

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

API NUMBER: 103 24600

Approval Date: 11/06/2013  
Expiration Date: 05/06/2014

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: 270 358

Lease Name: THIELE 28-21N-1E Well No: 2MH 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 SHERIDAN 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	4801	6	
2	WOODFORD	5050	7	
3	MISENER-HUNTON	5125	8	
4			9	
5			10	

Spacing Orders: 593480

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201306784  
201306783

Special Orders:

Total Depth: 10200

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: 13-24060  
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 BED AQUIFER

Pit Location Formation: WELLINGTON

HORIZONTAL HOLE 1

Sec 28 Twp 21N Rge 1E County NOBLE

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 4200

Radius of Turn: 716

Direction: 353

Total Length: 4810

Measured Total Depth: 10200

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
MEMO	11/1/2013 - 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
PENDING CD - 201306783	11/1/2013 - G30 - 28-21N-1E X593480 MSSP 1 WELL NO OP. NAMED REC 11/5/13 (OSBURN)
PENDING CD - 201306784	11/1/2013 - G30 - 28-21N-1E X593480 MSSP, WDFD, MSRH 1ST PERF NCT 150 FSL, NCT 330 FEL LAST PERF NCT 150 FNL, NCT 330 FEL NO OP. NAMED REC 11/5/13 (OSBURN)
SPACING - 593480	11/1/2013 - G30 - (640 HOR) 28-21N-1E EST MSSP, WDFD, MSRH POE TO BHL NCT 660' FB (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS; SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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103 24600 THIELE 28-21N-1E 2MH