

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

API NUMBER: 011 23897 A

Approval Date: 12/06/2017
Expiration Date: 06/06/2018

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 15N Rge: 10W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 285 1391

Lease Name: HORSEFLY 13_24-15N-10W

Well No: 4HX

Well will be 285 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

BARBARA ANN BORNEMANN
959 N. BANNER ROAD
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9230	6	
2	WOODFORD	10663	7	
3			8	
4			9	
5			10	

Spacing Orders: 646358
594004

Location Exception Orders:

Increased Density Orders: 670190

Pending CD Numbers: 201706150
201706184
201706180

Special Orders:

Total Depth: 20193

Ground Elevation: 1286

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 90

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 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: FLOWERPOT

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

PERMIT NO: 17-33296

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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 24 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1355

Depth of Deviation: 9151

Radius of Turn: 425

Direction: 180

Total Length: 10375

Measured Total Depth: 20193

True Vertical Depth: 10663

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

Notes:

Category

Description

DEEP SURFACE CASING

11/3/2017 - 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

11/3/2017 - 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 - 670190

12/4/2017 - G58 - (I.O.) 24-15N-10W
X594004 MSSP, WDFD
10 WELLS
DEVON ENERGY PROD. CO., L.P.
11/17/17

INTERMEDIATE CASING

11/3/2017 - 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

This permit does not address the right of entry or settlement of surface damages.

011 23897 HORSEFLY 13_24-15N-10W 4HX

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.

Category	Description
MEMO	11/3/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201706150	12/4/2017 - G58 - (I.O.) 13 & 24-15N-10W EST. MULTIUNIT HORIZONTAL WELL X646358 (13-15N-10W) MSSP, WDFD X594004 (24-15N-10W) MSSP, WDFD (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 13-15N-10W 50% 24-15N-10W NO OP NAMED REC 10/10/2017 (JACKSON)
PENDING CD - 201706180	12/4/2017 - G58 - (I.O.) 13-15N-10W X646358 MSSP, WDFD 10 WELLS DEVON ENERGY PROD. CO., L.P. REC 10/10/2017 (JACKSON)
PENDING CD - 201706184	12/4/2017 - G58 - (I.O.) 13 & 24-15N-10W X646358 MSSP, WDFD 13-15N-10W X594004 MSSP, WDFD 24-15N-10W X165:10-3-28(C)(2)(B) MSSP, WDFD (HORSEFLY 13_24-15N-10W 4HX) MAY BE CLOSER THAN 600' TO ANY PROPOSED WELL AND HORSEFLY 13_24-15N-10W 1HX COMPL. INT. (13-15N-10W) NCT 165' FNL, NCT 0' FSL, NCT 990' FWL COMPL. INT. (24-15N-10W) NCT 0' FNL, NCT 165' FSL, NCT 990' FWL DEVON ENERGY PROD. CO., L.P. REC 10/10/2017 (JACKSON)
SPACING – 594004	12/4/2017 - G58 - (640) 24-15N-10W VAC 169866 CSTR VAC 176175 MNNG, MSSSD EXT 588576 WDFD EST MSSP
SPACING – 646358	12/4/2017 - G58 - (640)(HOR) 13-15N-10W VAC 169866 CSTR VAC 176175 MNNG, MSSSD, OTHER EXT 641537 WDFD EST MSSP, OTHER POE TO BHL (MSSP, OTHER) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

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.