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

Horizontal Hole

API NUMBER:

Oil & Gas

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

043 23563

Approval Date: 11/01/2017 05/01/2018 **Expiration Date:**

PERMIT TO DRILL

	SECTION LINES:	NORTH FROM WI 580 30	EST O	
ease Name: BORDEN 22-18-17	Well No:	1H	Well will b	e 580 feet from nearest unit or lease boundary
perator TAPSTONE ENERGY LLC ame:		Telephone: 40570	21600	OTC/OCC Number: 23467 0
TAPSTONE ENERGY LLC				
100 E MAIN ST			GARY BORDEN	
	70404 0500		RT. 1, BOX 57	
OKLAHOMA CITY, OK	73104-2509		TALOGA	OK 73667
2 3 4 5 cing Orders: 653050	Location Exception 0	7 8 9 10		Increased Density Orders:
ding CD Numbers: 201706286				Special Orders:
	1769 Surface (Casing: 1500	Dep	oth to base of Treatable Water-Bearing FM: 170
otal Depth: 17000 Ground Elevation:				
otal Depth: 17000 Ground Elevation: Under Federal Jurisdiction: No		Supply Well Drilled: N	No	Surface Water used to Drill: Yes
		Supply Well Drilled: N	lo ved Method for disposal of Dr	
Inder Federal Jurisdiction: No	Fresh Water	Supply Well Drilled: N		
Inder Federal Jurisdiction: No	Fresh Water	Supply Well Drilled: N		illing Fluids:

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?

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

Rge 17W Sec 22 Twp 18N County DEWEY Spot Location of End Point: N2 N2 NW Feet From: NORTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 11045 Radius of Turn: 707

Direction: 4

Total Length: 4845

Measured Total Depth: 17000
True Vertical Depth: 11700
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

10/17/2017 - 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

10/17/2017 - 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

10/17/2017 - 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

PENDING CD - 201706286

11/1/2017 - G60 - (I.O.) 22-18N-17W

X653050 MSSP

COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL

NO OP. NAMED

REC. 10/16/17 (MINMIER)

