

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

API NUMBER: 063 24798

Approval Date: 05/03/2018

Expiration Date: 11/03/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 6N Rge: 9E

County: HUGHES

SPOT LOCATION: ☐ NE ☐ SW ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 350 350

Lease Name: JACK

Well No: 3031-1HX

Well will be 350 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

JOHN WALT SHERRY  
7672 E 143 RD  
ATWOOD OK 74827

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4892	6	
2	WOODFORD	5257	7	
3	SYLVAN	5422	8	
4			9	
5			10	

Spacing Orders: 668938  
677073

Location Exception Orders: 676580

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15257

Ground Elevation: 884

**Surface Casing: 800**

Depth to base of Treatable Water-Bearing FM: 600

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

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

PERMIT NO: 18-34410

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 31 Twp 6N 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: 510

Depth of Deviation: 4426

Radius of Turn: 380

Direction: 185

Total Length: 10234

Measured Total Depth: 15257

True Vertical Depth: 5422

End Point Location from Lease,

Unit, or Property Line: 165

Additional Surface Owner

BOB J. SHERRY

JACK O. SHERRY

Address

7670 E 141 RD

1130 E MAIN

City, State, Zip

ATWOOD, OK 74827

HOLDENVILLE, OK 74848

Notes:

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.

063 24798 JACK 3031-1HX


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>
LOCATION EXCEPTION - 676580	<p>5/3/2018 - G58 - (I.O.) 30 &amp; 31-6N-9E  X668938 MSSP, WDFD, SLVN  SHL 350' FSL, 350' FNL OF 20-6N-9E  COMPL. INT. (30-6N-9E) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL  COMPL. INT. (31-6N-9E) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL  CORTERRA ENERGY OPERATING, LLC  4/20/2018</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>
SPACING - 668938	<p>5/3/2018 - G58 - (640)(HOR) 30 &amp; 31-6N-9E  VAC 538105 WDFD  VAC 309868 WDFD  EST MSSP, WDFD, SLVN  COMPL. INT. (MSSP) NLT 660' FB  COMPL. INT. (WDFD) NLT 165' FNL &amp; FSL, NLT 330' FEL &amp; FWL  COMPL. INT. (SLVN) NLT 330' FB  (COEXIST SP. ORDER 538105 OTHER; SP. ORDER 309868 OTHERS)</p>
SPACING - 677073	<p>5/3/2018 - G58 - (I.O.) 30 &amp; 31-6N-9E  EST MULTIUNIT HORIZONTAL WELL  X668938 MSSP, WDFD, SLVN  (MSSP &amp; SLVN ARE ADJACENT COMMON SOURCE OF SUPPLY TO WDFD)  50% 30-6N-9E  50% 31-6N-9E  CORTERRA ENERGY OPERATING, LLC  5/1/2018</p>

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.

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

Permit ex 11/3/18 ✓  
Surety ex 2/23/19  
Operator # 23995  


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

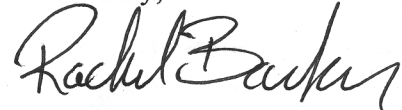
RE: Jack 3031-1HX ✓  
NE/4, SW/4, SW/4, SW/4  
Section 20, T6N-R9E ✓  
Hughes County, Oklahoma ✓  
API #35-063-24798 ✓

Ms. Hullinger:

This letter is to request a permit extension of six (6) months from November 3, 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](mailto:rbarker@corterraenergy.com). Thank you for your consideration of our request.

Sincerely,



Rachel Barker  
Senior Geologist

Approved for 6 Month Extension From	
<u>11-3-18</u>	
<u>10-25-18</u>	<u>U2H</u>

**RECEIVED**

SEP 28 2018

OKLAHOMA CORPORATION  
COMMISSION

063-24798

**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: **JACK 3031 1HX**

Section 20 Township 6N Range 9E I.B.M.  
County of Hughes, State of Oklahoma

Good Location? **YES**

Original Location: 350'FSL - 350'FWL Elevation 884' GROUND  
Distance & Direction From Nearest Town: 3.1 miles Northwest of Atwood.

