

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

Approval Date: 12/01/2017

Expiration Date: 06/01/2018

Horizontal Hole Oil & Gas

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 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

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	SYLVAN	4922	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702628  
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

Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: AIR

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

PERMIT NO: 17-33527

Is depth to top of ground water greater than 10ft below base of pit? Y

H. SEE MEMO

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).

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: 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:

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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.

063 24738 WEATHER 1423-1HX

Category	Description
HYDRAULIC FRACTURING	<p>11/27/2017 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
MEMO	<p>11/30/2017 - G71 - PITS 2 &amp; 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
PENDING CD - 201702628	<p>11/30/2017 - G60 - (E.O.)(640)(HOR) 14 &amp; 23-7N-9E  EST MSSP, WDFD, SLVN  COMPL. INT. (MSSP) NCT 660' FB  COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL  COMPL. INT. (SLVN) NCT 330' FB **  REC. 11/21/17 (MCKEOWN)</p>
PENDING CD - 201707626	<p>**WILL BE CORRECTED TO 330' FB FOR FINAL ORDER FOR ATTORNEY FOR OPERATOR</p> <p>11/30/2017 - G60 - (E.O.) 14 &amp; 23-7N-9E  X201702628 MSSP, WDFD, SLVN  SHL 335' FSL, 395' FEL (11-7N-9E)  COMPL. INT. (14-7N-9E) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL  COMPL. INT. (23-7N-9E) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL  CORTERRA ENERGY, LLC.  REC. 11/21/17 (MCKEOWN)</p>
PENDING CD - 201707627	<p>11/30/2017 - G60 - (E.O.) 14 &amp; 23-7N-9E  EST MULTIUNIT HORIZONTAL WELL  X201702628 MSSP, WDFD, SLVN  (MSSP AND SLVN ARE ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)  50% 23-7N-9E  50% 14-7N-9E  CORTERRA ENERGY, LLC.  REC. 11/21/17 (MCKEOWN)</p>

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

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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.

# Permit Plat

M & M Land Surveying, Inc.

