

PARETO CONFERENCE EMGS UPDATE.

Oslo, 13 September 2017 CEO Christiaan Vermeijden

Spot the difference.

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emgs

Marine EM / CSEM method

Passive source (MT)

Brine

Natural EM field generated by the interaction of solar wind with the Magnetosphere

Active source (CSEM) Horizontal electric dipole (HED)

Acquisition

Water depth ~ 10 - 3500m

CSEM sensitivity

Typically 0 – 4000 m BML (mainly depending of size of target)

MT sensitivity

0 - 15000m **BML**

Multi-component EM seabed receiver Electric and magnetic field sensors

Result

Integrated interpretation of seismic and EM improves exploration outcomes and reduces risk

Less brine

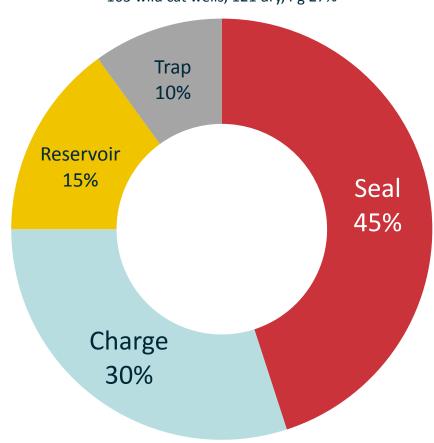
De-risking offshore exploration

- Most offshore exploration wells fail to find commercial volumes of hydrocarbons
- The primary reason for failure is lack of seal and charge

	Trap					
	Structural	Strat.	Reservoir	Charge	Seal	Volumes
3D Seismic						
3D CSEM						

Post drilling failure analysis from a supermajor





Putting CSEM at work....

THE EXPLORATION CHALLENGE:

Risk

Costs

Long term economic value



Poor understanding of the presence of hydrocarbons and volume

Limited opportunities to differentiate between AVO prospects

CSEM VALUE PROPOSITION:

Indicator of the absence of brine
Indirect indicator of the presence of hydrocarbons
... or other geological features



SEISMIC: poor understanding of the fluid content

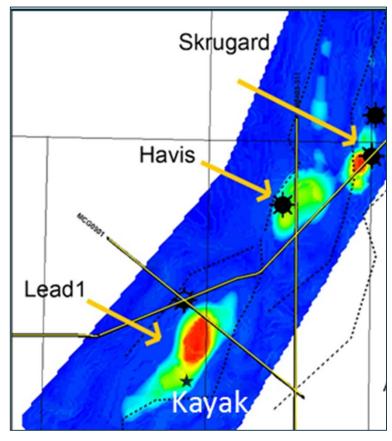
CSEM: ability to differentiate hydrocarbons from water in a reservoir



Pitfalls:

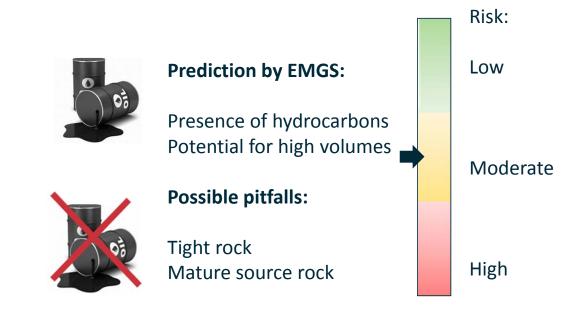
- Tight rock (e.g. salt)
- Mature source rock (oil-shale)
- Fresh water
- Others

Kayak: Well prediction by EMGS

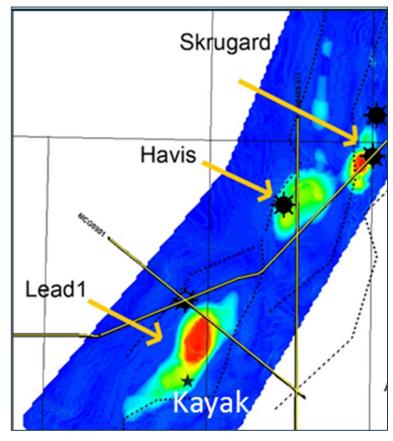


First Break, 2013

- CSEM supported or driven well
- High risk due to a new / risky play
- Strong and large anomaly observed in data (published in First Break in 2013)



