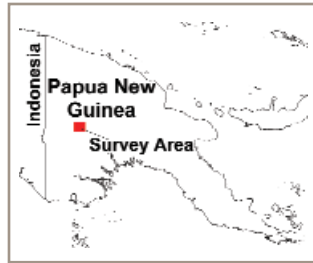


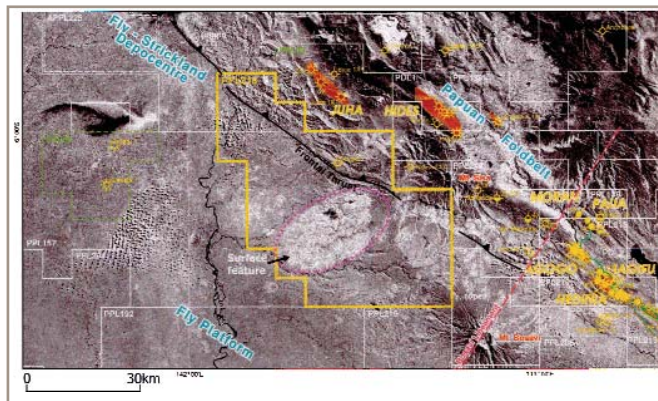


Delineating petroleum potential beneath surface volcanics and thick aquifers

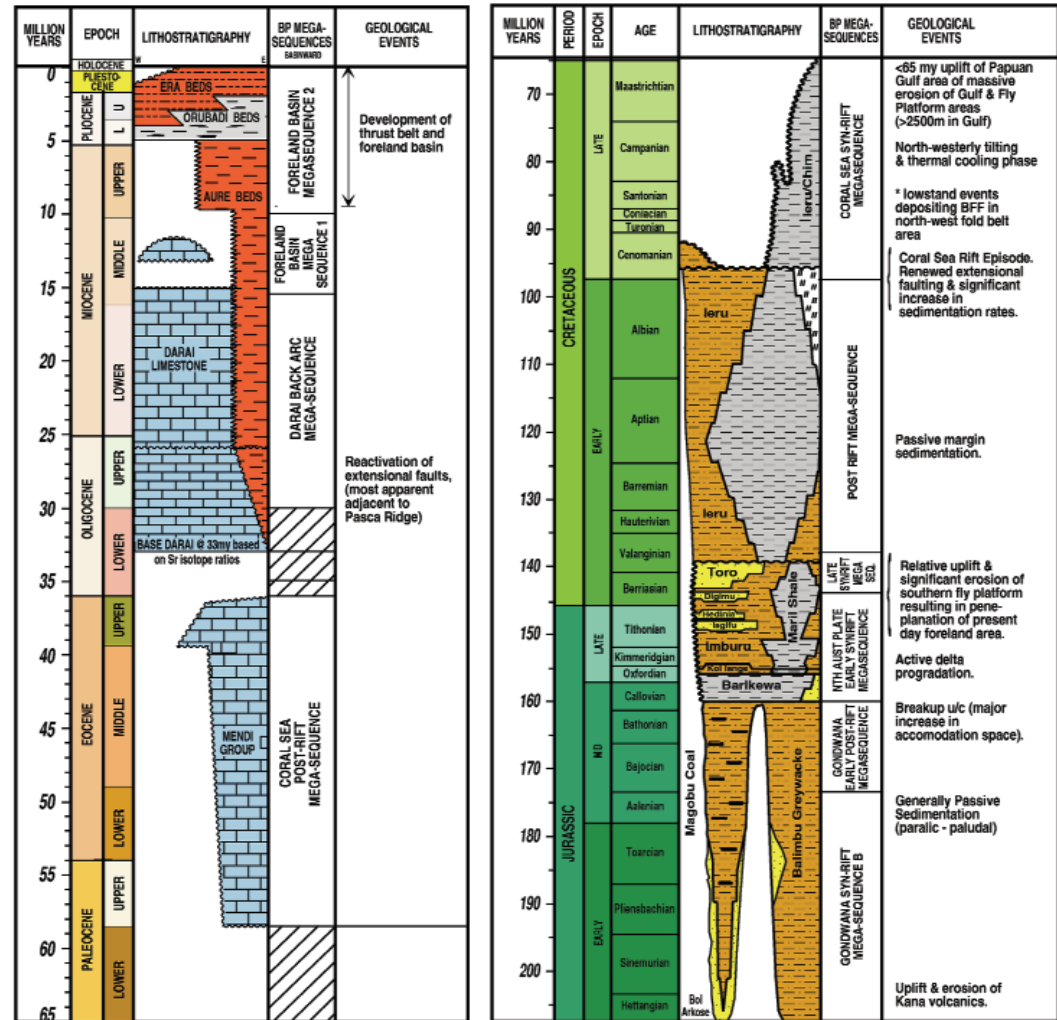
Papua New Guinea, Mogulu Structure



GORE™ Survey Area



Regional Geologic Setting (Image supplied by Oil Search Ltd.)