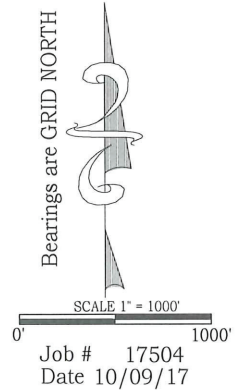
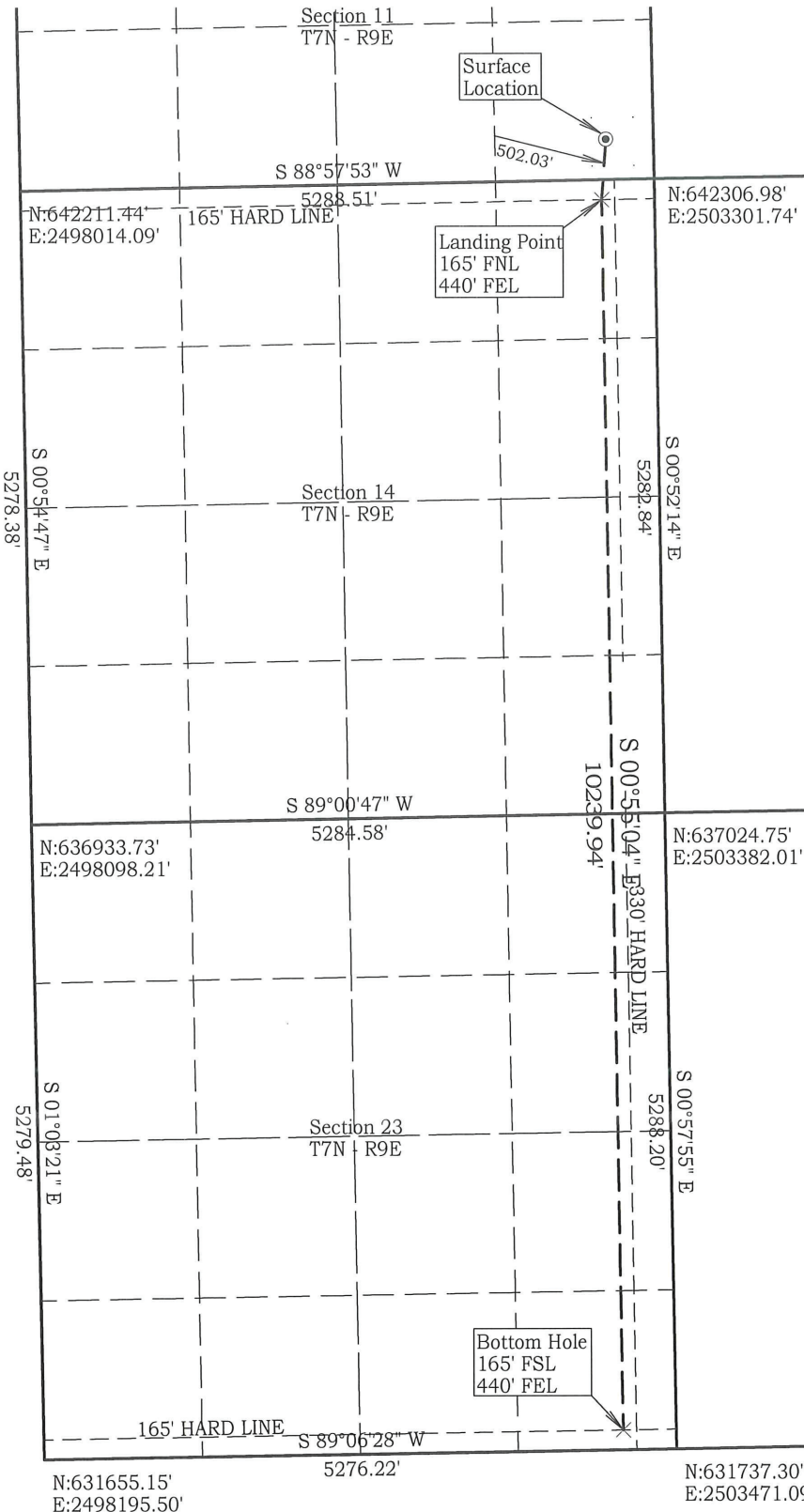
3506324738

520 "E" Street NW. Ardmore, OK. 73401  
Office 580-226-0446 Mobile 580-221-4999

Company Name: Corterra Energy Operating, LLC. Lease Name: Weather #1423-1HX  
Section 11 Township 7 North Range 9 East County Hughes Oklahoma

Surface Location 335' FSL - 395' FEL Elevation 862'

**ALL SECTION CORNER COORDINATES ARE NAD 27**



Pad Corner Elevations  
NE/C = 869'  
SE/C = 869'  
SW/C = 859'  
NW/C = 859'

NAD 27 OK SOUTH  
Surface Location  
Latitude: 35.087702°  
Longitude: 96.318996°  
Y = 642,635'  
X = 2,502,901'  
Landing Point  
N = 642,134'  
E = 2,502,864'  
Bottom Hole  
N = 631,895'  
E = 2,503,028'

NAD 83 OK SOUTH  
Surface Location  
Latitude: 35.087788°  
Longitude: 96.319282°  
Y = 642,683'  
X = 2,471,303'  
Landing Point  
N = 642,182'  
E = 2,471,267'  
Bottom Hole  
N = 631,943'  
E = 2,471,431'

*D. Harry McClintick* 11/21/17

D. Harry McClintick, R.P.L.S. # 1367, CA # 3093

This location has been staked according to the best official survey records available to us, but its accuracy is not guaranteed. Please review this plat and notify us immediately of any discrepancy.

