

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

API NUMBER: 063 24738 A

Approval Date: 12/01/2017  
Expiration Date: 06/01/2018

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: ADD HUNTON AND REMOVE SYLVAN; UPDATE  
ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 7N Rge: 9E County: HUGHES  
SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 335 395

Lease Name: WEATHER Well No: 1423-1HX Well will be 335 feet from nearest unit or lease boundary.  
Operator CORTERRA ENERGY OPERATING LLC Telephone: 9186150400 OTC/OCC Number: 23995 0  
Name:

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

D&L CATTLE II, L.L.C.  
1536 WHITE CHIMNEY ROAD  
STUART OK 74570

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4209	6	
2	WOODFORD	4723	7	
3	HUNTON	4921	8	
4			9	
5			10	

Spacing Orders: 703238  
683939

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707626  
201707627

Special Orders:

Total Depth: 16000 Ground Elevation: 862 Surface Casing: 660 Depth to base of Treatable Water-Bearing FM: 610

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE  
Type of Mud System: AIR

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: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: WEWOKA

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33527

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is 18 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: 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

PIT 3 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 23 Twp 7N Rge 9E County HUGHES

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 440

Depth of Deviation: 4390

Radius of Turn: 866

Direction: 182

Total Length: 10250

Measured Total Depth: 16000

True Vertical Depth: 4922

End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category

Description

FORMATION

1/17/2020 - GB1 - SYLVAN REMOVED PER OPR REQUEST

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063 24738 WEATHER 1423-1HX

HYDRAULIC FRACTURING

11/27/2017 - 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: [OCCWEB.COM/OG/OGFORMS.HTML](http://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](http://FRACFOCUS.ORG)

MEMO

11/30/2017 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201707626

1/17/2020 - GB1 - (E.O.) 14 & 23-7N-9E  
X683939 MSSP, WDFD, OTHER 14 & 23-7N-9E\*\*\*  
X201904160 HNTN 1 & 12-7N-9E++  
SHL 335' FSL, 395' FEL (11-7N-9E)  
FIRST PERF WDFD (14-7N-9E) 193' FNL, 464' FEL  
LAST PERF WDFD (14-7N-9E) 0' FSL, 463' FEL  
FIRST PERF WDFD (23-7N-9E) 0' FNL, 463' FEL  
LAST PERF WDFD (23-7N-9E) 2574' FNL, 432' FEL  
FIRST PERF HNTN (23-7N-9E) 2574' FNL, 432' FEL  
LAST PERF HNTN (23-7N-9E) 2542' FSL, 431' FEL  
FIRST PERF WDFD (23-7N-9E) 2542' FSL, 431' FEL  
LAST PERF WDFD (23-7N-9E) 1931' FSL, 458' FEL  
FIRST PERF HNTN (23-7N-9E) 1931' FSL, 458' FEL  
LAST PERF HNTN (23-7N-9E) 1871' FSL, 460' FEL  
FIRST PERF MSSP (23-7N-9E) 1871' FSL, 460' FEL  
LAST PERF MSSP (23-7N-9E) 1287' FSL, 460' FEL  
FIRST PERF WDFD (23-7N-9E) 1287' FSL, 460' FEL  
LAST PERF WDFD (23-7N-9E) 199' FSL, 461' FEL  
CORTERRA ENERGY, LLC.  
REC. 1/14/2020 (JOHNSON)

\*\*\*SLVN WILL BE DISMISSED AT ORAL MOTION TO REOPEN PER ATTORNEY FOR OPR  
++S/B 201904161 HNTN 14 & 23-7N-9E, WILL BE CORRECTED PER ATTORNEY F

PENDING CD - 201707627

1/17/2020 - GB1 - (E.O.) 14 & 23-7N-9E  
EST MULTIUNIT HORIZONTAL WELL  
X683939 MSSP, WDFD, OTHER 14 & 23-7N-9E  
X201904160 HNTN 1 & 12-7N-9E \*\*\*  
(MSSP, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD)  
50% 23-7N-9E  
50% 14-7N-9E  
CORTERRA ENERGY, LLC.  
REC. 1/14/2020 (JOHNSON)

\*\*\* S/B 201904161 HNTN 14 & 23-7N-9E; WILL BE CORRECTED AT HEARING PER ATTORNEY FOR OPR

SPACING - 683939

1/17/2020 - GB1 - (640)(HOR) 14 & 23-7N-9E  
EST MSSP, WDFD, OTHER  
COMPL. INT. (MSSP) NCT 660' FB  
COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

SPACING - 703238

1/17/2020 - GB1 - (640)(HOR) 14 & 23-7N-9E  
EST HNTN  
COMPL. INT NCT 660' FB

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