

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

API NUMBER: 083 24074

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: 520 1005

Lease Name: HANNAH 2-18N-2W Well No: 1MH Well will be 520 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	5250	6	
2	WOODFORD	5500	7	
3	MISENER-HUNTON	5550	8	
4	SYLVAN	5600	9	
5			10	

Spacing Orders: 601398

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201208102

Special Orders:

Total Depth: 9840

Ground Elevation: 992

**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: 13-22778

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 02 Twp 18N Rge 2W County LOGAN

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 4504

Radius of Turn: 716

Direction: 184

Total Length: 4211

Measured Total Depth: 9840

True Vertical Depth: 5600

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

Notes:

Category

Description

MEMO

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

PENDING CD - 201208102

3/4/2013 - G75 - (I.O.) 2-18N-2W  
X601398 MSSP, WDFD, MSRH, SLVN  
FIRST PERF NCT 150 TO NL, NCT 330 TO WL  
LAST PERF NCT 150 TO SL, NCT 330 TO WL  
BHL NCT 0 TO SL, NCT 330 TO WL  
NO OP. NAMED  
REC 1-18-2013 (P. PORTER)

SPACING - 601398

3/4/2013 - G75 - (640)(HOR) 2-18N-2W  
EST MSSP, WDFD, MSRH, SLVN  
POE TO BHL (WDFD) NLT 330' FB, NCT 600' FWB  
POE TO BHL (OTHERS) NLT 660' FB, NCT 600' FWB  
(SUPERSEDE SP. ORDER # 194271, MISS, SW4 & ORDER # 198487, MSSLM, SE4)

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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.

083 24074 HANNAH 2-18N-2W 1MH