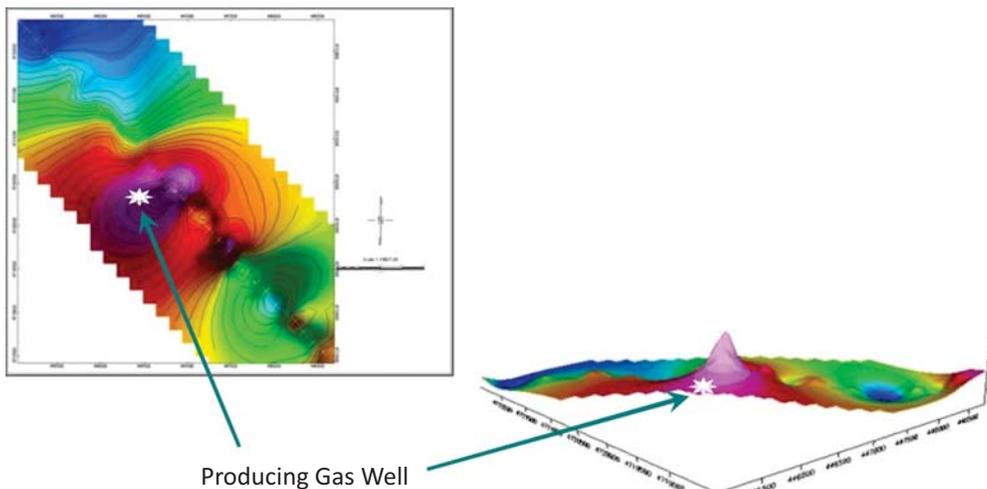


SGH Petroleum Case Studies

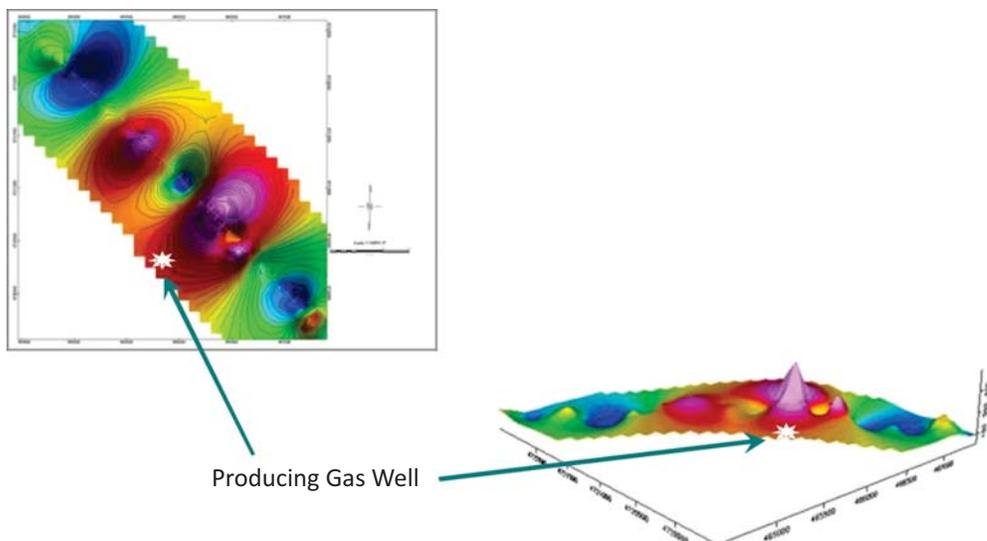
In February 2005 sampling was conducted by Activation Laboratories on behalf of a junior company in South-western Ontario. Some of the sampling locations proved difficult early in this season requiring the use of a pick-axe to penetrate the frozen water-saturated top layer of soil. There were a total of four transects sampled. Two of the initial transects were test lines taken from the road right-of-way in areas adjacent to gas producing wells.

An easily identifiable apical SGH anomaly of light aromatic hydrocarbons was observed as expected in close proximity to two gas wells. The signatures of these “wet-gas” targets were consistent these two orientation studies, and the aromaticity of the wet-gas condensates were consistent to the type and location of the targets. Although these samples were taken within 5 metres of secondary paved roads, there was no interference to the SGH analysis from vehicular deposition that may compromise other types of analyses.



