

API NUMBER: 039 22612

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: ☐ NW ☐ SE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 355 620

Lease Name: SANDROCK 1414 Well No: 2H 12X Well will be 355 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 NORTH 2450 ROAD
THOMAS OK 73669

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

| Name | Code | Depth |
|------------|---------|-------|
| 1 WOODFORD | 319WDFD | 14400 |

Spacing Orders: 671700

Location Exception Orders: 726709

Increased Density Orders: No Density

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 25000

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: 25000
Spot Location of End Point: NE NE NW NE True Vertical Depth: 15000
Feet From: **NORTH** 1/4 Section Line: 65 End Point Location from
Feet From: **EAST** 1/4 Section Line: 1500 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 | [10/6/2022 - GC2] - OCC 165:10-3-10 REQUIRES: 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; 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: OCCEWEB.COM/OG/OGFORMS.HTML ; AND, 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 FRACFOCUS.ORG |
| LOCATION EXCEPTION - 726709 | [10/11/2022 - GB1] - (I.O.) 12 & 13-14N-14W X671700 WDFD, OTHER COMPL INT (13-14N-14W) NCT 165' FSL, NCT 0' FNL, NCT 660' FEL COMPL INT (12-14N-14W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL NO OP NAMED 7/8/2022 |
| 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 | [10/10/2022 - GB1] - (1280)(HOR) 12 & 13-14N-14W VAC OTHER EST WDFD, OTHER COMPL INT NCT 165' FNL/FSL, NCT 330' FEL/FWL |