

API NUMBER: 039 22613

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

Approval Date: 10/14/2022

Expiration Date: 04/14/2024

Horizontal Hole

Oil & Gas

## PERMIT TO DRILL

WELL LOCATION: Section: 13 Township: 14N Range: 14W County: CUSTER

SPOT LOCATION:     FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 371 646

Lease Name: SANDROCK 1414

Well No: 3H 12X

Well will be 371 feet from nearest unit or lease boundary.

Operator Name: TAMWORTH RESOURCES LLC

Telephone: 9184099839

OTC/OCC Number: 24525 0

TAMWORTH RESOURCES LLC

PO BOX 140490

BROKEN ARROW, OK 74014-0005

SWITZER FARMS INC

92584 N 2450 ROAD

THOMAS OK 73669

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	13500

Spacing Orders: 671700

Location Exception Orders: 726710

Increased Density Orders: 726580

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special

Total Depth: 24000

Ground Elevation: 1634

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 230

Deep surface casing has been approved

Under Federal Jurisdiction: No  
Fresh Water Supply Well Drilled: No  
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 22-38632

H. (Other)

SEE MEMO

### PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 1B

Liner required for Category: 1B

Pit Location is: BED AQUIFER

Pit Location Formation: RUSH SPRINGS

### PIT 2 INFORMATION

Type of Pit System: ON SITE

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: 3

Liner required for Category: 3

Pit Location is: BED AQUIFER

Pit Location Formation: RUSH SPRINGS

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

**HORIZONTAL HOLE 1**

Section: 12	Township: 14N	Range: 14W	Meridian: IM	Total Length: 10000
County: CUSTER				Measured Total Depth: 24000
Spot Location of End Point: NE NW NW NE				True Vertical Depth: 14000
Feet From: <b>NORTH</b>		1/4 Section Line: 65		End Point Location from
Feet From: <b>EAST</b>		1/4 Section Line: 2250		Lease, Unit, or Property Line: 65

**NOTES:**

Category	Description
DEEP SURFACE CASING	[10/6/2022 - GC2] - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
FIELD RULE	[10/6/2022 - GC2] - MIN. 500' PER ORDER 42589
HYDRAULIC FRACTURING	<p>[10/6/2022 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
INCREASED DENSITY - 726580	<p>[10/11/2022 - GB1] - 12 &amp; 13-14N-14W</p> <p>X671700 MSSP</p> <p>1 WELL</p> <p>NO OP NAMED</p> <p>7/1/2022</p>
LOCATION EXCEPTION - 726710	<p>[10/11/2022 - GB1] - (I.O.) 12 &amp; 13-14N-14W</p> <p>X671700 MSSP, OTHER</p> <p>COMPL INT (13-14N-14W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL</p> <p>COMPL INT (12-14N-14W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL</p> <p>NO OP NAMED</p> <p>7/8/2022</p>
MEMO	[10/6/2022 - GC2] - PIT 1 - 1B MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER, PIT 2 - 3 MIN. 20-MIL PIT LINER REQUIRED, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 671700	<p>[10/11/2022 - GB1] - (1280)(HOR) 12 &amp; 13-14N-14W</p> <p>VAC 94272 MSCST</p> <p>EST MSSP, OTHER</p> <p>COMPL INT NCT 660' FB</p>