API NUMBER: 063 24804

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

PERMIT TO DRILL

EAST

WELL LOCATION:	Sec:	26	Twp:	6N	Rge:	9E	County	HUG	HES	
SPOT LOCATION:	NE	NE	[N	IW	NE		FEET FROM QUARTER:	FROM	NORTH	FROM

SECTION LINES: 260 1570

Lease Name: JEREMY Well No: 23-1H Well will be 260 feet from nearest unit or lease boundary.

Operator 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

GARY & RUTH DESHIELDS

4185 N. 376 RD.

ATWOOD OK 74827

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5461	6	
2	WOODFORD	5943	7	
3	SYLVAN	6103	8	
4			9	
5			10	
Spacing Orders:	No Spacing	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201703287 Special Orders:

201803169 201803170

Total Depth: 11325 Ground Elevation: 811 Surface Casing: 710 Depth to base of Treatable Water-Bearing FM: 510

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
Type of Mud System: AIR

Type of Mud System: AIR D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34409

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 located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

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

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

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?

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 23 Twp 6N Rge 9E County HUGHES

Spot Location of End Point: NW NW NW NE
Feet From: NORTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 2500

Depth of Deviation: 5261 Radius of Turn: 573

Direction: 350
Total Length: 5164

Measured Total Depth: 11325

True Vertical Depth: 6193

End Point Location from Lease.

Unit, or Property Line: 165

Notes:

Category Description

MEMO

HYDRAULIC FRACTURING 5/9/2018 - 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 5/9/2018 - G71 - PITS 2 & 3 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 3 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201703287 5/9/2018 - G57 - (640)(HOR) 23-6N-9E

EST MSSP, WDFD, ŚĹVN

POE TO BHL (MSSP) NCT 660' FB POE TO BHL (SLVN) NCT 330' FB

POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

REC 5-1-2018 (DUNN)

PENDING CD - 201803169 5/9/2018 - G57 - (I.O.) 23-6N-9E

X201703287 MSSP, WDFD, SLVN SHL (26-6N-9E) 315' FNL, 1220' FEL **

COMPL. INT. (23-6N-9E) NCT 150' FSL, NCT 150' FNL, NCT 660' FEL

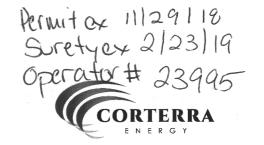
NO OP. NAMED

REC 5-8-2018 (JOHNSON)

**S/B SHL (26-6N-9E) 260' FNL. 1570' FEL WILL BE CORRECTED AT THE HEARING FOR THE

FINAL ORDER PER OPERATOR

Corterra Energy, LLC 1717 S. Boulder Ave, Suite 900 Tulsa, OK 74119



September 26, 2018

Ms. Virginia Hullinger
Oklahoma Corporation Commission
Oil & Gas Conservation Division
Jim Thorpe Building
P. O. Box 52000
Oklahoma City, OK 73152-2000

RE:

Jeremy 23-1H

NE/4, NE/4, NW/4, NE/4 Section 26, T6N-R9E Hughes County, Oklahoma

API #35-063-24804

Ms. Hullinger:

This letter is to request a permit extension of six (6) months from November 29, 2018 in which to drill the above referenced well.

If you have any questions or wish to discuss this request, please call or email me at (918) 615-0413 or *rbarker@corterraenergy.com*. Thank you for your consideration of our request.

Approved for 6 Month Extension From

10-08-18

1075-18

011

Sincerely,

Rachel Barker

Senior Geologist

RECEIVED

SEP 2 3 2018

OKLAHOMA CORPORATION COMMISSION

WELL LOCATION

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.

Company Name: CORTERRA ENERGY OPERATING, LLC.

Lease Name: JEREMY 2623 1HX

Section 26 Township 6 N Range 9 E , I.B.M, County of Hughes, State of Oklahoma

Good Location? Elevation

Original Location:

260'FNL - 1570'FEL

811' GROUND

YES

API: 063 24804

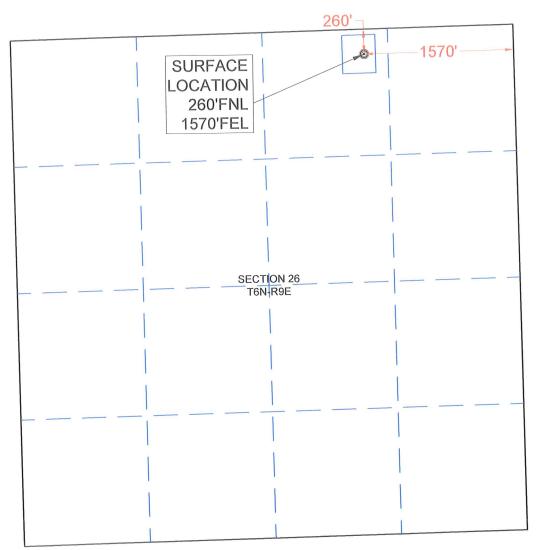
Topography:

