

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

API NUMBER: 083 24205 A

Approval Date: 10/17/2013
Expiration Date: 04/17/2014

Horizontal Hole Oil & Gas

Amend reason: ADD SYLVAN

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 18N Rge: 3W

County: LOGAN

SPOT LOCATION: NW NW NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 301 290

Lease Name: GARY 33-18N-3W

Well No: 1WH

Well will be 290 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

GARY HOPFER AND BETTY J HOPFER
11998 KELLBROAD RD.
GUTHRIE OK 73044

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

	Name	Depth	Name	Depth
1	OSWEGO	5399	6	
2	MISSISSIPPIAN	5679	7	
3	WOODFORD	5980	8	
4	MISENER-HUNTON	6049	9	
5	SYLVAN	6055	10	

Spacing Orders: 616939

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201306711
201401264

Special Orders:

Total Depth: 10800

Ground Elevation: 975

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 330

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: 13-24232

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 33 Twp 18N Rge 3W County LOGAN

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5500

Radius of Turn: 716

Direction: 175

Total Length: 6457

Measured Total Depth: 10800

True Vertical Depth: 6055

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

Notes:

Category

Description

MEMO

10/17/2013 - 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 - 201306711

10/17/2013 - G30 - 33-18N-3W
X616939 OSWG, MSSP, WDFD, MSRH, OTHERS
X201401264 SLVN
POE NCT 0 TO NL, NCT 330 TO WL
1ST PERF NCT 150 TO NL, NCT 330 TO WL
LAST PERF NCT 150 TO SL, NCT 330 TO WL
BHL NCT 0 TO SL, NCT 330 TO WL
NO OP. NAMED
REC 3/4/14 (DECKER)

PENDING CD - 201401264

2/25/2014 - G30 - (E.O.)(640 HOR) 33-18N-3W
EXT 615772 SLVN
POE TO BHL NLT 330' FB
REC 3/4/14 (DECKER)

SPACING - 616939

10/17/2013 - G30 - (640 HOR) 33-18N-3W
VAC 411750 HNTN, OTHER
VAC 191578 OSWG, MISS, HNTN
EXT 607717 MSSP, WDFD, MSRH
EST OSWG, OTHERS
POE TO BHL (OSWG, MSSP, MSRH) NLT 660' FB
POE TO BHL (WDFD) NLT 330' FB

This permit does not address the right of entry or settlement of surface damages.

083 24205 GARY 33-18N-3W 1WH

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