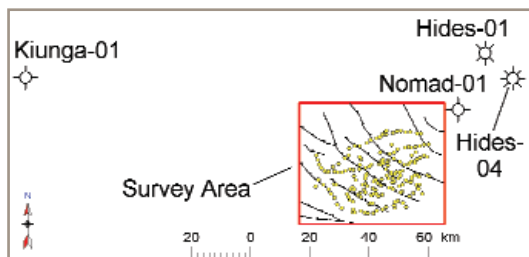


Stratigraphic column Supplied by Oil Search Ltd.)

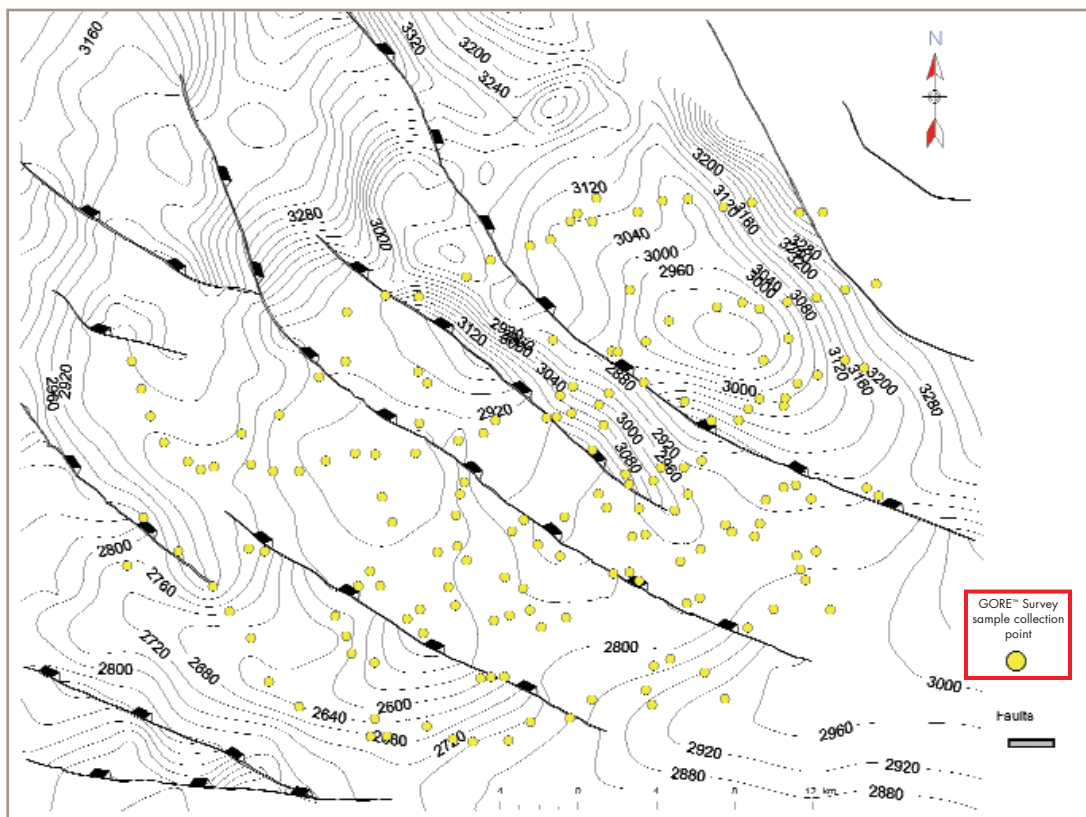
Geology:

- SW edge of Papuan Foldbelt
- Target: Cretaceous Toro Formation, early Mesozoic Sandstone ~3000m depth
- Source is thought to be Jurassic
- Area overlain by ~1200 m volcanics and a limestone aquifer ~ 1000-1500 m thick (Oligocene/Miocene Darai Limestone)
- Target surface feature is a ~900 km² magnetic anomaly
- Poor quality seismic data due to the volcanics
- Area is remote, dense jungle

