

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

API NUMBER: 007 25623

Approval Date: 07/10/2013

Expiration Date: 01/10/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 1N Rge: 22ECM County: BEAVER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 220 1000

Lease Name: FERGUSON Well No: 1-31H Well will be 220 feet from nearest unit or lease boundary.

Operator Name: UNIT PETROLEUM COMPANY

Telephone: 9184937700; 9184937

OTC/OCC Number: 16711 0

UNIT PETROLEUM COMPANY  
P.O. Box 702500  
TULSA, OK 74170-2500

WENDELL FERGUSON  
C/O ERIC FERGUSON ATTORNEY IN FACT  
RT 1, BOX 57  
BALKO OK 73931

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

	Name	Depth	Name	Depth
1	DOUGLAS	5450	6	
2	LANSING-KANSAS CITY	5700	7	
3	MARMATON	6650	8	
4			9	
5			10	

Spacing Orders: 611630

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201303470

Special Orders:

Total Depth: 11331

Ground Elevation: 2900

**Surface Casing: 1995**

Depth to base of Treatable Water-Bearing FM: 600

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: No

**PIT 1 INFORMATION**

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 20000 Average: 5000

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: 2**

**Liner not required for Category: 2**

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 13-23698

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.

# HORIZONTAL HOLE 1

Sec 31 Twp 1N Rge 22E County BEAVER

Spot Location of End Point: W2 NW NE NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 5500

Radius of Turn: 740

Direction: 360

Total Length: 4500

Measured Total Depth: 11331

True Vertical Depth: 6728

End Point Location from Lease,  
Unit, or Property Line: 330

## Notes:

Category	Description
DEEP SURFACE CASING	7/8/2013 - 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	7/8/2013 - G71 - SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER, 20 MIL LINED GEOMEMBRANE TRENCH PIT FOR SOIL FARMING
PENDING CD - 201303470	7/10/2013 - G30 - 31-1N-22ECM X611630 DGLS, LGKC, MRMN SHL NCT 150 FSL, NCT 660 FEL COMP. INT. NCT 330 FSL, NCT 330 FNL, NCT 660 FEL NO OP. NAMED REC 6/18/13 (MCKEOWN)
SPACING - 611630	7/10/2013 - G30 - (640 HOR) 31-1N-22ECM EXT 604867 DGLS, LGKC, MRMN POE TO BHL: NLT 660' FB

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007 25623 FERGUSON 1-31H