

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

API NUMBER: 043 23485

Approval Date: 11/02/2016  
Expiration Date: 05/02/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 17N Rge: 15W County: DEWEY  
SPOT LOCATION:  NW  NE  NW  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 200 1800

Lease Name: BROWN Well No: 24-13-1H Well will be 200 feet from nearest unit or lease boundary.  
Operator Name: COMANCHE EXPLORATION CO LLC Telephone: 4057555900 OTC/OCC Number: 20631 0

COMANCHE EXPLORATION CO LLC  
6520 N WESTERN AVE STE 300  
OKLAHOMA CITY, OK 73116-7334

MARY BRADFORD BROWN LIVING TRUST; MARY  
BRADFORD BROWN  
19 VALLEY VIEW DRIVE  
BURNEYVILLE OK 73430

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

| Name | Depth         | Name  | Depth |
|------|---------------|-------|-------|
| 1    | MISSISSIPPIAN | 10000 | 6     |
| 2    |               |       | 7     |
| 3    |               |       | 8     |
| 4    |               |       | 9     |
| 5    |               |       | 10    |

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604279  
201604281  
201604280

Special Orders:

Total Depth: 16186 Ground Elevation: 1863 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 330

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

PIT 1 INFORMATION

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31664  
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.

HORIZONTAL HOLE 1

Sec 13 Twp 17N Rge 15W County DEWEY

Spot Location of End Point: N2 NE NW NE

Feet From: NORTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 10455

Radius of Turn: 248

Direction: 359

Total Length: 5342

Measured Total Depth: 16186

True Vertical Depth: 10933

End Point Location from Lease,  
Unit, or Property Line: 135

Notes:

| Category               | Description  |
|------------------------|--|
| DEEP SURFACE CASING    | 10/21/2016 - G71 - 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   | 10/21/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE. |
| INTERMEDIATE CASING    | 10/21/2016 - 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   |
| PENDING CD - 201604279 | 10/21/2016 - G64 - (640)(HOR) 13-17N-15W<br>EST MSSP<br>POE TO BHL NCT 660' FB<br>(COEXIST SP. ORDER #86801 MSSLM**)<br>REC. 10-26-2016 (M. PORTER)<br><br>**SHOULD COEXIST SP. ORDER #50640 CSTR; WILL BE CORRECTED AT HEARING PER CASE PROCESSING  |
| PENDING CD - 201604280 | 10/21/2016 - G64 - (I.O.) 13-17N-15W<br>X201604279 MSSP<br>XOTHER<br>1 WELL<br>NO OP. NAMED<br>REC. 10-26-2016 (M. PORTER)   |
| PENDING CD - 201604281 | 10/21/2016 - G64 - (I.O.) 13-17N-15W<br>X201604275 MSSP<br>XOTHER<br>COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FEL<br>NO OP. NAMED<br>REC. 10-26-2016 (M. PORTER)   |

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