

Isobel Clark Bsc Msc DIC PhD DipEdBr FIOM3 FSAIMM ex-FAusIMM

Isobel Clark grew up in the 1960s, thinking she was a scientist. After joining the teaching staff at the Royal School of Mines in 1971, she realised that her true skills were in mining engineering. During 11 years at the RSM, she built up a consulting business specialising in "ore reserve estimation". At the end of 1982, Geostokos Limited was born at a party on Hogmanay. Since then, Isobel has consulted and/or taught on most continents in minerals ranging from coal to diamonds.

She has been various kinds of visiting professor at Camborne School of Mines, Witwatersrand University and the University of Johannesburg. In recent years (pre-covid!), Isobel spends half her time in Southern Africa and the rest where-ever the work is.

In 2023, Isobel has broken the habit of a lifetime and joined the organising committee of the new and innovative Mineral Resource Estimation conference.



Isobel Clark

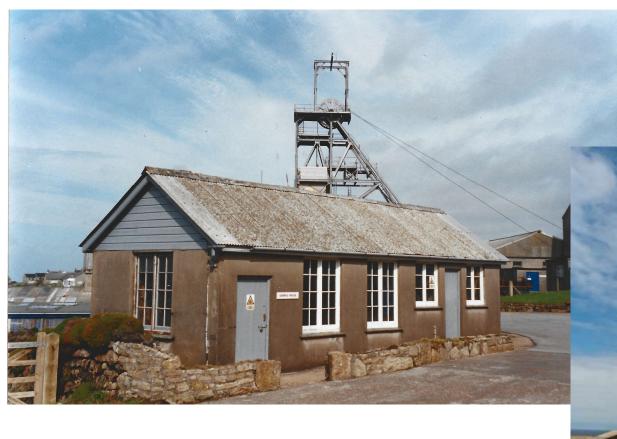








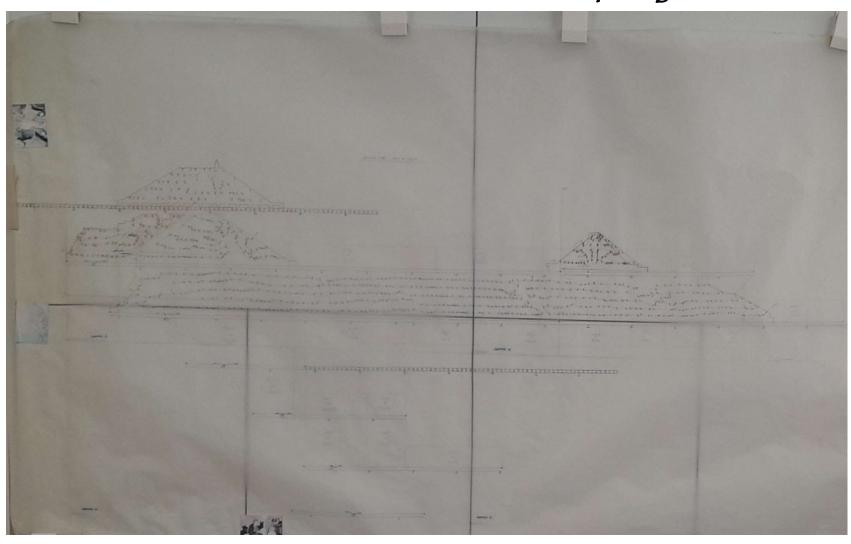
Isobel Clark 1972 - Geevor Tin Mines Ltd, Cornwall

