# API NUMBER: 043 23684 A

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

Approval Date: 01/18/2019
Expiration Date: 07/18/2020

Horizontal Hole

Multi Unit

Oil & Gas

Amend reason: BHL, TOTAL DEPTH

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

#### AMEND PERMIT TO DRILL

1 LOOMINGHE ON THE THE	TON LINES:	ORTH FROM WEST 75 2000				
ease Name: RANDI 18/7-19-17		75 2500 BH	Well will be 475 feet from near	est unit or lease boundary.		
Operator TAPSTONE ENERGY LLC lame:		Telephone: 4057021600	OTC/OCC Number:	23467 0		
TAPSTONE ENERGY LLC		RANDI L	YNN COLE AND RON D. COLE			
100 E MAIN ST		ROUTE	2, BOX 153			
OKLAHOMA CITY, OK 731	04-2509		DANIELE LYNN COLE AND RON D. COLE			
·		VICI	OK 7	73859		
ormation(s) (Permit Valid for Listed Formation  Name  1 MISSISSIPPIAN	ons Only):  Depth  11700	<b>Name</b> 6	Dep	th		
2		7				
3		8 9				
5		10				
cing Orders: 657193 651262 693190	Location Exception O	rders:	Increased Density Orders:	690787 690786		
ding CD Numbers: 201810732			Special Orders:			
otal Depth: 22500 Ground Elevation: 1951	Surface C	asing: 1500	Depth to base of Treatable Water	er-Bearing FM: 240		
Under Federal Jurisdiction: No	Fresh Water S	upply Well Drilled: No	Surface Water	used to Drill: Yes		
Γ 1 INFORMATION		Approved Method for	or disposal of Drilling Fluids:			
be of Pit System: CLOSED Closed System Means Steel P	Pits					
be of Mud System: WATER BASED			D. One time land application (REQUIRES PERMIT) PERMIT NO			
oe of Midd Gystem. WATER BAGED		H. SEE MEMO				
lorides Max: 8000 Average: 5000	-i10 V					
lorides Max: 8000 Average: 5000 depth to top of ground water greater than 10ft below base of	pit? Y	_				
lorides Max: 8000 Average: 5000	pit? Y					

#### 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 07 Twp 19N Rge 17W County **DEWEY** NW Spot Location of End Point: NW NF NW Feet From: NORTH 1/4 Section Line: 150 Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 11135 Radius of Turn: 737

Direction: 5

Total Length: 10206

Measured Total Depth: 22500

True Vertical Depth: 11700

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

Notes:

Category Description

DEEP SURFACE CASING 1/11/2019 - 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 1/11/2019 - 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 - 690786 3/27/2019 - G58 - 18-19N-17W

X651262 MSSP 2 WELLS NO OP. NAMED 2/1/2019

INCREASED DENSITY - 690787 3/27/2019 - G58 - 7-19N-17W

X657193 MSSP 2 WELLS NO OP. NAMED 2/1/2019

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.

Category Description

INTERMEDIATE CASING 1/11/2019 - 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 1/11/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201810732 1/18/2019 - G58 - (E.O.) 18 & 7-19N-17W

X651262 MSSP 18-19N-17W X657193 MSSP 7-19N-17W

X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL

COMPL. INT. (18-19N-17W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. (7-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL

NO OP. NAMÈD

REC 1/11/2019 (MINMIER)

