API NUMBER: 011 23955 Α OKLAHOMA CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

| Approval Date: | 03/13/2018 |
|------------------|------------|
| Expiration Date: | 09/13/2018 |

Horizontal Hole Oil & Gas

AMEND PERMIT TO DRILL

| Amend reason: AMEND SHL | |
|-------------------------|--|
| | |
| | |

WELL LOCATION: Sec: Twp: 16N Rge: 12W County: BLAINE

SPOT LOCATION: sw ll se SE

FEET FROM QUARTER: SOUTH EAST SECTION LINES: 645 905

Lease Name: DUPREE BIA

Well No: 5H-2215X Well will be

645 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

RUTH ANN & ROBERT SWAIN

256017 F. 800TH ROAD

Name

WATONGA OK 73772

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

> Name MISSISSIPPIAN 9800

2

3 4

1

Spacing Orders:

5

656735 677178 Depth

8 9 10

6

7

Location Exception Orders: 676288 Increased Density Orders:

676139 676140

Depth

Special Orders:

Total Depth: 20940

Pending CD Numbers:

Ground Elevation: 1482

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 120

Under Federal Jurisdiction:

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 10000 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?

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

Approved Method for disposal of Drilling Fluids:

PERMIT NO: 18-33736

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER)

HORIZONTAL HOLE 1

Sec 15 Twp 16N Rge 12W County BLAINE

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

Feet From: EAST 1/4 Section Line: 450

Depth of Deviation: 9463 Radius of Turn: 875

Direction: 8

Total Length: 10102

Measured Total Depth: 20940

True Vertical Depth: 10861

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

Notes:

Category Description

DEEP SURFACE CASING 3/8/2018 - G71 - 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 3/8/2018 - 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 - 676139 3/13/2018 - G57 - 15-16N-12W

X656735 MSSP 4 WELLS NO OP. NAMED 4-11-2018

INCREASED DENSITY - 676140 3/13/2018 - G57 - 22-16N-12W

X656735 MSSP 4 WELLS NO OP. NAMED 4-11-2018

INTERMEDIATE CASING 3/8/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-

PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE

MORROW SERIES

LOCATION EXCEPTION - 676288 3/9/2018 - G57 - (I.O.) 22 & 15-16N-12W

X656735 MSSP

COMPL. INT. (22-16N-12W) NCT 150' FSL, NCT 0' FNL, NCT 350' FEL COMPL. INT. (15-16N-12W) NCT 0' FSL, NCT 150' FNL, NCT 350' FEL

CIMAREX ENÈRGY CO.

4-13-2018

SPACING - 656735 3/9/2018 - G57 - (640)(HOR) 15 & 22-16N-12W

EXT 649982 MSSP, OTHERS COMPL. INT. (MSSP) NLT 660' FB

(COEXIST SP. ORDER 188303 CSTR, OTHER; ORDER 531029 CSTR)

Category

SPACING - 677178

Description

3/9/2018 - G57 - (I.O.) 15 & 22-16N-12W EST MULTIUNIT HORIZONTAL WELL X656735 MSSP 50% 22-16N-12W 50% 15-16N-12W CIMAREX ENERGY CO. 5-2-2018