

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

API NUMBER: 011 23775 A

Approval Date: 03/29/2017
Expiration Date: 03/29/2018

Horizontal Hole Oil & Gas

Amend reason: CORRECT SHL; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 15N Rge: 12W County: BLAINE
SPOT LOCATION: SW SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 290 240

Lease Name: WILLOW 12_1-15N-12W Well No: 1HX Well will be 240 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 73102-5010

JERRY D. & TIMOTHY C. PIERCE, CO-TTEES JRP IRR TRUST
P.O. BOX 754
WATONGA OK 73764

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10393	6	
2	MISSISSIPPIAN (EX CHESTER)	11490	7	
3			8	
4			9	
5			10	

Spacing Orders: 585936 Location Exception Orders: 663407 Increased Density Orders:
586793
663962

Pending CD Numbers: Special Orders:

Total Depth: 21602 Ground Elevation: 1539 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 80

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

PIT 1 INFORMATION

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 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: DOG CREEK

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32268

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: DOG CREEK

HORIZONTAL HOLE 1

Sec 01 Twp 15N Rge 12W County BLAINE

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 11100

Radius of Turn: 477

Direction: 1

Total Length: 9753

Measured Total Depth: 21602

True Vertical Depth: 12125

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

Notes:

Category

Description

DEEP SURFACE CASING

3/8/2017 - 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

3/8/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

3/8/2017 - 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 - 663407

12/29/2017 - G60 - (I.O.) 12 & 1-15N-12W
X585936 MSSP 12-15N-12W
X586793 MSNLC 1-15N-12W
COMPL. INT. (12-15N-12W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL
COMPL. INT. (1-15N-12W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL
NO OP. NAMED
5/3/17

MEMO

3/8/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 585936

3/14/2017 - G64 - (640) 12-15N-12W
VAC 197496 CSTR
EXT 574743 MSSP, OTHERS

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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 23775 WILLOW 12_1-15N-12W 1HX

Category	Description
SPACING - 586793	3/14/2017 - G64 - (640) 1-15N-12W EST MSNLC EXT OTHER
SPACING - 663962	12/29/2017 - G60 - (I.O.) 12 & 1-15N-12W EST MULTIUNIT HORIZONTAL WELL X585936 MSSP 12-15N-12W X586793 MSNLC 1-15N-12W 50% 12-15N-12W 50% 1-15N-12W NO OP. NAMED 5/24/17

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