SPACING - 651262 1/18/2019 - G58 - (643.68)(IRR. UNIT) 18-19N-17W

VAC 78413 MCSTR EST MSSP, OTHERS

SPACING - 657193 1/18/2019 - G58 - (642.4)(IRR. UNIT) 7-19N-17W

VAC 85657 MCSTR EST MSSP, OTHERS

SPACING - 693190 3/27/2019 - G58 - (I.O.) 18 & 7-19N-17W

EST MULTIUNIT HORÍZONTAL WELL

X651262 MSSP 18-19N-17W X657193 MSSP 7-19N-17W

50% 18-19N-17W 50% 7-19N-17W

TAPSTONE ENERGY, LLC

3/20/2019

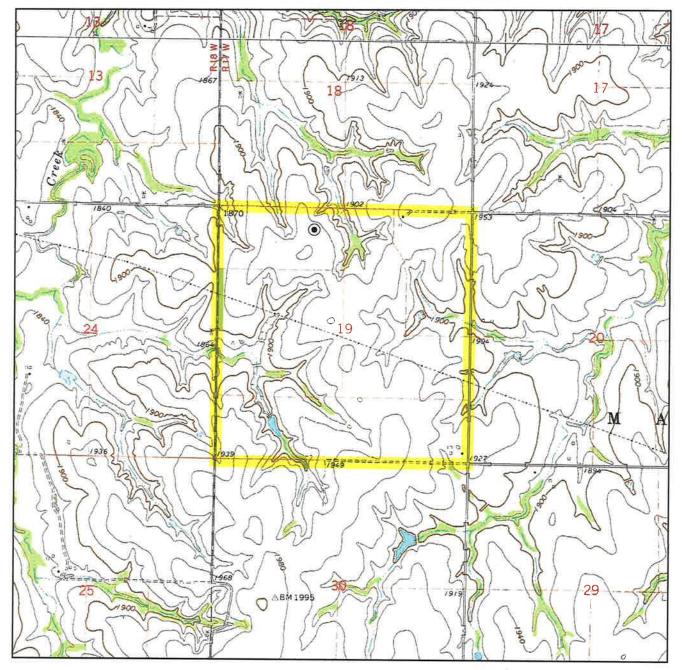
Best Accessibility to Distance & Direction Good Lease Operator: rom Hwy Topography & Vegetation LOC. 5) <u>@</u> X=1686521 Y=418260 X=1689164 Y=418220 PROVIDED BY OPERATOR LISTED, NOT SURVEYED. X=1691794 Y=418179 Dr:II ON HWY 51/US Name: BOTTOM HOLE 150'FNL-880'FWL NAD-27 (US Feet) 36'08'38.1" N 99'03'31.5" W 36.143907269' N 99.058738330' W X 1687399 Y 418097 Site? Jct or Town LOT 1 TAPSTONE ENERGY RANDI E/2-NW/4 Location HWY 60, 18/7-1 FROM Yes LOT 2 19-JCT. FELL THEN ±2 MILES FROM S Z HWY. ROLLING 7 WEST X=1686487 Y=415638 Stakes X=1691763 Y=415544 281 Reference Stakes or OFF COUNTY HINOS AND PASTURE LOT 3 Set ST. Line+ 70 E/2-SW/4 HWY. 13800 Ħ ROAD WeⅡ WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL Z 2 475 FNL-2000 FWL T19N-R18W 119N-R17W No. Alternate Location COR. Z TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA SEILING, DEWEY Certificate of Authorization No. LOT 4 유 SEC. 3H 2 X=1691733 Y=412909 19-T19N-R17W 60 Section X=1689107 Y=412956 ±7.7 MILES **ELEVATION:** LOT 1 19 STATE LONG: LONG: DATUM: ZONE: COORDINATES: LAT: (405) 843-4847 \* OUT OF STATE (800) 654-3219 1293 LS Township PLANE OK NORTH 99.054909511 E/2-NW/4 407242 36.114120932 99.03,17.7" 36.06,20.8 1688411 NAD-27 LOT 2 SU) County, 98 Feet) ≶ z FOR X=1686433 Y=410379 Oklahoma z Range CONSTRUCTION PURPOSES ONLY 18 This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy. PROPOSED 17W DRILL Project # 124003A 0 GR46/2 2 N - 6 LOT 3 \_\_ CERTIFICATE: Oklahoma Lic. nereby Licensed Land Surveyor and an authorized agent PATH Topographic Land E/2-SW/4 certify to the information Thomas L. LANDING POINT 150'FSL-880'FWL NAD-27 (US Feet) 36'06'57.1" N 99'03'31.4" W 36.115869536' N 99.058711216' W Date of Drawing: 043-23684A No. Date Staked: GRID NAD--27 OK NORTH US Feet SCALE: 1"=1000' LOT 4 Howell Surveyors of Oklahoma, 1687296 407891 1433 1000 X=1689062 Y=407704 Dec. 13, 2018 X=1686415 Y=407760 X=1691675 Y=407649 Feb. shown herein. 2000 13, LOT 1 2019 2158 do A Comment of the Comm CENSED ST E/2-NW/4 LOT 2 OKLAHONA THOMAS HOWELL 19 SURVEYOR X=1686400 Y=405117 X=1691641 Y=405032

Operator: TAPSTONE ENERGY Best Accessibility to Location Good Drill Site? Distance & Direction Topography & Vegetation LOC. FELL IN ROLLING PASTURE Lease Name:\_ from Hwy Jct or Town PROVIDED BY OPERATOR LISTED, NOT SURVEYED. X=1689164 Y=418220 ON HWY 51/US HWY 60, RANDI 18/7-19-17 FROM JCT. Yes THEN ±2 MILES SOUTH TO THE NW COR. FROM WEST OFF COUNTY ROAD S HWY. 281 AND ST. Reference Stakes or Stakes Set NONE 13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219 HWY. 51 WeⅡ 475'FNL-2000'FWL T19N-R18W 119N-R17W Alternate Location No.: IN SEILING, TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA DEWEY Certificate of Authorization No. 1293 LS OF SEC. ЗН , 2 X=1691733 Y=412909 19-T19N-R17W GO Section ±7.7 MILES **ELEVATION:** Gr. at Stake 19 DATUM:\_ LAT: \_\_\_\_ COORDINATES: ZONE: OK NORTH STATE PLANE LAT: LONG: Township 99.054909511 99.03.17.7" 36.114120932 36'06'50.8" N 407242 168841 County, Oklahoma
19N Ranae SU) Feet) 8 Range 18 This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy. 17W\_I.M. Project # 124003A Date Staked: Dec. CERTIFICATE: of Topographic Land Surveyors of Oklahoma, Oklahoma Lic. No. hereby Licensed Land Surveyor and an authorized agent Thomas L. Howell Date of Drawing: the information 1433 \_an Oklahoma X=1686415 Y=407760 Feb. shown herein. 2018 2019 do AND FESSIONAL S NSED KLAHON HOWEL (19

