API NUMBER: 017 25357 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

01/15/2019 Approval Date: 07/15/2020 Expiration Date:

feet from nearest unit or lease boundary.

21194 0

Horizontal Hole Multi Unit

Oil & Gas

## DEDMIT TO DOLL

|                   |                   |   | PERIVITI TO DRILL     |                                 |
|-------------------|-------------------|---|-----------------------|---------------------------------|
| WELL LOCATION: S  |                   | ge: 8W County: CA  SE FEET FROM QUARTER: FROM  SECTION LINES: |                       |                                 |
| Lease Name: LEG   | ОТА               | Well No:  | 9H-1918X              | Well will be 280 feet from near |
| Operator<br>Name: | CIMAREX ENERGY CO |   | Telephone: 9185851100 | OTC/OCC Number:                 |
| CIMAREYE          | NEDOV OO          |   |                       |                                 |

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

**CALUMET** OK 73014

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

|                    | Name Depth |                            | Name   | Depth                     |        |        |
|--------------------|------------|----------------------------|--------|---------------------------|--------|--------|
| 1                  | WOODFORD   | 11500                      | 6      |                           |        |        |
| 2                  |            |                            | 7      |                           |        |        |
| 3                  |            |                            | 8      |                           |        |        |
| 4                  |            |                            | 9      |                           |        |        |
| 5                  |            |                            | 10     |                           |        |        |
| Spacing Orders:    | 183538     | Location Exception Orders: | 686874 | Increased Density Orders: | 686386 |        |
|                    | 210676     | ·                          | 686879 |                           | •      | 686385 |
|                    | 188458     |                            | 000070 |                           |        | 000000 |
|                    | 686873     |                            |        |                           |        |        |
| Daniella a OD Norm |            |                            |        |                           | 0      |        |

Pending CD Numbers: Special Orders:

Total Depth: 21568 Ground Elevation: 1378 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 300

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids: 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?

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

D. One time land application -- (REQUIRES PERMIT) H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

PERMIT NO: 18-35552

## **HORIZONTAL HOLE 1**

Sec 18 Twp 13N Rge 8W County CANADIAN

Spot Location of End Point: NE NE NW NE
Feet From: NORTH 1/4 Section Line: 150
Feet From: EAST 1/4 Section Line: 1540

Depth of Deviation: 11167 Radius of Turn: 477

Direction: 5

Total Length: 9652

Measured Total Depth: 21568

True Vertical Depth: 11610

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

Notes:

Category Description

DEEP SURFACE CASING 11/21/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS

OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

EXCEPTION TO RULE - 686879 1/11/2019 - G75 - (I.O.) 19 & 18-13N-8W

X165:10-3-28(C)(2)(B) WDFD (LEOTA 9H-1918X)

MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL

CIMAREX ENERGY CO.

11-19-2018

HYDRAULIC FRACTURING 11/21/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH

WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES. USING THE

"FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK:

OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS

TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 686385 1/11/2019 - G75 - 18-13N-8W

X210676 WDFD \*\*

11 WELLS

CIMAREX ENERGY CO.

11-8-2018

\*\* S/B X183538/210676 WDFD; NUNC PRO TUNC HAS BEEN PREPARED BY ATTORNEY FOR

OPERATOR AND A COPY REVIEWED BY OCC

INCREASED DENSITY - 686386 1/11/2019 - G75 - 19-13N-8W

X188458 WDFD 11 WELLS

CIMAREX ENERGY CO.

11-8-2018

LOCATION EXCEPTION - 686874 1/11/2019 - G75 - (I.O.) 19 & 18-13N-8W

X188458 WDFD 19-13N-8W X210676 WDFD 18-13N-8W \*\*

COMPL. INT. (19-13N-8W) NCT 150' FSL, NCT 0' FNL, NCT 1460' FEL COMPL. INT. (18-13N-8W) NCT 0' FSL, NCT 150' FNL, NCT 1460' FEL

CIMAREX ENERGY CO.

11-19-2018

 $^{\star\star}$  S/B X183538/210676 WDFD 18-13N-8W; TO BE CORRECTED AT HEARING FOR FINAL ORDER

PER ATTORNEY FOR OPERATOR

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX 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.

017 25357 LEOTA 9H-1918X

Category Description

SPACING - 183538 1/10/2019 - G75 - (640) 18-13N-8W

EXT OTHERS
EST WDFD, OTHERS

SPACING - 188458 1/10/2019 - G75 - (640) 19-13N-8W

EXT 183538 WDFD, OTHER

EXT OTHERS EST OTHER

SPACING - 210676 1/10/2019 - G75 - NPT 183538 TO ADD VIOL & SMPS 20-13N-8W

SPACING - 686873 1/10/2019 - G75 - (I.O.) 19 & 18-13N-8W

EST MULTIUNIT HORIZONTAL WELL

X188458 WDFD 19-13N-8W X210676 WDFD 18-13N-8W \*\*

50% 19-13N-8W 50% 18-13N-8W CIMAREX ENERGY CO. 11-19-2018

 $^{\star\star}$  S/B X183538/210676 WDFD 18-13N-8W; TO BE CORRECTED AT HEARING FOR FINAL ORDER

PER ATTORNEY FOR OPERATOR

