

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

API NUMBER: 043 23566

Approval Date: 11/02/2017  
Expiration Date: 05/02/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 18N Rge: 18W County: DEWEY  
SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 150 2200

Lease Name: POLLOCK 3625-19-18

Well No: 1H

Well will be 150 feet from nearest unit or lease boundary.

Operator Name: TAPSTONE ENERGY LLC

Telephone: 4057021600

OTC/OCC Number: 23467 0

TAPSTONE ENERGY LLC  
100 E MAIN ST  
OKLAHOMA CITY, OK 73104-2509

CAROL ANNE POLLOCK  
P.O. BOX 206  
TALOGA OK 73667

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	11054	6	
2	MISSISSIPPIAN	12100	7	
3			8	
4			9	
5			10	

Spacing Orders: 664327  
663964

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201706226  
201706236

Special Orders:

Total Depth: 22400

Ground Elevation: 1970

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 290

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-33189

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

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 25 Twp 19N Rge 18W County DEWEY

Spot Location of End Point: N2 N2 NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 11595

Radius of Turn: 366

Direction: 2

Total Length: 10230

Measured Total Depth: 22400

True Vertical Depth: 12100

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: [OCCWEB.COM/OG/OGFORMS.HTML](http://OCCWEB.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](http://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

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.

043 23566 POLLOCK 3625-19-18 1H

Category	Description
PENDING CD - 201706226	11/1/2017 - G60 - (I.O.) 25 & 36-19N-18W EST MULTIUNIT HORIZONTAL WELL X664327 (25-19N-18W) MSSP X663964 (36-19N-18W) MSNLC 50% 25-19N-18W 50% 36-19N-18W TAPSTONE ENERGY, LLC. REC. 10/9/17 (MINMIER)
PENDING CD - 201706236	11/2/2017 - G60 - (I.O.) 25 & 36-19N-18W X664327 (25-19N-18W) MSSP X663964 (36-19N-18W) MSNLC COMPL. INT. (36-19N-18W) NCT 165' FSL, NCT 0' FNL, NCT 560' FEL COMPL. INT. (25-19N-18W) NCT 0' FSL, NCT 165' FNL, NCT 560' FEL NO OP. NAMED REC. 10/9/17 (MINMIER)
SPACING - 663964	11/2/2017 - G60 - (640)(HOR) 36-19N-18W EST MSNLC COMPL. INT. NLT 660' FB
SPACING - 664327	11/1/2017 - G60 - (640)(HOR) 25-19N-18W VAC 54296 CSTR EST MSSP COMPL. INT. NLT 660' FB

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.





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NOTIFY DISTRICT OFFICE 24 HOURS PRIOR TO CEMENTING SURFACE CASING.

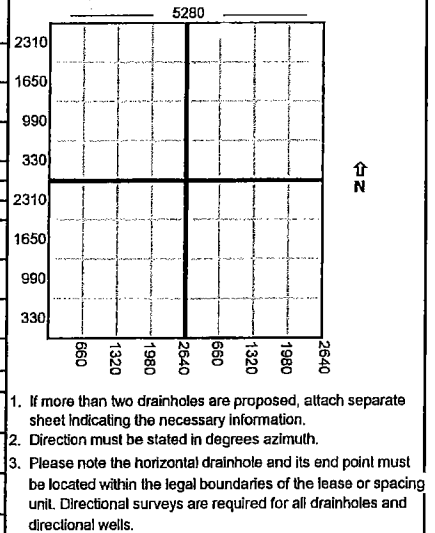
## 25.2. PIT INFORMATION:

- A. TYPE OF MUD SYSTEM: WATER BASED ☒ OIL BASED ☐ GAS BASED (AIR DRILL)  
B. EXPECTED MUD CHLORIDE CONTENT: maximum: 300,000 ppm; average: 200,000 ppm.  
C. TYPE OF PIT SYSTEM: on-site ☐ off-site ☒ closed If off-site, specify location: \_\_\_\_\_  
D. IS DEPTH TO TOP OF GROUND WATER GREATER THAN 10 FT BELOW BASE OF PIT? X Y ☐ N  
E. WITHIN 1 MILE OF MUNICIPAL WATER WELL? Y ☐ N  
F. WELLHEAD PROTECTION AREA? Y ☒ N

