

API NUMBER: 017 25337 A

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

Approval Date: 02/23/2022
Expiration Date: 08/23/2023

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 20 Township: 13N Range: 8W County: CANADIAN

SPOT LOCATION: ☐ NW ☐ SW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 438 294

Lease Name: CLARK Well No: 2H-2017X Well will be 438 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

BRADLEY ADAM NITZEL
11132 DARLINGTON ROAD NW
CALUMET OK 73014

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	9700
2	MISSISSIPPI LIME	351MSSLM	10979
3	WOODFORD	319WDFD	11497
4	HUNTON	269HNTN	11637

Spacing Orders: 210676
183538
575178
149719
621052

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202200458
202200459
202200460
202200461

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 22000

Ground Elevation: 1355

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 310

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: 22-38112
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

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.

MULTI UNIT HOLE 1

Section: 17	Township: 13N	Range: 8W	Meridian: IM	Total Length: 10306
	County: CANADIAN			Measured Total Depth: 22000
Spot Location of End Point: NE	NE	NW	NW	True Vertical Depth: 12500
Feet From: NORTH		1/4 Section Line: 150		End Point Location from
Feet From: WEST		1/4 Section Line: 1210		Lease, Unit, or Property Line: 150

NOTES:

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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 6000NH shall be used and is found at this link: OCCWEB.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 - 202200458	<p>[2/22/2022 - G56] - (I.O.) 17 & 20-13N-8W EST MULTIUNIT HORIZONTAL WELL X575178 WDFD 17-13N-8W X183538/210676 WDFD 20-13N-8W X149719 MSSLM, HNTN 17 & 20-13N-8W*** (MSSLM, HNTN ARE ADJACENT CSS TO WDFD) 50% 17-13N-8W 50% 20-13N-8W NO OP NAMED REC 2/22/2022 (MOORE)</p> <p>*** S/B X149719 MSSLM, HNTN 20-13N-8W, X149719 HNTN 17-13N-8W, X621052 MSSP 17-13N-8W; WILL BE CORRECTED AT THE FINAL HEARING PER ATTORNEY FOR OPERATOR;</p>
PENDING CD - 202200459	<p>[2/22/2022 - G56] - (I.O.) 17 & 20-13N-8W X575178 WDFD 17-13N-8W X183538/210676 WDFD 20-13N-8W X149719 MSSLM, HNTN 17 & 20-13N-8W*** X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO EXISTING WELLS COMPL INT (20-13N-8W) NCT 150' FSL, NCT 0' FNL, NCT 660' FWL COMPL INT (17-13N-8W) NCT 0' FSL, NCT 150' FNL, NCT 660' FWL NO OP NAMED REC 2/22/2022 (MOORE)</p> <p>*** S/B X149719 MSSLM, HNTN 20-13N-8W, X149719 HNTN 17-13N-8W, X621052 MSSP 17-13N-8W; WILL BE CORRECTED AT THE FINAL HEARING PER ATTORNEY FOR OPERATO</p>
PENDING CD - 202200460	<p>[2/22/2022 - G56] - 17-13N-8W X575178 WDFD 1 WELL CIMAREX ENERGY CO REC 2/22/2022 (MOORE)</p>
PENDING CD - 202200461	<p>[2/22/2022 - G56] - 20-13N-8W X183538/210676 WDFD 1 WELL CIMAREX ENERGY CO REC 2/22/2022 (MOORE)</p>
SPACING - 149719	<p>[2/22/2022 - G56] - (640) 17 & 20-13N-8W EXT 141747 MSSLM, HNTN, OTHER (VAC BY SP # 621052 MSSLM 17-13N-8W)</p>
SPACING - 183538	<p>2/22/2022 - G56 - (640) 20-13N-8W EXT OTHERS EST WDFD, OTHERS</p>
SPACING - 210676	<p>2/22/2022 - G56 - NPT 183538 FOR PARAGRAPH 1 OF ORDER SECTION TO INCLUDE 20-13N-8W FOR SMPS & VIOL</p>
SPACING - 575178	<p>2/22/2022 - G56 - (640) 17-13N-8W EXT 203727 WDFD</p>
SPACING - 621052	<p>[2/22/2022 - G56] - (640) 17-13N-8W VAC 149719 MSSLM, OTHER EXT OTHERS EST MSSP</p>

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017 25337 CLARK 2H-2017X

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