

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

API NUMBER: 017 25092 A

Approval Date: 10/17/2017
Expiration Date: 04/17/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NAME; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 11N Rge: 8W

County: CANADIAN

SPOT LOCATION: SE SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 250 260

Lease Name: ELDER

Well No: 9H-2623X

Well will be 250 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

DIXIE J. ELDER REVOCABLE TRUST
1001 EMPRESS CIRCLE
YUKON OK 73099

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10389	6	
2	WOODFORD	11510	7	
3	HUNTON	11610	8	
4			9	
5			10	

Spacing Orders: 660367
671019

Location Exception Orders: 671513

Increased Density Orders: 671878
670300

Pending CD Numbers: 201704214
201704213

Special Orders:

Total Depth: 21902

Ground Elevation: 1283

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 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) PERMIT NO: 17-33088
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 23 Twp 11N Rge 8W County CANADIAN

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 10945

Radius of Turn: 573

Direction: 358

Total Length: 10057

Measured Total Depth: 21902

True Vertical Depth: 11610

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

Notes:

Category

Description

DEEP SURFACE CASING

10/6/2017 - G58 - 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 - 671513

1/9/2018 - G75 - (I.O.) 26 & 23-11N-8W
X165:10-3-28(C)(2)(B) MSSP, WDFD, HNTN (ELDER 9H-2623X)
MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL
CIMAREX ENERGY CO.
12-28-2017

HYDRAULIC FRACTURING

10/6/2017 - G58 - 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:
OCCWEB.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 - 670300

1/9/2018 - G75 - (I.O.) 26-11N-8W
X660367 WDFD
7 WELLS
NO OP. NAMED
11-21-2017

INCREASED DENSITY - 671878

1/9/2018 - G75 - (I.O.) 23-11N-8W
X671019 WDFD
7 WELLS
NO OP. NAMED
1-5-2018

PENDING CD - 201704213

1/9/2018 - G75 - (I.O.) 26 & 23-11N-8W
EST MULTIUNIT HORIZONTAL WELL
X671019 MSSP, HNTN 26-11N-8W
X660367 WDFD 26-11N-8W
X671019 MSSP, WDFD, HNTN 23-11N-8W
(MSSP, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)
50% 26-11N-8W
50% 23-11N-8W
NO OP. NAMED
REC 10-4-2017 (MCKEOWN)

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017 25092 ELDER 9H-2623X

Category	Description
PENDING CD - 201704214	1/9/2018 - G75 - (I.O.) 26 & 23-11N-8W X671019 MSSP, HNTN 26-11N-8W X660367 WDFD 26-11N-8W X671019 MSSP, WDFD, HNTN 23-11N-8W COMPL. INT. (26-11N-8W) NCT 150' FSL, NCT 0' FNL, NCT 400' FEL COMPL. INT. (23-11N-8W) NCT 0' FSL, NCT 150' FNL, NCT 400' FEL NO OP. NAMED REC 10-4-2017 (MCKEOWN)
SPACING - 660367	10/16/2017 - G75 - (640)(HOR) 26-11N-8W EST WDFD POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 671019	1/9/2018 - G75 - (640)(HOR) 26 & 23-11N-8W EXT 662553 MSSP 26 & 23-11N-8W EXT 662553 WDFD 23-11N-8W EXT 661734 HNTN 26 & 23-11N-8W 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 # 134394 MSSLM, ORDER # 258100 CSTR & ORDER # 376959 WDFD 23-11N-8W; SP. ORDER # 144210 MSSLM, HNTN 26-11N-8W)