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

API NUMBER: 017 24986 A

Approval Date: 03/23/2017
Expiration Date: 09/23/2017

Horizontal Hole Oil & Gas

Amend reason: UPDATE LOCATION EXCEPTION TO 662836 FOR FOOTAGES

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 13N Rge: 8W County: CANADIAN

SPOT LOCATION: SE SW SW SW FEET FROM QUARTER: FROM **SOUTH** FROM **WEST**
SECTION LINES: **270** **550**

Lease Name: THOMPSON **Well No: 2-7H** **Well will be 270 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

THE JORDAN FAMILY BYPASS TRUST
P O BOX 7
CALUMET OK 73014

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	9595	6		
2	WOODFORD	11100	7		
3			8		
4			9		
5			10		

Spacing Orders: 662012
203727

Location Exception Orders: 662836

Increased Density Orders: 662013

Pending CD Numbers:

Special Orders:

Total Depth: 16334 Ground Elevation: 1363 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 260

Under Federal Jurisdiction: No

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: 8000 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? 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32131
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 07 Twp 13N Rge 8W County CANADIAN

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 11086

Radius of Turn: 504

Direction: 359

Total Length: 4457

Measured Total Depth: 16334

True Vertical Depth: 11564

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

Notes:

Category	Description
DEEP SURFACE CASING	3/21/2017 - 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	3/21/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
INCREASED DENSITY - 662013	3/23/2017 - G60 - 7-13N-8W X203727 WDFD 1 WELL CIMAREX ENERGY, CO. 3-17-17
LOCATION EXCEPTION - 662836	3/23/2017 - G60 - (I.O.) 7-13N-8W X203727 WDFD X662012 MSSP COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 250' FWL CIMAREX ENERGY, CO. 4/17/17
SPACING - 203727	3/22/2017 - G60 - (640) 7-13N-8W EXT 192374 WDFD, OTHERS
SPACING - 662012	3/22/2017 - G60 - (640)(HOR) 7-13N-8W EST MSSP COMPL. INT. NLT 660' FB (COEXIST WITH SP. ORDER 149719 MCSTR, MSSLM)

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.