

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

API NUMBER: 153 23627

Approval Date: 06/20/2018

Expiration Date: 12/20/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 20N Rge: 17W

County: WOODWARD

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 300 660

Lease Name: PATSY 13/12-20-17

Well No: 4H

Well will be 300 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

JAMES & PATSY SMART
57041 S. COUNTY ROAD 2265
SEILING OK 73663

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	8790	6	
2	MISSISSIPPIAN	9400	7	
3			8	
4			9	
5			10	

Spacing Orders: 672107
661944
678936

Location Exception Orders: 678815

Increased Density Orders: 676593
676594

Pending CD Numbers:

Special Orders:

Total Depth: 19100

Ground Elevation: 1720

Surface Casing: 370

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34610
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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 12 Twp 20N Rge 17W County WOODWARD

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: 8791

Radius of Turn: 477

Direction: 360

Total Length: 9560

Measured Total Depth: 19100

True Vertical Depth: 9400

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

Notes:

Category

Description

HYDRAULIC FRACTURING

5/29/2018 - 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

INCREASED DENSITY - 676593

6/20/2018 - G75 - 13-20N-17W
X661944 MSSP
3 WELLS
TAPSTONE ENERGY, LLC
4-20-2018

INCREASED DENSITY - 676594

6/20/2018 - G75 - 12-20N-17W
X672107 MSNLC
3 WELLS
TAPSTONE ENERGY, LLC
4-20-2018

INTERMEDIATE CASING

5/29/2018 - 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

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

153 23627 PATSY 13/12-20-17 4H

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
LOCATION EXCEPTION - 678815	6/20/2018 - G75 - (I.O.) 13 & 12-20N-17W X661944 MSSP 13-20N-17W X672107 MSNLC 12-20N-17W COMPL. INT. (13-20N-17W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (12-20N-17W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL TAPSTONE ENERGY, LLC 6-6-2018
MEMO	5/29/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER); PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 661944	6/20/2018 - G75 - (640)(HOR) 13-20N-17W VAC OTHER VAC 129845 STGV, STLS, SPWR, OSGE VAC 142459 CSTR EXT 658187 MSSP COMPL. INT. NLT 660' FB
SPACING - 672107	6/20/2018 - G75 - (640)(HOR) 12-20N-17W VAC 129845 STGV, STLS, SPWR, OSGE EST MSNLC COMPL. INT. NLT 660' FB
SPACING - 678936	6/20/2018 - G75 - (I.O.) 13 & 12-20N-17W EST MULTIUNIT HORIZONTAL WELL X661944 MSSP 13-20N-17W X672107 MSNLC 12-20N-17W 47% 13-20N-17W 53% 12-20N-17W TAPSTONE ENERGY, LLC 6-8-2018

