

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: 11/08/2018

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

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: 18-34408

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

DIMMIT, TX 79027

Notes:

Category

Description

FORMATIONS

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

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

063 24800 MASON 1015-1HX

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.

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>

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

Permit ex 11/08/2018  
Surety ex 2/23/19



Operator # 23995

September 25, 2018

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

RE: Mason 1015-1HX ✓  
SW/4, SW/4, NW/4, NW/4 ✓  
Section 10, T7N-R9E ✓  
Hughes County, Oklahoma ✓  
API #35-063-24800 ✓

Ms. Hullinger:

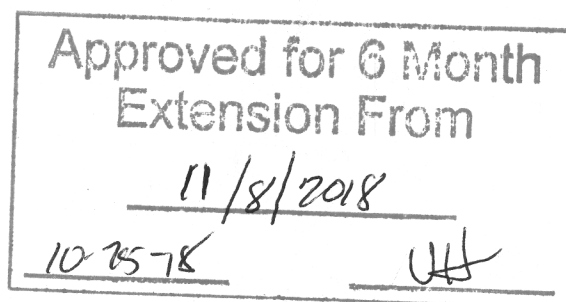
This letter is to request a permit extension of six (6) months from November 8, 2018 in which to drill the above referenced well.

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,

A handwritten signature in cursive script that reads "Rachel Barker".

Rachel Barker  
Senior Geologist



RECEIVED

SEP 28 2018

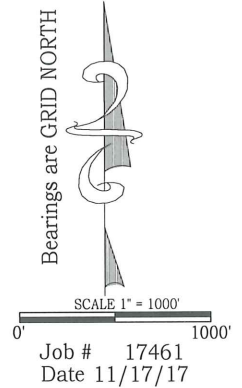
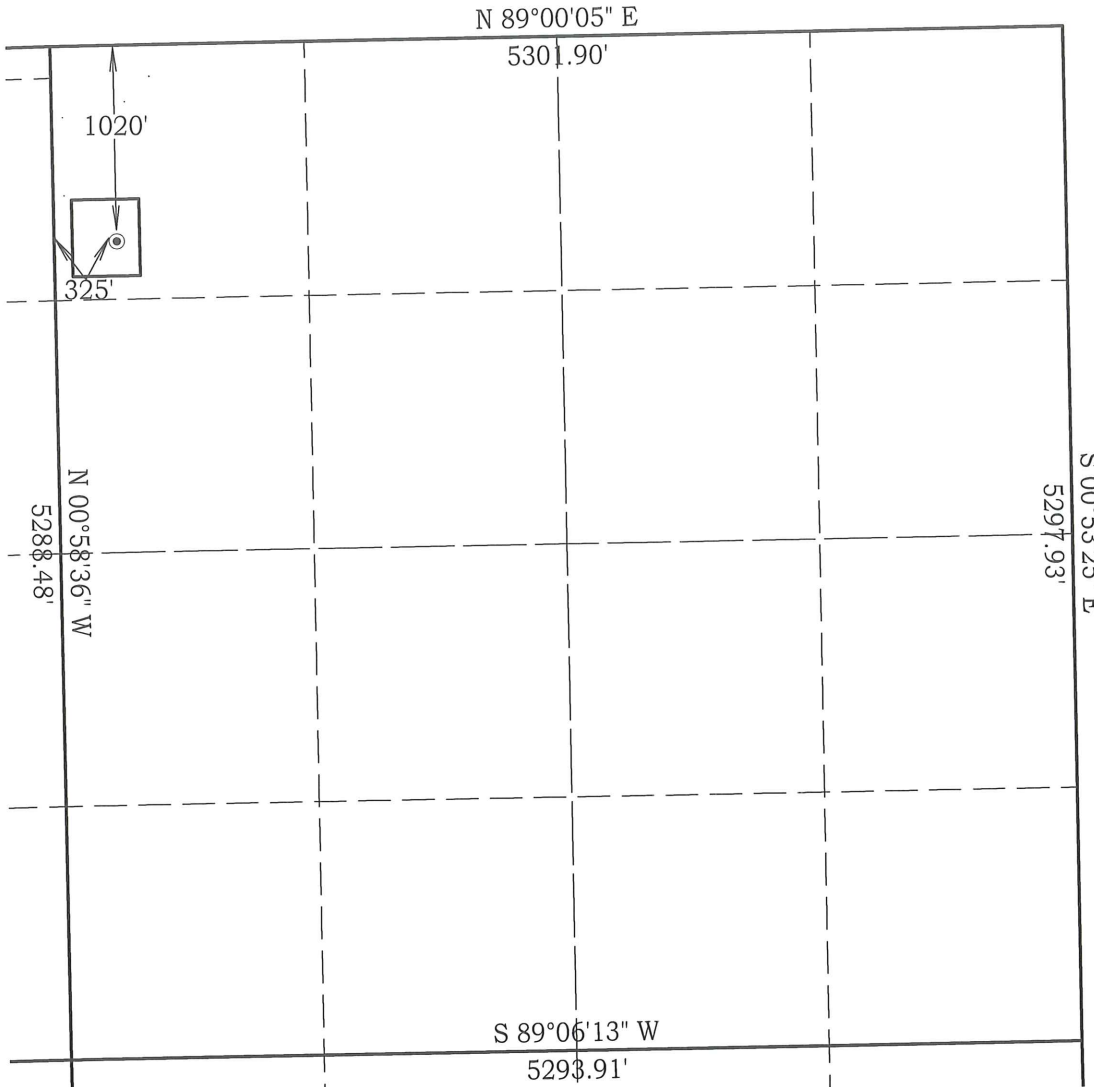
OKLAHOMA CORPORATION  
COMMISSION