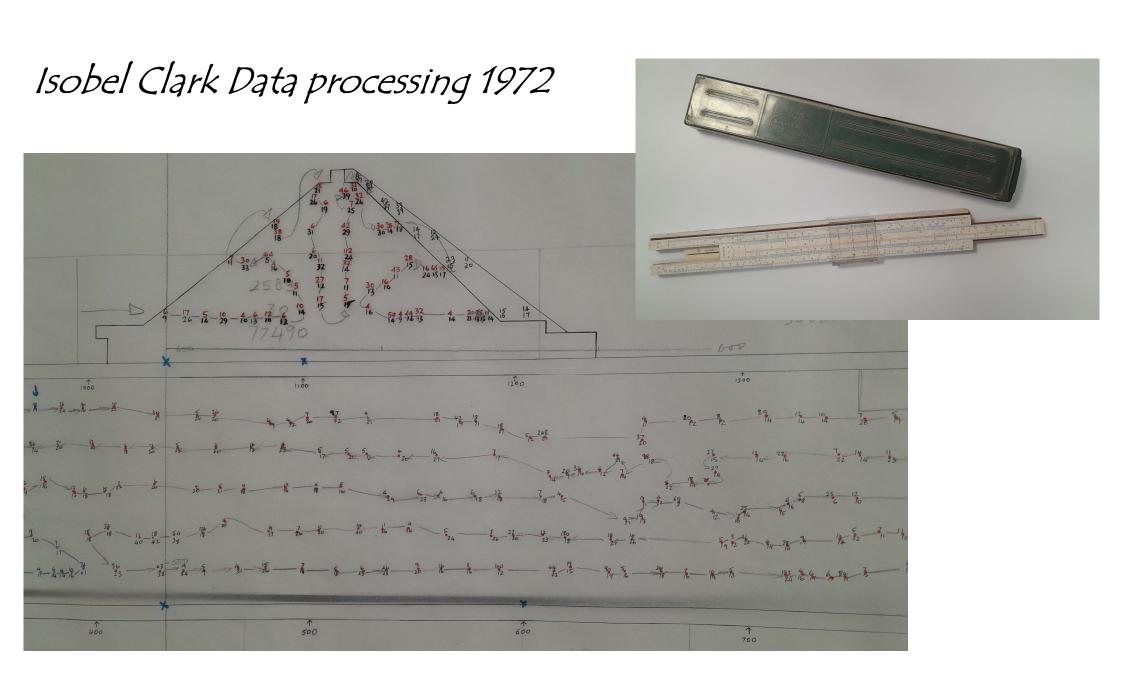


Victory Shaft

Sampling shed

Isobel Clark hand traced section sampling 1972

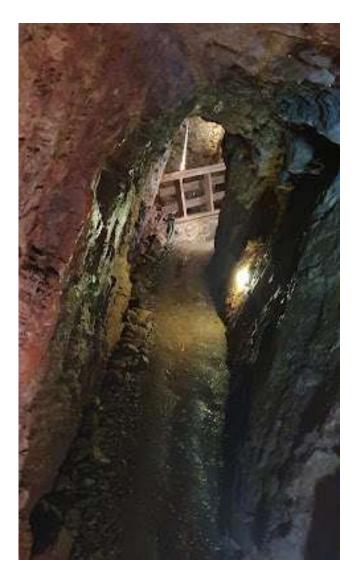




