

Land acquisition

250-300 km long onshore profiles

expected Pn arrival crossover point @ 280 km offset for a 40 km thick crust (Proterozoic ENA)

400 receivers @ 500m receiver interval for 2D tomographic and interface inversion

1000 receivers @ 100m spacing of selected regions for near-vertical incidence methods (stacking/migration)

Total= 1400 receivers

11 1-ton landshots @~30km spacing

20-35 km horizontal resolution of the crustal structure

Dataloggers: Reftek RT 125A

- Single channel
- Physical size: 3.0" diameter, 7.7" length
- Power source: 2 D-cell alkaline batteries
- Sample rate: 25 to 1000 sps
- Storage capacity: 256MB or 512MB
- Inventory: 983 (PASSCAL) - 1700 (FA)



Dataloggers: Reftek RT 130

- 3 or 6 channels
- Physical size: 13.5" x 5.3" x 7.3"
- Power source: 10-16V, ~1.0W
- Sample rate: 1 to 1000 sps
- Storage capacity: CF card dependent, up to 8GB
- Inventory: 468 (PASSCAL) – 405 (FA)



Estimating Costs/Logistics

- Landshots (11 1-ton):
 - ~\$9k/shot (includes drilling, blasting agent, gravel and bentonite, and landowner fee)
 - =~ **\$100,000** (does not include scouting and permitting)
 - Insurance \$40,000 (for one year)
- Deployment:
 - 45 texans/day/team
 - = **30 deployers in 15 teams for 2 days**