

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

API NUMBER: 073 26506

Approval Date: 03/21/2019

Expiration Date: 09/21/2020

Horizontal Hole  
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 218 287

Lease Name: EMMERICH 30-18-6

Well No: 5HC

Well will be 218 feet from nearest unit or lease boundary.

Operator  
Name: CHESAPEAKE OPERATING LLC

Telephone: 4059357539; 4059358

OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC  
PO BOX 18496  
OKLAHOMA CITY, OK 73154-0496

CHARLES EMMERICH  
29705 EAST 730 ROAD  
CRESCENT OK 73028

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

| Name     | Depth | Name | Depth |
|----------|-------|------|-------|
| 1 OSWEGO | 6450  | 6    |       |
| 2        |       | 7    |       |
| 3        |       | 8    |       |
| 4        |       | 9    |       |
| 5        |       | 10   |       |

Spacing Orders: 630825

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201901038  
201901123  
201901124  
201901125  
201901126  
201901127

Special Orders:

Total Depth: 14500

Ground Elevation: 1104

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 8000

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36324  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

# HORIZONTAL HOLE 1

Sec 19 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: NE NW NW SW

Feet From: SOUTH 1/4 Section Line: 2500

Feet From: WEST 1/4 Section Line: 650

Depth of Deviation: 6207

Radius of Turn: 542

Direction: 4

Total Length: 7442

Measured Total Depth: 14500

True Vertical Depth: 6568

End Point Location from Lease,  
Unit, or Property Line: 650

## Notes:

| Category               | Description   |
|------------------------|---|
| DEEP SURFACE CASING    | 3/11/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING  |
| HYDRAULIC FRACTURING   | 3/11/2019 - G71 - OCC 165:10-3-10 REQUIRES:<br><br>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;<br><br>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,<br><br>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> |
| PENDING CD - 201901038 | 3/21/2019 - G56 - (640)(HOR) 19-18N-6W<br>EXT 630825 OSWG, OTHER<br>COMPL INT NCT 660' FB<br>(COEXIST WITH SP # 62978 OSWG, # 198338 OSWG)<br>REC 3/11/2019 (THOMAS)  |
| PENDING CD - 201901123 | 3/21/2019 - G56 - (I.O.) 30 & 19-18N-6W<br>ESTABLISH MULTIUNIT HORIZONTAL WELL<br>X630825 OSWG 30-18N-6W<br>X201901038 OSWG 19-18N-6W<br>67% 30-18N-6W<br>33% 19-18N-6W<br>CHESAPEAKE OPERATING, LLC<br>REC 3/11/2019 (THOMAS)  |
| PENDING CD - 201901124 | 3/21/2019 - G56 - 30-18N-6W<br>X630825 OSWG<br>1 WELL<br>NO OP NAMED<br>REC 3/11/2019 (THOMAS)  |
| PENDING CD - 201901125 | 3/21/2019 - G56 - (I.O.) 30-18N-6W<br>X630825 OSWG<br>COMPL INT NCT 330' FSL, NCT 0' FNL, NCT 330' FWL<br>NO OP NAMED<br>REC 3/11/2019 (THOMAS)   |
| PENDING CD - 201901126 | 3/21/2019 - G56 - (I.O.) 30-18N-6W<br>X165:10-3-28(C)(2)(B) OSWG MAY BE CLOSER THAN 600' TO EMMERICH 30-18-6 1H WELL<br>NO OP NAMED<br>3/11/2019 (THOMAS)   |

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

073 26506 EMMERICH 30-18-6 5HC

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   |
|------------------------|---|
| PENDING CD - 201901127 | 3/21/2019 - G56 - (I.O.) 19-18N-6W<br>X201901038 OSWG<br>COMPL INT NCT 0' FSL, NCT 2640' FNL, NCT 330' FWL<br>NO OP NAMED<br>REC 3/11/2019 (THOMAS) |
| SPACING - 630825       | 3/21/2019 - G56 - (640)(HOR) 30-18N-6W<br>EST OSWG, OTHER<br>COMPL INT NCT 660' FB<br>(COEXIST WITH SP # 53420 OSWG)                                |

# CHESAPEAKE ENERGY

OPERATOR: CHESAPEAKE OPERATING, LLC

LEASE NAME: EMMERICH 30-18-6

WELL NO. 5HC

STAKED DATE: 12/13/18

GROUND ELEVATION: 1104.37 GR. AT STAKE

SURFACE HOLE FOOTAGE: 218' FSL - 287' FWL

SECTION: 30 TOWNSHIP: 18N RANGE: 6W

KINGFISHER COUNTY, STATE: OK

BOTTOM HOLE: 19-18N-6W-1M

BOTTOM HOLE FOOTAGE: 2500' FSL - 650' FWL

WAYPOINT FOOTAGE: 715' FSL - 360' FWL

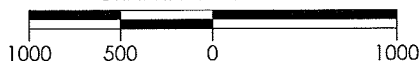
LANDING POINT FOOTAGE: 330' FSL - 360' FWL

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION: LOCATION FELL ON THE SOUTH EDGE OF A FIELD.

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: FROM THE TOWN OF DOVER, GO N. 1.25 MILES TO E0700 CR. GO E. 1.1 MI. PAD IS ON N. SIDE OF ROAD.

