

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

API NUMBER: 083 24071

Approval Date: 02/20/2013
Expiration Date: 08/20/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 18N Rge: 2W

County: LOGAN

SPOT LOCATION: SW SE SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 320 576

Lease Name: RINGER 20-18N-2W

Well No: 1MH

Well will be 320 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 SHERIDIAN AVE DEC 34.428
OKLAHOMA CITY, OK 73102-5010

KENNETH D RINGER REVOCABLE LIVING TRUST,
KENNETH D RINGER TRUSTEE
21874 N COUNCIL ROAD
EDMOND OK 73012

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5442	6	
2	WOODFORD	5722	7	
3	MISENER-HUNTON	5800	8	
4	SYLVAN	5850	9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201300470
201300471

Special Orders:

Total Depth: 10775

Ground Elevation: 1049

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 290

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: 13-22416

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 20 Twp 18N Rge 2W County LOGAN

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 4817

Radius of Turn: 716

Direction: 180

Total Length: 5941

Measured Total Depth: 10775

True Vertical Depth: 5850

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

Notes:

Category

Description

MEMO

2/20/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201300470

2/20/2013 - G30 - (640 HOR) 20-18N-2W
EXT 201207263 MSSP, WDFD, MSRH, SLVN
(SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH
PRODUCING, NON-HORIZONTAL SPACING UNITS)
REC 2/19/13 (LEAVITT)

PENDING CD - 201300471

2/20/2013 - G30 - 20-18N-2W
X201300470 MSSP, WDFD, MSRH, SLVN
POE NCT 0 TO FNL, NCT 330 TO EL
1ST PERF NCT 150 TO NL, NCT 330 TO EL OR WL
LAST PERF NCT 150 TO SL, NCT 330 TO EL OR WL
BHL NCT 0 TO SL, NCT 330 TO EL OR WL
NO OP. NAMED
REC 2/19/13 (LEAVITT)

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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District
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