

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

API NUMBER: 103 24585

Approval Date: 10/03/2013
Expiration Date: 04/03/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 21N Rge: 1E County: NOBLE
SPOT LOCATION: NE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 270 298

Lease Name: THIELE 27-21N-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	4799	6	
2 WOODFORD	5054	7	
3 MISENER-HUNTON	5100	8	
4 SYLVAN	5125	9	
5		10	

Spacing Orders: 610191

Location Exception Orders: 610702

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10500

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

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 13-24063

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 27 Twp 21N Rge 1E County NOBLE

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 900

Depth of Deviation: 4400

Radius of Turn: 716

Direction: 12

Total Length: 4911

Measured Total Depth: 10500

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 - 610702

10/3/2013 - G30 - (I.O.) 27-21N-1E
X610191 MSSP, WDFD, MSRH, SLVN
1ST PERF NCT 150 FSL, NCT 330 FWL
LAST PERF NCT 150 FNL, NCT 330 FWL
DEVON ENERGY PRODUCTION COMPANY, L.P.
4/23/13

MEMO

10/3/2013 - 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 - 610191

10/3/2013 - G30 - (640 HOR) 27-21N-1E
X593480 MSSP, WDFD, MSRH
EST SLVN
POE TO BHL (MSSP, MSRH, SLVN) NCT 660' FB
POE TO BHL (WDFD) NCT 330' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH
PRODUCING NON-HORIZONTAL SPACING UNITS)