

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

API NUMBER: 043 23685

Approval Date: 01/23/2019

Expiration Date: 07/23/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 19N Rge: 17W

County: DEWEY

SPOT LOCATION: S2 S2 S2 SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 200 1320

Lease Name: HEATH 16/9-17

Well No: 3H

Well will be 200 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

KATHLEEN YAWGER, ET AL
61679 N. 2280 ROAD
SEILING OK 73663

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: 666760
661124

Location Exception Orders:

Increased Density Orders: 686941
686942

Pending CD Numbers: 201900276
201900275

Special Orders:

Total Depth: 20800

Ground Elevation: 1860

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 230

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: 19-36145

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 09 Twp 19N Rge 17W County DEWEY

Spot Location of End Point: N2 N2 N2 NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1320

Depth of Deviation: 10384

Radius of Turn: 477

Direction: 360

Total Length: 9667

Measured Total Depth: 20800

True Vertical Depth: 10900

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

Notes:

Category

Description

DEEP SURFACE CASING

1/22/2019 - 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

1/22/2019 - 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 - 686941

1/23/2019 - G75 - 9-19N-17W
X661124 MSSP
1 WELL
TAPSTONE ENERGY, LLC
11-20-2018

INCREASED DENSITY - 686942

1/23/2019 - G75 - 16-19N-17W
X666760 MSSP
1 WELL
TAPSTONE ENERGY, LLC
11-20-2018

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

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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.

043 23685 HEATH 16/9-19-17 3H

Category	Description
INTERMEDIATE CASING	1/22/2019 - 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
MEMO	1/22/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201900275	1/23/2019 - G75 - (E.O.) 16 & 9-19N-17W EST MULTIUNIT HORIZONTAL WELL X666760 MSSP 16-19N-17W X661124 MSSP 9-19N-17W 50% 16-19N-17W 50% 9-19N-17W TAPSTONE ENERGY, LLC REC 1-18-2019 (JACKSON)
PENDING CD - 201900276	1/23/2019 - G75 - (E.O.) 16 & 9-19N-17W X666760 MSSP 16-19N-17W X661124 MSSP 9-19N-17W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. (16-19N-17W) NCT 150' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (9-19N-17W) NCT 0' FSL, NCT 150' FNL, NCT 660' FEL TAPSTONE ENERGY, LLC REC 1-18-2019 (JACKSON)
SPACING - 661124	1/23/2019 - G75 - (640)(HOR) 9-19N-17W VAC 85657 MCSTR EST MSSP COMPL. INT. NLT 660' FB
SPACING - 666760	1/23/2019 - G75 - (640)(HOR) 16-19N-17W VAC 78413 MCSTR EXT 661124 MSSP COMPL. INT. NLT 660' FB

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

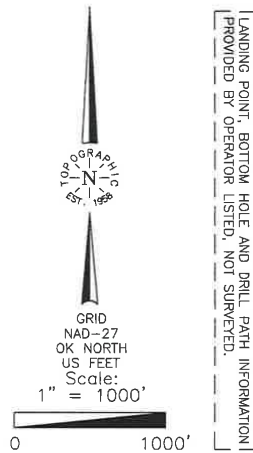
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

