## API NUMBER: 073 26553 Α

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

Approval Date: 04/26/2019 10/26/2020 **Expiration Date** 

Multi Unit

Sp

Horizontal Hole Oil & Gas

Amend reason: BHL CHANGE, MOVE LATERAL LOCATION, UPDATE ORDERS

## AMEND PERMIT TO DRILL

WELL LOCATION:	Sec:	10	Twp:	15N	Rge:	9W	County:	KING	FISHER	
SPOT LOCATION:	NE	SW	SV	٧	SE		FEET FROM QUARTER:	FROM	SOUTH	FROM
							SECTION LINES:		340	

Lease Name: MCCARTHY 10\_3-15N-9W Well No: 4HX Well will be 340 feet from nearest unit or lease boundary.

Operator

**DEVON ENERGY PRODUCTION CO LP** 

Telephone: 4052353611; 4052353

EAST 2152

> OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP 333 W SHERIDAN AVE

OKLAHOMA CITY. OK 73102-5015 LOIS JEAN MCCARTHY 115 PROVIDENCE ROAD

LAWRENCE KS 66049

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

	Name	Depth	Name	Dep	oth
1	MISSISSIPPIAN (LESS CHESTER)	9147	6		
2	WOODFORD	10091	7		
3			8		
4			9		
5			10		
Spacing Orders:	659640	Location Exception Orders:		Increased Density Orders:	694267
	696945				694266

Pending CD Numbers: Special Orders:

Total Depth: 19660 Depth to base of Treatable Water-Bearing FM: 410 Ground Elevation: 1168 Surface Casing: 1999

Under Federal Jurisdiction: Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED Chlorides Max: 5000 Average: 3000

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?

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: CHICKASHA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36444

H. SEE MEMO

## 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 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: CHICKASHA

## **HORIZONTAL HOLE 1**

Sec 03 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: NW NE NE NW
Feet From: NORTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 2000

Depth of Deviation: 8585 Radius of Turn: 478 Direction: 354

Total Length: 10324

Measured Total Depth: 19660
True Vertical Depth: 10091
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category Description

DEEP SURFACE CASING 7/1/2019 - 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 7/1/2019 - 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

INCREASED DENSITY - 694266 7/1/2019 - GA8 - 3-15N-9W

X659640 MSNLC

4 WELLS

DEVON ENERGY PROD. CO., L.P.

4/8/2019

INCREASED DENSITY - 694267 7/1/2019 - GA8 - 10-15N-9W

X659640 MSNLC

4 WELLS

DEVON ENERGY PROD. CO., L.P.

4/8/2019

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.

073 26553 MCCARTHY 10\_3-15N-9W 4HX

Category Description

INTERMEDIATE CASING 7/1/2019 - G71 - 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 7/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201901007 7/1/2019 - GA8 - (I.O.) 10 & 3-15N-9W

X659640 MSNLC, WDFD 10 & 3-15N-9W

X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO MCCARTHY 10\_3-15N-9W 2HX &

CAMERON 1-10

COMPL. INT. (10-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 990' FWL COMPL. INT. (3-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 990' FWL

DEVON ENERGY PROD. CO., L.P.

REC 3/12/2019 (MILLER)

SPACING - 659640 7/1/2019 - GA8 - (640)(HOR) 10 & 3-15N-9W

EXT 652808 WDFD EST MSNLC

POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

POE TO BHL (MSNLC) NCT 660' FB (COEXIST SP. ORDER #308002 MSSD)

SPACING - 696945 7/1/2019 - GA8 - (I.O.) 10 & 3-15N-9W

EST MULTIUNIT HORIZONTAL WELL X659640 MSNLC, WDFD 10 & 3-15N-9W

(WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC)

50% 10-15N-9W 50% 3-15N-9W

DEVON ENERGY PROD. CO., L.P.

