

API NUMBER: 073 26553 B

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
Expiration Date: 10/26/2020

Multi Unit Oil & Gas

Amend reason: UPDATE LE & MU

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 10 Township: 15N Range: 9W County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SW ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 340 2152

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

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353611; 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	Code	Depth
1	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	9147
2	WOODFORD	319WDFD	10091

Spacing Orders: 659640
696946

Location Exception Orders: 701158

Increased Density Orders: 694267
694266

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 19660 Ground Elevation: 1168

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 410

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

Approved Method for disposal of Drilling Fluids:

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

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? 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

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

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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.

MULTI UNIT HOLE 1				
Section: 3	Township: 15N	Range: 9W	Total Length: 10324	
County: KINGFISHER			Measured Total Depth: 19660	
Spot Location of End Point: NW	NE	NE	NW	True Vertical Depth: 10091
Feet From: NORTH	1/4 Section Line: 50		End Point Location from	
Feet From: WEST	1/4 Section Line: 2000		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: OCCWEB.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	3/25/2020 - G56 - 3-15N-9W X659640 MSNLC 4 WELLS DEVON ENERGY PROD. CO., L.P. 4/8/2019
INCREASED DENSITY - 694267	3/25/2020 - G56 - 10-15N-9W X659640 MSNLC 4 WELLS DEVON ENERGY PROD. CO., L.P. 4/8/2019
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
LOCATION EXCEPTION - 701158	3/25/2020 - G56 - (I.O.) 3 & 10-15N-9W X659640 MSNLC, WDFD COMPL INT (10-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 1320' FWL COMPL INT (3-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL DEVON ENERGY PRODUCTION CO., L.P. 8/22/2019
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
SPACING - 659640	3/25/2020 - G56 - (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 - 696946	3/25/2020 - G56 - (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