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

SPACING - 653050

Description

11/1/2017 - G60 - (640)(HOR) 22-18N-17W VAC 66320 CSTR VAC 252788 MSSLM EST MSSP COMPL. INT. NLT 660' FB

APPLICATION TO DRILL, RECOMPLETE OR REENTER

ORM 1000 REV. 2014

FILE ORIGINAL PLEASE TYPE	ONLY			L, RECOMPLETE OR RE		FORM 1
	OR USE BLACK INK		OKLAHOMA C	ORPORATION COMMISSION		REV.
1. OTC/OCC O	PERATOR NUMBER			ONSERVATION DIVISION	BATCH NUMBER (OCC USE ON	NLY)
	23467			THORPE BUILDING	1	
2. API NUMBEI	2			P.O. BOX 52000	<u> </u>	
		7		MA CITY, OK 73152-2000 RULE 165:10-3-1)		
3504	52.356	5	ν.	100110-0-17		
3. NOTICE OF		(CHECK ONLY ONE,	9			
_X_DRILL _	RECOMPLETE	REENTER D	EEPENA	MEND - REASON		
4 TYPE OF DR	NOTE: ATTACH COPY ILLING OPERATION >>>>	OF 1002-A IF RECOMPLETE	ON OR REENTRY.		6. LOCATE WELL AND OUT	
A. X STRA		DIRECTIONAL HOLE	HORIZONT	l, see reverse side for bottom hole lo	ocation) LEASE OR SPACING UNIT	N INK.
B. OIL/G	AS INJECTION		ATER CURRIN	C STRAT TEST SERVICE V	A/C1 1	
		N	WATER SUPPLY	STRAITESTSERVICE V		
5. WELL LOCA					2310	
SECTION 27	TOWNSHIP 18N	RANGE 17V	V COUNTY	DEWEY	1650	Martin A.
SPOT LOCATION		lecer e	PON OUADTED 6	m NORTH LINE from WEST LINE		
SW 1/4	NW 1/4 NW 1/	4 NW 1/4 SECTIO	ON LINES:	580 300	990	1
7. Well will be	300				330	
8. LEASE NAME:		feet from nearest unit or			330	<u>.</u>
LES IGE TO MILE.	BOF	RDEN 22-18-17	vv	ELL NUMBER: 1H	2310	N
9. NAME OF	TAPSTONE	ENERGY	ÉN	IAIL ADDRESS:		
OPERATOR: ADDRESS					1650	PA-W-1
ADDICESS	PO B	3OX 1608	PHONE (AC/NU	MBER)	990	ł
CITY	OKLAHOMA (CITY STATE	OV	ZIP CODE 70404 4000		h-16.4%
40 PUDEAGE OF			OK	73101-1608	330	
IU. SURFACE OV	VNER (ONE ONLY, ATTACH SHEET FO	OR ADDITIONAL OWNERS)	_		1980 1320 660 2640 1980 1320 660	
			G	ary Borden	8 6 8 6 8 8	6
ADDRESS		Rt. 1	1, Box 57		11. Is well located on lands under federal jurisd	ction?
CITY					Y X N	اي اــ
""	TALOGA	STATE	OK	^{ZIP CODE} 73667	12. Will a water well be drilled Y X N	1 01
44 DESTABORT	SORIUM	· · · · · · · · · · · · · · · · · · ·			Will surface water be used? X Y N 13. Date Operation to Begin	<u>~</u>], 1
14. LIST TARGET	FORMATIONS AND DEPTHS	S OF EACH BELOW (LIMITED	D TO TEN)		75. Date Operation to begin	11 .
1)	MISSISSIPPIA	N 11600'				_ ≤ ⊣
	MIGGIGGIFFIA	11000	6	TEMPORARY	Y AUTHORIZATION	
2)				THE REAL PROPERTY OF THE PARTY	* - P/W + 114/13/16M4 10/14	Hzl Zl
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<u> </u>			7		O DDIII	TOWNSHIP NELL NAME
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3) 4) 5) 15. SPACING ORE SPACING ARP	- NA Strat	17. LOCATION EXCEPTION	9 10 ST NORDER NO.	Expiration Date: Signature: A.M.	10-31-2017 G May for singing	
3) 4) 5) 15. SPACING ORE SPACING ARP	- NA Strat LICATION C.D. NO.	H. LOCATION EXCEPTION BASE OF TREATABLE WAT	9 10) ST NO ORDER NO. ER 22. SURFACE	Expiration Date: Signature: A. M. 18. INCREASED DENSITY OR DEN N/A CASING [23. ALT CASING PROG. L.	10-31-2017 G May for singing	
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3) 4) 5) 15. SPACING ORE FROM GAPP 19. TOTAL DEPTH 11. DO 24. ALTERNATIVE — B. Ceme 25.1. PIT INFORMA A. TYPE B. EXPE D. IS DE E. WITH F. WELL	LICATION C.D. NO. 20. GROUND ELEV. 21. 1769 CASING PROCEDURE, check with the circulated from total and the control of the co	BASE OF TREATABLE WAT 170 ck box and fill in blank (AFFID/ depth to ground surface on th depth to ground surface on th yield to ground surface on the depth to ground surface on the dept	9 10) 10) 10) 10) 10) 10) 10) 10) 10) 11) 12) 12) 13) 14) 15) 15) 16) 16) 17) 18) 18) 18) 18) 18) 18) 18) 18) 18) 18	Expiration Date: Signature: Signature: N/A CASING 23. ALT CASING PROG L 0 everse side, line 31.) ing. in by use of a two stage cementing lool If yes, fill out line 25.2 on top reverse GAS BASED (AIR DRILL) ppm; average: 5000 ed If off-sile, specify location: PIT7 X Y N Bedrock Aquifer Other H.S	10 -31 - 2017 G Way for 1,-5 ince 13:1	RANGE #
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API 35043 23563

NOTIFY DISTRICT OFFICE 24 HOURS PRIOR TO CEMENTING SURFACE CASING.