SP

**Well Location Plat**  
**M & M Land Surveying, Inc.**  
**520 "E" Street NW. Ardmore, OK. 73401**  
**Office 580-226-0446 Mobile 580-221-4999**

063-24800

Company Name: Corterra Energy Operating, LLC. Lease Name: Mason 1015-1HX  
Section 10 Township 7 North Range 9 East County Hughes Oklahoma  
Surface Location 1020' FNL - 325' FWL Elevation 907' Good Location? Yes Topography  
Location fell in pasture  
±270' East of fence.



Pad Corner Elevations  
NE/C = 907'  
SE/C = 904'  
SW/C = 904'  
NW/C = 902'

NAD 27 OK SOUTH  
Surface Location  
Latitude: 35.098502°  
Longitude: 96.351969°  
Y = 646,402'  
X = 2,492,973'

NAD 83 OK SOUTH  
Surface Location  
Latitude: 35.098587°  
Longitude: 96.352256°  
Y = 646,450'  
X = 2,461,375'

Best Accessibility to Location  
From the West

Distance & Direction From From the Jct. of US 270 and US 270 BUS, go 0.8 miles East on US 270, then 1 mile North on NS374 Rd. to the Northwest corner of Section 10.  
Highway or Town \_\_\_\_\_

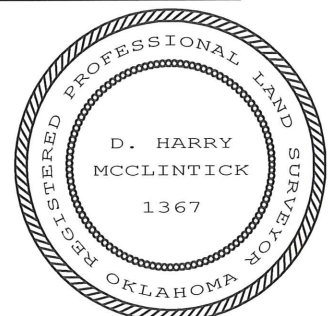
**CERTIFICATE:**

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.

D. Harry McClintick 12/5/17  
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.

The distances shown in parenthesis ( ) are calculated distances based on the quarter section being 2640' and have not been measured.



# Topography Plat

M & M Land Surveying, Inc.

