

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

API NUMBER: 011 23974

Approval Date: 03/28/2018
Expiration Date: 09/28/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 14N Rge: 11W County: BLAINE
SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 239 205

Lease Name: MAD DOG 31_30-14N-11W Well No: 1HX Well will be 205 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5010

WILLIAM J. REED REVOCABLE TRUST
PO BOX 1
GEARY OK 73040

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	11763	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 595495

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201801776
201801774
201801777

Special Orders:

Total Depth: 23115

Ground Elevation: 1656

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 130

Under Federal Jurisdiction: Yes

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: 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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34120
H. SEE MEMO

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: 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 30 Twp 14N Rge 11W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 12034

Radius of Turn: 478

Direction: 359

Total Length: 10331

Measured Total Depth: 23115

True Vertical Depth: 13062

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

3/12/2018 - 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

3/12/2018 - 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

MEMO

3/12/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201801774

3/28/2018 - G58 - (640)(HOR) 31-14N-11W
VAC 571113 MSSP
EST MSSP
COMPL. INT. NCT 660' FB
REC 3/27/2018 (M. PORTER)

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.

Category	Description
PENDING CD - 201801776	3/28/2018 - G58 - (I.O.) 31 & 30-14N-11W EST MULTIUNIT HORIZONTAL WELL X595495 MSSP, OTHER (30-14N-11W) X201501774 MSSP, XOTHER (31-14N-11W) 50% 30-14N-11W 50% 31-14N-11W NO OP. NAMED REC 3/27/2018 (M. PORTER)
PENDING CD - 201801777	3/28/2018 - G58 - (I.O.) 31 & 30-14N-11W X595495 MSSP, OTHER (30-14N-11W) X201501774 MSSP, XOTHER (31-14N-11W) COMPL. INT. (31-14N-11W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (30-14N-11W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL NO OP. NAMED REC 3/27/2018 (M. PORTER)
SPACING - 595495	3/28/2018 - G58 - (640) 30-14N-11W EXT 584259 MSSP, OTHERS

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.



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.
LEASE NAME: MAD DOG 31_30-14N-11W
WELL NO.: 1HX
GOOD DRILL SITE: YES
BLAINE COUNTY, STATE: OK
GROUND ELEVATION: 1655.85 GR. AT STAKE
SURFACE HOLE FOOTAGE: 239' FSL - 205' FEL
SECTION: 31 **TOWNSHIP:** 14N **RANGE:** 11W
BOTTOM HOLE: 30-14N-11W.I.M.
DISTANCE TO NEAREST WELL: 7085'
MUSE 1-31H API#3501123285

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE
TOPOGRAPHY & VEGETATION: LOCATION FELL IN THE CORNER OF A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: 5.0MI± W OF GEARY FROM THE TOWN OF GEARY HEAD NORTH ON US-281 0.5MI± TO E950RD. HEAD WEST 4.8MI± TO INTER. OF E950RD & N2560RD, PAD SITE IS ON THE NW CORNER.

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.

GRAPHIC SCALE IN FEET



SURFACE HOLE DATA

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1880488.9
Y: 232849.3
GPS DATUM: NAD27
LAT: 35.63900073
LONG: -98.40218207
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1848889.4
Y: 232873.6
GPS DATUM: NAD83
LAT: 35.63904922
LONG: -98.40252450

BOTTOM HOLE DATA

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1880357.4
Y: 243106.9
GPS DATUM: NAD27
LAT: 35.66717909
LONG: -98.40276782
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1848757.7
Y: 243131.2
GPS DATUM: NAD83
LAT: 35.66722687
LONG: -98.40311306

FIRST PERFORATION DATA

STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1880313.1
Y: 232776.3
GPS DATUM: NAD27
LAT: 35.63879808
LONG: -98.40277237
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1848713.7
Y: 232800.5
GPS DATUM: NAD83
LAT: 35.63884558
LONG: -98.40311681