Isobel Clark

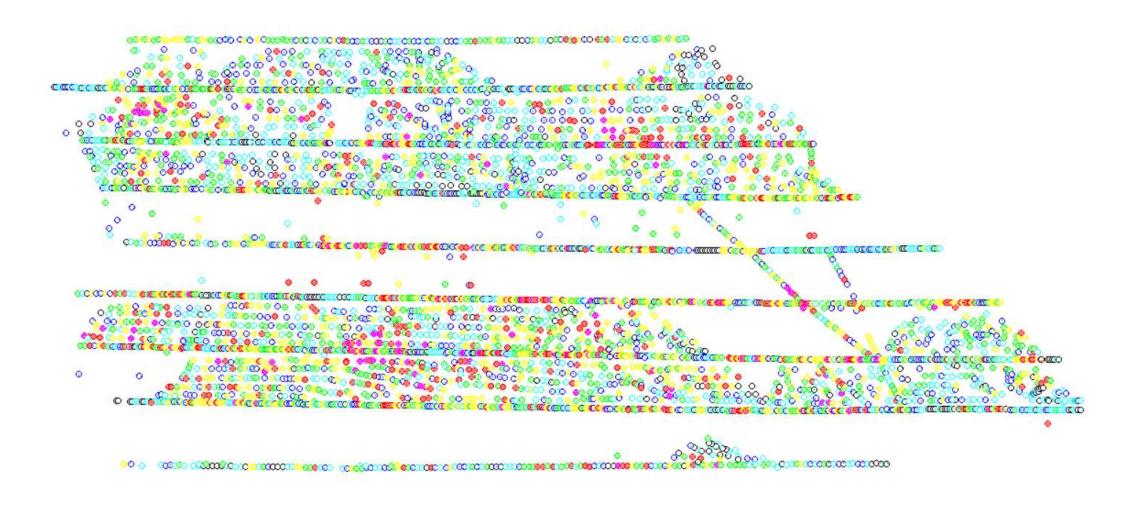
3D geological modelling

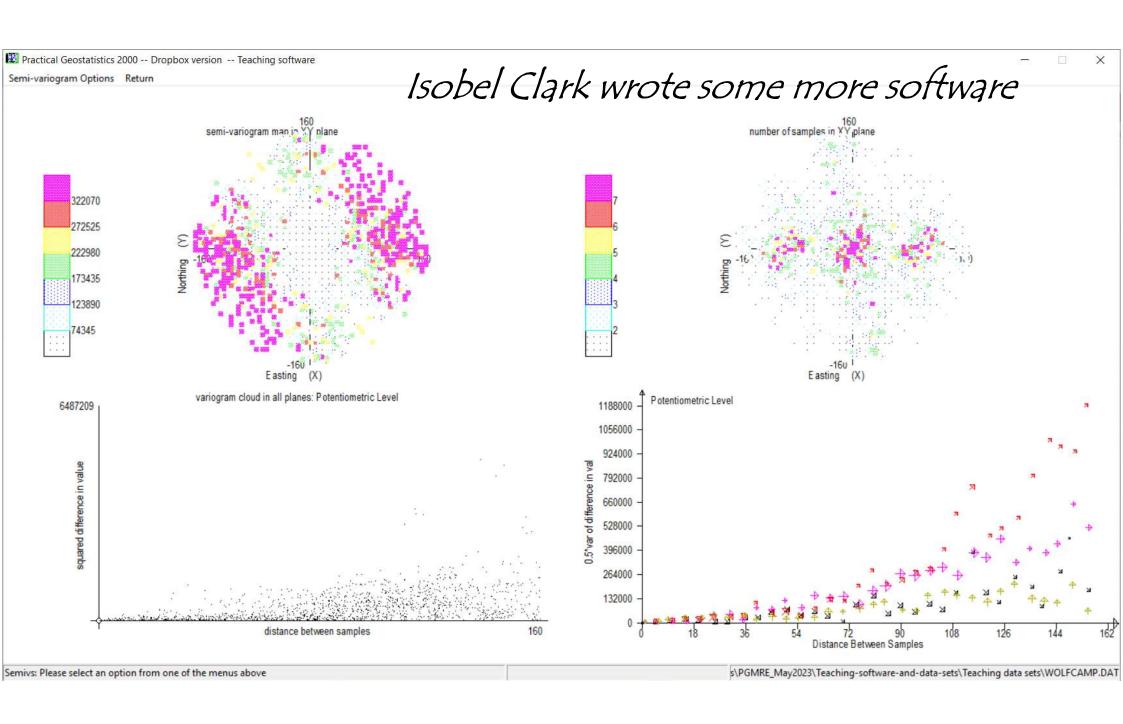


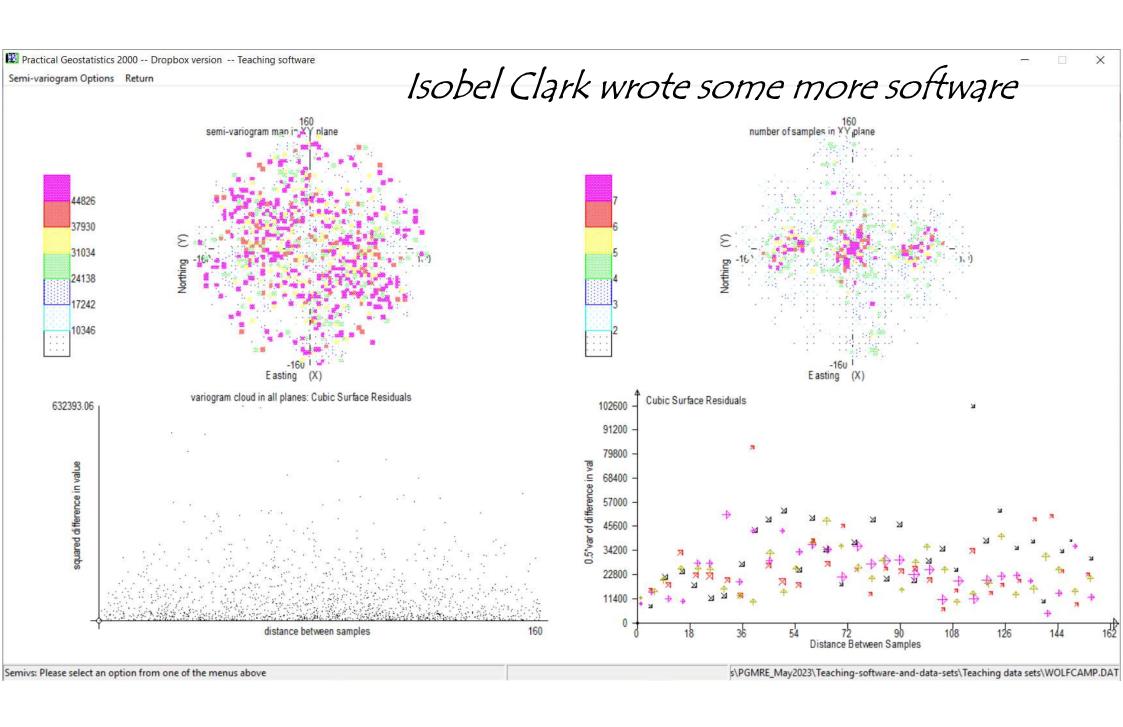


