

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

API NUMBER: 083 24145

Approval Date: 07/12/2013
Expiration Date: 01/12/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 19N Rge: 4W County: LOGAN
SPOT LOCATION: NW SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 350 243

Lease Name: CAIG 22-19N-4W Well No: 1MH Well will be 243 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 SHERIDIAN AVE DEC 34.428
OKLAHOMA CITY, OK 73102-5010

ROBERT T. CAIG AND KAREN CAIG
11117 SABINE VALLEY DR.
LITTLE ROCK AR 72212

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5696	6	
2	MISENER-HUNTON	6050	7	
3	VIOLA	6075	8	
4	WOODFORD	6111	9	
5			10	

Spacing Orders: 607771

Location Exception Orders: 608297

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10706

Ground Elevation: 1021

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 340

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: GARBER

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

PERMIT NO: 13-23798

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 22 Twp 19N Rge 4W County LOGAN

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 5336

Radius of Turn: 716

Direction: 349

Total Length: 4245

Measured Total Depth: 10706

True Vertical Depth: 6111

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

Notes:

Category

Description

LOCATION EXCEPTION - 608297

7/12/2013 - G30 - (I.O.) 22-19N-4W
X607771 MSSP, WDFD, MSRH, VIOL
1ST PERF NCT 150 FSL, NCT 330 FEL
LAST PERF NCT 150 FNL, NCT 330 FEL
DEVON ENERGY PRODUCTION COMPANY, L.P.
2/27/13

MEMO

7/11/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 -
OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 607771

7/12/2013 - G30 - (640 HOR) 22-19N-4W
EXT 591961 MSSP, WDFD, MSRH
EST VIOL
POE TO BHL (MSSP, MSRH, VIOL): NCT 660' FB
POE TO BHL (WDFD): NCT 330 FB
(SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH
PRODUCING NON-HORIZONTAL SPACING UNITS)