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Investor Presentation

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Black Ridge Mining NL (ASX : BRD) through its wholly owned subsidiary, Oil & Gas SE Pty Ltd, has obtained Exclusive Rights to acquire and operate advanced oil and gas seismoelectric exploration technology for the regions of Australia, Indonesia, Thailand, Malaysia, Myanmar and Cambodia.

The technology is designed in the United States (US) by PetroLocate and the operating unit is known as the PL14. The new generation of seismoelectric technology contained in the PL14 (Patent Pending Pub. No: US2014/0111207 A1) represents a significant advancement in technology enabling detection of mobile resistive fluid (oil, gas, fresh water) filled formations to depths of up to 3,000m.

The development of the PL14 technology has enabled the unit to receive a substantially higher signal to noise ratio than its predecessors. This is critical in producing a more reliable and respectable signal.





The PL14 represents major advances over the original seismoelectric technology and represents the next generation of oil and gas exploration equipment of this type, with impressive results emerging out of the US.

THE PL14:

- Can image mobile resistive fluids (oil, gas, and fresh water) to depths of up to 3,000m.
- Is designed specifically for detecting electrical signals generated by the passage of a seismic impulse wave through soil and rock profiles.
- Is a cost effective way to geophysically test and reduce the risk on undrilled oil and gas locations.
- Is a portable operating unit, robust and extremely mobile and is able to be operated in rugged and difficult terrain and environmentally sensitive areas.
- Leaves a very light footprint and is therefore an environmental friendly way to geophysically test undrilled locations.

The advanced technology is demonstrating to be an important instrument in assisting and identifying hydrocarbon targets within the oil and gas industry.



SeismoElectric Surveys using the advanced PL14 technology can be used to define productive zones in existing fields as well as in wildcat areas, calibration to similar geology and existing fields will always result in more accurate and reliable results.

USES OF PL14:

- As a standalone hydrocarbon indicator tool to source oil and gas resources within existing fields and reducing the risk of drilling non-productive wells.
- In conjunction with more traditional exploration and seismic data as an additional tool for risk reduction.

RESULTS OF PL14 CAN:

- Determine the depth and extent of hydrocarbon reservoirs.
- Qualitatively characterize the hydrological properties of a hydrocarbon reservoir (possibly more quantitatively in a well calibrated field).
- Effectively place wells to maximize the chance of success or chance of production.
- Reduce the risk of undrilled prospects or field extensions.
- Rank a portfolio of prospects, leads or well locations.



SE Signal, mV -0.0005 -0.0004 -0.0003 -0.0002 -0.0001 0 0.0001 0.0002 0.0003 0.0004 0.0005

New PL14 seismoelectric exploration unit operator Texoma Exploration has been involved in nine oil exploration programs to date using the PetroLocate technology. After testing exploration sites with the PL14, Texoma, identified six wells as having enough oil for economical extraction from a vertical oil well and 3 wells that did not have economic hydrocarbons as confirmed by the PL14.



PL14 2D SEISMOELECTRIC MODELS OF OIL PLAYS



North Texas Exploration The adjacent profile predicts an oil and gas zone from approximately 1,200m to 1,500m. Depth (m) A well was completed in May 2014 to around 1,500m with the operator reporting good producing zones being penetrated.





The area in red transitioning to yellow represents the productive zone.

The water bearing zone above 150m was ignored for the purpose of effective modeling.

The profile defines the extent of the known producing oil zone as proven by drilling.

Distance (m)

Distance (m)



- Oil and gas discovery opportunities within Australia, Indonesia, Myanmar, Thailand, Cambodia and Malaysia are substantial and the Company will be sourcing partnership and joint venture opportunities within these countries.
- A PL14 exploration survey is an affordable, low environmental impact, geophysical alternative for oil and gas exploration companies.
- The PL14 is able to help rank an oil and gas companies drilling portfolio in order to reduce the risk and expense of drilling a dry or unproductive well.



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