



DATA SHEET

BETSY GUN BFG-1000

THE CLEAR CHOICE FOR HIGH RESOLUTION IN THE NEAR SURFACE

P and S Waves from a single source

- P waves penetrate to over 1km, dominant frequency 80 Hz.
- SV waves provide ~5m resolution in the top 200 m.
- No need for three component sensors.

Safety

- The BFG-1000 is electronically triggered.
- Users stand 20' away during firing.
- You are more likely to be injured using a sledgehammer.
- The BFG-1000 is not considered a firearm by the ATF.
- Blank ammunition is totally legal in the United States.

Superior data

- Clean low frequency surface waves.
- Ideal for MASW or ReMi or DAS applications.
- Consistent surface waves are *easier* to filter out
- Sharpest wavelet of any land seismic source.
- FWI ready - Coherent energy down to 2 Hz.

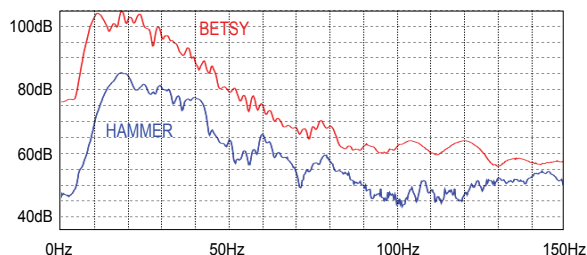
Low Impact

- Designed to minimize environmental impact.
- Only a four inch diameter hole 24" deep is required.
- Sulfur free propellants are environmentally safe.
- Blank ammunition ensures nothing is left behind.

Affordable

- Betsy gun surveys cost less than \$5 per shot point.
- Shot repeat time - 3 minutes for a crew of two.
- Large lease pool accommodates industry-scale surveying
- Betsy guns cost less than \$5000 out the door.
- Available for lease.

Sledgehammer vs. Betsy Gun Spectra



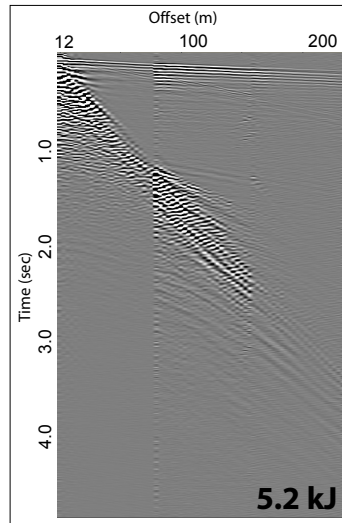
A Leave-No-Trace Seismic Source

The Betsy Gun 1000 series uses a 4 inch diameter 2 foot deep hole and a minimal surface area (4 sq. ft). for operation. Perfect for working in highly sensitive areas. No slug, lead and sulfur free blank ammo.



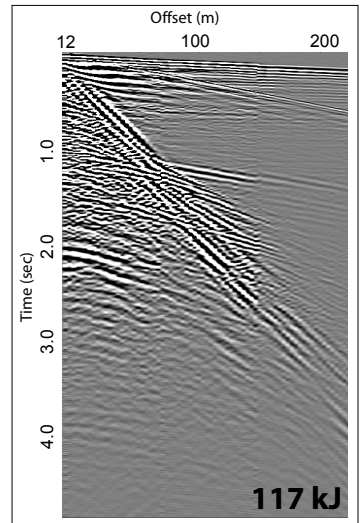
SLEDGEHAMMER

72 channel shot gather - 4 hit stack



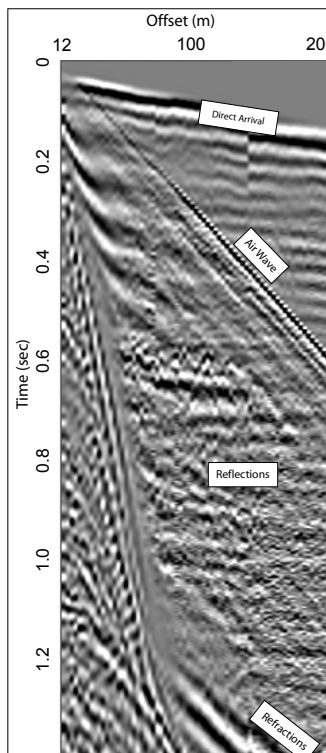
BETSY BFG-1000

72 channel shot gather - single shot



NNO @ P-wave Velocity

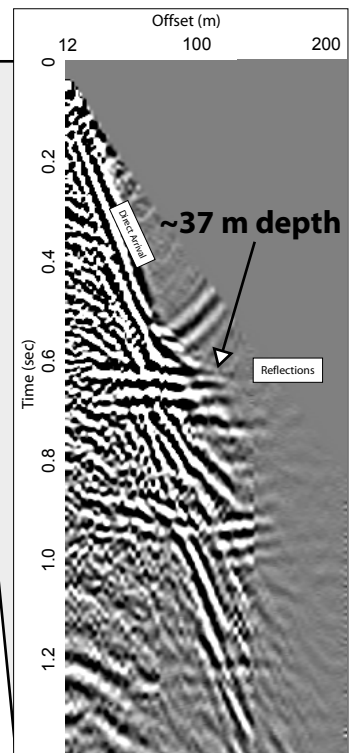
BETSY shot gather with normal moveout correction applied -1500m/s



Approx. 0-1200m depth

NNO @ S-wave Velocity

BETSY shot gather with normal moveout correction applied -125m/s



Approx. 0-85m depth