

**DEVEX 2015 Field Trip - Old Red Sandstone Sections & Reservoir Analogues NE of Arbroath**  
*Kindly Supported by INTEGRATED SEDIMENTOLOGY Ltd*

***Please note due to insurance requirements the Field Trip is only open to PESGB members. Please ensure you have your membership card to show on arrival.***

**Date:** Friday 22<sup>nd</sup> May 2015

**Time:** 08:00 – Approx 17:00  
Start and finish from outside Art Gallery, Schoolhill, Aberdeen City Centre.

**Leader:** Doug Boyd, Integrated Sedimentology Ltd  
**HSE Lead:** TBC

### **Field Trip Details:**

From Schoolhill the trip will visit the Iron Mountain Core Store to view and discuss a range of cores and facies types from the Clair Field reservoir (Devonian Old Red Sandstone), west of Shetland. Particular emphasis will be placed on what can be observed and inferred from horizontal core, of which Clair has a range. Following the core store visit, delegates will travel by coach to Arbroath.

Superbly exposed cliff and foreshore sections along the coastal path running NE of Arbroath allow sedimentological, stratigraphic and structural features of the Devonian Old Red Sandstone to be examined. Unconformable and faulted relationships between the Lower ORS and Upper ORS are evident. A wide range of sedimentological textures and structures can be seen, dominantly fluvial but arguably with other non-marine facies too. A variety of fractures and faults are also well developed.

The small scale variability of the ORS sedimentology and the development of faults and fractures will doubtless catalyse consideration of subsurface issues in Devonian reservoir fields such as Clair and in other ORS reservoir targets, and link back to the cores seen earlier in the day. Discussions of scales, of lateral and vertical trends, of matrix and fracture system flow characteristics and interaction, and of modelling approaches are all likely to develop.

The trip will be led by Doug Boyd, a consulting sedimentologist with Integrated Sedimentology Ltd which he set up in 2003 after ~20 years in a wide range of sedimentological roles in BP. Doug has been closely involved with Clair appraisal since 2006.

**Dress code:** Appropriate walking boots with ankle support and good tread and waterproof clothing (a set of waterproof coat/jacket and trousers) are required. Anyone not dressed appropriately will not be allowed to attend due to health and safety. The excursion involves fairly easy walking on path and shore but participants should be aware that it may be slippery in the intertidal zone.

**Materials:** Any required hand-outs/materials will be distributed by Doug at the start of the field trip. PPE (hard hats and high visibility vests) will be distributed where appropriate and must be worn when instructed to do so by the HSE lead.

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The logo for DEVEX 2015 is displayed in white, bold, sans-serif capital letters on a solid blue rectangular background.

**Directions:** Coach/minibus transport will be provided for the duration of the field trip – departing and dropping off at Schoolhill (outside the Art Gallery) in Aberdeen City Centre.

## **Car**

**Parking:** Various public car parking is available in the city centre of Aberdeen including [Union Square](#) shopping centre. Please visit the Aberdeen City Council [website](#) for further information.

**Lunch:** Delegates should bring their own packed lunch, snacks, drinks etc.

**Dinner:** An optional dinner will be arranged in Aberdeen City Centre following drop off by the coach. Details are to be confirmed and dinner will be at delegate's own expense.

**Cost:** Standard rate: £50 plus VAT (lunch and dinner at delegate's own expense)  
Student rate: £30 plus VAT (lunch and dinner at delegate's own expense)

**Availability:** Please be advised there is a maximum capacity of 16 people for this trip, so please book early to avoid disappointment.

## **Field Trip Timeline:**

- 08:00 Delegates picked up by coach at Schoolhill (outside the Art Gallery), Aberdeen City Centre.
- 08:45 Arrival of delegates at Iron Mountain Core Store for viewing of Clair field horizontal cores.
- 10:15 Departure from Iron Mountain by coach.
- 11:45 Arrival in Arbroath – Geological introduction and safety briefing, examination Of tide dependent section
- 13:00 Packed lunches (delegates to bring their own)
- 14:00 Field Trip continues with localities which do not require low tide.
- 15.45 Departure from Arbroath by coach
- 17:00 Arrival at Schoolhill, Aberdeen City Centre. Optional social dinner for delegates (details TBC)

## **PESGB Membership:**

If you would like to attend the Field Trip and do not have a PESGB membership you are welcome to apply at:

<http://www.pesgb.org.uk/pesgb/pages/membership/joining-society>.