Off-Site Pit No. \_\_\_\_\_

26.2 OCC USE ONLY		A. CATEGORY		1A	1B	2	3	4	Fm: <u>Rush Springs</u>	
B. PIT LOCATION:		Alluvial Plain		Terrace Deposit		<input checked="" type="checkbox"/> Bedrock Aquifer		Other H.S.A.		Non-H.S.A.
C. Special area or field rule?		<input type="checkbox"/> Y		<input checked="" type="checkbox"/> N		D. DEEP SCA?		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	E. CBL?
F. SOIL COMPACTED LINER REQUIRED?		<input type="checkbox"/> Y		<input checked="" type="checkbox"/> N		G. 20 mil GEOMEMBRANE LINER REQUIRED		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
29 Bottom Hole Location		SEC		TWP		RGE		COUNTY		
for Directional Hole:										
SPOT LOCATION:		1/4		1/4		1/4		1/4		
Measured Total Depth		True Vertical Depth		BHL from nearest Lease, Unit, Or Property Line:						
30. Bottom Hole Location for Horizontal Hole: (LATERALS)										
LATERAL #1:		SEC		TWP		RGE		COUNTY		
SPOT LOCATION:		1/4		1/4		1/4		1/4		
Depth of Deviation		Radius of Turn		Direction		Total Length				
Measured Total Depth		True Vertical Depth		End Point location from nearest lease, unit or property line:						
LATERAL #2:		SEC		TWP		RGE		COUNTY		
SPOT LOCATION:		1/4		1/4		1/4		1/4		
Depth of Deviation		Radius of Turn		Direction		Total Length				
Measured Total Depth		True Vertical Depth		End Point location from nearest lease, unit or property line:						
LATERAL #3:		SEC		TWP		RGE		COUNTY		
SPOT LOCATION:		1/4		1/4		1/4		1/4		
Depth of Deviation		Radius of Turn		Direction		Total Length				
Measured Total Depth		True Vertical Depth		End Point location from nearest lease, unit or property line:						

## 28. Locate Bottom Hole



1. If more than two drainholes are proposed, attach separate sheet indicating the necessary information.
2. Direction must be stated in degrees azimuth.
3. Please note the horizontal drainhole and its end point must be located within the legal boundaries of the lease or spacing unit. Directional surveys are required for all drainholes and directional wells.

## 31. AFFIDAVIT FOR ALTERNATIVE CASING PROGRAM

(Signature on front of this form attests to this affidavit)

1. This well WILL ☐ WILL NOT ☐ penetrate any known lost circulation zones.
2. During the drilling of this well, withdrawals from any water well within 1/4 mile WILL ☐ WILL NOT ☐ exceed 50 gallons per minute.
3. The projected depth of the well IS ☐ IS NOT ☐ less than 100 feet from the top of any enhanced recovery project or gas storage facility.
4. List the following for all water wells within 1/4 mile of this well. (Information concerning some water wells may be obtained from the OKLAHOMA WATER RESOURCES BOARD, 3800 N. Classen Blvd., Oklahoma City, OK 73118). IF NO WATER WELLS FOUND, SO STATE. (ATTACH ADDITIONAL SHEET IF NECESSARY)

Name of Owner/Operator	Address of Owner/Operator	Location (Nearest 1/4 1/4 1/4 1/4)	Depth of Well

5. A cement bond log is required to be run and submitted from not less than 100 feet below the base of the treatable water-bearing formation to the surface. **OCC USE ONLY**
6. If casing depth is more than 250 feet deeper than base of the treatable water-bearing formation, operator must submit a letter of request listing reasons and precautions to be taken.

INTENT TO DRILL CHECKLIST  
APPROVED \_\_\_\_\_ REJECTED \_\_\_\_\_

OCC USE ONLY

OCC USE ONLY

## 1. SURETY

- A. NONE filed.
- B. EXPIRED: Date \_\_\_\_\_
- C. OUTSTANDING CONTEMPT ORDER.

## 4. GEOLOGY

DO NOT WRITE INSIDE THIS BOX

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

DEWEY Certificate of Authorization No. 1293 LS

County: Oklahoma

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

I.M.

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Township: 18N

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

I.M.

