

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

API NUMBER: 043 23659

Approval Date: 10/01/2018

Expiration Date: 04/01/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 19N Rge: 14W

County: DEWEY

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 200 2030

Lease Name: ADAMS 24/13-19-14

Well No: 1H

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

SUSAN R. & THOMAS L. ADAMS
HCR 65, BOX 126
CANTON OK 73724

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	9600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807498
201807697

Special Orders:

Total Depth: 19600

Ground Elevation: 1692

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 160

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? N

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: 18-35451

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: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? N

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 13 Twp 19N Rge 14W County DEWEY

Spot Location of End Point: N2 N2 NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 8810

Radius of Turn: 477

Direction: 1

Total Length: 10040

Measured Total Depth: 19600

True Vertical Depth: 9600

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

Additional Surface Owner	Address	City, State, Zip
THE SUSAN ROCHELLE ADAMS RE		,
THE SUSAN ROCHELLE ADAMS RE		,

Notes:

Category

Description

DEEP SURFACE CASING

10/1/2018 - G57 - 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

10/1/2018 - G57 - 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

INTERMEDIATE CASING

10/1/2018 - G57 - 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

10/1/2018 - G57 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

043 23659 ADAMS 24/13-19-14 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
PENDING CD - 201807497	<p>10/1/2018 - G57 - (E.O.) 24 & 13-19N-14W X201807497 MSNLC ** COMPL. INT. (24-19N-14W) NCT 150' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (13-19N-14W) NCT 0' FSL, NCT 150' FNL, NCT 660' FEL TAPSTONE ENERGY, LLC. REC 9-28-2018 (P. PORTER)</p> <p>**S/B X201807697 MSNLC; WILL BE CORRECTED AT THE HEARING FOR THE FINAL ORDER PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201807697	<p>10/1/2018 - G57 - (E.O.)(1280)(HOR) 13 & 24-19N-14W VAC 121423 MSSSD EST MSNLC POE TO BHL NCT 660' FB TAPSTONE ENERGY, LLC. REC 9-28-2018 (P. PORTER)</p>

API:043 23659

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

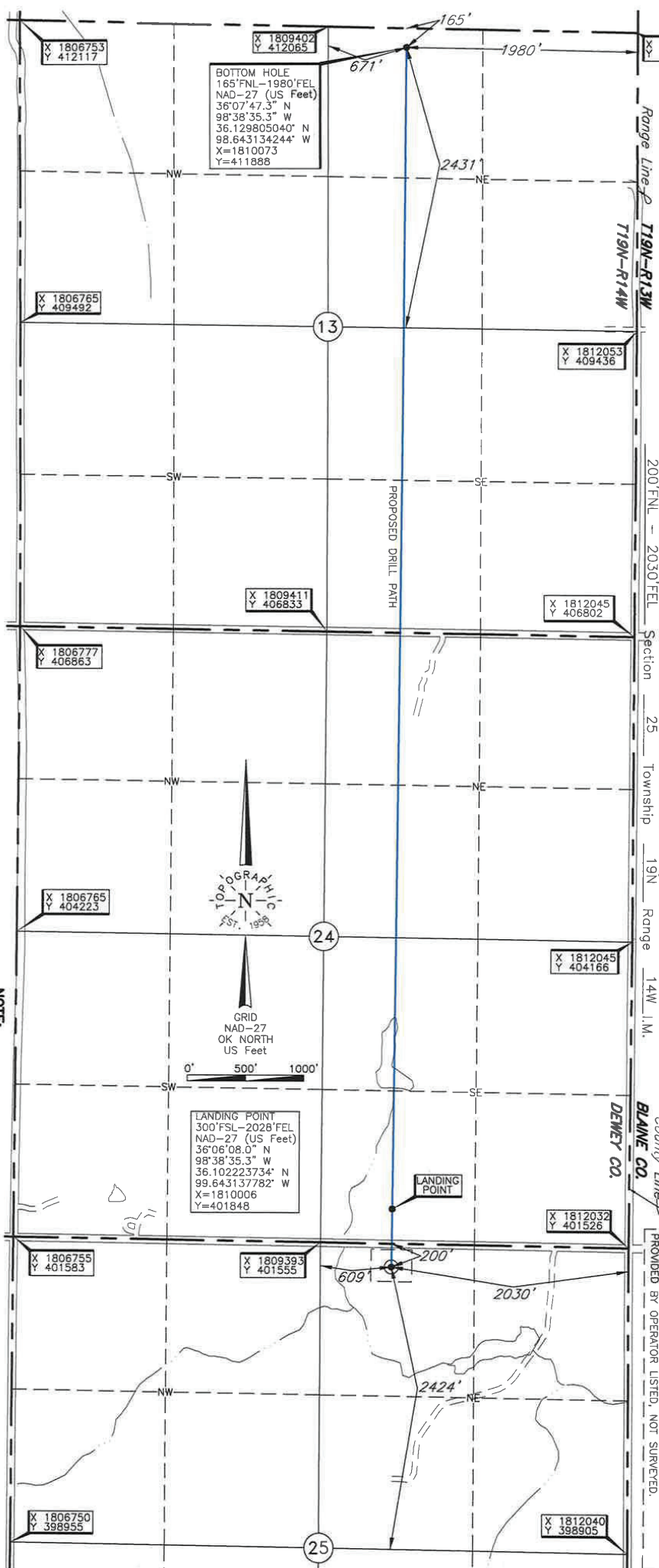
13800 Wireless Way, Okla. City, OK, 73134 (405) 843-4847 * OUT OF STATE (800) 654-3219
DEWEY Certificate of Authorization No. 1293 LS

County, Oklahoma

200' FNL - 2030' FEL Section 25 Township 19N Range 14W I.M.

BLAINE CO. DEWEY CO.

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



ELEVATION:

1692' Gr. at Stake

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

Operator: TAPSTONE ENERGY
Lease Name: ADAMS 24/13-19-14
Topography & Vegetation Loc. fell in terraced field
Well No.: 1H

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

Best Accessibility to Location From North off county road
Distance & Direction From Hwy Jct or Town From St. Hwy. 51 E-W and St. Hwy. 58A North, go ±3.0 mi. West on St. Hwy. 51, then ±3.0 mi. North, then ±1.0 mi. East to the NE Cor. of Sec. 25-T19N-R14W

DATUM: NAD-27
LAT: 36°06'03.1"N
LONG: 98°38'35.3"W
LAT: 36°06'08.0"N
LONG: 98°38'35.3"W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1810002
Y: 401348

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

CERTIFICATE:

I, Thomas L. Howell, on 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



Invoice # 302990 Date of Drawing: Sep. 21, 2018
Date Staked: Sep. 19, 2018