API NUMBER: 083 24376

Oil & Gas

Horizontal Hole

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

Approval Date: 02/12/2015
Expiration Date: 08/12/2015

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 19N Rge: 3W County: LOGAN

SPOT LOCATION: NE NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST SECTION LINES: 275 1741

Lease Name: CROSSFIELD B 33-19N-3W Well No: 2WH Well will be 275 feet from nearest unit or lease boundary.

Operator 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

CHARLES ROTHERMEL & BETTY JANE ROTHERMEL 3700 WEST HIGHWAY 51

MULHALL OK 73063

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

Name Depth Name Depth MISSISSIPPIAN 1 5514 6 2 WOODFORD 5841 7 3 MISENER-HUNTON 5899 8 4 9 10 590189 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201409115 Special Orders:

201409116

Total Depth: 10717 Ground Elevation: 1001 Surface Casing: 500 Depth to base of Treatable Water-Bearing FM: 370

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 D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29306

Chlorides Max: 5000 Average: 3000 H. SEE MEMO

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

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 33 Twp 19N Rge 3W County LOGAN SW Spot Location of End Point: S2 SE SW Feet From: SOUTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 5508 Radius of Turn: 358 Direction: 189

Total Length: 4647

Measured Total Depth: 10717

True Vertical Depth: 5899

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

PENDING CD - 201409116

Notes:

Category Description

MEMO 2/12/2015 - G76 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201409115 2/11/2015 - G76 - 33-19N-3W

X590189 MSSP, WDFD, MSRH

COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 330 FWL

NO OP. NAMED

REC. 1/12/2015 (M. PORTER) 2/11/2015 - G76 - 33-19N-3W

X590189 MSSP, OTHER 1 WELL

REC. 1/12/2015 (DECKER)

SPACING - 590189 2/11/2015 - G76 - (640)(HOR) 33-19N-3W

EST MSSP. WDFD. MSRH

POE TO BHL (MSSP, MSRH) NLT 660' FB, NCT 600' FWB POE TO BHL (WDFD) NLT 330' FB, NCT 600' FWB

(SUPERSEDE ORDER #71472 MISS)