	OF MUD SYSTEM:			OIL BASE											
PIT #2 C. TYPE C	CTED MUD CHLOF OF PIT SYSTEM:	on-site	off-si	site	Closed If o	verage: 200,000 off-site, specify location:	ppm.		_		-			,	
E. WITHIN	1 MILE OF MUNI	BROUND WATER GRE IICIPAL WATER WELL		FT BELOW	V BASE OF PIT?	<u>X</u> YN	Off-Si	ite Pit	No.	_					_
26.2 OCC USE ONLY	,	ORY 1A 1B		(C)	Fm: KUS	n SDrings	7-	28.	Loca	te Bot	tom h	lole			
B. PIT LOCATIO C. Special area	or field rule?		rrace Deposit D. DI	Bedro DEEP SCA?	***************************************	her H.S.A. Non-M.S.A. CBL? Y 🖒 N					52	280 -			
	ACTED LINER REC	QUIRED?			GEOMEMBRANE LINER REC			П				Ñ	-]
for Directional Ho				OM QUARTE		from EAST LINE	1650						1	-	1
1/4 Measured Total	0.3	1/4	1/4 SECTION	LINES:			990						1-	-	~
Measured Total Depth 30. Bottom Hole Loca	" - Terrontal	True Vertical Depth		1	BHL from nearest Lease,	Unit, Or Property Line:	330							1-	-
							2310	 		-	\dashv	H		$\overline{}$	Î
SPOT LOCATION:		TWP RGE	FEET FRO	OM QUARTE	ER from NORTH LINE	from EAST LINE	1650								
1/4 Depth of Deviation	1/4 Radius	1/4 s of Turn	1/4 SECTION I			Total Length	-				ju projekaje e	-+		-	
Measured Total		True Vertical		<u> </u>	End Point location from ne		990					-	-		_
Depth		Depth			or property line:	Alest lease, orm	330			1	_[00		<u>_</u>	Ţ
LATERAL #2:	SEC T	WP RGE	E COU	יאדע			4	660	320	1980	2640	660	1320	1980	2640
SPOT LOCATION: 1/4			FEET FRO	OM QUARTE	ER from SOUTH LINE	from WEST LINE									attach separate
Depth of Deviation	1/4 Radius	1/4 s of Turn	1/4 SECTION I	LINES: Direction		Total Length	2. Dire	ection	n mus	st be s	tated	in deg	-	azimulh	
Measured Total		True Vertical			End Point location from ne	earest lease, unit									end point must e lease or spacir
Dept		Dept			or property line:	diest lease, a	unit		ction	ial sur					drainholes and
LATERAL #3:	SEC TV	WP RGE	E COUN	INTY			- 4	Ælloi i	ai we.	lis.					
SPOT LOCATION: 1/4	1/4	1/4		OM QUARTE	ER from SOUTH LINE	from WEST LINE	1								
Depth of Deviation	Radius			Direction		Total Length	†								
Measured Total		True Vertical	L		End Point location from ne	earest lease, unit	┥ .								
Depth 31. AFFIDAVIT FOR A	TERNATIVE C/	Depth ASING PROGRAM		l	or property line: on front of this form attests]								
This well	WILL	WILL NOT pene	etrate any known lo	lost circulatio	ion zones.	•			٠.						
The projected	depth of the well		IS NOT less th	lhan 100 feel	WILL et from the top of any enhar	WILL NOT exceed 50 g	as storaç	ge fac	cility.		_	_			
 List the following 3800 N. Class 	ig for all water wei sen Blvd., Oklahor	is within 1/4 mile of the ma City, OK 73118).	s well. (Information IF NO WATER W	n concernin/ELLS FOU!	ing some water wells may b ND, SO STATE. (ATTACH	e obtained from the OKLA ADDITIONAL SHEET IF N	'HOMA I IECESS	WATE ARY)	ER RI	ESOL	IRCE	:S BO/	∜RD,		
Name of Owner		-	Address of Own			Location (Ne				1/4))		Der	oth of V	Neli	
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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS DEWEY _____ County, Oklahoma __Township __18N Range __17W I.M. 580'FNL-300'FWL 3504323563 Section CALCULATED CORNER X=1701745 Y=376177 MEANDER CORNER X=1703973 Y=376242 X=1707071 Y=376210 X=170443° Y=376237 660 2024 MCHHI BENY BOTTOM HOLE 165'FNL-660'FWL NAD-27 (US Feet) 36'01'43.7"N 99'00'23.2"W 36.028792125'N 99.006449568'W X= 1702403 Y= 376031 Lot 2 SE-NW X=1707015 Y=373578 ģ <u>.0</u> > PATH NOTE: shown herein DRILL information shown her construction purposes Lot 3 PROPOSED LANDING POINT 165'FSL-356'FWL NAD-27 (US Feet) 36'00'55.3"N 99'00'27.1"W 36.015361768'W 99.007537561'W X= 1702030 Y= 371146 E/2-SW/4 SW/4-SW/4 X=1701672 Y=370984 X=1706958 Y=370946 X71704315 YZ370965 580 300: OGRANT PN-5 2073 GRID NAD-27 OK NORTH US Feet (27)X=1706975 Y=368285 X=1701678 Y=368330 LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. Operator: TAPSTONE ENERGY **ELEVATION:** Lease Name: BORDEN 22-18-17 Well No.: 1H 1769' Gr. at Stake Topography & Vegetation Loc. fell in rough rolling hills Reference Stakes or Alternate Location Stakes Set __None Good Drill Site? __ From SE off trail road Best Accessibility to Location ___ Distance & Direction from Hwy Jct or Town From Taloga, OK, go ± 1.5 mi. South, then \pm 2.5 mi. West to the NW Cor. of Sec. 27-T18N-R17W Date of Drawing: Sept. 13, 2017 ESSIONAL Invoice # 281290 Date Staked: Aug. 8, 2017 DATUM: NAD-27 36°00'47.9"N LONG: 99*00'27.7"W LAT: 36.013314147*N **CERTIFICATE:** I, T. Wayne Fisch an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein. T. WAYNE LONG: 99.007703406°W STATE PLANE FISCH 1378

COORDINATES: (US Feet) Y: 370401

sant Dryno W. T Oklahoma Lic. No. __

