

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

API NUMBER: 011 24127

Approval Date: 11/20/2018

Expiration Date: 05/20/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 15N Rge: 10W County: BLAINE
SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 295 1385

Lease Name: CENTAUR 7_6-15N-10W Well No: 4HX Well will be 295 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 73102-5015

DENNIS E AND VIRGINIA LEE EDSALL
ROUTE 2 BOX 86
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10845	6	
2	WOODFORD	11415	7	
3			8	
4			9	
5			10	

Spacing Orders: 664198

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807061
201807016
201807063
201807018
201807017

Special Orders:

Total Depth: 20963 Ground Elevation: 1528 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 90

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: 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: 18-35581
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 06 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2226

Depth of Deviation: 10527

Radius of Turn: 477

Direction: 356

Total Length: 9686

Measured Total Depth: 20963

True Vertical Depth: 11415

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

Notes:

Category

Description

DEEP SURFACE CASING

11/9/2018 - GA8 - 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

11/9/2018 - GA8 - 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

INTERMEDIATE CASING

11/9/2018 - GA8 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

11/9/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

011 24127 CENTAUR 7_6-15N-10W 4HX

Category	Description
PENDING CD - 201807016	11/20/2018 - G58 - (E.O.)(640)(HOR) 7-15N-10W EXT 643729 MSSP, WDFD POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
PENDING CD - 201807017	11/20/2018 - G58 - 6-15N-10W X664198 MSSP, WDFD 4 WELLS NO OP. NAMED REC 11/7/2018 (THOMAS)
PENDING CD - 201807018	11/20/2018 - G58 - 7-15N-10W X201807016 MSSP, WDFD 3 WELLS NO OP. NAMED REC 11/7/2018 (THOMAS)
PENDING CD - 201807061	11/20/2018 - G58 - (E.O.) 6 & 7-15N-10W EST MULTIUNIT HORIZONTAL WELL X664198 MSSP, WDFD 6-15N-10W X201807016 MSSP, WDFD 7-15N-10W (WDFD IS ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 6-15N-10W 50% 7-15N-10W NO OP. NAMED REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
PENDING CD - 201807063	11/20/2018 - G58 - (E.O.) 6 & 7-15N-10W X664198 MSSP, WDFD 6-15N-10W X201807016 MSSP, WDFD 7-15N-10W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. 7-15N-10W NCT 165' FSL, NCT 0' FNL, NCT 1320' FEL COMPL. INT. 6-15N-10W NCT 0' FSL, NCT 165' FNL, NCT 1320' FEL NO OP. NAMED REC 11/8/2018 (THOMAS) AFFIRMED BY MACGUIGAN 11/19/2018
SPACING - 664198	11/20/2018 - G58 - (640)(HOR) 6-15N-10W EXT 640263 MSSP, WDFD POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

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.



300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 f 405.787.6276 f
www.craftontull.com
Crafton Tull
SURVEYING CA9731PE/LS exp. 6/30/20



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: CENTAUR 7_6-15N-10W

WELL NO. 4HX

GOOD DRILL SITE: YES

BLAINE COUNTY, STATE: OK

GROUND ELEVATION: 1528.00' GR. AT STAKE

SURFACE HOLE FOOTAGE: 1385' FEL - 295' FSL

SECTION: 7 **TOWNSHIP:** 15N **RANGE:** 10W

BOTTOM HOLE: 6-T15N-R10W I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

FROM INTERSECTION HWY 3 AND HWY 281 IN WATONGA,

EAST ON HWY 3 4 MILES, SOUTH ON N2610 RD 4 MILES,

EAST ON E0850 RD 2.75 MILES, PAD ON NORTH SIDE OF RD

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.

QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR ASSUMED AT A PROPORTIONATE DISTANCE FROM OPPOSING SECTION CORNERS, OR

OCCUPATION THEREOF, AND MAY NOT HAVE BEEN MEASURED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

BLAINE COUNTY, OKLAHOMA

1385' FEL - 295' FSL SECTION 7 TOWNSHIP 15N RANGE 10W I.M.

SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1910866.6

Y: 285541.3

GPS DATUM: NAD27

LAT: 35.78405879

LONG: -98.30050375

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1879266.7

Y: 285565.2

GPS DATUM: NAD83

LAT: 35.78410288

LONG: -98.30084780

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1910176.6

Y: 295681.7

GPS DATUM: NAD27

LAT: 35.81191088

LONG: -98.30293665

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1879266.5

Y: 285535.2

GPS DATUM: NAD83

LAT: 35.78402045

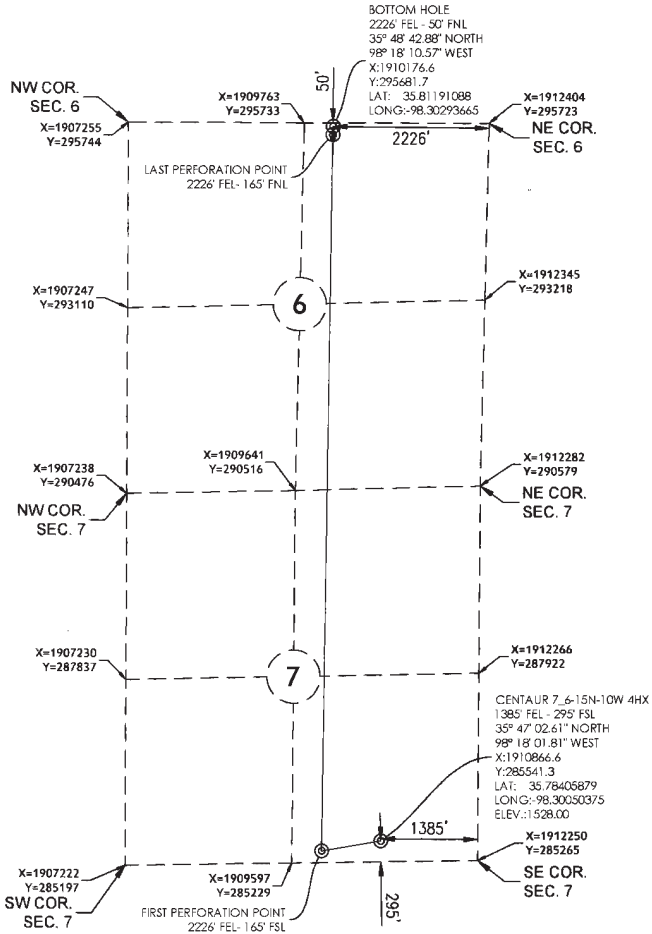
LONG: -98.30084810

BOTTOM HOLE

INFORMATION PROVIDED

BY OPERATOR LISTED.

Date: 2018-10-15 20:16:32-05'00'



GRAPHIC SCALE IN FEET



REVISION		"CENTAUR 7_6-15N-10W 4HX"	
R1	WELL LOCATION	PART OF THE SE/4 OF SECTION 7, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA	
SCALE: 1" = 2000'		PLOT DATE: 10-15-2018	DRAWN BY: JJ SHEET NO.: 1 OF 6

devon