

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

API NUMBER: 043 23690

Approval Date: 02/05/2019

Expiration Date: 08/05/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 19N Rge: 17W County: DEWEY

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 325 1815

Lease Name: DEENA 15/10-19-17

Well No: 1H

Well will be 325 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

DEENA LOUTHAN & RALPH LOUTHAN
RR 2, BOX 65
SEILING OK 73663

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: 664843
686803
690798

Location Exception Orders: 690799

Increased Density Orders: 690796
690797

Pending CD Numbers:

Special Orders:

Total Depth: 20600

Ground Elevation: 1828

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)

PERMIT NO: 18-36047

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 10 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: NE NE NE NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 2600

Depth of Deviation: 10210

Radius of Turn: 522

Direction: 5

Total Length: 9570

Measured Total Depth: 20600

True Vertical Depth: 10800

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

1/23/2019 - 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

1/23/2019 - 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; 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

INCREASED DENSITY - 690796

2/5/2019 - G56 - 15-19N-17W
X686803 MSSP
3 WELLS
TAPSTONE ENERGY, LLC
2/1/2019

INCREASED DENSITY - 690797

2/5/2019 - G56 - 10-19N-17W
X664843 MSSP
2 WELLS
TAPSTONE ENERGY, LLC
2/1/2019

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

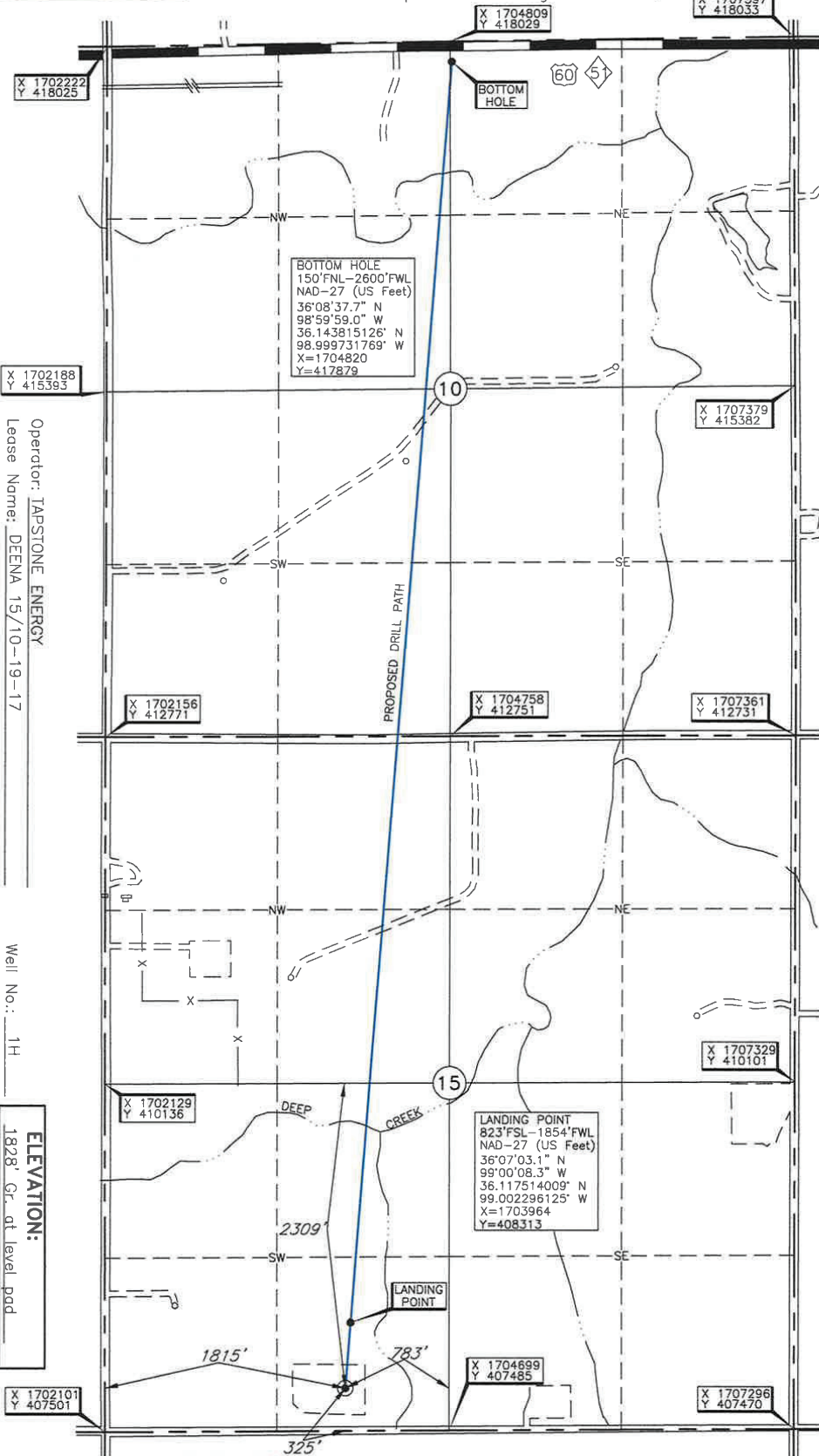
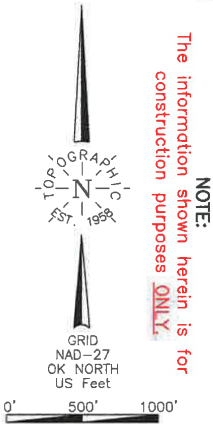
043 23690 DEENA 15/10-19-17 1H

