		RPORATION COMMISSIO	N			
API NUMBER: 153 23596 A		O. BOX 52000	Approval Date:	Approval Date: 12/23/2016		
ATTROMEER. 100 20000 //		A CITY, OK 73152-2000	Expiration Date:	Expiration Date: 06/23/2017		
Horizontal Hole Oil & Gas	(Ri	ıle 165:10-3-1)				
mend reason: CHANGE FORMATION DEPTH, TOTAL DEPTH		PERMIT TO DRILL				
OTTOM-HOLE INFORMATION; ADD OIL BASED MUD SYSTEM PDATE ORDERS	и; 					
WELL LOCATION: Sec: 21 Twp: 20N Rge: 20W	County: WOODWA	RD				
	EET FROM QUARTER: FROM NO	TH FROM WEST				
	SECTION LINES: 230	2200				
Lease Name: BRUCE 16-20-20	Well No: 1H		Well will be 230 feet from neare	est unit or lease boundary.		
Operator TAPSTONE ENERGY LLC Name:		Felephone: 4057021600	OTC/OCC Number:	23467 0		
TAPSTONE ENERGY LLC		REGINA V.	REGINA V. STEADMAN			
100 E MAIN ST		ROUTE 1, BOX 285				
OKLAHOMA CITY, OK 7	3104-2509	SHARON	OK 7	73857		
Formation(s) (Permit Valid for Listed Form	ations Only):					
Name	Depth	Name	Dep	th		
1 MISSISSIPPIAN	11100	6				
2		7				
3		8				
4 5		9 10				
Spacing Orders: 659411	Location Exception Orde		Increased Density Orders:			
Pending CD Numbers:			Special Orders:			
Total Depth: 16100 Ground Elevation: 2178	Surface Cas	ina: 1500	Depth to base of Treatable Wate	er-Bearing FM: 460		
				-		
Under Federal Jurisdiction: No	Fresh Water Sup	oly Well Drilled: No	Surface Water	used to Drill: Yes		
PIT 1 INFORMATION		Approved Method for dis	Approved Method for disposal of Drilling Fluids:			
Type of Pit System: CLOSED Closed System Means Ste	el Pits		<b>0</b>			
Type of Mud System: WATER BASED		D. One time land application	ation (REQUIRES PERMIT)	PERMIT NO: 16-31956		
Chlorides Max: 8000 Average: 5000		H. SEE MEMO	```'			
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 <b>is</b> located in a Hydrologically Sensitive Area.						
Category of Pit: C						
Liner not required for Category: C						
Pit Location is BED AQUIFER						

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: OGALLALA

## HORIZONTAL HOLE 1

Sec	16	Twp	20N	Rge	20W	County	WOODWARD		
Spot Location of End Point: NW NE					NE	NW			
Feet From: NORTH		RTH	1/4 Se	ction Lin	e: 1	65			
Feet	From:	WE	ST	1/4 Se	ction Lin	e: 2	200		
Depth of Deviation: 10510									
Radius of Turn: 477									
Direction: 360									
Total Length: 4841									
Measured Total Depth: 16100									
True Vertical Depth: 11100									
End Point Location from Lease,									
Unit, or Property Line: 165									
						A	dditional Surface Owner		
						F	AYMOND A. BRUCE		

Notes: Description Category DEEP SURFACE CASING 12/21/2016 - 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 12/21/2016 - 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/ 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. LOCATION EXCEPTION - 659410 1/5/2017 - G75 - (E.O.) 16-20N-20W X659411 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 1980' FWL TAPSTONE ENERGY, LLC 12-29-2016 MEMO 1/4/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Address

ROUTE 1, BOX 205

1715 GRANGER

54727 S. COUNTY RD. 205

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.

JOHN R. BRUCE, JR.

VICKI I. BRADY

City, State, Zip

SHARON, OK 73857

SHARON, OK 73857

BROKEN ARROW, OK 74012

SPACING - 659411

Description

1/5/2017 - G75 - (E.O.)(640)(HOR) 16-20N-20W EXT 650533 MSSP COMPL. INT. NLT 660' FB TAPSTONE ENERGY, LLC 12-29-2016