

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

API NUMBER: 043 23681

Approval Date: 01/14/2019

Expiration Date: 07/14/2020

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 19N Rge: 17W County: DEWEY
SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW
FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 150 460

Lease Name: DEENA 15/10-19-17 Well No: 2H Well will be 150 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

ALAN A. MEYER & LINDA F. MEYER
214593 E. 730 RD
CAMARGO OK 73935

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10900	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 664843
686803

Location Exception Orders:

Increased Density Orders: 686938

Pending CD Numbers: 201805695
201805696

Special Orders:

Total Depth: 21200 Ground Elevation: 1846 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 220

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: 19-36071
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: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 10316

Radius of Turn: 525

Direction: 1

Total Length: 10060

Measured Total Depth: 21200

True Vertical Depth: 10900

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

Notes:

Category

Description

DEEP SURFACE CASING

1/8/2019 - 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

1/8/2019 - 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 - 686938

1/14/2019 - G56 - 10-19N-17W
X664843 MSSP
1 WELL
TAPSTONE ENERGY, LLC
11/20/2018

INTERMEDIATE CASING

1/8/2019 - 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

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

043 23681 DEENA 15/10-19-17 2H

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
MEMO	1/8/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - DEEP CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201805695	1/14/2019 - G56 - (I.O.) 15 & 10-19N-17W ESTABLISH MULIUNIT HORIZONTAL WELL X201804103 MSSP 15-19N-17W X664843 MSSP 10-19N-17W 50% 15-19N-17W 50% 10-19N-17W TAPSTONE ENERGY, LLC REC 10/12/2018 (THOMAS)
PENDING CD - 201805696	1/14/2019 - G56 - (I.O.) 15 & 10-19N-17W X201804103 MSSP 15-19N-17W X664843 MSSP 10-19N-17W COMPL INT (15-19N-17W) NCT 165' FSL, NCT 0' FNL, NCT 560' FWL COMPL INT (10-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 560' FWL NO OP NAMED REC 10/12/2018 (THOMAS)
SPACING - 664843	1/14/2019 - G56 - (640)(HOR) 10-19N-17W VAC 151390 MSCST EXT 661124 MSSP COMPL INT NLT 660' FB
SPACING - 686803	1/14/2019 - G56 - (640)(HOR) 15-19N-17W EXT OTHER VAC 85657 MSCST EXT 667857 MSSP COMPL INT NCT 660' FB

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

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

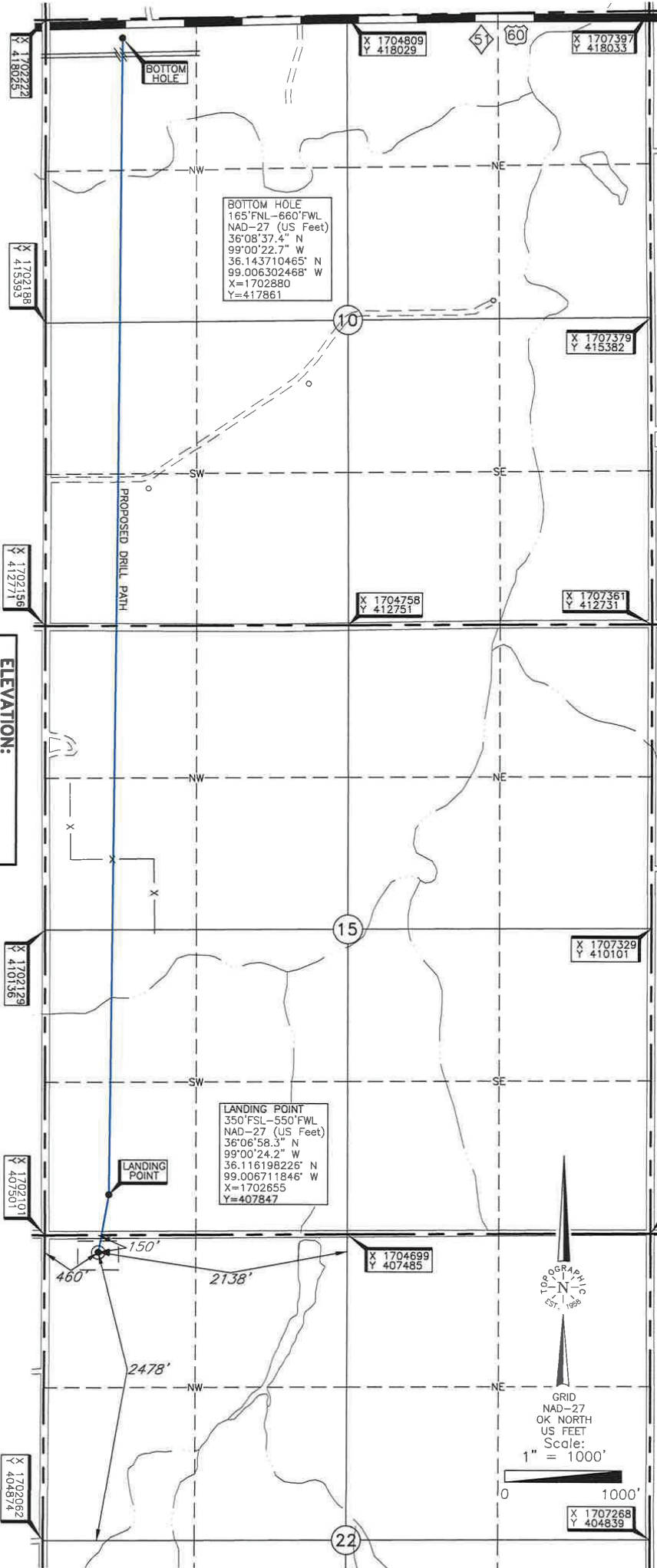
13600 Wireless Way, Okla. City, OK 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

DEWEY Certificate of Authorization No. 1293 LS

County, Oklahoma

150' FNL - 460' FNL Section 22 Township 19N Range 17W I.M.

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY



Operator: TAPSTONE ENERGY

Lease Name: DEENA 15/10-19-17

Well No.: 2H

Topography & Vegetation Loc. fell in level to slope grass posture

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. US Hwy. 183 N-S and St. Hwy. 51 E-W, West of Seiling, OK.

From Hwy Jct or Town From Jct. US Hwy. 183 N-S and St. Hwy. 51 E-W, West of Seiling, OK.

DATUM: NAD-27
LAT: 36°08'53.4" N
LONG: 99°00'25.3" W
LAT: 36°11'48.23478" N
LONG: 99°00'01.9081" W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1702559
Y: 407348

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

Revision ☒ B Date of Drawing: Jan. 14, 2019
Invoice # 309374 Date Staked: Dec. 18, 2018 AC

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.

Oklahoma Lic. No. 1433

