API NUMBER: 063 24737

Oil & Gas

Horizontal Hole

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

Approval Date: 11/29/2017
Expiration Date: 05/29/2018

315 feet from nearest unit or lease boundary.

23995 0

	PERMIT TO DRILL			
	SE	County: HUGi FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM E	:AST 95
Lease Name: CAROL Operator CORTERRA ENERGY OPE Name:	ERATING L	Well No:	1201-1HX Telephone: 9186	6150400
CORTERRA ENERGY OPERATI 1717 S BOULDER AVE STE 900		D&L CA		
TULSA,	OK 7	74119-4844		STUAR
Formation(s) (Permit Valid for Liste	ed Form	ations Only):		Name
		- vp		· Juille

D&L CATTLE II, L.L.C. 536 WHITE CHIMNEY ROAD STUART OK 74570

OTC/OCC Number:

Well will be

Depth MISSISSIPPIAN 1 4209 6 2 WOODFORD 4723 7 3 SYLVAN 4922 8 9 5 10 Spacing Orders: Location Exception Orders: Increased Density Orders: No Spacing Pending CD Numbers: 201705507 Special Orders: 201707624 201707625 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 Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION 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: 17-33522

H. SEE MEMO

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).

is located in a Hydrologically Sensitive Area.

Within 1 mile of municipal water well? N

Wellhead Protection Area?

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 11 Twp 7N Rge 9E County HUGHES

Spot Location of End Point: NE NW NW NW Feet From: NORTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 440

Depth of Deviation: 4390 Radius of Turn: 866

Direction: 3

Total Length: 10250

Measured Total Depth: 16000
True Vertical Depth: 4922
End Point Location from Lease,

Unit, or Property Line: 165

Notes:

Category Description

HYDRAULIC FRACTURING 11/22/2017 - 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:

OCCEWEB.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

MEMO 11/22/2017 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3

- OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201705507 11/29/2017 - G60 - (E.O.)(640)(HOR) 1 & 12-7N-9E

VAC 363064 E2 MSSP 1-7N-9E * VAC 513659 W2 MSSP, WDFD 1-7N-9E EST MSSP, WDFD, HNTN

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)

**WILL BE CORRECTED TO VAC 362808/363064 MSSP (1-7N-9E) PER ATTORNEY FOR

OPERATOR

PENDING CD - 201707624 11/29/2017 - G60 - (E.O.) 1 & 12-7N-9E

X201705507 MSSP, WDFD, SLVN SHL 315' FSL, 395' FEL (11-7N-9E)

COMPL. INT. (12-7N-9E) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (1-7N-9E) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL

CORTERRA ENERGY, LLC. REC. 11/21/17 (MCKEOWN)

PENDING CD - 201707625 11/29/2017 - G60 - (E.O.) 1 & 12-7N-9E

EST MULTIUNIT HORIZONTAL WELL X201705507 MSSP, WDFD, SLVN

50% 1-7N-9E

50% 12-7N-9E

CORTERRA ENERGY, LLC. REC. 11/21/17 (MCKEOWN)

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.

3506324737

Permit Plat

M & M Land Surveying, Inc.
520 "E" Street NW. Ardmore, OK. 73401

Company	Name	: C	orterra E	Offic Energy Operati			Mobile 580 Lease Nam		. -4999 Carol #12	01-1HX	
Section				ship 7 N	•				County <u>H</u>		Oklahoma
			Sur	face Location	215	' EQI	205' EE1		Elevation 862'		
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		ALL	, SECTIO	ON CORNER C		TES AR	E NAD 27				Bearings are GRID NORTH
N:6528	64.21' [1,	./		57'08" W 86-86 <u>'</u>			N:65	2960.88'		
E:2503	120.25'	<i>7</i>			165' HAR				08406.23'		re GF
		LOT	LOT 4	LOT 3	LOT	LOT 2 LOT 1	LOT 1				ngs a
		ì	1								Searii
		-+	↓ — — 	Bottom Hole 165' FNL							SCALE 1" = 1000'
		İ	Ì	440' FWL						0'	Job # 17347
	4.0	S O	İ				Ų.	N 00			Date 9/18/17
	5278.07	00°54'04" E	<u> </u>	<u>Se</u>	ction 1 N R9E			N 00°55'43"		Pac	d Corner Elevations //C = 869'
	07'	04" E	İ				۵	3 W		SE	/C = 869' /C = 859'
				Ī	j	1					I/C = 859'
			Z			}				NA	D 27 OK SOUTH
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E:250	3203.26				3°58'13" E 289.40'			- N.G.	47681.84'	N=	642,479' = 2,503,742'
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ĺ											= 2,503,563'
j			<u>.</u>							Sur	O 83 OK SOUTH face Location
		+ ;	HARDLING 							Lon	itude: 35.087733° gitude: 96.319282°
										X =	642,663' 2,471,303' ding Point
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ection 11	—— J	01°04'07"	<u> </u>		ection 12 _ 7N R9E			00°56'39" 528\$.52'		Bot	tom Hole 652,755'
7N R9E	4	'07" E	li	1	TH ROLL	} 		39 E			2,471,965'
			¦j		j	1			\bigcirc d	1111.1	1 , ,
1			Ħ						D. Harry McCl	intials D.D.I.S	S. # 1367, CA # 3093
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face Location	on .			440' FWL	_	165' HA	RD LINE		miniculately of a	in, discrepancy.	PESSIONAL P
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