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.

Category	Description
INTERMEDIATE CASING	1/23/2019 - 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
LOCATION EXCEPTION - 690799	2/5/2019 - G56 - (I.O.) 15 & 10-19N-17W X686803 MSSP 15-19N-17W X664843 MSSP 10-19N-17W COMPL INT (15-19N-17W) NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL COMPL INT (10-19N-17W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FWL TAPSTONE ENERGY, LLC 2/1/2019
MEMO	1/23/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (DEEP CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 664843	2/5/2019 - G56 - (640)(HOR) 10-19N-17W VAC 151390 MSCST EXT 661124 MSSP COMPL INT NLT 660' FB
SPACING - 686803	2/5/2019 - G56 - (640)(HOR) 15-19N-17W EXT OTHER VAC 85657 MSCST EXT 667857 MSSP COMPL INT NCT 660' FB
SPACING - 690798	2/5/2019 - G56 - (I.O.) 15 & 10-19N-17W ESTABLISH MULIUNIT HORIZONTAL WELL X686803 MSSP 15-19N-17W X664843 MSSP 10-19N-17W 50% 15-19N-17W 50% 10-19N-17W TAPSTONE ENERGY, LLC 2/1/2019

DEWEY County, Oklahoma
325' FSL - 1815' FWL Section 15 Township 19N Range 17W I.M.



Operator: JAPSTONE ENERGY
Lease Name: DEENA 15/10-19-17
Topography & Vegetation Loc. fell on level pad
Well No.: 1H
ELEVATION: 1828' Gr. at level pad
Good Drill Site? Yes
Reference Stakes or Alternate Location Stakes Set None
Best Accessibility to Location From South of county road
Distance & Direction From US Hwy. 183 N-S and St. Hwy. 51 E-W, go ±3.0 mi. West on US Hwy. 51, then ±2.0 mi. South to the SW Cor. of Sec. 15-119N-R17W

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

DATUM: NAD-27
LAT: 36°06'58.1" N
LONG: 99°00'08.7" W
LAT: 36.116144719° N
LONG: 99.002429583° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1703919
Y: 407815

Date of Drawing: Jan. 09, 2019
Invoice # 305355 Date Staked: Oct. 22, 2018 JP

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433

