

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

API NUMBER: 073 26555

Approval Date: 04/26/2019

Expiration Date: 10/26/2020

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 15N Rge: 9W County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 340 2092

Lease Name: MCCARTHY 10_3-15N-9W Well No: 6HX Well will be 340 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

LOIS JEAN MCCARTHY
115 PROVIDENCE ROAD
LAWRENCE KS 66049

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	9112	6	
2	WOODFORD	10061	7	
3			8	
4			9	
5			10	

Spacing Orders: 659640

Location Exception Orders:

Increased Density Orders: 694267

694266

Pending CD Numbers: 201901010
201901011

Special Orders:

Total Depth: 19593

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

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: 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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36444

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 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 NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1699

Depth of Deviation: 8789

Radius of Turn: 477

Direction: 5

Total Length: 10055

Measured Total Depth: 19593

True Vertical Depth: 10061

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

Notes:

Category

Description

DEEP SURFACE CASING

4/23/2019 - 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

4/23/2019 - 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

4/23/2019 - GA8 - 3-15N-9W
X659640 MSNLC
4 WELLS
DEVON ENERGY PROD. CO., L.P.
4/8/2019

INCREASED DENSITY - 694267

4/23/2019 - 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.

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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 26555 MCCARTHY 10_3-15N-9W 6HX

Category	Description
INTERMEDIATE CASING	4/23/2019 - 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	4/23/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201901010	4/23/2019 - 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. REC 3/12/2019 (MILLER)
PENDING CD - 201901011	4/23/2019 - GA8 - (I.O.) 10 & 3-15N-9W X659640 MSNLC, WDFD 10 & 3-15N-9W COMPL. INT. (10-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 990' FEL COMPL. INT. (3-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 990' FEL DEVON ENERGY PROD. CO., L.P. REC 3/12/2019 (MILLER)
SPACING - 659640	4/23/2019 - 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)