

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

API NUMBER: 063 24800

Approval Date: 05/08/2018  
Expiration Date: 05/08/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 7N Rge: 9E County: HUGHES  
SPOT LOCATION:  SW  SW  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 1020 325

Lease Name: MASON Well No: 1015-1HX Well will be 325 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

CHAD W. ROGERS  
P.O. BOX 152  
HOLDENVILLE OK 74848

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4033	6	
2	WOODFORD	4520	7	
3	SYLVAN	4654	8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708336  
201708337  
201708349

Special Orders:

Total Depth: 14520 Ground Elevation: 907 Surface Casing: 600 Depth to base of Treatable Water-Bearing FM: 400

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34408  
H. SEE MEMO

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is NON HSA

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: WEWOKA

HORIZONTAL HOLE 1

Sec 15 Twp 7N Rge 9E County HUGHES

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 510

Depth of Deviation: 3692

Radius of Turn: 380

Direction: 175

Total Length: 10232

Measured Total Depth: 14520

True Vertical Depth: 4770

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

Additional Surface Owner	Address	City, State, Zip
MARK R. ROGERS	1615 W BEDFORD	DIMITT, TX 79027

Notes:

Category	Description
FORMATIONS	5/8/2018 - G58 - HNTN TAKEN OFF PERMIT PER OP.

Category	Description
HYDRAULIC FRACTURING	<p>5/1/2018 - 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>5/1/2018 - 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 - 201708336	<p>5/4/2018 - G58 - (640)(HOR) 10 &amp; 15-7N-9E  VAC 525397 WDFD  EST MSSP, WDFD, SLVN  COMPL. INT. (MSSP) NCT 660' FB  COMPL. INT. (WDFD) NCT 165' FNL &amp; FSL, NCT 330' FEL &amp; FWL  COMPL. INT. (SLVN) NCT 330' FB  REC 4/10/2018 (JOHNSON)</p>
PENDING CD - 201708337	<p>5/4/2018 - G58 - (I.O.) 10 &amp; 15-7N-9E  X201708336 MSSP, WDFD, SLVN  SHL 1020' FNL, 325' FWL OF 10-7N-9E  COMPL. INT. (10-7N-9E) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL  COMPL. INT. (15-7N-9E) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL  NO OP. NAMED  REC 4/10/2018 (JOHNSON)</p>
PENDING CD - 201708349	<p>5/4/2018 - G58 - (I.O.) 10 &amp; 15-7N-9E  EST MULTIUNIT HORIZONTAL WELL  X201708336 MSSP, WDFD, SLVN  50% 10-7N-9E  50% 15-7N-9E  NO OP. NAMED  REC 4/10/2018 (JOHNSON)</p>

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