

API NUMBER: 093 25246 A

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

Approval Date: 03/24/2022  
Expiration Date: 09/24/2023

Horizontal Hole Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 10 Township: 20N Range: 16W County: MAJOR

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 518 346

Lease Name: BRANSTETTER Well No: 10-15-1H Well will be 346 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

GARY A. BRANSTETTER  
P.O. BOX 1087  
CUSHING OK 74023

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

Name	Code	Depth
1 MISSISSIPPIAN(MERAMEC-OSAGE)	359MNMCO	8271

Spacing Orders: 80607

Location Exception Orders: 710027  
716979

Increased Density Orders: 709654  
716978

Pending CD Numbers: No Pending

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

Special Orders: No Special

Total Depth: 14461

Ground Elevation: 1788

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 540

Deep surface casing has been approved

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 20-37307

H. (Other)

SEE MEMO

**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

**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

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: 15	Township: 20N	Range: 16W	Meridian: IM	Total Length: 4945
County: MAJOR				Measured Total Depth: 14461
Spot Location of End Point: SW	SE	SE	SE	True Vertical Depth: 9338
Feet From: <b>SOUTH</b>	1/4 Section Line: 135		End Point Location from	
Feet From: <b>EAST</b>	1/4 Section Line: 360		Lease, Unit, or Property Line: 135	

**NOTES:**

Category	Description
DEEP SURFACE CASING	[3/23/2022 - 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
HYDRAULIC FRACTURING	[3/23/2022 - 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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a> ; 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 <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 709654	[3/24/2022 - GB1] - 15-20N-16W X80607 MNMCO 1 WELL NO OP NAMED 3/9/2020
INCREASED DENSITY - 716978	[3/24/2022 - GB1] - EXT OF TIME FOR ORDER #709654 UNTIL 3/9/2022
INTERMEDIATE CASING	[3/23/2022 - GC2] - 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
LOCATION EXCEPTION - 710027	[3/24/2022 - GB1] - (I.O.) 15-20N-16W X80607 MNMCO X165:10-3-28(C)(2)(B) MNMCO MAY BE CLOSER THAN 600' TO HEDRICK 3-10-1H COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL COMANCHE EXPLORATION COMPANY, LLC 3/18/2020
LOCATION EXCEPTION - 716979	[3/24/2022 - GB1] - EXT OF TIME FOR ORDER #710027 UNTIL 3/18/2022
MEMO	[3/23/2022 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 80607	[3/24/2022 - GB1] - (640) 15-20N-16W EXT 76570 MNMCO, OTHERS



SCALE: 1" = 1000'  
0' 500' 1000'

# WELL LOCATION

BRANSTETTER 10-15-1H  
COMANCHE EXPLORATION CO., LLC.  
SECTION 10, TOWNSHIP 20N, RANGE 16W, I.M.  
MAJOR COUNTY, OKLAHOMA

## LEGEND

SECTION LINE  
QUARTER SECTION LINE  
16TH LINE  
RANGE LINE  
PROPOSED WELL BORE

### SURFACE LOCATION

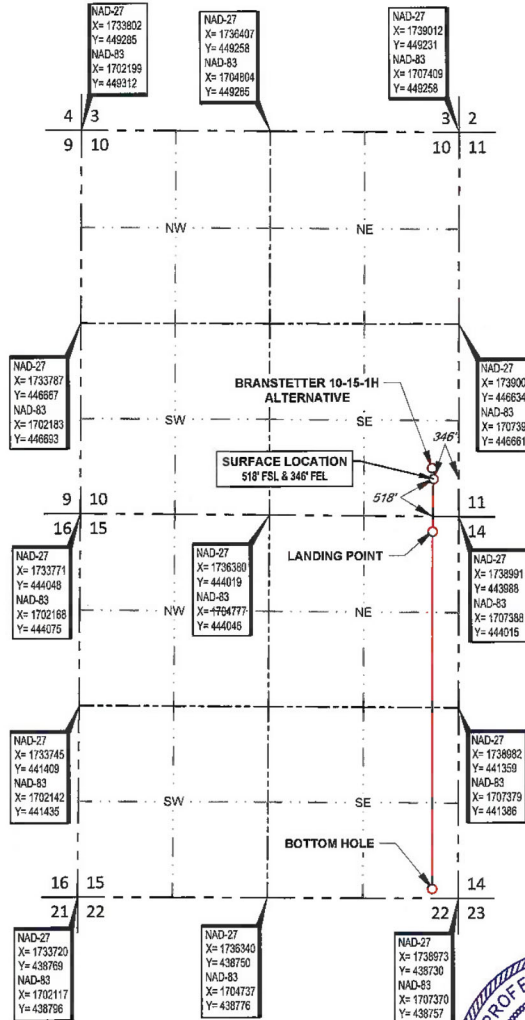
518' FSL & 346' FEL  
NAD-27  
X= 1738647  
Y= 444510  
LAT.: 36°13'04.4"N  
LONG.: 98°53'09.6"W  
LAT.: 36.217876° N  
LONG.: 98.885994° W  
ELEV.: 1788' (NGVD29)  
NAD-83  
X= 1707044  
Y= 444537  
LAT.: 36°13'04.5" N  
LONG.: 98°53'10.3" W  
LAT.: 36.217915° N  
LONG.: 98.886365° W  
ELEV.: 1788' (NAVD88)

### LANDING POINT

200' FNL & 360' FEL  
NAD-27  
X= 1738630  
Y= 443792  
LAT.: 36°12'57.3"N  
LONG.: 98°53'09.7"W  
LAT.: 36.215904° N  
LONG.: 98.886028° W  
NAD-83  
X= 1707027  
Y= 443819  
LAT.: 36°12'57.4" N  
LONG.: 98°53'11.0" W  
LAT.: 36.215942° N  
LONG.: 98.886399° W

### BOTTOM HOLE

135' FSL & 360' FEL  
NAD-27  
X= 1738613  
Y= 438868  
LAT.: 36°12'08.6"N  
LONG.: 98°53'09.4"W  
LAT.: 36.202375° N  
LONG.: 98.865933° W  
NAD-83  
X= 1707010  
Y= 438894  
LAT.: 36°12'08.7" N  
LONG.: 98°53'10.7" W  
LAT.: 36.202414° N  
LONG.: 98.866304° W



### SURVEYOR'S CERTIFICATE:

I, T. WAYNE FISCH, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC CO., DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.



13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134  
TELEPHONE: (405) 843-4847 OR (800) 654-3219  
FAX: (405) 843-0975  
CERTIFICATE OF AUTHORIZATION NO. 1292 LS  
WWW.TOPOGRAPHIC.COM

*T. Wayne Fisch*  
T. Wayne Fisch, P.L.S. No. 1378  
Authorized Agent of TOPOGRAPHIC CO.

LEASE NAME & WELL NO. BRANSTETTER 10-15-1H

SECTION 10 TWP 20N RGE 16W MERIDIAN I.M.  
COUNTY MAJOR STATE OKLAHOMA  
DESCRIPTION 518' FSL & 346' FEL

BRANSTETTER 10-15-1H	REVISION:		NOTES:
	INT	DATE	
DATE: 03/16/2022	EH	03-16-2022	<ol style="list-style-type: none"><li>1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"</li><li>2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAND LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.</li><li>3. OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.</li><li>4. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY COMANCHE EXPLORATION CO., LLC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.</li><li>5. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.</li></ol>
FILE:LO_BRANSTETTER_10-15-1H_REV1			
DRAWN BY: EAH			
SHEET: 1 OF 2			