

Date: 02/13/2013

Operator's Well Number	LC-19		
	State	County	Permit
API Well No.:	47-	109	- 01433

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENT-OFFICE OF OIL AND GAS  
PRE-OPERATION CERTIFICATE  
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL**

**WELL OPERATOR** Enervest Operating

**Address** 300 Capitol St, Suite 200  
Charleston, WV, 25301

**DESIGNATED AGENT** Chris Veazey

**Address** 300 Capitol St, Suite 200  
Charleston, WV, 25301

**GEOLOGICAL TARGET FORMATION** Wier Depth 3540 feet(top) to 3578 feet(bottom)

Virgin reservoir pressure in target formation 700 psig

Source of information on virgin reservoir pressure: Data from wells in field

Perforation intervals 3540' to 3570'

Open-hole intervals <sup>NA</sup>

## MAXIMUM PERMITTED INJECTION OPERATIONS

Well head injection pressure: 479                      psig

Bottom hole pressure: 2200                      psig

**Volume per hour: 50 BBL**

### DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED

Liquids to be injected for oil recovery: None

Wastes to be disposed of: Gas Field Brine

Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.) No additives anticipated

## SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL

None

**ADDITIONAL DRILLING AS PART OF THE CONVERSION** (Complete form WR-35)

**DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION** (To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

[illegible]

109-0 1433

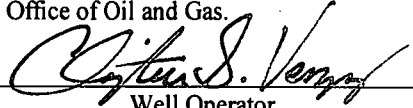
WR37

**MECHANICAL INTEGRITY TEST**

Test Method: Annulus pressure testing using Envirocheck of Virginia  
Monitored annulus pressure for 28 minutes. Performed on 01/30/2013

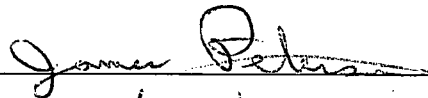
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The undersigned certifies that the test was performed on January 30, 2013, 20\_\_ and demonstrated mechanical integrity of the well. The test was witnessed by \_\_\_\_\_ representing the Office of Oil and Gas.

  
Well Operator

02/13/2013  
Date

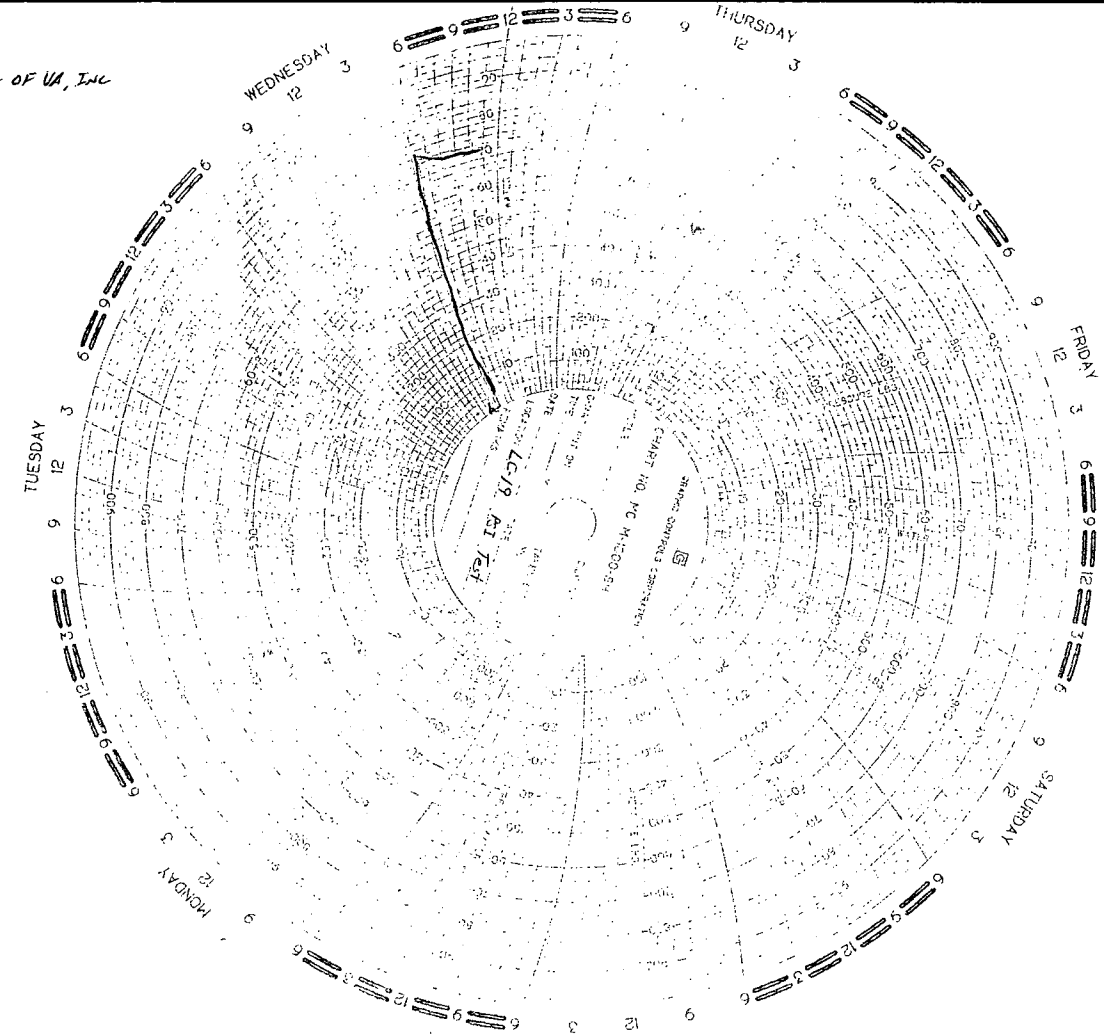
**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed  UIC PROGRAM DIRECTOR  
Date 2/20/13

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

ENEVEST OPERATING, LLC  
Well Operator  
By: CHRISTOPHER S. VENZEY  
Its HSE MANAGER

NOTED  
1/30/10 by  
NAVIGATOR OF UA, INC



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