

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

API NUMBER: 011 23907 A

Approval Date: 12/18/2017  
Expiration Date: 06/18/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE LOCATION & GROUND  
ELEVATION; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 16N Rge: 13W

County: BLAINE

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 402 260

Lease Name: FIREFLY 5\_8-15N-13W

Well No: 1HX

Well will be 260 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

JIMMIE ICE & VICKI ICE TRUST  
246700 E. 830 RD.  
FAY OK 73646

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

|   | Name          | Depth | Name | Depth |
|---|---------------|-------|------|-------|
| 1 | MISSISSIPPIAN | 10604 | 6    |       |
| 2 | WOODFORD      | 12471 | 7    |       |
| 3 |               |       | 8    |       |
| 4 |               |       | 9    |       |
| 5 |               |       | 10   |       |

Spacing Orders: 671709  
671710

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201707324  
201707323

Special Orders:

Total Depth: 22435

Ground Elevation: 1760

Surface Casing: 490

Depth to base of Treatable Water-Bearing FM: 240

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: 17-33406

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 08 Twp 15N Rge 13W County BLAINE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 11315

Radius of Turn: 477

Direction: 182

Total Length: 10371

Measured Total Depth: 22435

True Vertical Depth: 12471

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

Notes:

Category

Description

HYDRAULIC FRACTURING

11/14/2017 - 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](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)

INTERMEDIATE CASING

11/14/2017 - 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

MEMO

11/14/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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011 23907 FIREFLY 5\_8-15N-13W 1HX

| Category               | Description   |
|------------------------|---|
| PENDING CD - 201707323 | 2/8/2018 - G75 - (I.O.) 5 & 8-15N-13W<br>EST MULTIUNIT HORIZONTAL WELL<br>X671709 MSSP, WDFD 5-15N-13W<br>X671710 MSSP, WDFD 8-15N-13W<br>(WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP)<br>50% 5-15N-13W<br>50% 8-15N-13W<br>DEVON ENERGY PROD. CO., L.P.<br>REC 11-21-2017 (JACKSON)               |
| PENDING CD - 201707324 | 2/8/2018 - G75 - (I.O.) 5 & 8-15N-13W<br>X671709 MSSP, WDFD 5-15N-13W<br>X671710 MSSP, WDFD 8-15N-13W<br>COMPL. INT. (5-15N-13W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL<br>COMPL. INT. (8-15N-13W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL<br>DEVON ENERGY PROD. CO., L.P.<br>REC 11-21-2017 (JACKSON) |
| SPACING - 671709       | 2/8/2018 - G75 - (640)(HOR) 5-15N-13W<br>VAC 389053 CSTR, MSSLM<br>EXT 668554 MSSP, WDFD<br>POE TO BHL (MSSP) NCT 660' FB<br>POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL   |
| SPACING - 671710       | 2/8/2018 - G75 - (640)(HOR) 8-15N-13W<br>EXT 668554 MSSP, WDFD<br>POE TO BHL (MSSP) NCT 660' FB<br>POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL   |

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