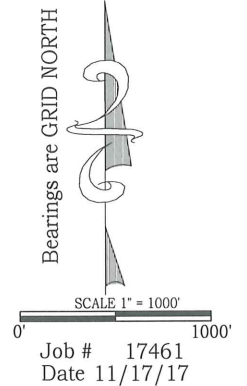
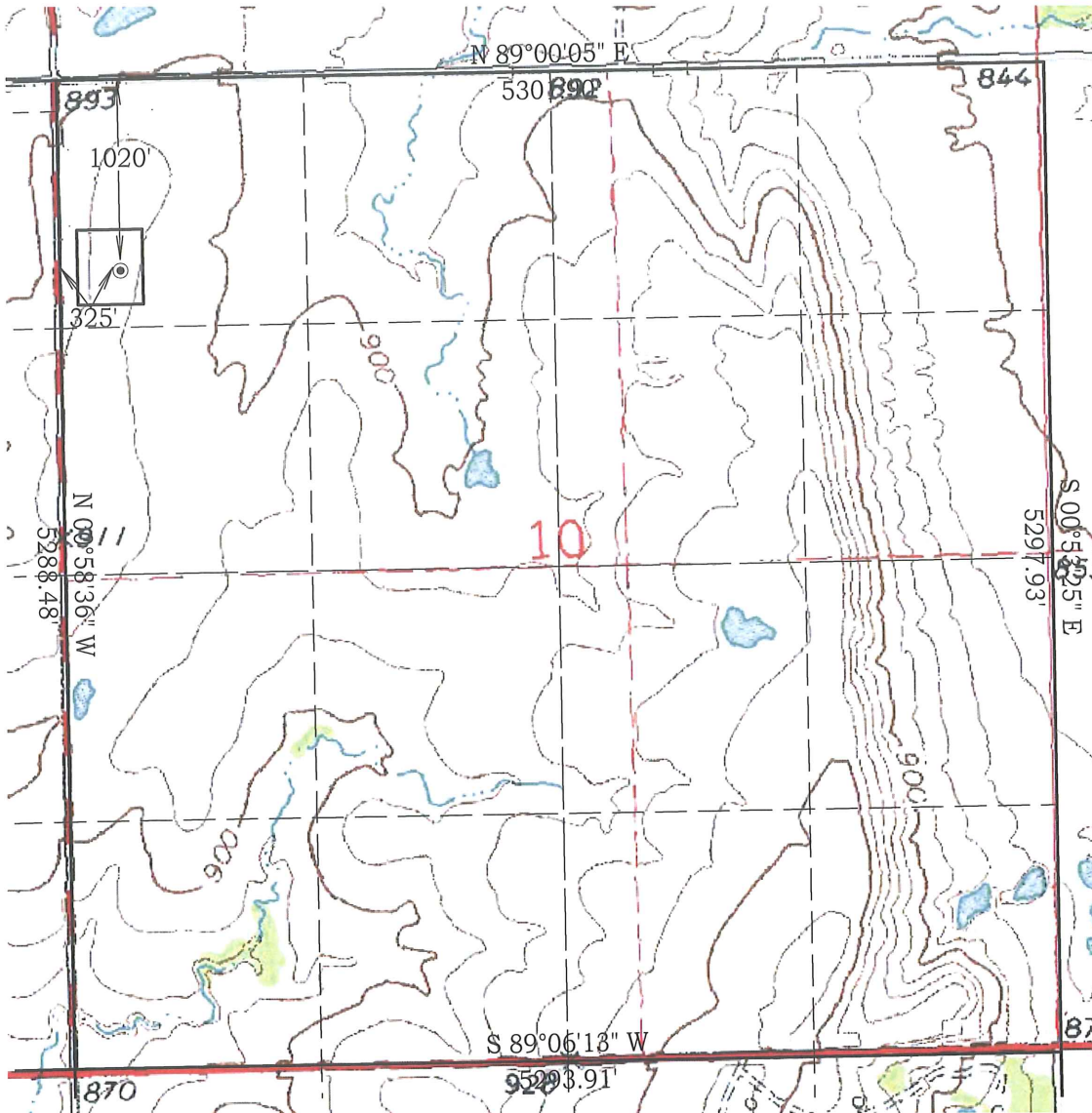
520 "E" Street NW. Ardmore, OK. 73401

