 MCSTR EST (VER) OTHER EST (HOR) MSLUC, OTHER COMPL. INT. NLT 660' FB

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DEWEY

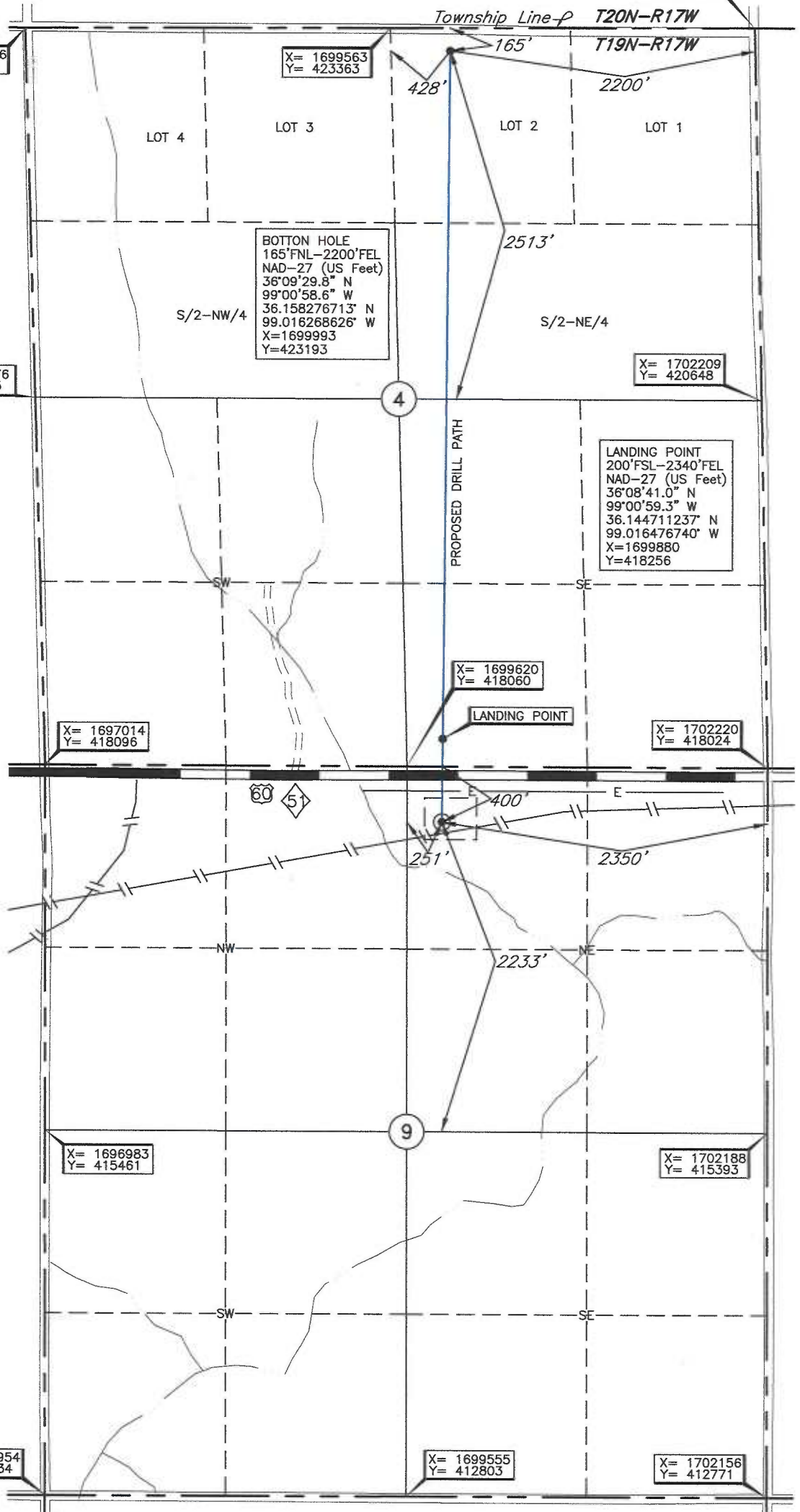
County, Oklahoma

400'FNL - 2350'FEL Section 9 Township 19N Range 17W I.M.

X= 1702192
Y= 423336



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



X= 1696936
Y= 423391

X= 1699563
Y= 423363

BOTTON HOLE
 165'FNL-2200'FEL
 NAD-27 (US Feet)
 36°09'29.8" N
 99°00'58.6" W
 36.158276713' N
 99.016268626' W
 X=1699993
 Y=423193

X= 1702209
Y= 420648

X= 1696976
Y= 420725

LANDING POINT
 200'FSL-2340'FEL
 NAD-27 (US Feet)
 36°08'41.0" N
 99°00'59.3" W
 36.144711237' N
 99.016476740' W
 X=1699880
 Y=418256

X= 1699620
Y= 418060

LANDING POINT

X= 1697014
Y= 418096

X= 1702220
Y= 418024

X= 1696983
Y= 415461

X= 1702188
Y= 415393

X= 1696954
Y= 412834

X= 1699555
Y= 412803

X= 1702156
Y= 412771

Operator: TAPSTONE ENERGY
 Lease Name: FRED 4-19-17
 Topography & Vegetation Loc. fell in sloped grass pasture, ±225' South of powerline;
 Well No.: 1H
ELEVATION:
1824' Gr. at Stake

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

Best Accessibility to Location From North off St. Hwy. 51
 Distance & Direction From Sealing, OK, go ±4.7 mi. West on St. Hwy. 51 to the NE
 Cor. of Sec. 9-T19N-R17W

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

Revision **D** Date of Drawing: Nov. 08, 2016

Invoice # 264828 Date Staked: Sep. 09, 2016 AC

DATUM: NAD-27
 LAT: 36°08'35.0" N
 LONG: 99°00'59.4" W
 LAT: 36.143062868° N
 LONG: 99.016502023° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1699866
 Y: 417656

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

