

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

API NUMBER: 047 24841

Approval Date: 04/21/2014
Expiration Date: 10/21/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 21N Rge: 4W County: GARFIELD
SPOT LOCATION: SE SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 300 399

Lease Name: MENDEL 15-21N-4W Well No: 1WH Well will be 300 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

KURT J. AND KELLY D. MENDEL
520 MAIN STREET
COVINGTON OK 73730

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6029	6	
2	WOODFORD	6507	7	
3	SYLVAN	6567	8	
4	VIOLA	6606	9	
5			10	

Spacing Orders: 620391

Location Exception Orders: 621558

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11281

Ground Elevation: 1113

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 100

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: 50000 Average: 8000

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: GARBER

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

PERMIT NO: 14-26806

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 15 Twp 21N Rge 4W County GARFIELD

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 6164

Radius of Turn: 358

Direction: 1

Total Length: 4555

Measured Total Depth: 11281

True Vertical Depth: 6610

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

Notes:

Category

Description

LOCATION EXCEPTION - 621558

4/21/2014 - G72 - 15-21N-4W X 620391 MSSP, SLVN, WDFD, VIOL;
MSSP, WDFD, SLVN 1ST PERF NCT 150 FSL NCT 330 FWL,
LAST PER NCT 150 FNL NCT 330 FWL;
VIOLA 1ST PERF NCT 330 FSL NCT 330 FWL,
LAST PERF NCT 330 FNL NCT 330 FWL;
WELL IN THE W/2;
DEVON ENERGY PRODUCTION COMPANY, L.P.
2/12/2014

MEMO

4/21/2014 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 -
OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

MEMO

4/21/2014 - 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

SPACING - 620391

4/21/2014 - G72 - 15-21N-4W (640) HORZ
EXT 601939 MSSP, WDFD;
EST SLVN, VIOL;
MSSP & VIOL 660 FB.
SYLVAN & WDFD 660 FB.
SUPERSEDE 108648 NPT 120071 VIOLA, 118874 MSSSD;
EXIST CONCURRENTLY WITH PROD NON-HORZ;

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