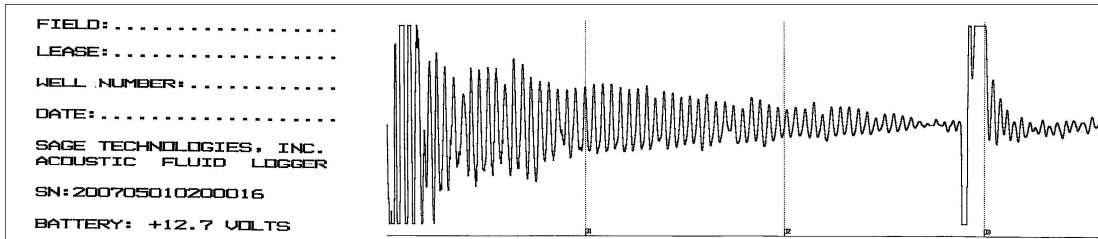


Acoustic Fluid Logger III



AFL III —included components

- Acoustic Fluid Logger III
- Pressure Pulse Gas Gun, 1,500 psi
- 1,500 psi quick-connect gauge
- 200 psi quick-connect gauge for measuring casing pressure
- 11-point dividers
- 2.5 lb. CO² bottle
- CO² Charge hose
- CO² refill adapter
- Carrying case
- 25-ft. microphone cable
- 10 rolls thermal paper
- Wall-mount battery charger
- Spanner wrench, O-rings and maintenance tools
- Operator's manual

Fluid levels with the push of a button

With its simple keypad, the **Acoustic Fluid Logger III** finds fluid levels with the push of a button, without the need for a computer in the field.

Acoustic Fluid Logger III finds the fluid level in a well, then prints out a fluid level tape showing collars and fluid inside the wellbore. A simple count of collars multiplied by the length of tubing joints find the distance to fluid. **One-second Timing Marks** overlay the echo on paper tape to simplify calculating the time to fluid in wells without tubing or when shooting down the tubing. The **Compressed Tape** feature shortens the length of the paper tape echo while retaining the precision timing marks. Compressed tapes can be shortened to 1/2, 1/4 or even 1/8 their original size for a quick check of wellbore fluid.

Using the 1,500 rated **Pressure Pulse Gas Gun** to fire a gas shot which reflects collars and fluid in the well, the AFL III finds readable collars at depths not attainable by other fluid level machines. For further clarity, the AFL III collects **seven increasing amplifications** of the fluid level, which lets you zero in on the collars and fluid level in each well.

Easily identify working fluid levels on oil & gas wells

Sage Technologies, Inc.

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Grapevine, Texas USA 76099

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Acoustic Fluid Logger III



AFL III recorder features:

- Microprocessor based multichannel recorder
- Automatic gain control
- Analog to digital converter, thermal printer, embedded signal acquisition software
- Internal filter network reduces unwanted noise and highlights collar and fluid signals
- Precision one-second timing marks displayed on tape
- Compressed mode shortens tapes to up to one-eighth original size, keeping one-second timing marks
- Tape reprint allows multiple copies of the same tape in field

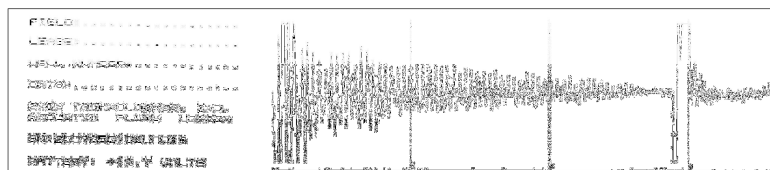
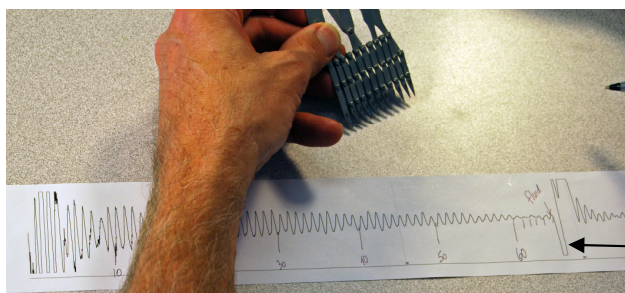


Pressure Pulse Gas Gun features:

- Stainless steel construction for durability; large chamber for accuracy on both deep and shallow wells
- Swagelok quick-connect on top of gun allows easy swap of gauge to check casing pressure
- Stab-in charge hose quickly loads gun with gas
- Load-fire shuttle valve moves side to side to fire the gun
- Standard 2.5 lb. CO₂ bottle delivers about 200 shots; 5 lb. bottles also available
- Optional N₂ connector allow use of compressed nitrogen in extreme cold conditions
- 1,500 psi Pressure Pulse Gas Gun threads directly to 2" line pipe

Shooting a fluid level with the Acoustic Fluid Logger III

- ◇ Thread the Pressure Pulse Gas Gun onto the well-head.
- ◇ Connect the microphone cable from the gas gun to the AFL III recorder.
- ◇ Turn on the recorder, and the header prints on the paper tape, then stops to await the gas shot.
- ◇ Charge the gas gun. Fire the compressed gas shot down annulus or tubing by simply sliding load-fire shuttle valve on gas gun.
- ◇ The gas pulse travels down the wellbore. Reflections return from collars and fluid. AFL III plots collars and fluid as an easy-to-read trace on paper tape.
- ◇ Reprint tape condensed or amplified, as desired.
- ◇ Count the collars in sets of 10 easily with the 11-point dividers. Simply multiply the number of collars by the joint length to find the fluid level depth.



Counting collars with 11-point dividers;
Fluid kick marked on on tape printout

Fluid kick on compressed tape

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