

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

API NUMBER: 153 23578

Approval Date: 06/08/2016
Expiration Date: 12/08/2016

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 21N Rge: 20W County: WOODWARD
SPOT LOCATION: S2 S2 SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 200 1980

Lease Name: STORY 23-21-20 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

KEITH STORY & MONA DEE STORY
206698 E. COUNTY RD. 47
SHARON OK 73857

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	11400	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201601846
201601847

Special Orders:

Total Depth: 16100 Ground Elevation: 2039 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 260

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31306
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 23 Twp 21N Rge 20W County WOODWARD

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 10790

Radius of Turn: 750

Direction: 360

Total Length: 4132

Measured Total Depth: 16100

True Vertical Depth: 11400

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

Notes:

Category

Description

DEEP SURFACE CASING

6/7/2016 - 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

6/7/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

PENDING CD - 201601846

6/8/2016 - G75 - (640)(HOR) 23-21N-20W
VAC 118963 CRLM
VAC 368789 MRMC
EST MSSP
COMPL. INT. NLT 660' FB
REC 6-7-2016 (P. PORTER)

PENDING CD - 201601847

6/8/2016 - G75 - (I.O.) 23-21N-20W
X201601846 MSSP
COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 560 FWL
NO OP. NAMED
REC 6-7-2016 (P. PORTER)



1000 LedgeLawn Drive
Conway, Arkansas 72034
501.328.3316 f 501.328.3325 f
www.craftontull.com

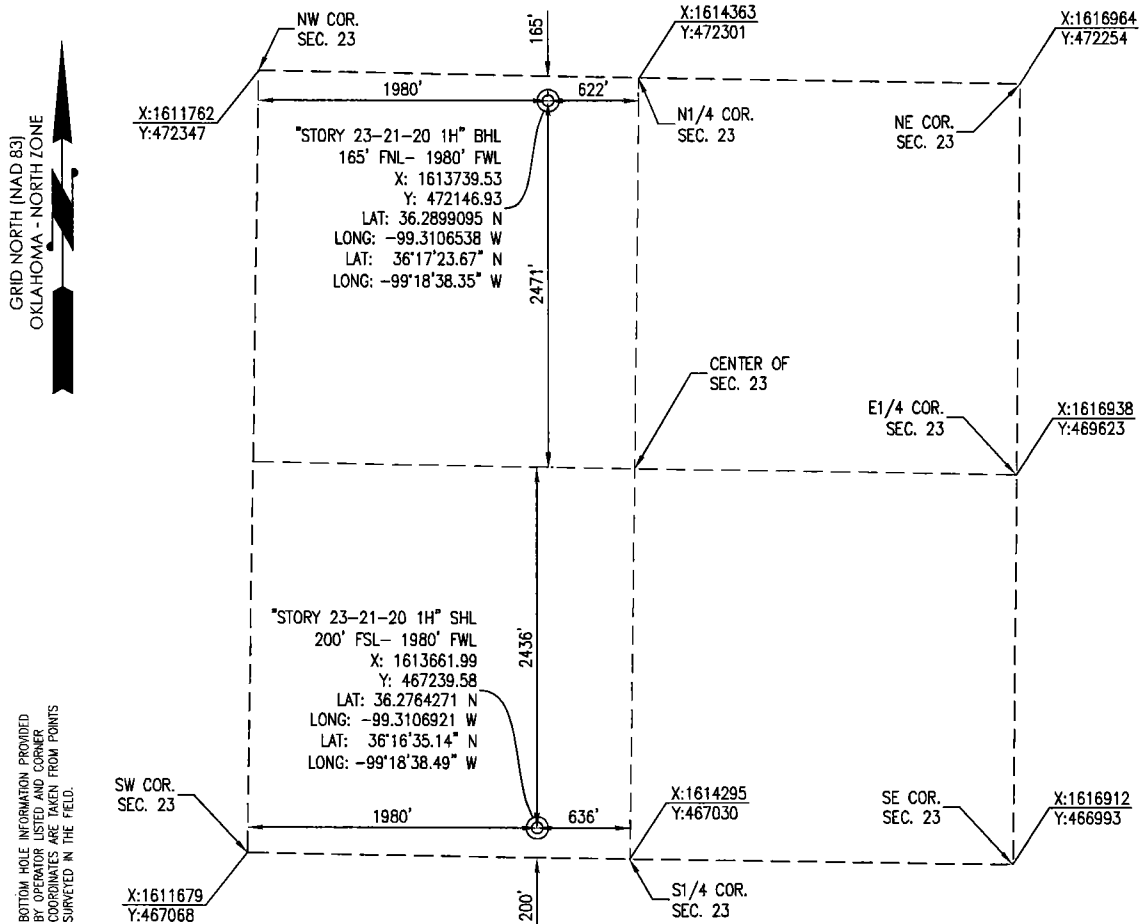
Crafton Tull
SURVEYING

WOODWARD COUNTY, OKLAHOMA

API 153-23578

WOODWARD COUNTY, OKLAHOMA

200' FSL- 1980' FWL SECTION 23 TOWNSHIP 21N RANGE 20W I.M.



OPERATOR: TAPSTONE ENERGY

WELL NO: 1H

ELEVATION:
2039' GR. AT STAKE

LEASE NAME: STORY 23-21-20

TOPOGRAPHIC & VEGETATION: LOCATION FELL IN A FIELD

GOOD DRILL SITE: YES REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: SOUTH AND WEST LINE

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: FROM THE JCT. OF STATE HWY. 34 & SHARON SHATTUCK ROAD (±0.17 MILES EAST OF SHARON, OK), TRAVEL EAST ON SHARON SHATTUCK ROAD ±1.0 MILES TO THE SOUTHWEST CORNER OF SECTION 23, T21N-R20W.

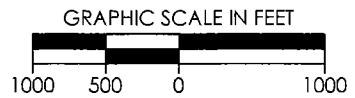
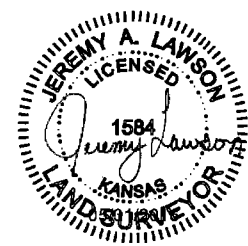
(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER ACCURACY ±2-3 METERS)

GPS DATUM: NAD-27
LAT: 36.2764271 N
LONG: -99.3106921 W

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD-27
X: 1613661.99
Y: 467239.58

DATE STAKED: 5-26-16

GENERAL NOTES:
THE TIES AND FOOTAGES SHOWN ON THIS PLAT ARE FROM LINES OF OCCUPATION FROM A SURVEY MADE ON THE GROUND AND / OR BEARING AND DISTANCES FROM THE GENERAL LAND OFFICE PLAT OF THE AREA SHOWN AND MAY NOT BE THE ACTUAL PROPERTY CORNERS. THIS PLAT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.



REVISION	<p>"STORY 23-21-20 1H" PART OF THE SW 1/4 OF SECTION 23, T-21-N, R-20-W PROPOSED DRILL SITE WOODWARD COUNTY, OKLAHOMA</p>		
MOVED SHL 5-31-16			
SCALE: 1" = 1000'	PLOT DATE: 05-31-2016	DRAWN BY: JWB	SHEET NO.: 1 OF 5