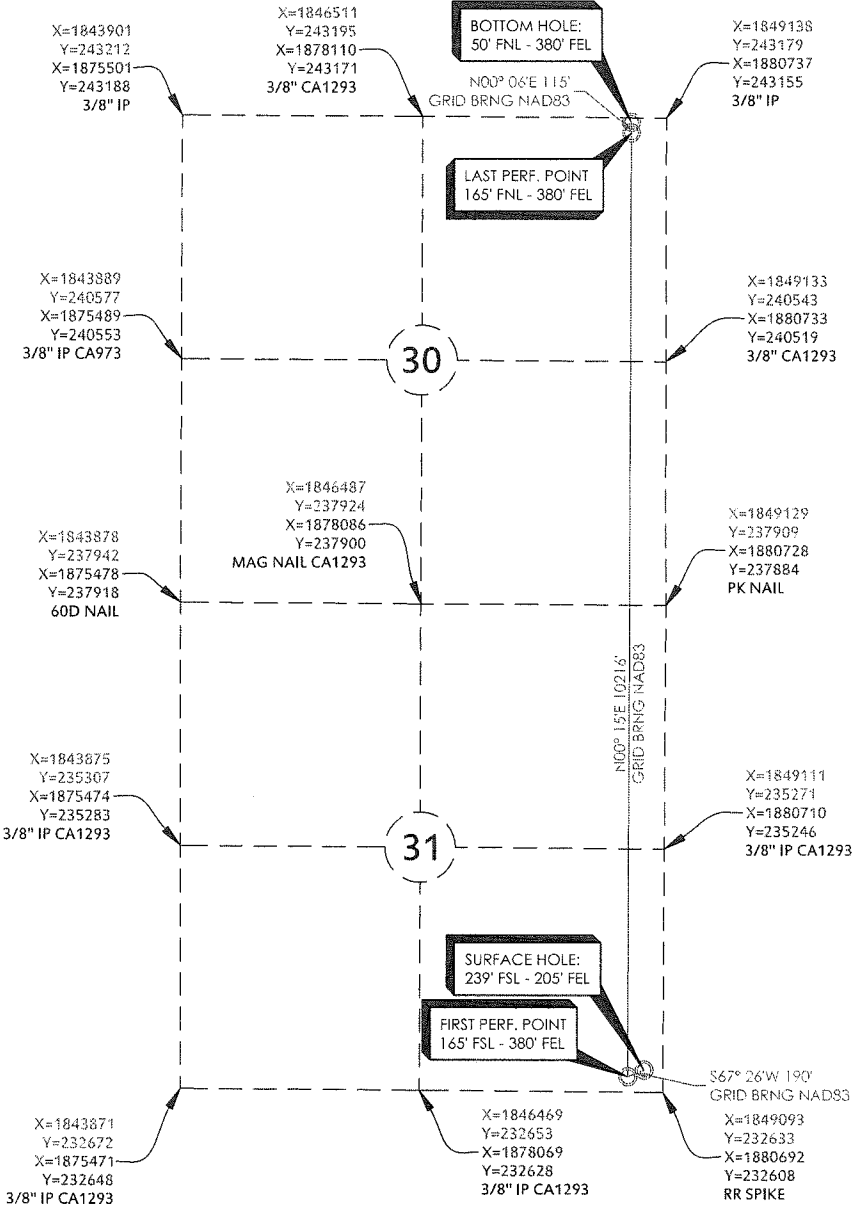
BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.

BASIS OF ELEVATION:
 TOPO ELEVATION = 1653.19'
 AT E/4, SECTION 31, 14N-11W
 TOPO ELEVATION = 1653.59'
 AT SE COR, SECTION 31, 14N-11W
 TOPO ELEVATION = 1643.45'
 AT S/4, SECTION 31, 14N-11W

CERTIFICATION:
 THIS IS TO CERTIFY THAT THIS WELL LOCATION EXHIBIT WAS COMPILED AND PREPARED UNDER MY SUPERVISION.
 Date: 2017.08.31 06:50:11-0500'

DENVER WINCHESTER PLS 1952

BASIS OF BEARING:
 GRID NORTH (NAD 83)
 OKLAHOMA - NORTH ZONE



MAD DOG 31_30-14N-11W 1HX
 PART OF THE SE/4 OF SECTION 31, 14N, 11W
 WELL LOCATION EXHIBIT
 BLAINE COUNTY, OKLAHOMA

300 Pointe Parkway Blvd
 Yukon, OK 73099
 405.787.6270 | 405.787.6276 f
 www.craftontull.com
Crafton Tull
 SURVEYING
 CERTIFICATE OF AUTHORIZATION:
 CA 973 (PE/LS) EXPIRES 6/30/2018

SCALE: 1" = 2000'
 DRAWING: 16601798-WELL
 PLOT DATE: 08-31-2017
 DRAWN BY: SQ
 SHEET NO.: 1 OF 2