



**MECHANICAL INTEGRITY TEST**

Test Method: See attachment  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned certifies that the test was performed on 12/15, 2009 and demonstrated the mechanical integrity of the well. The test was witnessed by James Peterson representing the Office of Oil and Gas.  
Base Petroleum, Inc. 1-14-2010  
Well Operator Date

**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed James Peterson UIC PROGRAM DIRECTOR  
Date 1/21/10

[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].

Base Petroleum, Inc.  
Well Operator  
By: John Blumberg  
Its 1-14-2010 Agent

Left message - Richard Lally  
1. 984-9001  
2. 572-4276 ↗

## Kermit Tyree - Base Petroleum Disposal Well Test

Date - 12/15/09

- no pressure  
change between  
readings  
- o.k.  
39 - 00798

Jones Well - 47-039-00798

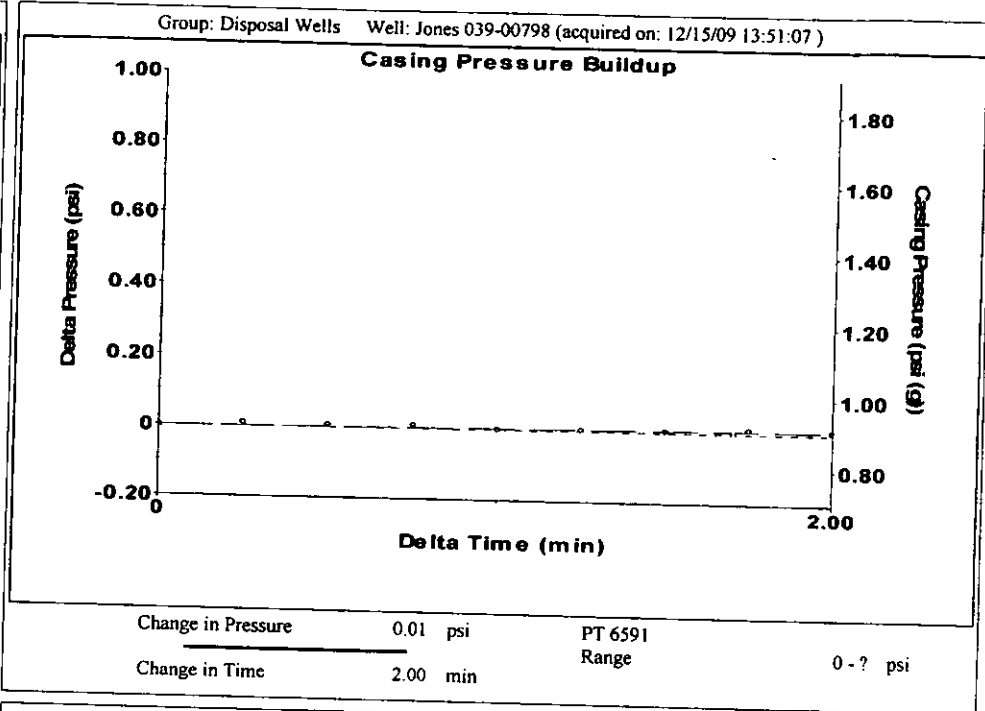
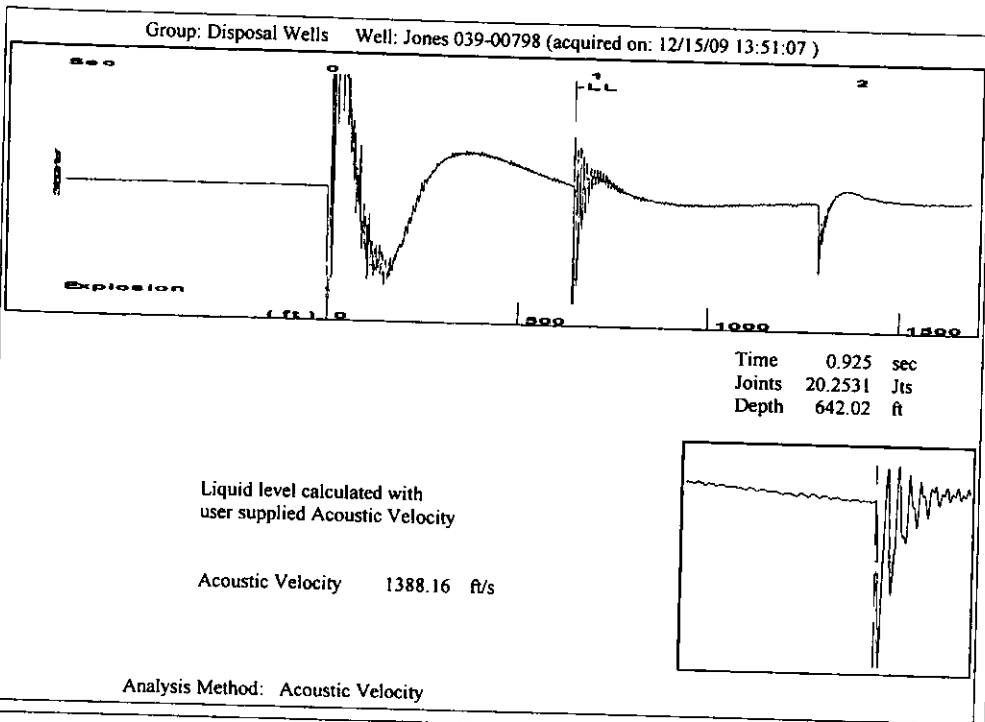
- 8:23 a.m. - Shot fluid level down annulus prior to injecting fluid down 3" tubing
- Shot indicated fluid level @ **638.56'** from surface
- Noted flow meter @ 39951 bbls
- Injected fluid down tubing for 1 hour
  