Office 580-226-0446 Mobile 580-221-4999

Company Name: Corterra Energy Operating, LLC. Lease Name: Mason 1015-1HX

Section 10 Township 7 North Range 9 East County Hughes Oklahoma

Surface Location 1020' FNL - 325' FWL Elevation 907' Good Location? Yes Topography  
Location fell in pasture  
±270' East of fence.



Pad Corner Elevations  
NE/C = 907'  
SE/C = 904'  
SW/C = 904'  
NW/C = 902'

NAD 27 OK SOUTH  
Surface Location  
Latitude: 35.098502°  
Longitude: 96.351969°  
Y= 646,402'  
X = 2,492,973'

NAD 83 OK SOUTH  
Surface Location  
Latitude: 35.098587°  
Longitude: 96.352256°  
Y= 646,450'  
X = 2,461,375'

Best Accessibility to Location  
From the West

Distance & Direction From From the Jct. of US 270 and US 270 BUS, go 0.8 miles East on US 270, then 1 mile North on NS374 Rd. to the Northwest corner of Section 10.  
Highway or Town \_\_\_\_\_

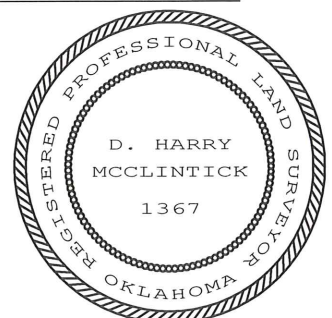
## CERTIFICATE:

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.

D. Harry McClintick 12/6/17  
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.

The distances shown in parenthesis ( ) are calculated distances based on the quarter section being 2640' and have not been measured.





Company Name: Corterra Energy Operating, LLC. Lease Name: Mason 1015-1HX  
Section 10 Township 7 North Range 9 East County Hughes Oklahoma  
Surface Location 1020' FNL - 325' FWL Elevation 907' Good Location? Yes



