

API NUMBER: 017 25934

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

Approval Date: 03/16/2023
Expiration Date: 09/16/2024

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 31 Township: 11N Range: 7W County: CANADIAN

SPOT LOCATION: NW NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 268 1152

Lease Name: GATZ Well No: 4H-3019X Well will be 268 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

MIKE GATZ
1715 74TH STREET SW
UNION CITY OK 73090

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

| | Name | Code | Depth |
|---|---------------|---------|-------|
| 1 | MISSISSIPPIAN | 359MSSP | 10888 |
| 2 | WOODFORD | 319WDFD | 11142 |
| 3 | HUNTON | 269HNTN | 11292 |

Spacing Orders: 646343 Location Exception Orders: 730294 Increased Density Orders: 728689
653817 728690
730288

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 21180 Ground Elevation: 1287 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 370

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: 23-38925
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: 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

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 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: 19 | Township: 11N | Range: 7W | Meridian: IM | Total Length: 10260 |
| | County: CANADIAN | | | Measured Total Depth: 21180 |
| Spot Location of End Point: NW | NE | NW | NE | True Vertical Depth: 11392 |
| Feet From: NORTH | | 1/4 Section Line: 150 | | End Point Location from |
| Feet From: EAST | | 1/4 Section Line: 1720 | | Lease, Unit, or Property Line: 150 |

NOTES:

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.

| Category | Description |
|-----------------------------|---|
| DEEP SURFACE CASING | [3/10/2023 - GC2] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. |
| HYDRAULIC FRACTURING | <p>[3/10/2023 - 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 FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; 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> |
| INCREASED DENSITY - 728689 | <p>[3/16/2023 - G56] - 19-11N7W X646343 WDFD 3 WELLS CIMAREX ENERGY CO 9/23/2022</p> |
| INCREASED DENSITY - 728690 | <p>[3/16/2023 - G56] - 30-11N-7W X653817 WDFD 3 WELLS CIMAREX ENERGY CO 9/23/2022</p> |
| LOCATION EXCEPTION - 730294 | <p>[3/16/2023 - G56] - (I.O.) 19 & 30-11N-7W X646343 MSSP, WDFD, HNTN 19-11N-7W X653817 MSSP, WDFD, HNTN 30-11N-7W COMPL. INT. (30-11N-7W) NCT 150' FSL, NCT 0 FNL, 1320' FEL COMPL. INT. (19-11N-7W) NCT 0 FSL, NCT 150' FNL, NCT 1320' FEL CIMAREX ENERGY CO 12/5/2022</p> |
| MEMO | [3/10/2023 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| SPACING - 646343 | <p>[3/16/2023 - G56] - (640)(HOR) 19-11N-7W EXT 631118 MSSP, WDFD EST HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 127075/128028 HNTN & ORDER # 541138 MSSP, WDFD)</p> |
| SPACING - 653817 | <p>[3/16/2023 - G56] - (640)(HOR) 30-11N-7W EXT 646343 MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 134313 HNTN & ORDER # 260940 MSSLM)</p> |
| SPACING - 730288 | <p>[3/16/2023 - G56] - (I.O.) 19 & 30-11N-7W EST MULTIUNIT HORIZONTAL WELL X646343 MSSP, WDFD, HNTN 19-11N-7W X653817 MSSP, WDFD, HNTN 30-11N-7W (MSSP, HNTN IS ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 19-11N-7W 50% 30-11N-7W CIMAREX ENERGY CO. 12/5/2022</p> |