

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

API NUMBER: 083 24017

Approval Date: 09/04/2012
Expiration Date: 03/04/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 3W County: LOGAN
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 186 2407

Lease Name: HOPFER Well No: 1-17MH Well will be 186 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

BETTY JO HOPFER
11998 KELLBROAD
GUTHRIE OK 73044

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5650	6	
2	WOODFORD	5975	7	
3	MISENER-HUNTON	6050	8	
4	SYLVAN	6075	9	
5			10	

Spacing Orders: 598742

Location Exception Orders: 599017

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11031

Ground Elevation: 1060

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 140

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: 50000 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: GARBER

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

PERMIT NO: 12-21267

H. PITS 1 & 2 - 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: GARBER

HORIZONTAL HOLE 1

Sec 17 Twp 18N Rge 3W County LOGAN

Spot Location of End Point: S2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 501

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 5134

Radius of Turn: 716

Direction: 357

Total Length: 4703

Measured Total Depth: 11031

True Vertical Depth: 6075

End Point Location from Lease,
Unit, or Property Line: 501

Additional Surface Owner	Address	City, State, Zip
BETTY JO HOPFER	11998 KELLBROAD	GUTHRIE, OK 73044

Notes:

Category	Description
DEEP SURFACE CASING	9/4/2012 - G71 - APPROVED

LOCATION EXCEPTION - 599017

9/4/2012 - G30 - (I.O.) 17-18N-3W
X598742 MSSP, WDFD, MSRH, SLVN
SHL NCT 0 FNL, NCT 660 FEL 20-18N-3W
POE NCT 0 FSL, NCT 660 FEL 17-18N-3W
1ST PERF NCT 150 FSL, NCT 660 FEL 17-18N-3W
LAST PERF NCT 150 FNL, NCT 660 FEL 17-18N-3W
BHL NCT 0 FNL, NCT 660 FEL 17-18N-3W
DEVON ENERGY PRODUCTION COMPANY, L.P.
6/22/12

PITS 1 & 2

9/4/2012 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 598742

9/4/2012 - G30 - (640 HOR) 17-18N-3W
EST MSSP, WDFD, MSRN, SLVN

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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.