

API NUMBER: 017 25364 A

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

Approval Date: 02/22/2022

Expiration Date: 08/22/2023

Multi Unit

Oil &amp; Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 19 Township: 13N Range: 8W County: CANADIAN

SPOT LOCATION: SW SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 174 1490

Lease Name: LEOTA

Well No: 2H-1918X

Well will be 174 feet from nearest unit or lease boundary.

Operator Name: CIMAREX ENERGY CO

Telephone: 9185851100

OTC/OCC Number: 21194 0

CIMAREX ENERGY CO  
202 S CHEYENNE AVE STE 1000  
TULSA, OK 74103-3001LEOTA HARMAN REV. TRUST C/O DAVID HARMAN  
5600 NORTH BRANDLEY ROAD  
CALUMET OK 73014

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

Name	Code	Depth
1 WOODFORD	319WDFD	11585

Spacing Orders: 183538  
210676  
188458

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202200174  
202200185  
202200184  
202200179

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

Special Orders: No Special

Total Depth: 22000

Ground Elevation: 1384

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 290

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:

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

PERMIT NO: 22-38107

H. (Other)

CLOSED SYSTEM=STEEL PITS PER OPERATOR  
REQUEST**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 not** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is: NON HSA

Pit Location Formation: DOG CREEK

**MULTI UNIT HOLE 1**

Section: 18 Township: 13N Range: 8W Meridian: IM

Total Length: 10293

County: CANADIAN

Measured Total Depth: 22000

Spot Location of End Point: NE NE NW NW

True Vertical Depth: 11585

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1210

End Point Location from  
Lease, Unit, or Property Line: 150

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.

NOTES:	
Category	Description
DEEP SURFACE CASING	[2/11/2022 - 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	<p>[2/11/2022 - GC2] - 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 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,</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 - 202200179	<p>[2/22/2022 - G56] - (I.O.) 19 &amp; 18-13N-8W  X188458 WDFD 19-13N-8W  X183538/210676 WDFD 18-13N-8W  X165:10-3-28(C)(2)(B) WDFD  MAY BE CLOSER THAN 600' TO TED 30-13N-8W 3H, TED 30-13N-8W 4H, THOMPSON 2-7H &amp; REESE 18-1 WELLS  COMPL. INT. (19-13N-8W) NCT 150' FSL, NCT 0' FNL, NCT 660' FWL  COMPL. INT. (18-13N-8W) NCT 0' FSL, NCT 150' FNL, NCT 660' FWL  NO OP NAMED  REC 2/22/2022 (MOORE)</p>
PENDING CD - 202200174	<p>[2/22/2022 - G56] - (I.O.) 19 &amp; 18-13N-8W  EST MULTIUNIT HORIZONTAL WELL  X188458 WDFD 19-13N-8W  X183538/210676 WDFD 18-13N-8W  50% 19-13N-8W  50% 18-13N-8W  NO OP NAMED  REC 2/8/2022 (MYLES)</p>
PENDING CD - 202200184	<p>[2/22/2022 - G56] - (E.O.) 18-13N-8W  X183538/210676 WDFD  5 WELLS  NO OP NAMED  REC 2/22/2022 (MOORE)</p>
PENDING CD - 202200185	<p>[2/22/2022 - G56] - 19-13N-8W  X188458 WDFD  5 WELLS  NO OP NAMED  REC 2/8/2022 (MYLES)</p>
SPACING - 183538	<p>2/22/2022 - G56 - (640) 18-13N-8W  EXT OTHERS  EST WDFD, OTHERS</p>
SPACING - 188458	<p>2/22/2022 - G56 - (640) 19-13N-8W  EXT 183538 WDFD, OTHER  EXT OTHERS  EST OTHER</p>
SPACING - 210676	2/22/2022 - G56 - NPT 183538 TO ADD VIOL & SMPS 20-13N-8W

