

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

API NUMBER: 071 24710

Approval Date: 11/04/2013
Expiration Date: 05/04/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 26N Rge: 1E County: KAY
SPOT LOCATION: SE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 429 245

Lease Name: CARMICHAEL 13-26N-1E Well No: 1MH Well will be 245 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

BILL D. CARMICHAEL
7375 S. U ST.
PONCA CITY OK 74601

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

	Name	Depth	Name	Depth
1	CHEROKEE	3700	6	
2	MISSISSIPPIAN	3975	7	
3	WOODFORD	4375	8	
4	SIMPSON	4475	9	
5			10	

Spacing Orders: 614768

Location Exception Orders: 615198

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 9068

Ground Elevation: 1016

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 150

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: 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

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

PERMIT NO: 13-24603

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 13 Twp 26N Rge 1E County KAY

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: 3479

Radius of Turn: 716

Direction: 7

Total Length: 4999

Measured Total Depth: 9068

True Vertical Depth: 4475

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

Notes:

Category

Description

DEEP SURFACE CASING

10/30/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

LOCATION EXCEPTION - 615198

11/4/2013 - G30 - (I.O.) 13-26N-1E
X614768 CHRK, MSSP, WDFD, SMPS
MSSP, WDFD: 1ST PERF NCT 150 FSL, NCT 330 FWL
LAST PERF NCT 150 FNL, NCT 330 FWL
CHRK, SMPS: 1ST PERF NCT 330 FSL, NCT 330 FWL
LAST PERF NCT 330 FNL, NCT 330 FWL
DEVON ENERGY PRODUCTION COMPANY, L.P.
8/26/13

MEMO

10/30/2013 - 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 - 614768

11/4/2013 - G30 - (640) 13-26N-1E
(HOR) EST MSSP, WDFD, SMPS
(VER) EST CHRK, OTHERS
(SUPERSEDE NON-DEVELOPED 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.

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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.

071 24710 CARMICHAEL 13-26N-1E 1MH