GRAPHIC SCALE IN FEET



## SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2032925.9

Y: 364493.2

GPS DATUM: NAD27

LAT: 36.00128297

LONG: -97.88868829

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 2001326.7

Y: 364517.2

GPS DATUM: NAD83

LAT: 36.00132274

LONG: -97.88902102

## BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2033240.0

Y: 372051.5

GPS DATUM: NAD27

LAT: 36.02204574

LONG: -97.88759680

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 2001640.7

Y: 372075.5

GPS DATUM: NAD83

LAT: 36.02208514

LONG: -97.88792995

## WAYPOINT DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2033240.0

Y: 370269.0

GPS DATUM: NAD27

LAT: 36.01714991

LONG: -97.88759680

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 2001363.9

Y: 370293.0

GPS DATUM: NAD83

LAT: 36.02208514

LONG: -97.88792995

## LANDING POINT DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 2032998.4

Y: 364604.5

GPS DATUM: NAD27

LAT: 36.00158840

LONG: -97.88844295

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 2001399.1

Y: 364628.4

GPS DATUM: NAD83

LAT: 36.00162820

LONG: -97.88877594

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED. GPS DATA IS OBSERVED FROM RTK-GPS. NOTE: X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED.

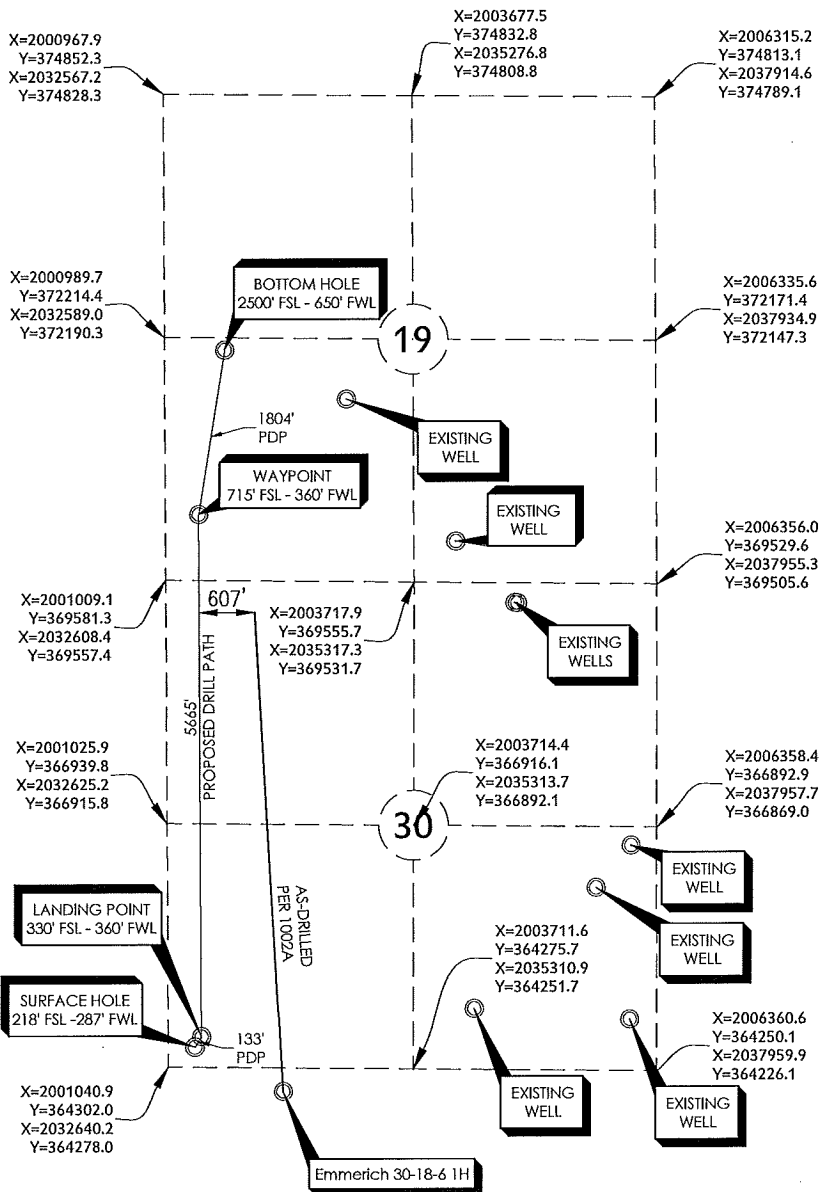
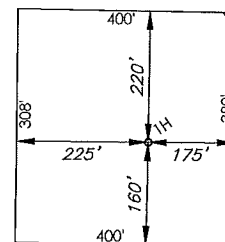
CERTIFICATION:  
THIS IS TO CERTIFY THAT THIS WELL LOCATION EXHIBIT WAS COMPILED AND PREPARED UNDER MY SUPERVISION.

Date: 2019.02.20 09:46:28-06'00'

*[Signature]*  
DENVER WINCHESTER PLS 1952



PAD DIAGRAM (NOT TO SCALE)



## EMMERICH 30-18-6 5HC

REVISION DATE:

R1 12.14.18

R2 2.20.19

PART OF THE SW/4 OF  
SECTION 30, 18N, 6W  
WELL LOCATION EXHIBIT  
KINGFISHER COUNTY, OKLAHOMA

SCALE: 1" = 1000'  
PLOT DATE: 02-20-2019

DRAWING: 17601132-WELL-P  
DRAWN BY: JJ

SHEET NO.: 2 OF 3

300 Pointe Parkway Blvd  
Yukon, OK 73099  
405.787.6270 t 405.787.6276 f  
www.craftontull.com  
**Crafton Tull**  
SURVEYING  
CERTIFICATE OF AUTHORIZATION:  
CA 973 (PE/LS) EXPIRES 6/30/2020