

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

API NUMBER: 083 24372

Approval Date: 01/29/2015
Expiration Date: 07/29/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 19N Rge: 3W County: LOGAN
SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 580 1650

Lease Name: CROSSFIELD A 21-19N-3W Well No: 3MH Well will be 580 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

RUTH D. DANIEL-MANAGER, DANIEL MANAGEMENT, LTD
8523 THACKERY #1208
DALLAS TX 75225

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5472	6	
2 WOODFORD	5819	7	
3		8	
4		9	
5		10	

Spacing Orders: 600665

Location Exception Orders:

Increased Density Orders: 634170

Pending CD Numbers: 201407227

Special Orders:

Total Depth: 10075

Ground Elevation: 1042

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 260

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: 15-29403

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 21 Twp 19N Rge 3W County LOGAN

Spot Location of End Point: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1750

Depth of Deviation: 5226

Radius of Turn: 358

Direction: 178

Total Length: 4287

Measured Total Depth: 10075

True Vertical Depth: 5819

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

Notes:

Category

Description

INCREASED DENSITY - 634170

1/29/2015 - G76 - 21-19N-3W
X600665 MSSP, WDFD
4 WELLS
DEVON ENERGY PROD. CO., L.P.
12/15/2014

MEMO

1/27/2015 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -
OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201407227

1/29/2015 - G76 - (I.O.) 21-19N-3W
X600665 MSSP, WDFD, OTHERS
COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 1530 FWL
NO OP. NAMED
11/10/2014 (NORRIS)

SPACING - 600665

1/29/2015 - G76 - (640)(HOR) 21-19N-3W
EXT 591158 MSSP
EXT 597354 WDFD, OTHER
POE TO BHL (MSSP, OTHERS) NCT 660' FB
POE TO BHL (WDFD) NCT 330' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH
PRODUCING NON-HORIZONTAL SPACING UNITS)

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

083 24372 CROSSFIELD A 21-19N-3W 3MH