

SKY HUNTER 

Predicting the presence of oil and natural gas

Case Study

Displaying Repeatable Results



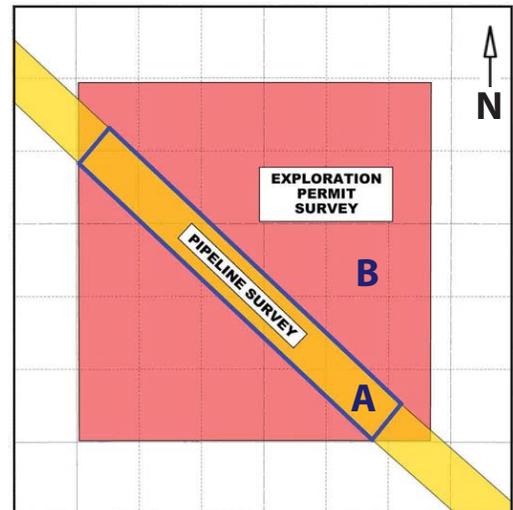
NEW SOUTH WALES, AUSTRALIA

REPEATABLE RESULTS

Periodically, Sky Hunter's technology is faced with questions of repeatability. Will the high signal-strength areas of a survey continue to show as high-signal strength at a different time, or when flown in a different direction?

In 2003, Sky Hunter flew a survey along a pipeline route (A) in New South Wales, Australia. Another completely separate survey (B) was flown more than two years later for a parcel of land that overlapped the pipeline route.

When the results of each survey are combined, it is evident that hot spots show up in the same areas.



PIPELINE SURVEY 2003

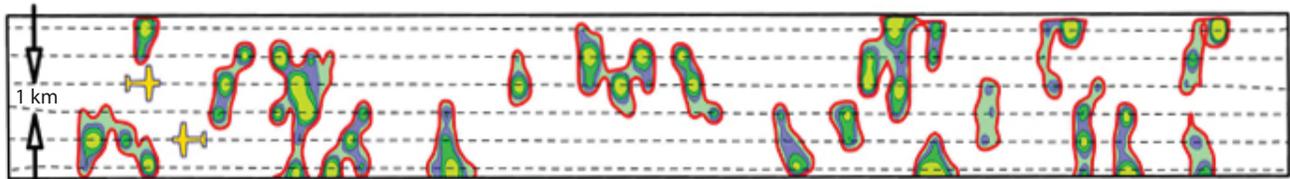


Image A shows the top 25% of hydrocarbon microseep signal strength for a segment of a pipeline route survey completed in 2003.

EXPLORATION PERMIT SURVEY 2005

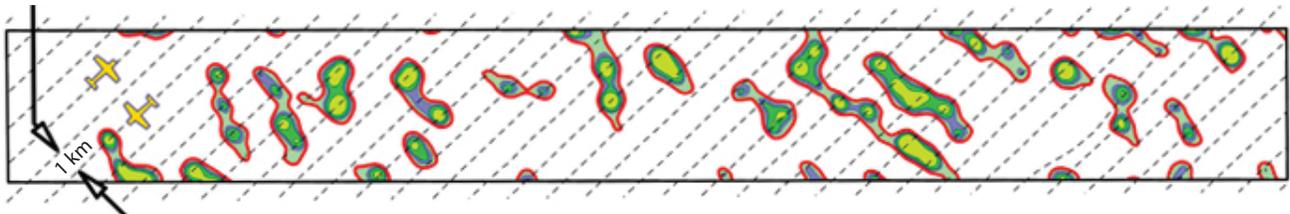


Image B shows the top 25% of hydrocarbon microseep signal strength for the overlapping portion of a completely separate survey flown over an exploration license two years later, at a different angle.