- 9:23 a.m. - Noted flow meter @ 39953 bbls (total metered fluid @ 2 bbl)
- Closed valves on tubing, Shot second fluid level down annulus
- Shot indicated fluid level @ **641.35'** from surface
- Open tubing valve to Inject fluid
  
- 1:30 p.m. - Arrived on location, fluid was being injecting down tubing
- Closed valves on tubing
- Noted flow meter @ 39957 bbls (total metered fluid @ 4 bbl)
- Shot third fluid level down annulus
- Shot indicated fluid level @ **642.02'** from surface

Note: Used Acoustic Velocity method of fluid depth determination on each shot with a common gas gravity of 0.600.

### Test Summary:

A total of three fluid levels were taken during the Injection test. The total amount of fluid injected during the test was 6 bbls based on the in line flow meter. The first fluid level taken, indicated the fluid level @ 638.56' from surface. After one hour of fluid injection (2 bbl) the second fluid level indicated the fluid level @ 641.35' from surface, a change of 2.79'. The last fluid level was taken after four hours of fluid injection (4 bbls) which indicated the fluid level @ 642.02' from surface, a change of 0.67'. Also during the test, the annulus pressure remained at less than one psi.

39-00798



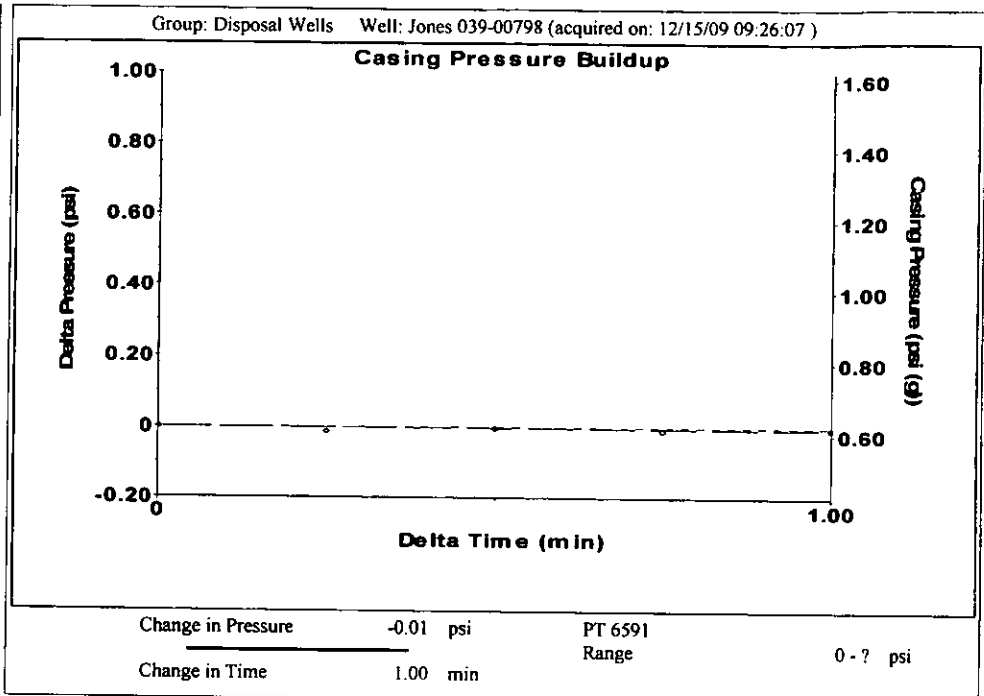
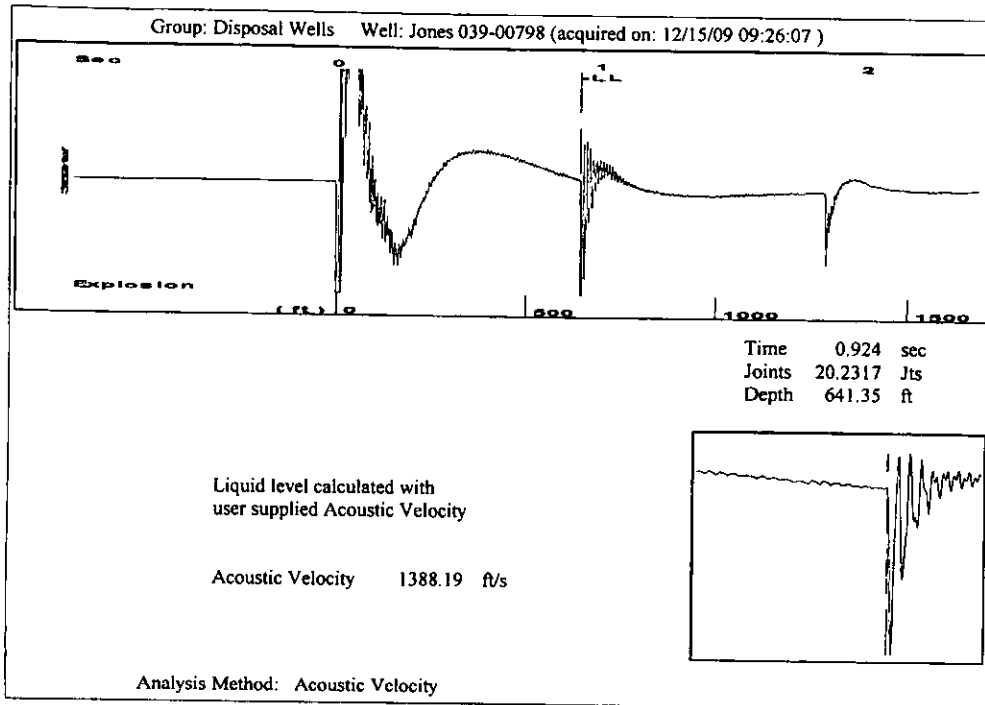
Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 13:51:07)

