

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

API NUMBER: 047 24667

Approval Date: 01/11/2013
Expiration Date: 07/11/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 21N Rge: 4W County: GARFIELD
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 309 470

Lease Name: **GEIHLER 5-21N-4W** Well No: **1WH** Well will be **309** 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 SHERIDIAN AVE DEC 34.428
OKLAHOMA CITY, OK 73102-5010

TROY LOESCH
7906 S. 150TH STREET
DOUGLAS OK 73733

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5650	6	
2	WOODFORD	6100	7	
3	MISENER-HUNTON	6125	8	
4	VIOLA	6150	9	
5			10	

Spacing Orders: 603959 Location Exception Orders: 606218 Increased Density Orders:
Pending CD Numbers: Special Orders:

Total Depth: 11069 Ground Elevation: 1135 **Surface Casing: 500** Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No 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: 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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 12-22055
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 05 Twp 21N Rge 4W County GARFIELD

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: 5686

Radius of Turn: 716

Direction: 13

Total Length: 4258

Measured Total Depth: 11069

True Vertical Depth: 6402

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

Notes:

Category

Description

LOCATION EXCEPTION - 606218

1/11/2013 - G30 - (I.O.) 5-21N-4W
5-21N-4W
X603959 MSSP, WDFD, MSRH, VIOL
1ST PERF NCT 150 FSL, NCT 330 FWL
LAST PERF NCT 150 FNL, NCT 330 FWL
DEVON ENERGY PRODUCTION COMPANY, L.P.
1/4/13

MEMO

1/11/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, OBM
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 603959

1/11/2013 - G30 - (640 HOR) 5-21N-4W
EST MSSP, WDFD, MSRH, VIOL
(EXIST CONCURRENTLY WITH PRODUCING NON-HORIZONTAL SPACING UNITS)
(SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)