Wet Gas Play - Line A Southern Ontario

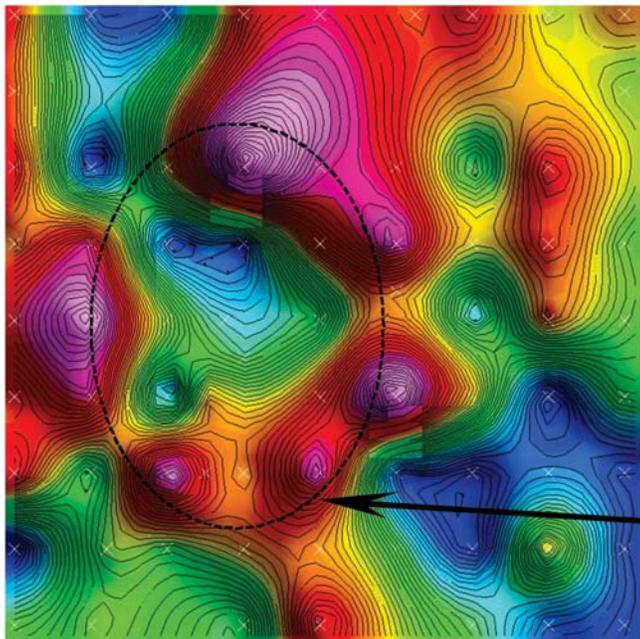
This gas well intersected two zones at 410 m and 535 m in depth that reached down into the Grimsby geological formation. The SGH anomaly was definitive and in close proximity to this producing gas well.



Wet Gas Play - Line C Southern Ontario

SGH anomaly was directly adjacent to this gas producing well from samples taken from the roadside from the same township as for Line A.

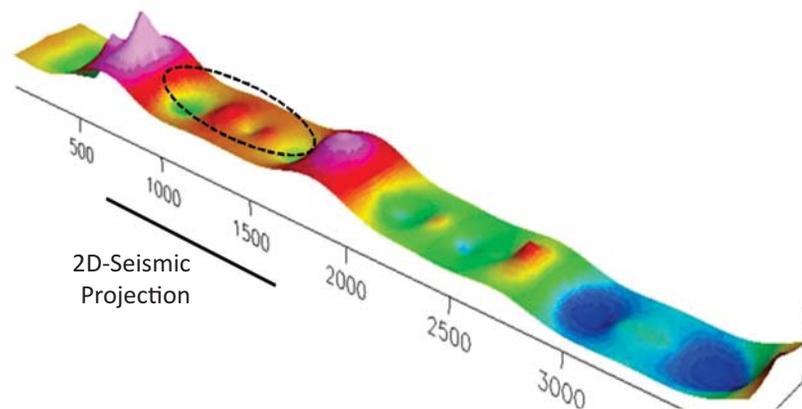
SGH Petroleum Case Studies



Deep Ordovician Oil Pool - Bromhead - SE Saskatchewan
 Host Strata: Lower Mississippian (Visean) Midale and Ratcliffe beds
 Depth = 1,250 to 1,500 metres

The SGH Analysis of a grid of samples resulted in this SGH pathfinder class map for oil plays. These results formed nearly a perfect ring of apical anomalies that are predicting and locating the edge of the REDOX cell that has developed directly over this oil reservoir. This SGH "Halo" feature coincides well with the black oval line interpretation as the boundary of the oil play.

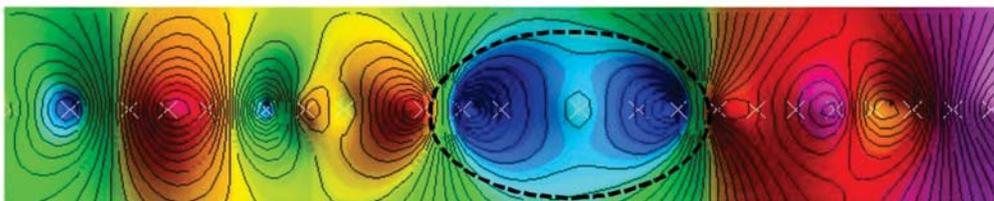
Vertical projection of oil pool boundary



Hensel Graben Gas Play - Wyandot County, Ohio

This SGH "Rabbit-Ear" anomaly was observed from this larger gas reservoir. The SGH anomaly agreed well with 2D-Seismic work predicting the outer edge or boundary of the gas reservoir.

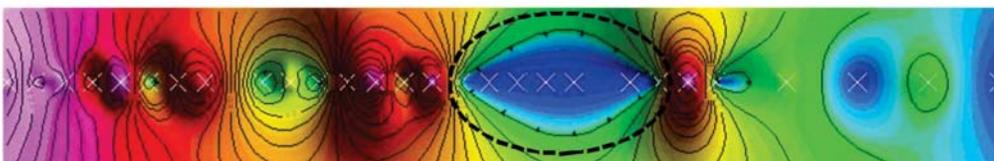
Gas at 1,400-1,500 feet. Well production at 2 mmcfpd; soil samples from roadside right-of-way.



Oil reservoir location

Hillman Oil Field - SW Ontario

Samples from roadside right-of-way.



Oil reservoir location

Clearville Oil Field - SW Ontario

Samples from roadside right-of-way.