

API NUMBER: 083 24464

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

Approval Date: 12/19/2022

Expiration Date: 06/19/2024

Straight Hole

Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 17 Township: 16N Range: 3W County: LOGAN

SPOT LOCATION: ☐ NE ☐ NW ☐ SE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 1440 1815

Lease Name: LIBERTY

Well No: 4-17

Well will be 495 feet from nearest unit or lease boundary.

Operator Name: O'BRIEN OIL CORPORATION

Telephone: 4052826500

OTC/OCC Number: 22501 0

O'BRIEN OIL CORPORATION

GUTHRIE, OK 73044-3154

TERESA LARGE

1300 TRAILS NORTH ROAD

GUTHRIE OK 73044

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

|   | Name        | Code     | Depth |
|---|-------------|----------|-------|
| 1 | TONKAWA LOW | 406TNKWL | 4082  |
| 2 | PERRY       | 405PRRY  | 4529  |
| 3 | HOGSHOOTER  | 405HGSR  | 5009  |
| 4 | CLEVELAND   | 405CLVD  | 5219  |
| 5 | OSWEGO      | 404OSWG  | 5629  |

|   | Name        | Code    | Depth |
|---|-------------|---------|-------|
| 6 | MISSISSIPPI | 351MISS | 5839  |
| 7 | HUNTON      | 269HNTN | 6019  |
| 8 | VIOLA       | 202VIOL | 6127  |
| 9 | SIMPSON     | 202SMPS | 6312  |

Spacing Orders: No Spacing

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202204545  
202204546

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

Special Orders: No Special

Total Depth: 6400

Ground Elevation: 1024

Surface Casing: 383

Depth to base of Treatable Water-Bearing FM: 300

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.

**PIT 1 INFORMATION**

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: 2

Liner not required for Category: 2

Pit Location is: BED AQUIFER

Pit Location Formation: GARBER

**NOTES:**

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.

| Category               | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HYDRAULIC FRACTURING   | <p>[12/16/2022 - GB1] - 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 FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: <a href="https://oklahoma.gov/occ/divisions/oil-gas/ogcd-forms">HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS</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> |
| PENDING CD - 202204545 | <p>[12/19/2022 - G56] - (80) E2 NW4, W2 NE4 17-16N-3W<br/> VAC 490669 TNKWL, PRRY, HGSR, CLVD, OSWG, MISS, HNTN, VIOL, SMPS, OTHERS<br/> EST TNKWL, PRRY, HGSR, CLVD, OSWG, MISS, HNTN, VIOL, SMPS, OTHERS<br/> REC 12/5/2022 (MILLER)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PENDING CD - 202204546 | <p>[12/19/2022 - G56] - E2 NW4 17-16N-3W<br/> X202204545 TNKWL, PRRY, HGSR, CLVD, OSWG, MISS, HNTN, VIOL, SMPS, OTHERS<br/> SHL NCT 1200' FSL, NCT 825' FEL<br/> NO OP NAMED<br/> REC 12/5/2022 (MILLER)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |