

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

API NUMBER: 083 24254 A

Approval Date: 02/04/2014  
Expiration Date: 08/04/2014

Horizontal Hole Oil & Gas

Amend reason: NEW LE & SIGNIFICANT CHANGE IN PBHL.

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 19N Rge: 3W

County: LOGAN

SPOT LOCATION:  NW  SE  SE  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 340 2226

Lease Name: ROTHERMEL 23-19N-3W

Well No: 4MH

Well will be 340 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

STAN AND CHRISTINE KLINGAMAN  
7151 INDEPENDENCE  
PERRY OK 73077

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5520	6	
2	WOODFORD	5830	7	
3			8	
4			9	
5			10	

Spacing Orders: 605895

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201401990  
201308566

Special Orders:

Total Depth: 10579

Ground Elevation: 1131

**Surface Casing: 570**

Depth to base of Treatable Water-Bearing FM: 450

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: GARBER

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 14-26316

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: GARBER

HORIZONTAL HOLE 1

Sec 23 Twp 19N Rge 3W County LOGAN

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2150

Depth of Deviation: 5323

Radius of Turn: 358

Direction: 10

Total Length: 4543

Measured Total Depth: 10708

True Vertical Depth: 5830

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

Notes:

Category	Description
MEMO	4/16/2014 - G30 - 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 - 201308566	2/3/2014 - G30 - 23-19N-3W X605895 MSSP, WDFD 3 WELLS NO OP. NAMED REC 1/27/14 (LEAVITT)
PENDING CD - 201401990	4/16/2014 - G30 - 23-19N-3W X605895MSSP, WDFD, OTHERS COMP. INT. NCT 150 TO NL, NCT 150 TO SL, NCT 2640 TO WL, NCT 1850 TO EL NO OP. NAMED REC 4/14/14 (STUCK)
SPACING - 605895	2/3/2014 - G30 - (640 HOR) 23-19N-3W EXT 601235 MSSP, WDFD, OTHERS POE TO BHL (MSSP) NLT 660' FB, NCT 600' FWB POE TO BHL (WDFD) NLT 330' FB, NCT 600' FWB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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.

083 24254 ROTHERMEL 23-19N-3W 4MH