5/31/2019

300 Pointe Parkway Blvd. Yukon, OK 73099 405.787.6270 † 405.787.6276 f www.craftontull.com Crafton Tull Ν

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: MCCARTHY 10\_3-15N-9W

WELL NO. 4HX

**GOOD DRILL SITE:**YES

KINGFISHER COUNTY, STATE:OK

**GROUND ELEVATION:**1168.73' GR. AT STAKE SURFACE HOLE FOOTAGE: 2152' FEL - 340' FSL

SECTION: 10 TOWNSHIP: T15N RANGE: R9W

BOTTOM HOLE: 3-T15N-R9W,I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

**TOPOGRAPHY & VEGETATION:** 

LOCATION FELL IN A FIELD

**DISTANCE & DIRECTION FROM HWY JCT OR TOWN:** 

at the JCT. Of Oklahoma ave & main St (E0890 RD) in OKARCHE, GO W ON E0890 RD 8 MI TO N2740 RD. GO N 4 MI TO E0850 RD. GO W 1.4 MI. PAD IS ON N 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 PROMPILY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RIK-GPS.

ONDIE: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.

COUNTY, OKLAHOMA <u>KINGFISHER</u> 2152' FEL - 340' FSL SECTION 10 TOWNSHIP 15N RANGE 9W I.M.

**BOTTOM HOLE** 

073-26553A

**SURFACE HOLE DATA STATE PLANE COORDINATES:** 

**ZONE:** OK-NORTH NAD27 **X:** 1957507.2

**OKLAHOMA - NORTH ZONE** 

<del>- + -</del>

27)

GRID NORTH (NAD

Y: 285480.5 GPS DATUM: NAD27 **LAT:** 35.78418470 LONG: -98.14325989

**STATE PLANE COORDINATES: ZONE:** OK-NORTH NAI **X**: 19

GPS DATUM: NAD83 **LAT:** <u>35.78422870</u> **LONG**: -98.14359739

**BOTTOM HOLE DATA** STATE PLANE COORDINATES: ZONE: OK-NORTH NAD27

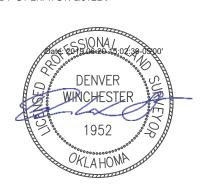
**X**: 1956490.7 **Y**: 295627.7

**GPS DATUM: NAD27 LAT:** 35.81205724 LONG: <u>-98.14673872</u>

**STATE PLANE COORDINATES: ZONE: OK-NORTH NAD83** X:1924891.4

**Y**: 295651.4 GPS DATUM: NAD83 LAT: 35.81210048 LONG: <u>-98.14707709</u>

**BOTTOM HOLE** INFORMATION PROVIDED BY OPERATOR LISTED.



2000' FWL - 50' FNL 35° 48' 43.41" NORTH 98° 08' 48.26" WEST X:1956490.7 Y:295627.7 LAT: 35.81205724 LONG:-98.14673872 50 X=1957122 NW COR NE COR. Y=295678 SEC. 3 SEC. 3 X=1954491 (=1959753 2000 Y=295681 LAST PERFORATION POINT 2000' FWL - 165' FNL 3 X=1954464 X=1959716 Y=293062 Y=293059 X=1957058 X=1954438 Y=290417 NE COR. Y=290418 NW COR. SEC. 10 SEC. 10 Y=287775 10 FIRST PERFORATION POINT 2000' FWL- 165' FSL 2152 X=1954422 Y=285132 X=1959658 SF COR SW COR. X=1957040 SFC 10 SEC. 10 340 MCCARTHY 10\_3-15N-9W 4HX 2152' FEL - 340' FSL 35° 47' 03.06" NORTH 98° 08' 35.74" WEST X:1957507.2 Y:285480.5 LAT: 35.78418470 LONG:-98.14325989 ELEV:1168.73

> GRAPHIC SCALE IN FEET 500 Ó 1000 1000

	REVISION	"MCG	_		
R1	BHL LOCATION	PART OF THE KINGF	devon		
		SCALE: 1" = 1000' PLOT DATE: 06-19-2019	DRAWN BY:	JJ SHEET NO.:	1 OF 6