

API NUMBER: 017 25362 A

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

Approval Date: 02/14/2022

Expiration Date: 08/14/2023

Multi Unit

Oil & Gas

PERMIT TO DRILL

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

SPOT LOCATION: ☐ NW ☐ SE ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 382 1678

Lease Name: LEOTA Well No: 4H-1918X Well will be 382 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 74103-3001

LEOTA 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	11500

Spacing Orders: 183538
210676
188458

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202200176
202200181
202200185
202200184

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 22000

Ground Elevation: 1377

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 300

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: 22-38109

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: 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 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: 10000
County: CANADIAN Measured Total Depth: 22000
Spot Location of End Point: N2 NW NW NE True Vertical Depth: 12000
Feet From: NORTH 1/4 Section Line: 150 End Point Location from
Feet From: EAST 1/4 Section Line: 2310 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: OCCEWEB.COM/OG/OGFORMS.HTML; 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 FRACFOCUS.ORG</p>
PENDING CD - 202200176	<p>[2/11/2022 - G56] - (I.O.) 19 & 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 - 202200181	<p>[2/11/2022 - G56] - (I.O.) 19 & 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 6H & TED 30-13N-8W 7H WELLS COMPL. INT. (19-13N-8W) NCT 150' FSL, NCT 0' FNL, NCT 1980' FEL COMPL. INT. (18-13N-8W) NCT 0' FSL, NCT 150' FNL, NCT 1980' FEL NO OP NAMED REC 2/8/2022 (MYLES)</p>
PENDING CD - 202200184	<p>[2/11/2022 - G56] - (E.O.) 18-13N-8W X183538/210676 WDFD 5 WELLS NO OP NAMED HEARING 2/15/2022</p>
PENDING CD - 202200185	<p>[2/11/2022 - G56] - 19-13N-8W X188458 WDFD 5 WELLS NO OP NAMED REC 2/8/2022 (MYLES)</p>
SPACING - 183538	<p>2/11/2022 - G56 - (640) 18-13N-8W EXT OTHERS EST WDFD, OTHERS</p>
SPACING - 188458	<p>2/11/2022 - G56 - (640) 19-13N-8W EXT 183538 WDFD, OTHER EXT OTHERS EST OTHER</p>
SPACING - 210676	2/11/2022 - G56 - NPT 183538 TO ADD VIOL & SMPS 20-13N-8W