Delineating petroleum potential beneath surface volcanics and thick aquifers



Map showing model well sites in relation to the GORE™ Survey area

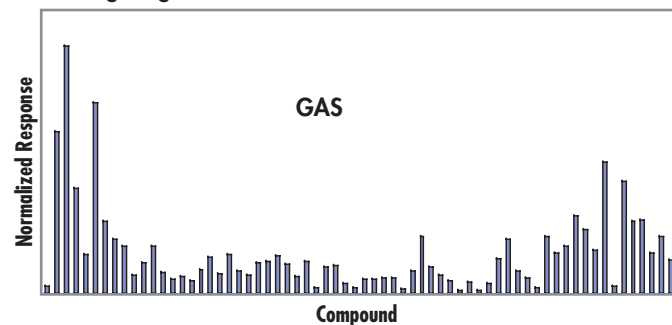


Toro structure map with GORE™ Survey sample locations indicated

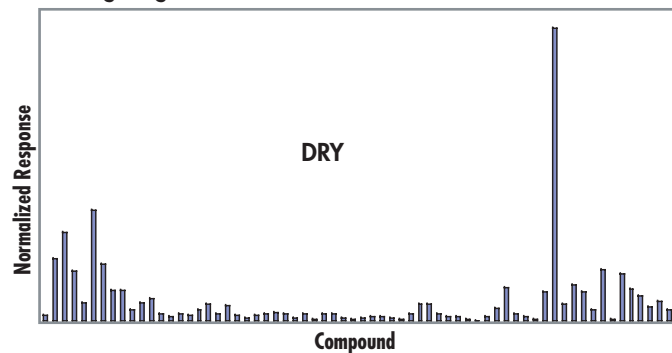
Survey Summary

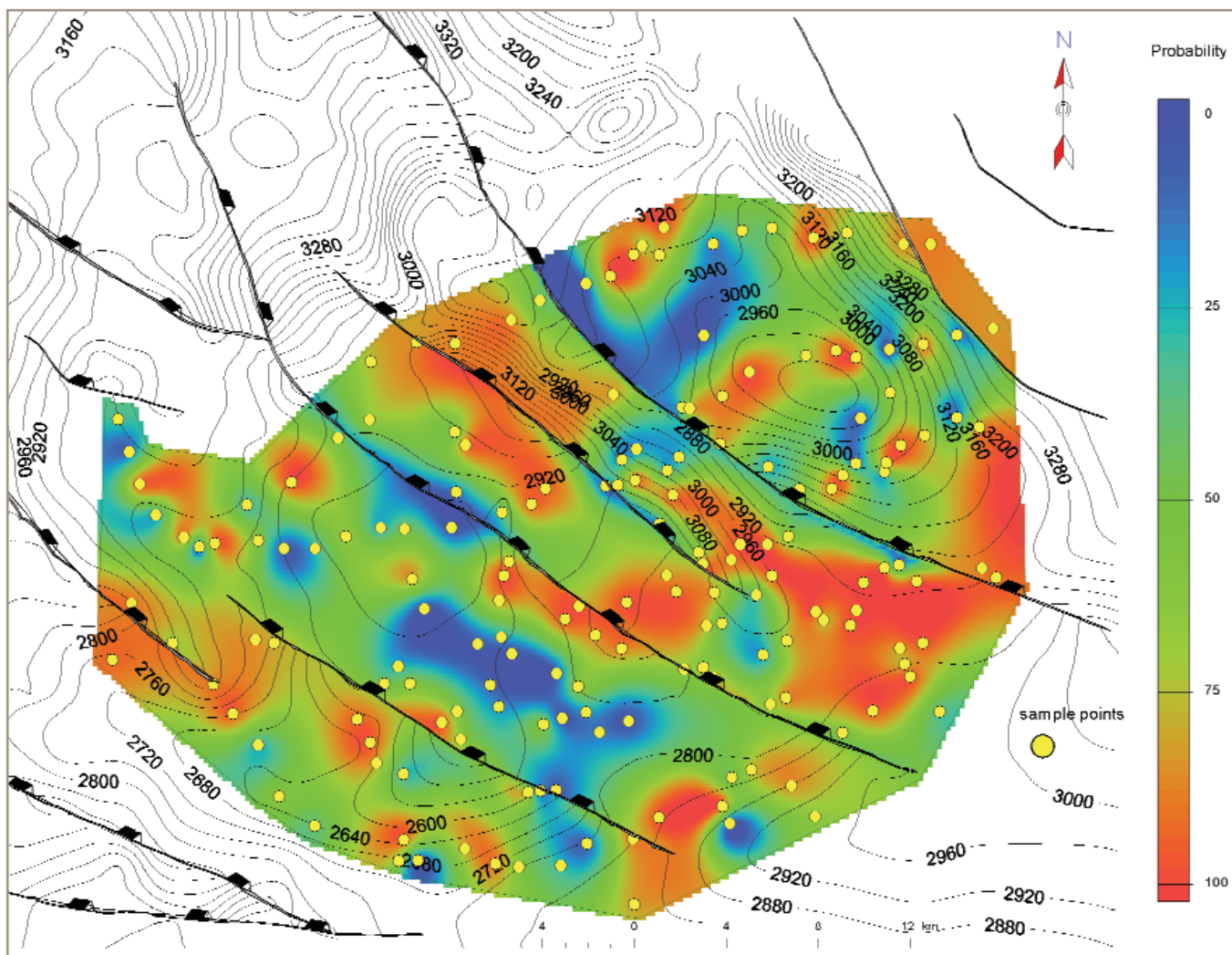
- ~900 km² area
- ~200 grid samples
- Irregular grid pattern with samples spaced 1-2 km apart
- Six model well sites
- The survey area was in rugged terrain and thick jungle with limited access

Average Signature, Hides-01 Well



Average Signature, Nomad-01 Well





Survey Results

- Survey was able to detect hydrocarbon microseepage through thick aquifers and thick volcanic sequences
- Mapped out fault blocks, showing that some fault blocks have more potential than others

GORE™ Survey interpretation over Toro Structure map, with high probability areas for gas showing in red

GORE™ SURVEYS REDUCE RISK – IMPROVE SUCCESS.



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For more information on reducing risk and improving success with GORE™ Surveys, see Potter, R. W. II et al., Significance of Geochemical Anomalies in Hydrocarbon Exploration: One Company's Experience, 1996, AAPG Memoir 66, P. 431 - 439.

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