CORN FIELD - 20' EAST OF JAY 26 1HX

Best Accessibility to Location: From the North

Distance & Direction From Nearest Town: 1.2 miles Northeast of Atwood

From the town of Atwood and the intersection of State Highway No. 1 and State Highway No. 48; Go North 1.0 mile on State Highway No. 48; Then go East 0.7 mile on County Road E1410 to location in SECTION 26, T6N, R9E, I.B.M., Hughes County, Oklahoma.





PAD CORNER ELEVATIONS

NE/C = 811.19'

SE/C = 807.53'

SW/C = 811.21'

NW/C = 811.98'

NAD 27 OK SOUTH SURFACE LOCATION

LAT: 34.969915°N LONG: 96.322844°W

599752.13' N=2502461.83'

NAD 83 OK SOUTH SURFACE LOCATION

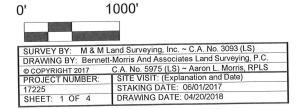
34.970002°N LAT: LONG: 96.323129°W

N= 599799.6' E= 2470864.22'

CERTIFICATE:

I D. Harry McClintick a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

> D. Harry McClintick PLS. No.1367 CFEDS



SCALE 1" = 1000'



LOCATION AND ELEVATION VERIFICATION MAP

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

Company Name: CORTERRA ENERGY OPERATING, LLC.

Lease Name: JEREMY 2623 1HX

Section 26 Township 6 N Range 9 E , I.B.M, County of Hughes, State of Oklahoma

Good Location? Elevation

Original Location:

260'FNL - 1570'FEL

811' GROUND

YES

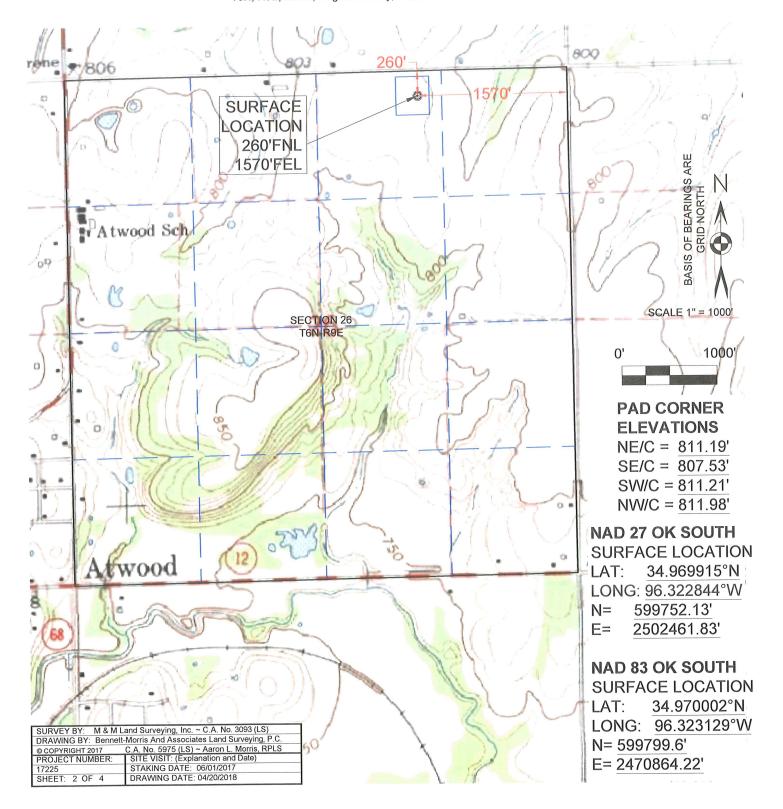
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AERIAL PHOTO

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

Company Name: CORTERRA ENERGY OPERATING, LLC.

Lease Name: JEREMY 2623 1HX

Section 26 Township 6 N Range 9 E , I.B.M, County of Hughes, State of Oklahoma

Elevation Good Location?

