

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

API NUMBER: 103 24590

Approval Date: 10/04/2013  
Expiration Date: 04/04/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 21N Rge: 1E County: NOBLE  
SPOT LOCATION:  NW  NE  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 270 338

Lease Name: THIELE 33-21N-1E Well No: 1WH Well will be 270 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 SHERIDIAN AVE DEC 34.428  
OKLAHOMA CITY, OK 73102-5010

SHANNON ROSE BOCOX  
606 QUAIL CREEK DRIVE  
PERRY OK 73077

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4800	6	
2	WOODFORD	5065	7	
3	MISENER-HUNTON	5100	8	
4	SYLVAN	5125	9	
5			10	

Spacing Orders: 610703

Location Exception Orders: 611131

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 9850

Ground Elevation: 1108

**Surface Casing: 450**

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

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

PERMIT NO: 13-24061

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: WELLINGTON

HORIZONTAL HOLE 1

Sec 33 Twp 21N Rge 1E County NOBLE

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 4400

Radius of Turn: 716

Direction: 184

Total Length: 4258

Measured Total Depth: 9850

True Vertical Depth: 5125

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

Additional Surface Owner	Address	City, State, Zip
JENNIFER JANE KRAMER	19 SOUTH BARTON	BATAVIA, IL 60510

Notes:

Category

Description

LOCATION EXCEPTION - 611131

10/4/2013 - G30 - (I.O.) 33-21N-1E  
X610703 MSSP, WDFD, MSRH, SLVN  
1ST PERF NCT 150 FNL, NCT 330 FEL  
LAST PERF NCT 150 FSL, NCT 330 FEL  
DEVON ENERGY PRODUCTION COMPANY, L.P.  
5/3/13

MEMO

10/4/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION,  
CONCRETE LINED PIT FOR SOIL FARMING PER OPERATOR REQUEST, PIT 2 - OBM  
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 610703

10/4/2013 - G30 - (640 HOR) 33-21N-1E  
VAC 154680 MSNR, MSSLM  
EXT 605726 MSSP, WDFD, MSRH, SLVN  
POE TO BHL (MSSP, MSRH, SLVN) NCT 660' FB  
POE TO BHL (WDFD) NCT 330' FB  
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXSIT WITH  
PRODUCING NON-HORIZONTAL SPACING UNITS)

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

103 24590 THIELE 33-21N-1E 1WH

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