API NUMBER: 045 23615

Oil & Gas

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

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

Approval Date: 06/24/2016
Expiration Date: 12/24/2016

PERMIT TO DRILL

VELL LOCATION: Sec: 16 Twp: 19N Rge: SPOT LOCATION: SW SE SE SW	21W County: ELLI FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM WEST	
Lease Name: STATE 16-19-21	Well No:	1H	Well will be 220 feet from nearest unit or lease boundar
Operator TAPSTONE ENERGY LLC Name:		Telephone: 4057021600	OTC/OCC Number: 23467 0
TAPSTONE ENERGY LLC 100 E MAIN ST OKLAHOMA CITY, OK	73104-2509	204 N	MISSIONERS OF THE LAND OFFICE I. ROBINSON, SUITE 900 IHOMA CITY OK 73102
Formation(s) (Permit Valid for Listed F Name 1 MISSISSIPPIAN	Formations Only): Depth 13600	Name 6	e Depth
2 3 4		7 8 9	
5 spacing Orders: No Spacing	Location Exception	10 n Orders:	Increased Density Orders:
ending CD Numbers: 201601906 201601907			Special Orders:
Total Depth: 18100 Ground Elevation:	: 2247 Surface	Casing: 1500	Depth to base of Treatable Water-Bearing FM: 540
Under Federal Jurisdiction: No	Fresh Wate	er Supply Well Drilled: No	Surface Water used to Drill: Yes
PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Mea Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000	ans Steel Pits	D. One time land	d for disposal of Drilling Fluids: d application (REQUIRES PERMIT) PERMIT NO: 16-31 STEM=STEEL PITS PER OPERATOR REQUEST
Is depth to top of ground water greater than 10ft below Within 1 mile of municipal water well? N Wellhead Protection Area? N	w base of pit? Y		

HORIZONTAL HOLE 1

ELLIS Sec 16 Twp 19N Rge 21W County Spot Location of End Point: N2 N2 NE NΙ\Λ 1/4 Section Line: Feet From: NORTH 165 Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 12700 Radius of Turn: 477 Direction: 359 Total Length: 4650

Measured Total Depth: 18100

True Vertical Depth: 13600

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

Notes:

Category Description

DEEP SURFACE CASING 6/24/2016 - 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 6/24/2016 - 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.

PENDING CD - 201601906 6/24/2016 - G60 - (640)(HOR) 16-19N-21W

VAC 96195 MSSP

EST MSSP

COMPL. INT. NLT 660' FB REC. 6-13-16 (P. PORTER)

PENDING CD - 201601907 6/24/2016 - G60 - (I.O.) 16-19N-21W

X201601906 MSSP

COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 560' FWL

NO OP. NAMED

REC. 6-13-16 (P. PORTER)

