

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

API NUMBER: 007 25678

Approval Date: 05/20/2014
Expiration Date: 11/20/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 1N Rge: 20ECM County: BEAVER

SPOT LOCATION: NW NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 1000

Lease Name: COWAN "B" Well No: 1-9H Well will be 200 feet from nearest unit or lease boundary.

Operator Name: UNIT PETROLEUM COMPANY Telephone: 9184937700; 9184937 OTC/OCC Number: 16711 0

UNIT PETROLEUM COMPANY
PO BOX 702500
TULSA, OK 74170-2500

BERYL COWAN
633 N. MAIN
BOLIVAR MO 65613-

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

Name	Depth	Name	Depth
1 MARMATON	5995	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 625298

Location Exception Orders: 625671

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10711

Ground Elevation: 2794

Surface Casing: 1995

Depth to base of Treatable Water-Bearing FM: 230

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

Surface Water used to Drill: No

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: 20000 Average: 6000

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: PERMIAN

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

PERMIT NO: 14-27093

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 09 Twp 1N Rge 20E County BEAVER

Spot Location of End Point: W2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 5315

Radius of Turn: 740

Direction: 180

Total Length: 4210

Measured Total Depth: 10688

True Vertical Depth: 6055

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

HORIZONTAL HOLE 2

Sec 09 Twp 1N Rge 20E County BEAVER

Spot Location of End Point: W2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 5498

Radius of Turn: 740

Direction: 180

Total Length: 4050

Measured Total Depth: 10711

True Vertical Depth: 6238

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

Notes:

Category

Description

DEEP SURFACE CASING

5/19/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

LOCATION EXCEPTION - 625671

5/20/2014 - G75 - (E.O.) 9-1N-20ECM
X625298 MRMN
SHL 200 FNL, 1000 FEL
LAT 1 COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 660 FEL
LAT 2 COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 665 FEL
UNIT PETROLEUM CO.
5-20-2014

SPACING - 625298

5/20/2014 - G75 - (640)(HOR) 9-1N-20ECM
VAC 203722 MRMN
EST MRMN, OTHERS
COMPL. INT. NLT 660' FB