

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

API NUMBER: 083 24237

Approval Date: 12/17/2013  
Expiration Date: 06/17/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 19N Rge: 4W County: LOGAN  
SPOT LOCATION:  SW  SW  SW  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 285 302

Lease Name: FRIEND 3-19N-4W Well No: 1WH Well will be 285 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP  
333 W SHERIDAN AVE DEC 34.428  
OKLAHOMA CITY, OK 73102-5010

JONATHAN D FRIEND II & DOROTHY C FRIEND CO-TRUSTEES  
3729 E. 87TH PLACE  
TULSA OK 74137

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5590	6 WILCOX	6100
2 WOODFORD	5930	7	
3 MISENER-HUNTON	5990	8	
4 SYLVAN	6000	9	
5 VIOLA	6050	10	

Spacing Orders: 602108  
617954

Location Exception Orders: 619033

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11200

Ground Elevation: 1053

**Surface Casing: 450**

Depth to base of Treatable Water-Bearing FM: 270

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: FAIRMONT

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

PERMIT NO: 13-24236

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: FAIRMONT

HORIZONTAL HOLE 1

Sec 03 Twp 19N Rge 4W County LOGAN

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5850

Radius of Turn: 286

Direction: 3

Total Length: 4715

Measured Total Depth: 11200

True Vertical Depth: 6100

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

Notes:

Category

Description

LOCATION EXCEPTION - 619033

12/17/2013 - G30 - (I.O.) 3-19N-4W  
X602108 MSSP, WDFD  
X617954 MSR, SLVN, VIOL, WLCX  
MSSP, WDFD, MSR, SLVN: 1ST PERF NCT 150 FSL, NCT 330 FWL  
LAST PERF NCT NCT 150 FNL, NCT 330 FWL  
VIOL, WLCX: 1ST PERF NCT 330 FSL, NCT 330 FWL  
LAST PERF NCT 330 FNL, NCT 330 FWL  
DEVON ENERGY PRODUCTION COMPANY, L.P.  
12/11/13

MEMO

12/17/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 602108

12/17/2013 - G30 - (640 HOR) 3-19N-4W  
EST MSSP, WDFD  
POE TO BHL (MSSP) NCT 660' FB  
POE TO BHL (WDFD) NCT 330' FB  
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

SPACING - 617954

12/17/2013 - G30 - (640 HOR) 3-19N-4W  
EXT 617495 MSR, VIOL  
EST SLVN, WLCX  
POE TO BHL NCT 660' FB  
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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.

083 24237 FRIEND 3-19N-4W 1WH