## **TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

Surveying and Mapping for the Energy Industry
13800 Wireless Way, Okla. City, Okla. 73134 \* local (405) 843-4847 \* out of state (800) 654-3219 Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

#### LOCATION & ELEVATION VERIFICATION MAP



Sec. 19 Twp. 19N Rng. 17W IM County DEWEY State OK Operator TAPSTONE ENERGY Description 475'FNL-2000'FWL Lease RANDI 18/7-19-17 3H Elevation 1951' Gr. at Stake

Above Background Data from U.S.G.S. Topographic Map Scale: 1"=2000'

Contour Interval 20'

When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of

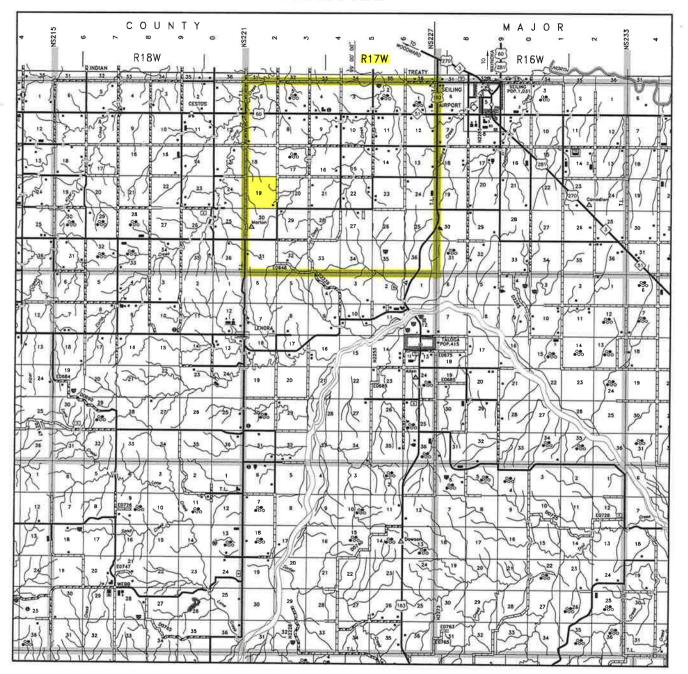
any possible discrepancy.



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#### VICINITY MAP



Scale: 1" = 3 Miles

1969

Sec19_	Twp	19N	_ Rng	17W	IM
County	DEWEY		State	OK	
Operator	TAPSTONE	ENERC	ЭΥ		

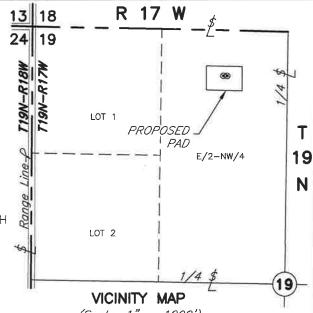


# T 19 N - R 17 W (INDIAN MERIDIAN)

PLAT SHOWING

PROPOSED PAD AREA IN THE E/2-NW/4 OF SECTION 19, T19N-R17W DEWEY COUNTY, OKLAHOMA

- (A) TAPSTONE ENERGY RANDI 18/7-19-17 4H 475'FNL-1980'FWL Elev. 1951' Gr.
- (B) TAPSTONE ENERGY RANDI 18/7-19-17 3H 475'FNL-2000'FWL Elev. 1951' Gr.



(Scale: 1" = 1000') **EXISTING** ±375 PIPELINE ±101 370 GRID NAD-27 -ELEV. 1950' OK NORTH US FEET ELEV. 1941 SECTION 19 100 E/2-NW/4 100 100' (A) (B) -1*75* ' 250 150 HOMAS L PAD AREA 150 HOWELL 2.12 Acres ELEV. 1956' OFLAHOM ELEV. 1951 Z AHOW 370

2	GENERAL	2/13/19	KH	
1	WELL LOCATION (	B) 12/19/18	SS	
NO.	REVISION	DATE	BY	
SUR	. BY: ES	12-13-	18	
DRAWN BY: SS				
APP	ROVED BY:	TH		

# TAPSTONE ENERGY

and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahom SURVEYING AND MAPPING BY

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847

Certificate of Authorization No. 1293 LS

SCALE:	1"=100'
DATE:	2-13-13
INVOICE/PROJECT	NO.: 308172/124003
FILE NAME	: L2217A.DWG
DWG NO.:	120010-L2-217-A
SHEET 1	OF 1