Section: 1

Township: 18N

Range: 18W

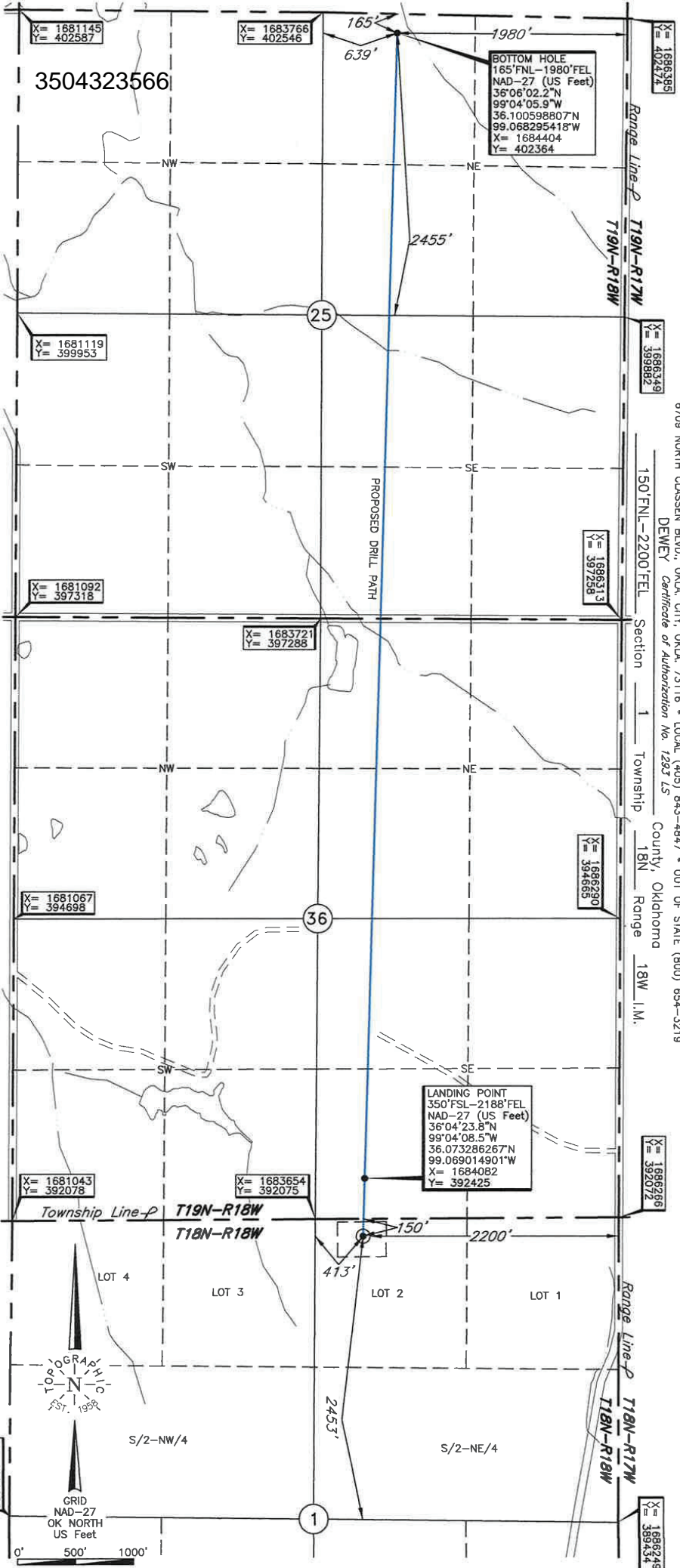
I.M.

Section: 1

Township: 18N

Range: 18W

I.M.



**NOTE:**  
The information shown herein is for construction purposes ONLY.

**Revision B** Date of Drawing: July 3, 2017  
Invoice # 277048 Date Staked: June 23, 2017

**CERTIFICATE:**  
T. Wayne Fisch  
Licensed Land Surveyor and an authorized agent  
of Topographic Land Surveyors of Oklahoma, do  
hereby certify to the information shown herein.

**T. Wayne Fisch**  
Oklahoma Lic. No. 1378

**LICENSED PROFESSIONAL LAND SURVEYOR**  
T. WAYNE FISCHE  
1378  
7-3-2017  
OKLAHOMA

**Operator:** TAPSTONE ENERGY  
**Lease Name:** POLLOCK  
**Topography & Vegetation:** Loc. fall in terraced wheat pasture  
**Good Drill Site?** Yes  
**Beet Accessibility to Location:** From East off county road  
**Distance & Direction:** From the junction of St. Hwy. 51 E-W and US Hwy. 230 NW-SE in Seiling, OK  
**go West ±7.8 miles on St. Hwy. 51, then South ±5 miles to the NE Cor. of Sec. 1-18N-R18W.**

**ELEVATION:**  
1970' Gr. at Stake

**DATUM:** NAD-27  
**LAT:** 36°04'18.9"N  
**LONG:** 99°04'08.6"W  
**LAT:** 36°07'19.2219"N  
**LONG:** 99°06'05.1084"W  
**STATE PLANE COORDINATES:** (US Feet)  
**ZONE:** OK NORTH  
**X:** 1684065  
**Y:** 391924

**This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.**