

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

API NUMBER: 011 24121

Approval Date: 11/07/2018

Expiration Date: 05/07/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 15N Rge: 10W County: BLAINE  
SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 270 405

Lease Name: CHARMA 12\_1-15N-11W Well No: 5HX Well will be 270 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

THE LIFE ESTATE OF KAREN RING  
1209 CANTEBURY DRIVE  
YUKON OK 73099

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	10428	6	
2	MISSISSIPPI LIME	10906	7	
3			8	
4			9	
5			10	

Spacing Orders: 588202  
660423

Location Exception Orders:

Increased Density Orders: 201807571  
201807572

Pending CD Numbers: 201807579  
201807580

Special Orders:

Total Depth: 21236 Ground Elevation: 1525 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 80

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: 18-35580  
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 01 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1140

Depth of Deviation: 10615

Radius of Turn: 477

Direction: 352

Total Length: 9871

Measured Total Depth: 21236

True Vertical Depth: 11508

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

10/31/2018 - 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

10/31/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### INCREASED DENSITY - 201807571

11/7/2018 - G56 - 12-15N-11W  
X588202 MSSLM  
4 WELLS  
DEVON ENERGY PROD. CO., L.P.  
REC 10/15/2018 (M PORTER)

#### INTERMEDIATE CASING

10/31/2018 - 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

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 24121 CHARMA 12\_1-15N-11W 5HX

Category	Description
MEMO	10/31/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201807579	11/7/2018 - G56 - (I.O.) 12 & 1-15N-11W ESTABLISH MULTIUNIT HORIZONTAL WELL X588202 MSSLM, OTHERS X660423 MSNLC, OTHERS 50% 12-15N-11W 50% 1-15N-11W DEVON ENERGY PROD. CO., L.P. REC 10/15/2018 (M PORTER)
PENDING CD - 201807580	11/7/2018 - G56 - (I.O.) 12 & 1-15N-11W X588202 MSSLM, OTHERS X660423 MSNLC, OTHERS X165:10-3-28(C)(2)(B) MSSLM MAY BE CLOSER THAN 600' FROM THE SUNDOWN 12-4AH AND/OR PROPOSED WELLS COMPL INT (12-15N-11W) NCT 165' FSL, NCT 0' FNL, NCT 660' FEL COMPL INT (1-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 660' FEL DEVON ENERGY PROD. CO., L.P. REC 10/15/2018 (M PORTER)
SPACING - 588202	11/7/2018 - G56 - (640) 12-15N-11W EXT 581931 MSSLM, OTHERS
SPACING - 660423	11/7/2018 - G56 - (640)(HOR) 1-15N-11W EXT 652593 MSNLC, OTHERS COMPL INT NCT 660' FB MSNLC (COEXIST WITH NON HOR SP UNITS)