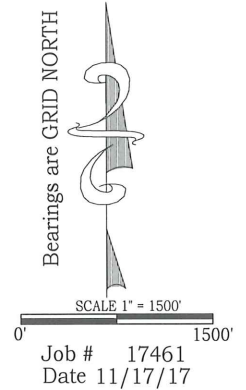
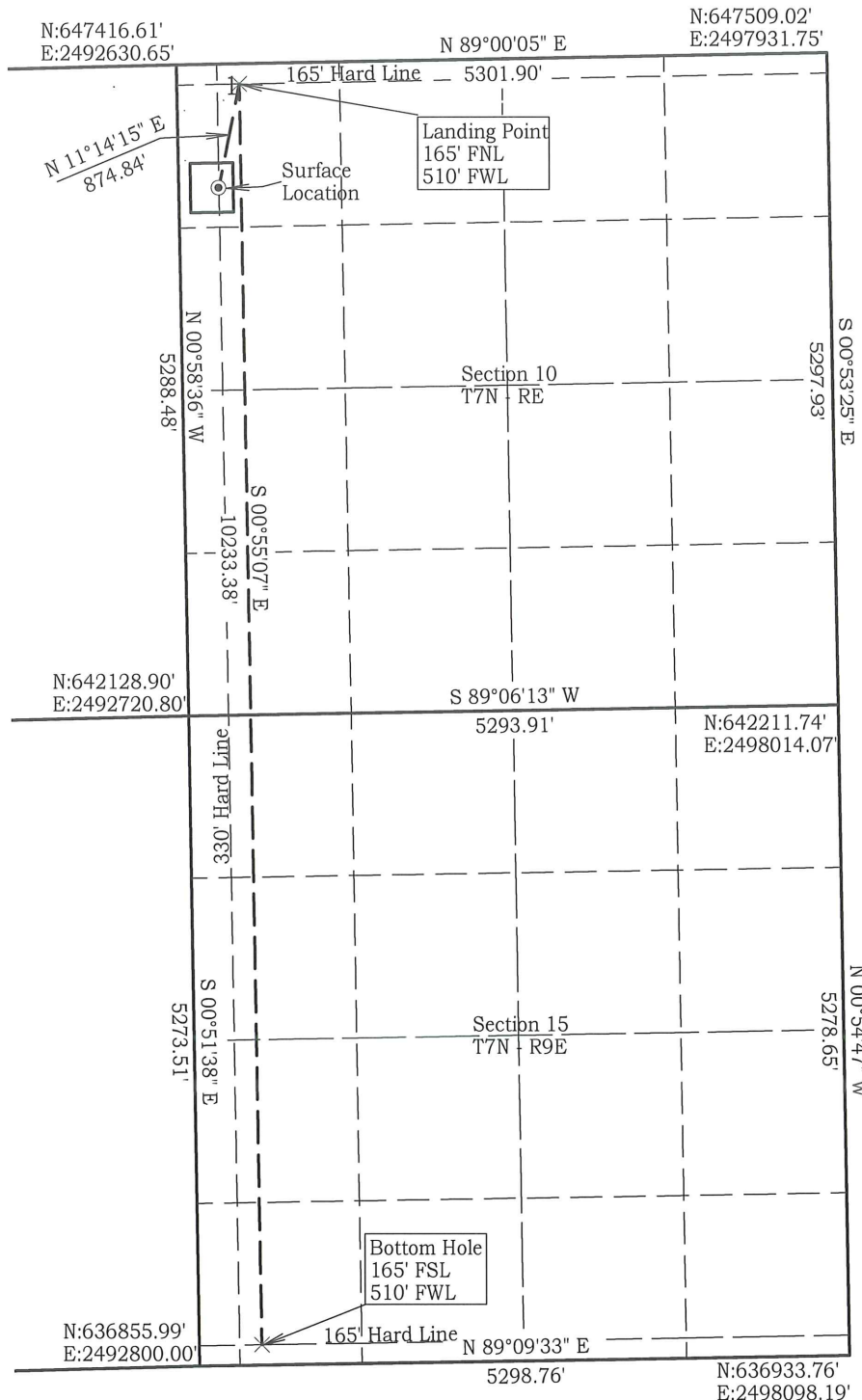
**Permit Plat**  
**M & M Land Surveying, Inc.**  
**520 "E" Street NW. Ardmore, OK. 73401**  
**Office 580-226-0446 Mobile 580-221-4999**

063-24800

Company Name: Corterra Energy Operating, LLC. Lease Name: Mason 1015-1HX  
Section 10 Township 7 North Range 9 East County Hughes Oklahoma

Surface Location 1020' FNL - 325' FWL Elevation 907'

**ALL SECTION CORNER COORDINATES ARE NAD 27**



Pad Corner Elevations  
NE/C = 907'  
SE/C = 904'  
SW/C = 904'  
NW/C = 902'

NAD 27 OK SOUTH  
Surface Location  
Latitude: 35.098502°  
Longitude: 96.351969°  
Y = 646,402'  
X = 2,492,973'  
Landing Point  
N = 647,261'  
E = 2,493,143'  
Bottom Hole  
N = 637,029'  
E = 2,493,307'

NAD 83 OK SOUTH  
Surface Location  
Latitude: 35.098587°  
Longitude: 96.352256°  
Y = 646,450'  
X = 2,461,375'  
Landing Point  
N = 647,308'  
E = 2,461,546'  
Bottom Hole  
N = 637,076'  
E = 2,461,710'

*D. Harry McClintick* 12/15/17

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.

