

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

API NUMBER: 017 24958

Approval Date: 12/08/2016  
Expiration Date: 06/08/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 13N Rge: 9W County: CANADIAN  
SPOT LOCATION:  NE  NW  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 235 875

Lease Name: COPELAND Well No: 7-33H Well will be 235 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

BONNIE RHEA  
4750 SOUTH HIGHWAY 74-F  
CASHION OK 73016

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

Name	Depth	Name	Depth
1 WOODFORD	12600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 566702

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605340  
201605349  
201605345

Special Orders:

Total Depth: 17724 Ground Elevation: 1473 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 250

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: 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? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: MARLOW

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31905

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 33 Twp 13N Rge 9W County CANADIAN

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 12123

Radius of Turn: 477

Direction: 175

Total Length: 4852

Measured Total Depth: 17724

True Vertical Depth: 12800

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

Notes:

Category	Description
DEEP SURFACE CASING	12/7/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	12/7/2016 - 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 <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> 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.
PENDING CD - 201605340	12/8/2016 - G75 - (I.O.) 33-13N-9W X566702 WDFD, OTHER XOTHER COMPL. INT. NCT 500' FNL, NCT 150' FSL, NCT 580' FEL NO OP. NAMED REC 12-5-2016 (MCKEOWN)
PENDING CD - 201605345	12/8/2016 - G75 - 33-13N-9W X566702 WDFD 6 WELLS NO OP. NAMED REC 12-5-2016 (MCKEOWN)
PENDING CD - 201605349	12/8/2016 - G75 - (I.O.) 33-13N-9W X165:10-3-28(C)(2)(B) WDFD (COPELAND 7-33H) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL CIMAREX ENERGY CO. REC 12-5-2016 (MCKEOWN)
SPACING - 566702	12/8/2016 - G75 - (640) 33-13N-9W EXT 560156 WDFD, OTHER

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CANADIAN

County, Oklahoma

API 017-24958

235'FNL - 875'FEL Section 33 Township 13N Range 9W I.M.

