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

API NUMBER: Horizontal Hole

Category of Pit: C

Liner not required for Category: C Pit Location is BED AQUIFER Pit Location Formation: RUSH SPRINGS

Oil & Gas

043 23562

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

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 19N Rge: 17W	County: DEWEY			
SPOT LOCATION: NW NE NE NE NE SECTION I	M QUARTER: FROM NORTH FROM	EAST		
SECTION	230	440		
Lease Name: REBECCA 9/4-19-17	Well No: 1H	Well will t	pe 230 feet from nearest unit or lease boundary.	
Operator TAPSTONE ENERGY LLC Name:	Telephone:	4057021600	OTC/OCC Number: 23467 0	
TAPSTONE ENERGY LLC		FRED SANDER & F	REBECCA SANDER	
100 E MAIN ST		ROUTE 1, BOX 62		
OKLAHOMA CITY, OK 73104-2509		SEILING	OK 73663	
Formation(s) (Permit Valid for Listed Formations	s Only):			
Name	Depth	Name	Depth	
1 MISSISSIPPIAN (LESS UPPER CHESTER)	11500	6		
2 MISSISSIPPIAN	11600	7		
3		8		
4		9		
		10		
Spacing Orders: 646339 661124	Location Exception Orders:		Increased Density Orders:	
Pending CD Numbers: 201706231			Special Orders:	
201706232				
201706233				
201706227				
Total Depth: 21800 Ground Elevation: 1848	Surface Casing: 150	0 De	ppth to base of Treatable Water-Bearing FM: 180	
Under Federal Jurisdiction: No	Fresh Water Supply Well Drill	ed: No	Surface Water used to Drill: Yes	
DIT 4 INFORMATION		Approved Method for disposal of D		
PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits		, pp. 5.56 monion for disposal of D		
		D. One time land application. (P.	EQUIRES PERMIT) PERMIT NO: 17-3324	
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000		D. One time land application (REQUIRES PERMIT) PERMIT NO: 17-33246 H. SEE MEMO		
Is depth to top of ground water greater than 10ft below base of pit?		THE CELL METHO		
Within 1 mile of municipal water well?				
Wellhead Protection Area? N				
Pit is located in a Hydrologically Sensitive Area.				

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 04 Twp 19N Rge 17W County DEWEY
Spot Location of End Point: NW NE NE NE
Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: Depth of Deviation: 10922

Direction: 360

Total Length: 10129

Radius of Turn: 477

Measured Total Depth: 21800

True Vertical Depth: 11600
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category Description

DEEP SURFACE CASING 10/13/2017 - 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 10/13/2017 - G71 - OCC 165:10-3-10 REQUIRES:

440

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 10/13/2017 - 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 10/13/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category

Description

PENDING CD - 201706227

11/1/2017 - G75 - (I.O.) 9 & 4-19N-17W EST MULTIUNIT HORIZONTAL WELL

X661124 MSSP 9-19N-17W X646339 MSLUC 4-19N-17W 50% 9-19N-17W

50% 4-19N-17W NO OP. NAMED REC 10-9-2017 (MILLER)

PENDING CD - 201706231

11/1/2017 - G75 - (I.O.) 9 & 4-19N-17W

X661124 MSSP 9-19N-17W X646339 MSLUC 4-19N-17W

COMPL. INT. (9-19N-17W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (4-19N-17W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL

NO OP. NAMED REC 10-9-2017 (MILLER)

PENDING CD - 201706232

11/1/2017 - G75 - 4-19N-17W X646339 MSLUC

1 WELL

NO OP. NAMED

REC 10-9-2017 (MILLER)

PENDING CD - 201706233

11/1/2017 - G75 - 9-19N-17W

X661124 MSSP 1 WELL

NO OP. NAMED

REC 10-9-2017 (MILLER)

SPACING - 646339

11/1/2017 - G75 - (640) 4-19N-17W

VAC 85657 MCSTR EST (VER) OTHER EST (HOR) MSLUC, OTHER COMPL. INT. NLT 660' FB

SPACING - 661124

11/1/2017 - G75 - (640)(HOR) 9-19N-17W

VAC 85657 MCSTR

EST MSSP

COMPL. INT. NLT 660' FB