Original Location:

260'FNL - 1570'FEL

811' GROUND

YES

Topography:

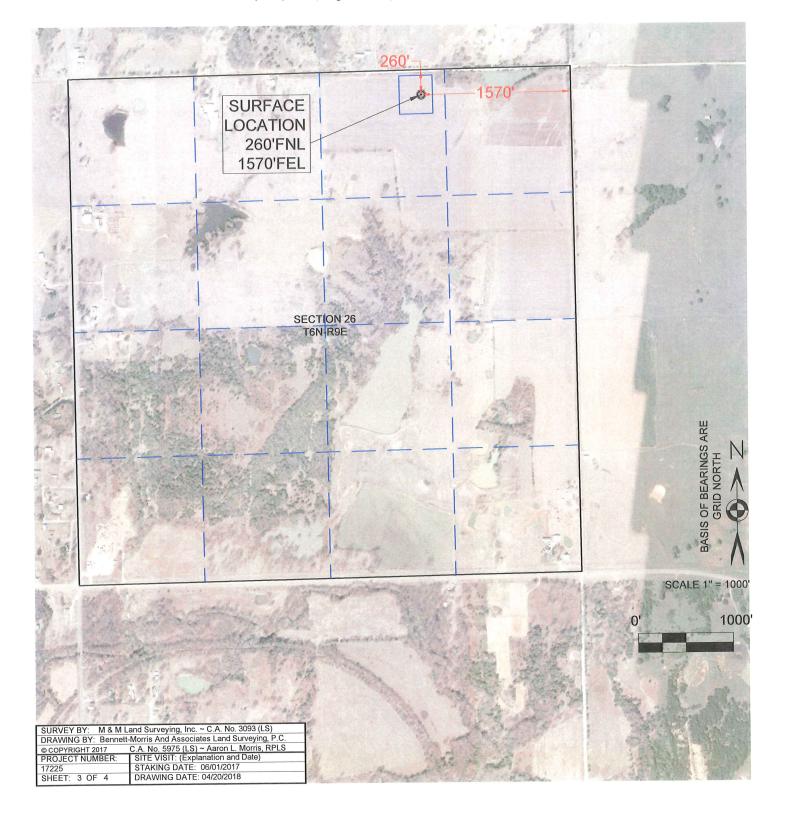
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T6N, R9E, I.B.M., Hughes County, Oklahoma.



PERMIT PLAT

M & M Land Surveying, Inc. Phone (580) 226-0446 520 E Street N.W. Ardmore, OK 73401

Company Name: CORTERRA ENERGY OPERATING, LLC.

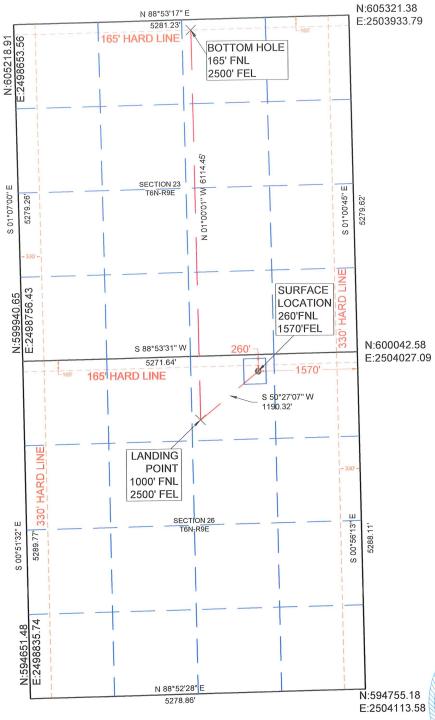
Lease Name: JEREMY 2623 1HX

Section 26 Township 6 N Range 9 E , I.B.M, County of Hughes, State of Oklahoma

Elevation Good Location?

Original Location: 260'FNL - 1570'FEL 811' GROUND YES

Distance & Direction From Nearest Town: 1.2 miles Northeast of Atwood



NAD 27 OK SOUTH SURFACE LOCATION 34.969915°N LAT: LONG: 96.322844°W 599752.13 N= 2502461.83 LANDING POINT N= 598994.33' E= 2501543.92 **BOTTOM HOLE** N= 605107.8' E= 2501437.25' NAD 83 OK SOUTH SURFACE LOCATION LAT: 34.970002°N LONG: 96.323129°W N= 599799.6' E= 2470864.22' LANDING POINT N= 599041.77 E= 2469946.32 **BOTTOM HOLE** N= 605155.29



DATA DERIVED FROM G.P.S. WITH O.P.U.S. DATA.

E= 2469839.58'

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.

CERTIFICATE:

I D. Harry McClintick a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

SURVEY BY: M & M	Land Surveying, Inc. ~ C.A. No. 3093 (LS)
DRAWING BY: Bennet	t-Morris And Associates Land Surveying, P.C.
© COPYRIGHT 2017	C.A. No. 5975 (LS) ~ Aaron L. Morris, RPLS
PROJECT NUMBER:	SITE VISIT: (Explanation and Date)
17225	STAKING DATE: 06/01/2017
SHEET: 4 OF 4	DRAWING DATE: 04/20/2018

D. HARRY MCCLINTICK

1367

OKLAHOMA

OKLAHOMA

D. Harry McClintick PLS. No.1367 CFEDS