Kayak: Well result



First Break, 2013

As reported:

- Oil discovery
- Proved a new play
- Minimum volume is 50 MMBL (recoverable oil)
- Discovery needs to be appraised



Prediction lookback:

Presence of hydrocarbons
Potential volumes to be appraised



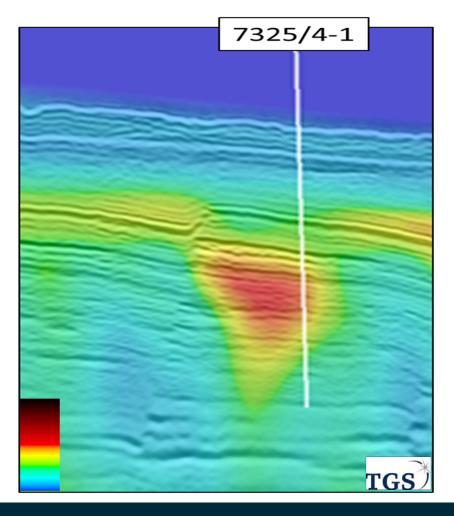


Possible pitfalls:

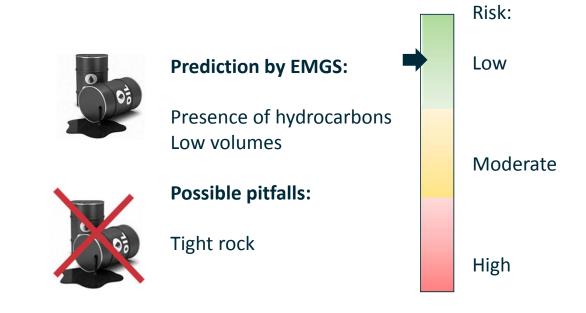
Tight rock
Mature source rock



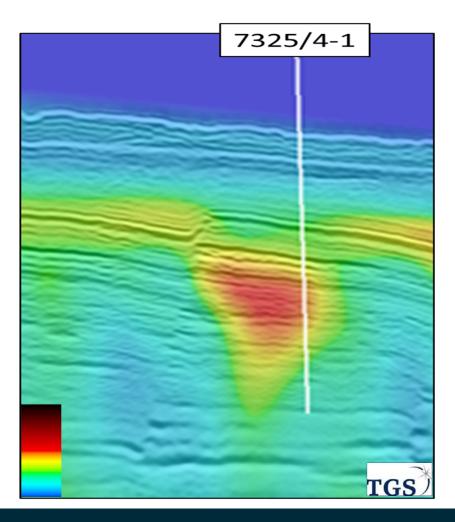
Gemini North: Well prediction by EMGS



- CSEM supported well
- Good track record on risking similar plays
- Seismic DHI in combination with a resistive anomaly



Gemini North: Well result



As reported:

- Gas discovery
- Small non commercial volumes



Prediction lookback:

Presence of hydrocarbons Low volumes



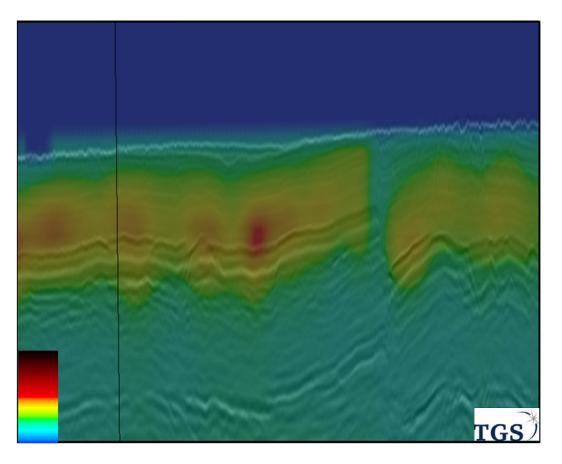


Possible pitfalls:

