

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

API NUMBER: 093 25159

Approval Date: 09/14/2018  
Expiration Date: 03/14/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 20N Rge: 16W County: MAJOR  
SPOT LOCATION: ☐ SE ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 200 2450

Lease Name: DALE RUMSEY Well No: 1-1H 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

DALE M. RUMSEY  
101 PUMPKIN CREEK ROAD  
HORSESHOE BEND ID 83629

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	9300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804662  
201804664

Special Orders:

Total Depth: 14373 Ground Elevation: 1816 Surface Casing: 800 Depth to base of Treatable Water-Bearing FM: 450

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

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35247  
H. SEE MEMO

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 01 Twp 20N Rge 16W County MAJOR

Spot Location of End Point: NE NE NE NW

Feet From: NORTH 1/4 Section Line: 135

Feet From: WEST 1/4 Section Line: 2450

Depth of Deviation: 8627

Radius of Turn: 400

Direction: 360

Total Length: 5117

Measured Total Depth: 14373

True Vertical Depth: 9300

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

Notes:

Category

Description

DEEP SURFACE CASING

8/24/2018 - 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

8/24/2018 - G71 - 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: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.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

8/24/2018 - 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

MEMO

8/24/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

093 25159 DALE RUMSEY 1-1H

Category	Description
PENDING CD - 201804662	9/14/2018 - G58 - (640)(HOR)(IRR UNIT) 1-20N-16W VAC OTHER EST MSNLC, OTHERS POE TO BHL NCT 660' FB (COEXIST SP. ORDER 140509 MSSSD) REC 7/10/2018 (FOREMAN)
PENDING CD - 201804664	9/14/2018 - G58 - (I.O.) 1-20N-16W X201804662 MSNLC, OTHERS X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PANNELL 1-B WELL COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 1320' FWL NO OP. NAMED REC 7/10/2018 (FOREMAN)

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

MAJOR

County, Oklahoma

200' FSL - 2450' FWL Section 1 Township 20N Range 16W I.M.

5th Standard Parallel North

135'

Township Line - P T21N-R16W

X= 1744348  
Y= 454891

X= 1745821  
Y= 454878

X= 1746989  
Y= 454868

X= 1748453  
Y= 454855

X= 1749629  
Y= 454844

**BOTTOM HOLE**  
 135' FNL - 2450' FWL  
 NAD-27 (US Feet)  
 36°14'46.2"N  
 98°51'31.2"W  
 36.246160847"N  
 98.858676151"W  
 X= 1746796  
 Y= 454735

LOT 4

LOT 3

LOT 2

LOT 1

2450'

191'

S/2-NW/4

2989'

S/2-NE/4

X= 1744311  
Y= 451772

X= 1749598  
Y= 451715

**LANDING POINT**  
 500' FSL - 2450' FWL  
 NAD-27 (US Feet)  
 36°13'55.6"N  
 98°51'31.4"W  
 36.232105542"N  
 98.858731324"W  
 X= 1748735  
 Y= 449618

X= 1744279  
Y= 449157

2450'

2427'

196'

200'

X= 1746925  
Y= 449115

X= 1749571  
Y= 449073

(LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION)  
 PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

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



GRID  
 NAD-27  
 OK NORTH  
 US Feet

0' 500' 1000'

Operator: COMANCHE EXPLORATION CO., LLC

Lease Name: DALE RUMSEY

Well No.: 1-1H

**ELEVATION:**

1816' Gr. at Stake

Topography & Vegetation Loc. fell in rolling sandy brush pasture.

Good Drill Site? Yes Reference Stakes or Alternate Location  
 Stakes Set None

Best Accessibility to Location From South off county road.

Distance & Direction  
 from Hwy Jct or Town From Chester, OK, go East ±3 miles, then North ±1 mile to the  
SW Cor. of Sec. 1-T20N-R16W.

Date of Drawing: Oct. 31, 2017

Invoice # 283024

Date Staked: Oct. 27, 2017

TR

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)  
 DATUM: NAD-27  
 LAT: 36°13'52.6"N  
 LONG: 98°51'31.4"W  
 LAT: 36.231281137°N  
 LONG: 98.858734399°W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1746731  
 Y: 449318

## CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell  
 Oklahoma Lic. No. 1433