<b>Production</b>	<b>Potential</b>	<b>Casing Pressure</b>	<b>Producing</b>
Current		0.9 psi (g)	
Oil -*- BBL/D		Casing Pressure Buildup	Annular Gas Flow
Water -*- BBL/D		0.008 psi	0 Mscf/D
Gas -*- Mscf/D		2.00 min	% Liquid
		Gas/Liquid Interface Pressure	100 %
		1.1 psi (g)	
<b>IPR Method</b>	<b>Vogel</b>	<b>Liquid Level Depth</b>	
PBHP/SBHP -*-		642.02 ft	
Production Efficiency 0.0		<b>Tubing Intake Depth</b>	
		1615.00 ft	
Oil 40 deg.API		<b>Formation Depth</b>	
Water 1.05 Sp.Gr.H2O		1615.00 ft	
Gas 0.60 Sp.Gr.AIR			
Acoustic Velocity 1388.16 ft/s			
<b>Formation Submergence</b>			
Total Gaseous Liquid Column HT (TVD)	973 ft		
Equivalent Gas Free Liquid HT (TVD)	973 ft		
Acoustic Test			

Tubing Intake 341.7 psi (g)  
 Producing BHP 341.7 psi (g)  
 Static BHP -\*- psi (g)

Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 13:51:07)

**Entered Acoustic Velocity for Liquid Level depth determination**

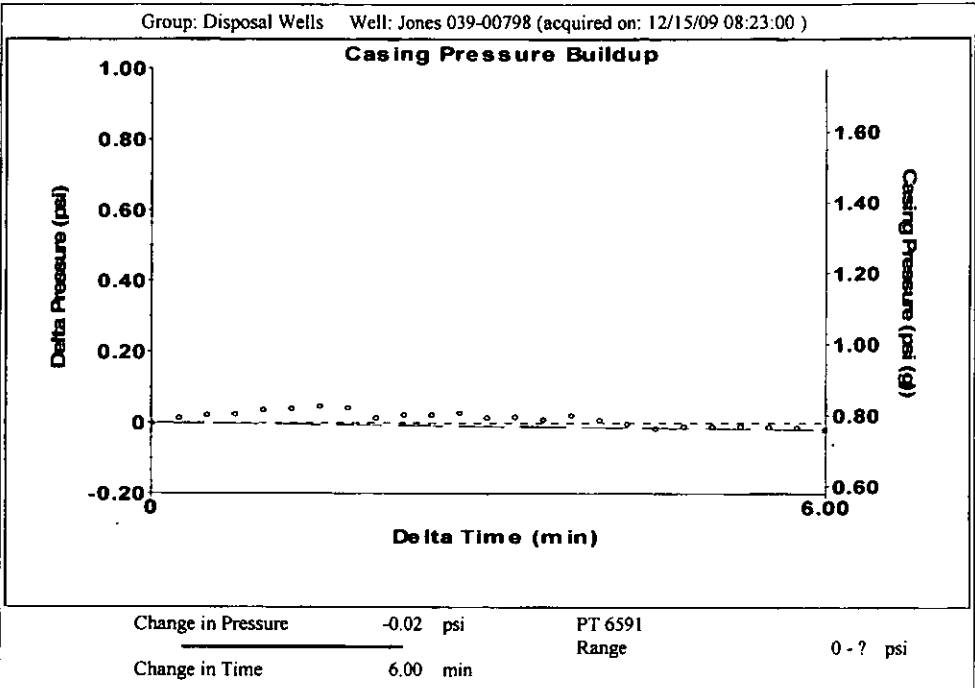
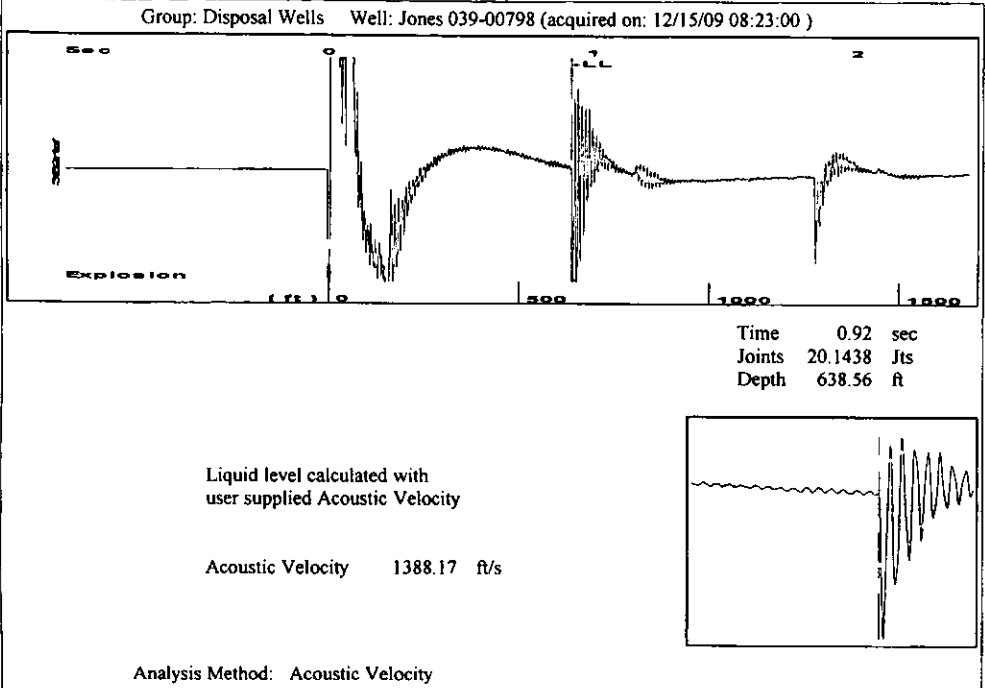


Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 09:26:07)

Production	Potential	Casing Pressure	Producing
Oil - * -	- * - BBL/D	0.6 psi (g)	
Water - * -	- * - BBL/D	Casing Pressure Buildup	Annular
Gas - * -	- * - Mscf/D	-0.006 psi	Gas Flow
		1.00 min	0 Mscf/D
IPR Method	Vogel	Gas/Liquid Interface Pressure	% Liquid
PBHP/SBHP	- * -	0.8 psi (g)	100 %
Production Efficiency	0.0		
		Liquid Level Depth	
Oil 40 deg.API		641.35 ft	
Water 1.05 Sp.Gr.H2O			
Gas 0.60 Sp.Gr.AIR		Tubing Intake Depth	
		1615.00 ft	
Acoustic Velocity 1388.19 ft/s		Formation Depth	
		1615.00 ft	
Formation Submergence		Tubing Intake	
Total Gaseous Liquid Column HT (TVD)	974 ft	341.7 psi (g)	
Equivalent Gas Free Liquid HT (TVD)	974 ft	Producing BHP	
		341.7 psi (g)	
Acoustic Test		Static BHP	
		- * - psi (g)	

Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 09:26:07)

Entered Acoustic Velocity for Liquid Level depth determination



Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 08:23:00)

Production Current	Potential	Casing Pressure	Producing
Oil -*- BBL/D	-*- BBL/D	0.8 psi (g)	Annular Gas Flow
Water -*- BBL/D	-*- BBL/D	Casing Pressure Buildup	0 Mscf/D
Gas -*- Mscf/D	-*- Mscf/D	-0.019 psi	% Liquid
		6.00 min	100 %
IPR Method Vogel		Gas/Liquid Interface Pressure	
PBHP/SBHP -*-		1.0 psi (g)	
Production Efficiency 0.0		Liquid Level Depth	
		638.56 ft	
Oil 40 deg.API		Tubing Intake Depth	
Water 1.05 Sp.Gr.H2O		1615.00 ft	
Gas 0.60 Sp.Gr.AIR		Formation Depth	
Acoustic Velocity 1388.17 ft/s		1615.00 ft	
Formation Submergence		Tubing Intake	
Total Gaseous Liquid Column HT (TVD)	976 ft	342.8 psi (g)	
Equivalent Gas Free Liquid HT (TVD)	976 ft	Producing BHP	
Acoustic Test		342.8 psi (g)	
		Static BHP	
		-*- psi (g)	

Group: Disposal Wells Well: Jones 039-00798 (acquired on: 12/15/09 08:23:00)

**Entered Acoustic Velocity for Liquid Level depth determination**