

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

API NUMBER: 083 24072

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 18N Rge: 2W County: LOGAN
SPOT LOCATION: SE NE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 500 1005

Lease Name: HANNAH 35-19N-2W Well No: 1MH Well will be 500 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

LOIS WEBB
816 E. WARNER
GUTHRIE OK 73044

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5400	6	
2 WOODFORD	5700	7	
3 MISENER-HUNTON	5750	8	
4 SYLVAN	5775	9	
5		10	

Spacing Orders: 606376 Location Exception Orders: 606966 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 10849 Ground Elevation: 993 Surface Casing: 500 Depth to base of Treatable Water-Bearing FM: 430

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: 13-22779

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 35 Twp 19N Rge 2W County LOGAN

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: 4504

Radius of Turn: 716

Direction: 356

Total Length: 5002

Measured Total Depth: 10849

True Vertical Depth: 5775

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

Notes:

Category

Description

LOCATION EXCEPTION - 606966

3/4/2013 - G75 - (I.O.) 35-19N-2W
X606376 MSSP, WDFD, MSRH, SLVN
POE NCT 0 TO SL, NCT 330 TO WL
FIRST PERF NCT 150 TO SL, NCT 330 TO WL
LAST PERF NCT 150 TO NL, NCT 330 TO WL
BHL NCT 0 TO NL, NCT 330 TO WL
DEVON ENERGY PROD. CO., L.P.
1-25-2013

MEMO

3/1/2013 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -
OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 606376

3/4/2013 - G75 - (640)(HOR) 35-19N-2W
EXT 602582 MSSP, WDFD, MSRH, SLVN
POE TO BHL (WDFD) NLT 330' FB, NCT 600' FWB
POE TO BHL (OTHERS) NLT 660' FB, NCT 600' FWB

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Office of the Conservation Division as to when Surface Casing will be run.