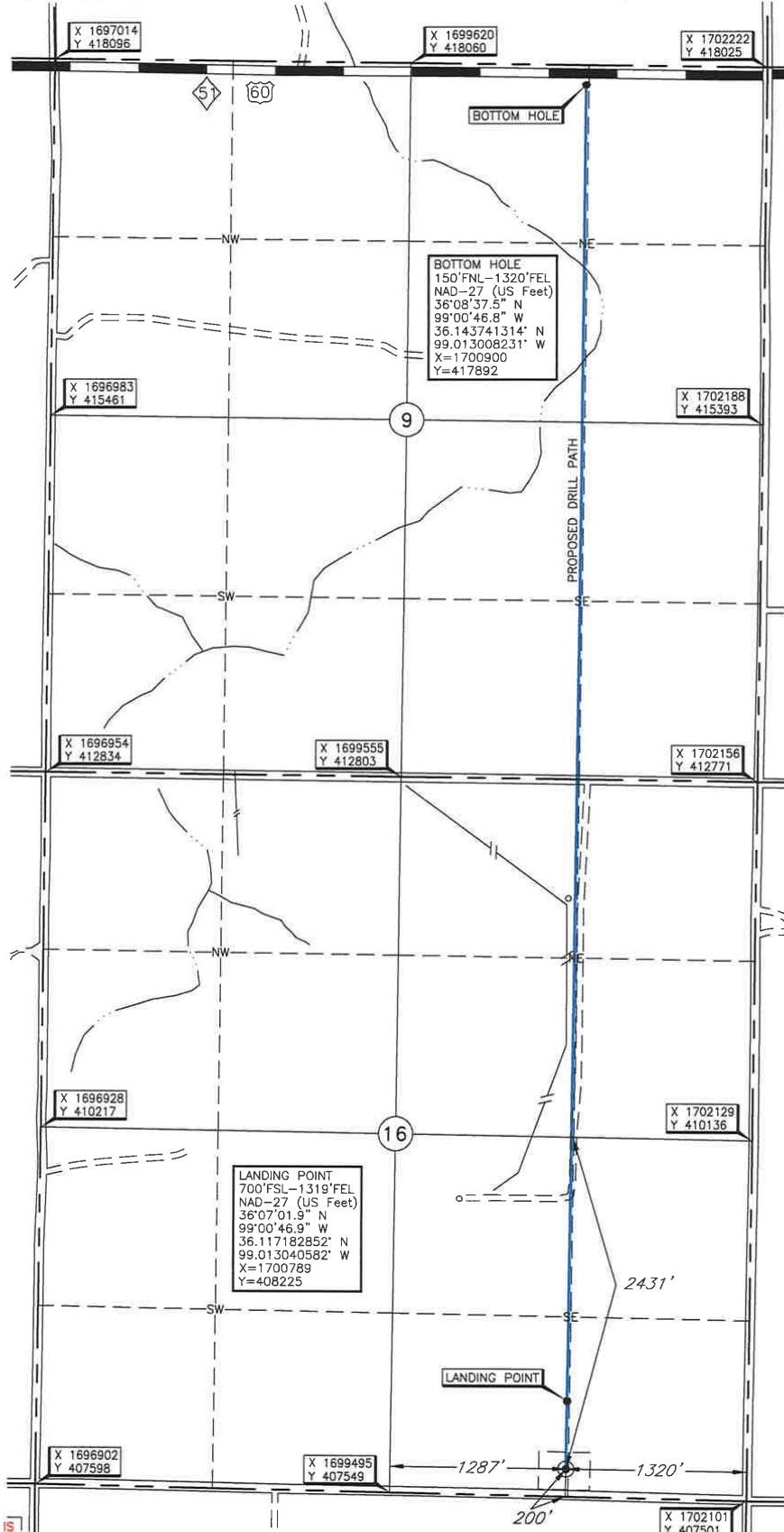
DEWEY

County, Oklahoma

200' FSL - 1320' FEL Section 16 Township 19N Range 17W I.M.



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



Operator: TAPSTONE ENERGY
Lease Name: HEATH 16/9-19-17
Topography & Vegetation Loc. fell in level grass pasture
Well No.: 3H
ELEVATION: 1860' Gr. at Stake

Good Drill Site? Yes
Best Accessibility to Location From South off county road
Distance & Direction From Selling, OK, go ±4.75 mi. West on St. Hwy. 51/US Hwy. 60, then ±2.0 mi. South to the SE Cor. of Sec. 16-119N-17W

Reference Stakes or Alternate Location
Stakes Set None

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

DATUM: NAD-27
LAT: 36°06'56.9"N
LONG: 99°00'47.0"W
LAT: 36.115809287° N
LONG: 99.013042254° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1700784
Y: 407725

Revision ☒ A Date of Drawing: Jan. 09, 2019
Invoice # 290934 Date Staked: Mar. 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