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

WOODWARD

County, Oklahoma

API 153-23627

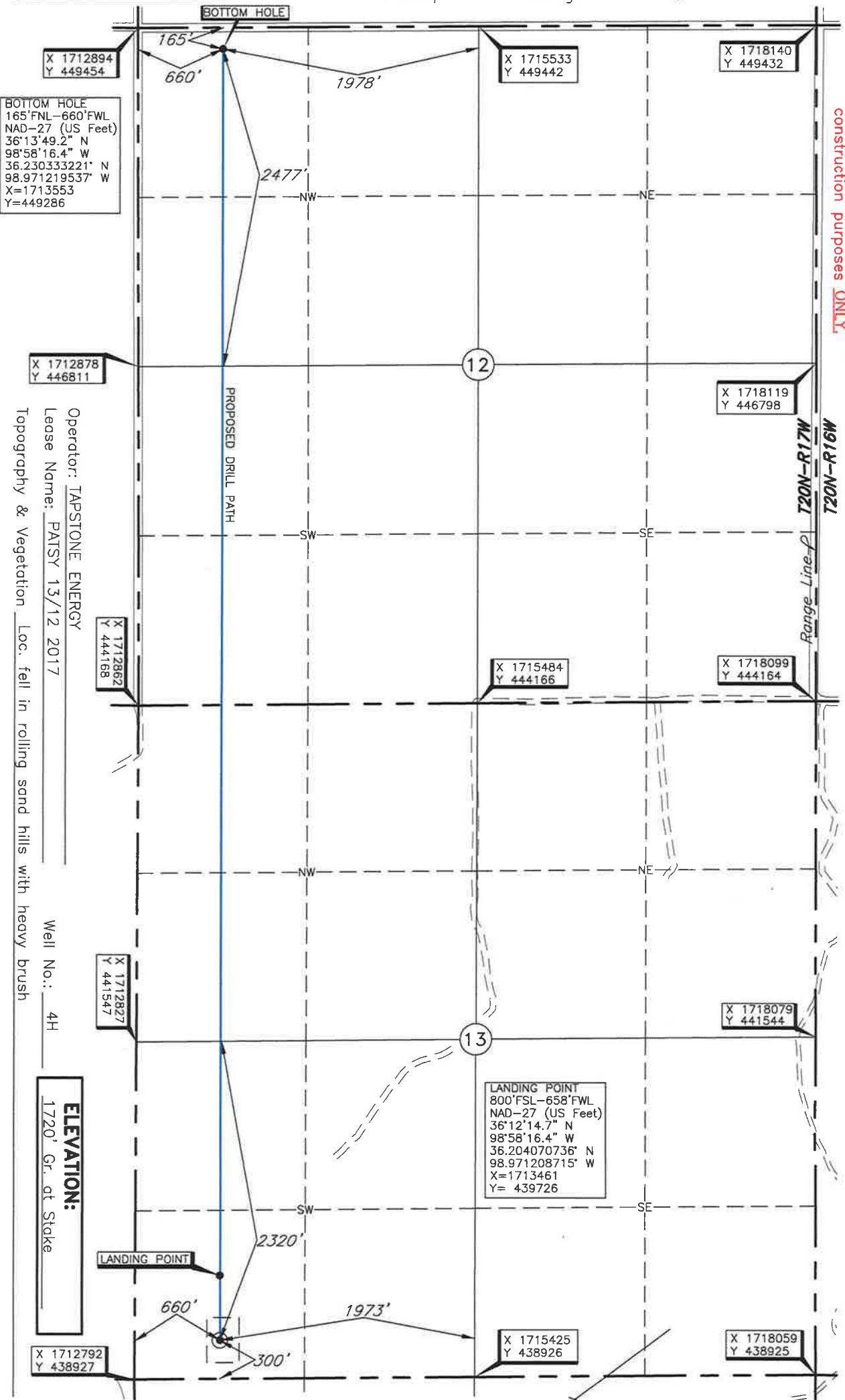
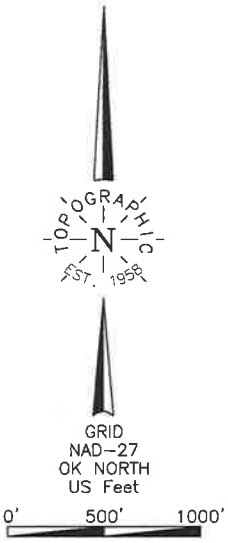
300'FSL-660'FWL

Section 13

Township 20N

Range 17W

I.M.



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

Operator: TAPSTONE ENERGY
Lease Name: PATSY 13/12 2017
Topography & Vegetation Loc. fell in rolling sand hills with heavy brush
Good Drill Site? Yes
Reference Stakes or Alternate Location Stakes Set None
Best Accessibility to Location From East off county road
Distance & Direction From Hwy Jct or Town From Chester, OK, go ± 2.0 mi. West to the NE Cor. of Sec. 13-20N-R17W,
then follow lease road South and West to the SW Cor. of Sec. 13-T20N-R17W

Operator: TAPSTONE ENERGY
Lease Name: PATSY 13/12 2017

Well No.: 4H

ELEVATION:
1720' Gr. at Stake

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

Date of Drawing: May 01, 2018

Invoice # 292474

Date Staked: Apr. 24, 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



DATUM: NAD-27
LAT: 36°12'09.7"N
LONG: 98°58'16.3"W
LAT: 36.202697191° N
LONG: 98.971208150° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1713456
Y: 439226