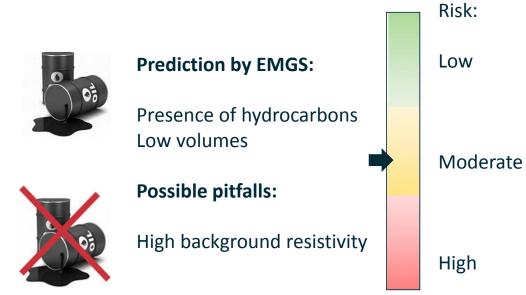
Resolved



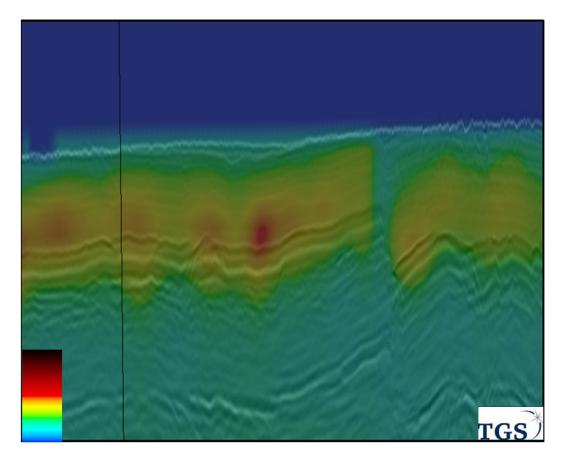
Korpfjell: Well prediction of shallow section by EMGS



- Seismic suggests the presence of a large volume of hydrocarbons
- Large volumes in shallow section not supported by CSEM
- CSEM data could be explained by small oil or gas accumulations



Korpfjell: Well result (1st well / shallow well)



As reported:

- Gas discovery
- Much smaller volumes reported than anticipated by seismic



Prediction lookback:

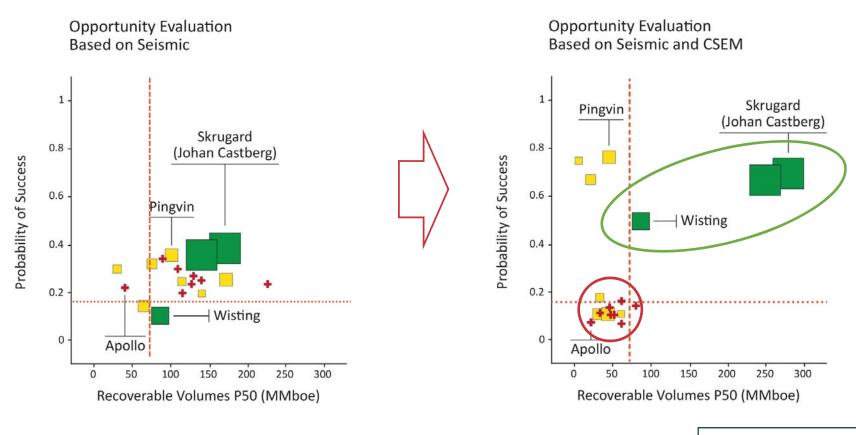
Presence of hydrocarbons Low volumes



Possible pitfalls:



Assisting with portfolio evaluation: Barents example



Discovered Contingent Resources P50 (MMboe)

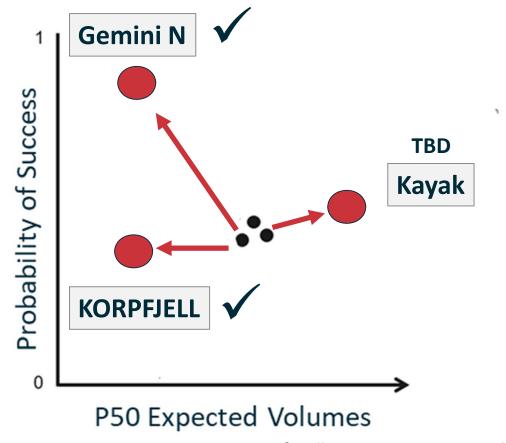
----- Minimum Risk Tolerance
----- Minimum Economic Field Size

Technical Reference:

Zweidler, D, D Baltar and N Barker, 2015, Additional data helps investment decisions. AAPG Explorer, November, 42-43.