2003 DATA COMBINED WITH 2005 DATA

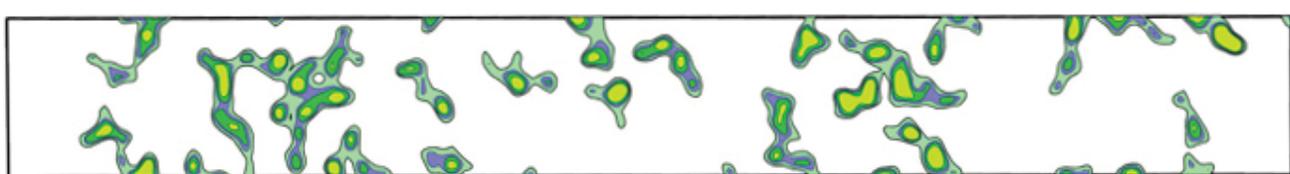


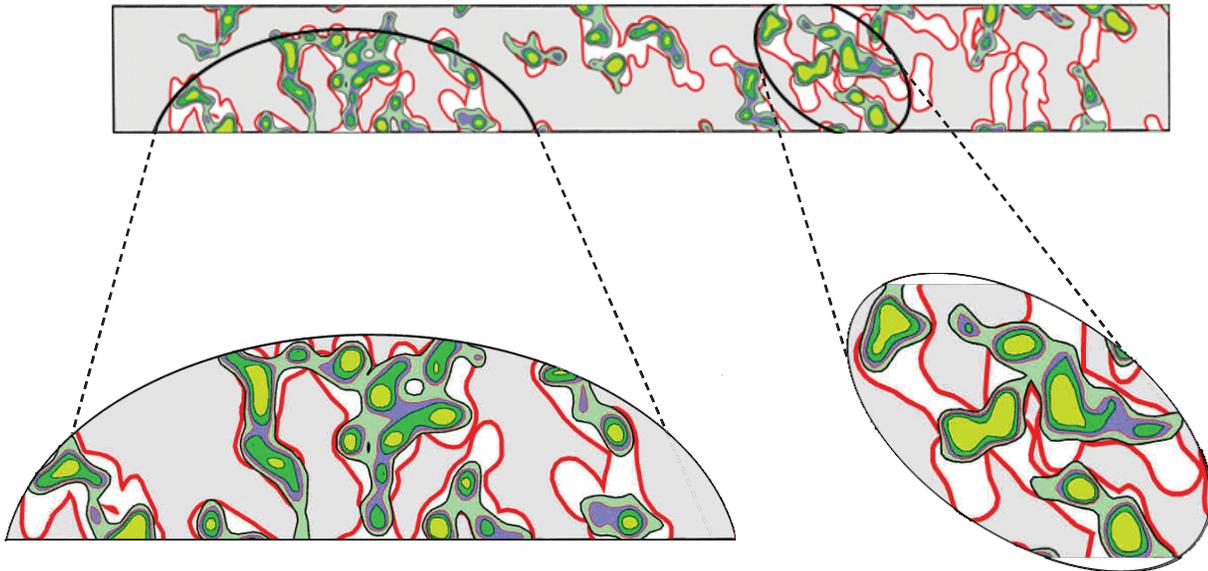
Image C shows processed data from combining both the 2003 survey (A) and the 2005 survey (B).





AREAS OF STRONG SIGNAL STRENGTH USING COMBINED DATA

The two areas highlighted in the pullouts below show the strong microseep signals come from the same regions for both surveys. The grey areas on the map indicate low signal strength in either of the original surveys, while the green areas correspond with the areas highlighted by the combined data.



NEXT STEP: Apply area geological knowledge

LEGEND:

- FLIGHT LINES
-  OIL (RICH GAS) MICROSEEP FOOTPRINTS > 1 KM²
TOP 25% OF SIGNAL STRENGTH
-  TOP 15% OF SIGNAL STRENGTH
-  TOP 10% OF SIGNAL STRENGTH
-  TOP 5% OF SIGNAL STRENGTH
-  AREAS OF STRONG SIGNAL STRENGTH
FROM EITHER THE 2003 OR 2005 SURVEYS



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Sky Hunter Exploration is a Calgary, Canada-based company that provides a valuable exploration tool to oil and gas companies worldwide. Sky Hunter uses proprietary technology to conduct airborne surveys that map microseep data. In turn, this data predicts the presence of pressurized hydrocarbon reservoirs for further exploration, development and production by traditional methods.

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