

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

API NUMBER: 063 24683 A

Approval Date: 07/10/2017

Expiration Date: 01/10/2018

Horizontal Hole Oil & Gas

Amend reason: MOVE BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 7N Rge: 9E

County: HUGHES

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 515 875

Lease Name: RICHARD

Well No: 2734-1HX

Well will be 515 feet from nearest unit or lease boundary.

Operator Name: CORTERRA ENERGY OPERATING LLC

Telephone: 9186150400

OTC/OCC Number: 23995 0

CORTERRA ENERGY OPERATING LLC  
1717 S BOULDER AVE STE 900  
TULSA, OK 74119-4844

RICHARD RAMBO  
3451 N. 375 ROAD  
HOLDENVILLE OK 74848

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4460	6	
2	WOODFORD	4840	7	
3			8	
4			9	
5			10	

Spacing Orders: 669559

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702648  
201702649

Special Orders:

Total Depth: 15500

Ground Elevation: 840

**Surface Casing: 390**

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 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 BED AQUIFER

Pit Location Formation: WEWOKA

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

PERMIT NO: 17-32849

H. SEE MEMO

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.

## PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: WEWOKA

## HORIZONTAL HOLE 1

Sec 34 Twp 7N Rge 9E County HUGHES

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 875

Depth of Deviation: 4600

Radius of Turn: 401

Direction: 180

Total Length: 10270

Measured Total Depth: 15500

True Vertical Depth: 5000

End Point Location from Lease,  
Unit, or Property Line: 165

### Notes:

#### Category

#### Description

#### HYDRAULIC FRACTURING

7/6/2017 - 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/](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

#### MEMO

7/6/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

#### PENDING CD - 201702648

11/27/2017 - G57 - (I.O.) 27 & 34-7N-9E  
EST MULTIUNIT HORIZONTAL WELL  
X201702622 MSSP, WDFD, OTHER  
(MSSP ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)  
50% 27-7N-9E  
50% 34-7N-9E  
NO OP. NAMED  
REC 10-03-2017 (JOHNSON)

#### PENDING CD - 201702649

11/27/2017 - G57 - (I.O.) 27 & 34-7N-9E  
X201702622 MSSP, WDFD, OTHER  
SHL (22-7N-9E) 515' FSL, 875' FEL  
COMPL. INT. (27-7N-9E) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL  
COMPL. INT. (34-7N-9E) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL CORTERRA ENERGY, LLC  
REC 10-03-2017 (JOHNSON)

#### SPACING - 669559

11/27/2017 - G57 - (640)(HOR) 27 & 34-7N-9E  
EST MSSP, WDFD, OTHER  
POE TO BHL (MSSP) NCT 660' FB  
POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

This permit does not address the right of entry or settlement of surface damages.

063 24683 RICHARD 2734-1HX

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.