Consistent use of CSEM on a prospect portfolio

- 80% (4x) correct predictions in 2017 so far based on CSEM data: Filicudi, Kayak, Gemini North, Korpfjell
- 20% (1x) incorrect prediction in 2017 based on CSEM data: Blåmann (small gas discovery).
 Limited access to seismic data
- Polarizing an oil company's prospect portfolio provides for improved decision making and the potential to increase the return on investment



for illustrative purpose only

It get's even better: Deep Blue Source installed and in use

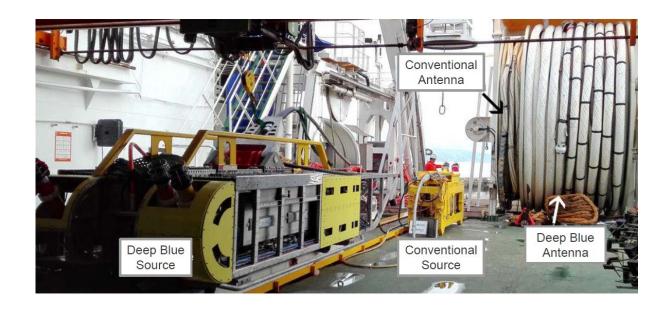
Commercial source system installed

- First commercial survey started in July
- Survey completed as planned
- Results to be delivered

Depth below mud line (km)

Deep Blue enables detection of deeper and smaller targets

- High current output (up to 10,000 A)
- High accuracy of output signal, positioning and timing
- Depth rating for 4km water depth

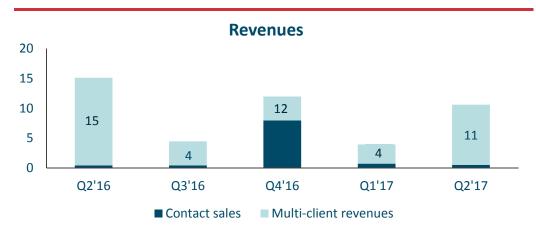


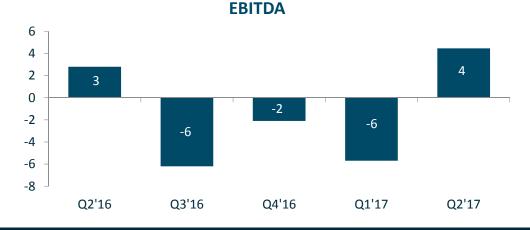
Q2 Performance | Increase in revenues and EBITDA

Key financial metrics

- Revenues
 - USD 10.6 million
 - Mainly multi-client revenues in Norway
- EBITDA
 - USD 4.5 million
 - Positively impacted by increase in revenues and reduced costs
- Vessel utilisation of 85% of one vessel
 - Prefunded multi-client projects in the Barents Sea

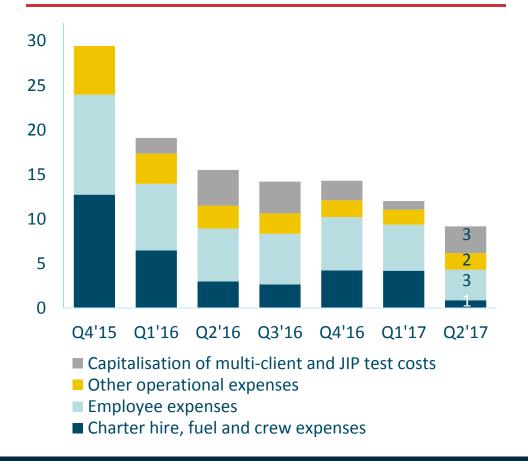
Quarterly development (USD million)





Q2 Cost Base update | Reduced operational costs

Quarterly operational cost base development* (USD million)



Comments

- Operational costs base of USD 9.2 million
 - Capitalised multi-client and JIP test expenses of USD
 3.0 million
 - Vessel lease expenses for one vessel (Atlantic Guardian)
 - Cost control
 - Cost control continues in 2017
 - Target the 2017 cost base below USD 50 million, subject to operational activity

^{*}Cost base is defined as Operational costs (charter hire etc, employee expenses, other operating expenses) plus MC investments, less provision for onerous contract, restructuring charges and other extraordinary items

- Work awarded in Q2 2017 will keep the Guardian busy into Q4 2017
- Prospects are being developed to put Thalassa back at work during Q4 2017

Comments

- The market is supported by a relatively stable oil price (around USD 50 per barrel) when compared to 2016
- Initial market analysis reports caution another year of subdued spending in 2018.

