

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

API NUMBER: 103 24619

Approval Date: 12/31/2013  
Expiration Date: 06/30/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 21N Rge: 1E County: NOBLE  
SPOT LOCATION:  SW  SW  SW  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 290 316

Lease Name: BIG IRON 4-21N-1E Well No: 1WH Well will be 290 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 SHERIDAN AVE DEC 34.428  
OKLAHOMA CITY, OK 73102-5010

WALTER JAMES KEHRES  
P.O. BOX 188  
BRYANTOWN MD 20617

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	4667	6 SIMPSON	4950
2 WOODFORD	4857	7	
3 MISENER	4860	8	
4 SYLVAN	4875	9	
5 VIOLA	4918	10	

Spacing Orders: 617307

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201307753

Special Orders:

Total Depth: 10650

Ground Elevation: 998

**Surface Casing: 500**

Depth to base of Treatable Water-Bearing FM: 200

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: 13-25062

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 04 Twp 21N Rge 1E County NOBLE

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: 4180

Radius of Turn: 955

Direction: 3

Total Length: 4250

Measured Total Depth: 10650

True Vertical Depth: 5135

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

Notes:

Category

Description

DEEP SURFACE CASING

12/19/2013 - 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

MEMO

12/19/2013 - 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

PENDING CD - 201307753

12/30/2013 - G30 - 4-21N-1E  
X617307 MSSP, WDFD, MSNR, SLVN, VIOL, SMPS  
MSSP, WDFD MSNR, SLVN: 1ST PERF NCT 150 FSL, NCT 330 FWL  
LAST PERF NCT 150 FNL, NCT 330 FWL  
VIOL, SMPS: 1ST PERF NCT 330 FSL, NCT 330 FWL  
LAST PERF NCT 330 FNL, NCT 330 FWL  
NO OP. NAMED  
REC 12/10/13 (OSBURN)

SPACING - 617307

12/30/2013 - G30 - (640) 4-21N-1E  
(HOR) EXT 614045 MSSP, WDFD, SLVN  
(HOR) EST MSNR, VIOL, SMPS  
(VER) EST OTHERS  
POE TO BHL (MSSP,MSNR, SLVN, VIOL, SMPS) NLT 660' FB  
POE TO BHL (WDFD) NCT 330' FB  
(SUPERCEDE 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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