**NAD 27 OK SOUTH**  
**SURFACE LOCATION**  
LAT: 34.971573°N  
LONG: 96.386876°W  
N= 600042.86'  
E= 2483270.41'

**PAD CORNER**  
**ELEVATIONS**  
NE/C = 888.60'  
SE/C = 872.97'  
SW/C = 872.82'  
NW/C = 874.80'

**LANDING POINT**  
N= 599513.21'  
E= 2482418.95'  
**BOTTOM HOLE**  
N= 589279.88'  
E= 2482573.04'

**NAD 83 OK SOUTH**  
**SURFACE LOCATION**  
LAT: 34.971659°N  
LONG: 96.387162°W  
N= 600089.88'  
E= 2451672.88'  
**LANDING POINT**  
N= 599560.2'  
E= 2450821.43'  
**BOTTOM HOLE**  
N= 589326.82'  
E= 2450975.65'



SCALE 1" = 1500'



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

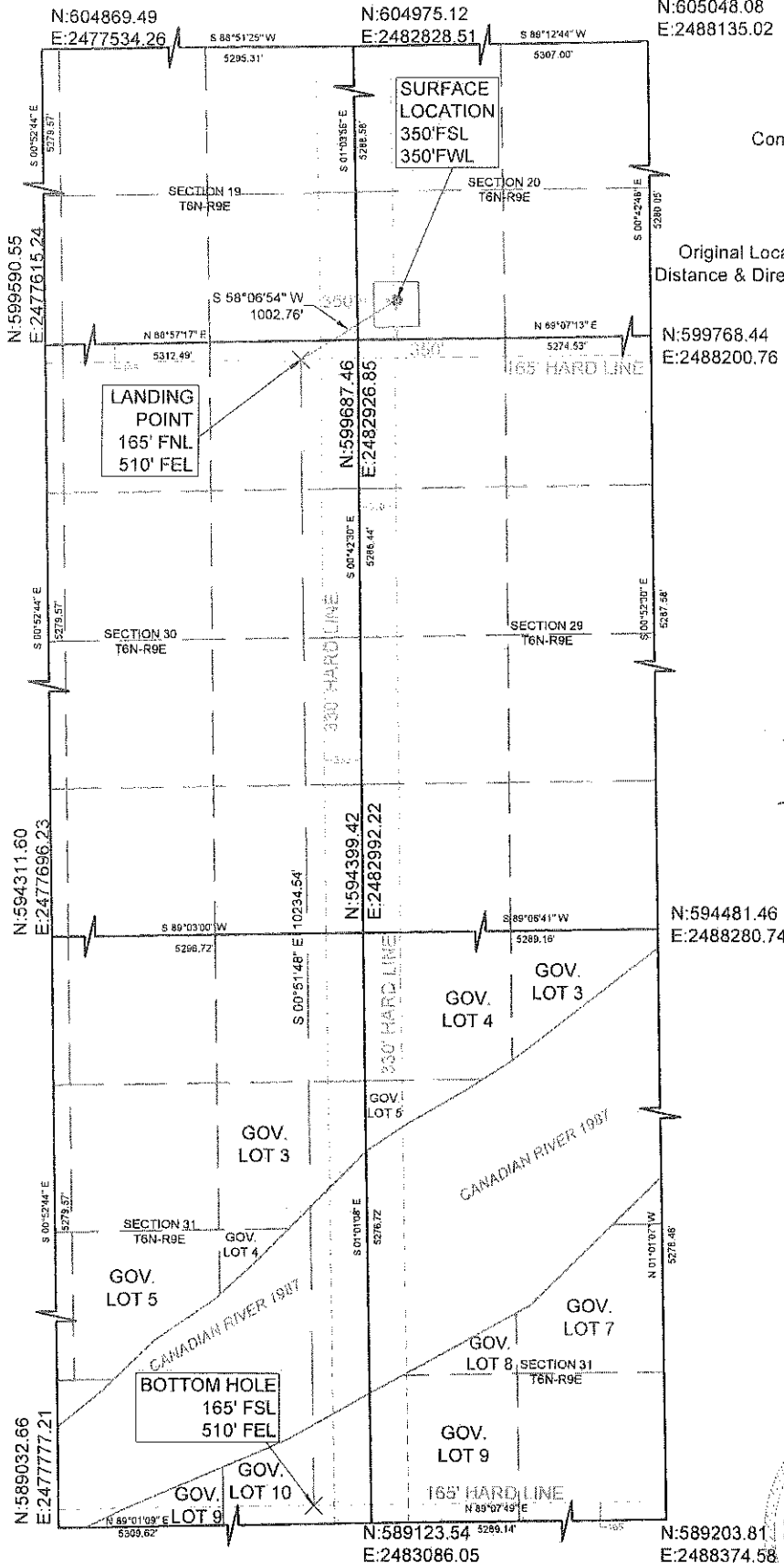
This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy.

**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.



*D. Harry McClintick*  
D. Harry McClintick  
PLS. No.1367 CFEDS



SURVEY BY: M & M Land Surveying, Inc. - C.A. No. 3093 (LS)	
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.	
© COPYRIGHT 2017 C.A. No. 5975 (LS) - Aaron L. Morris, RPLS	
PROJECT NUMBER: 17362	SITE VISIT: (Explanation and Date)
17362	STAKING DATE: 08/14/2017
SHEET: 4 OF 4	DRAWING DATE: 12/19/2017