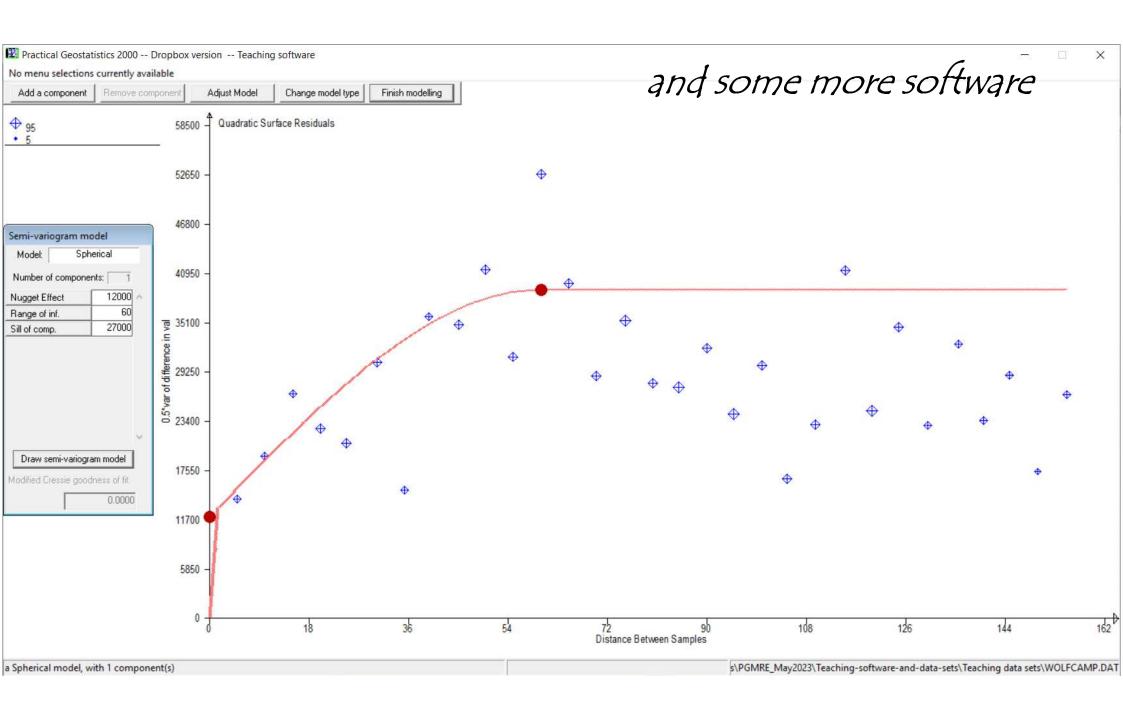
stoping

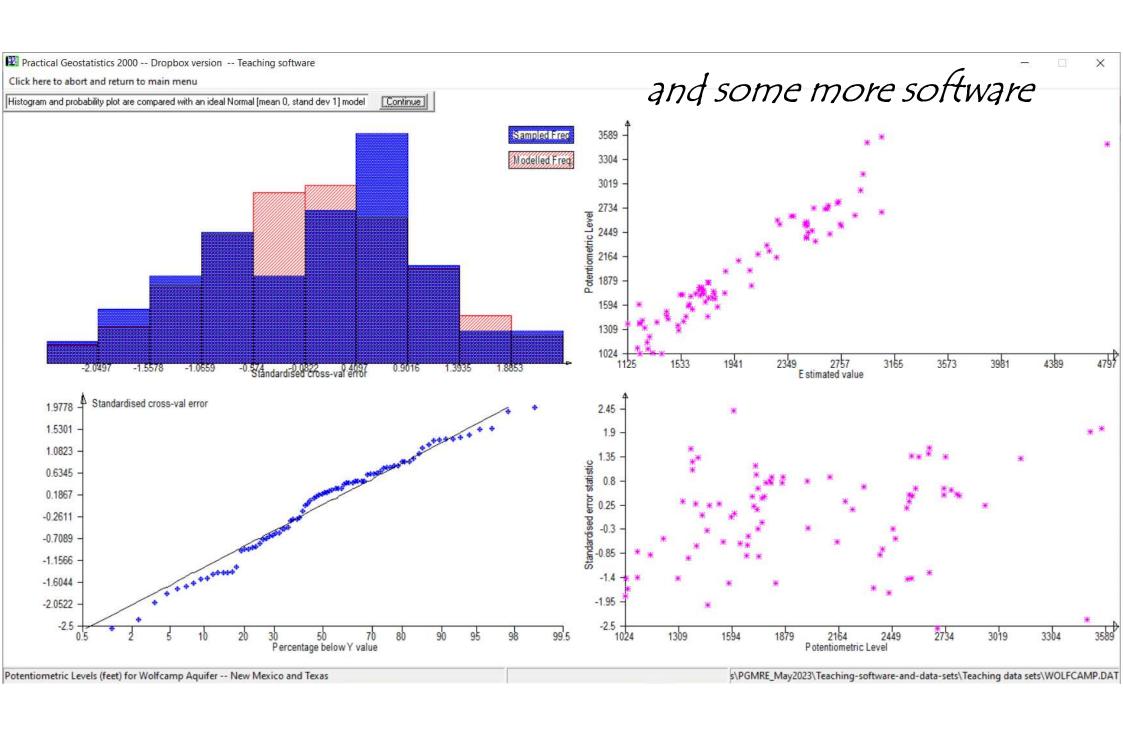
Isobel Clark wrote software



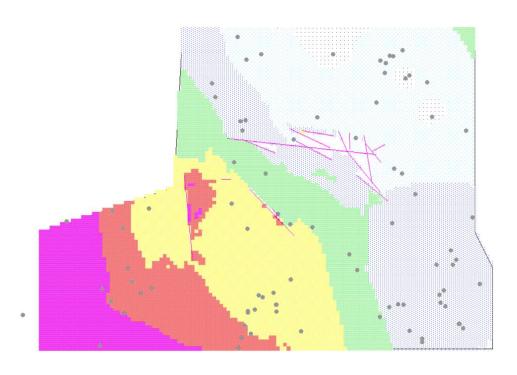






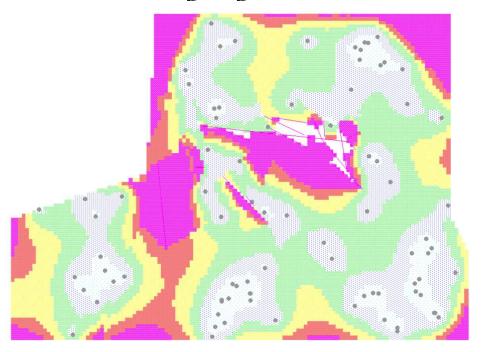


Isobel Clark wrote some more software



Universal Kriging

Kriging standard errors



There were some changes

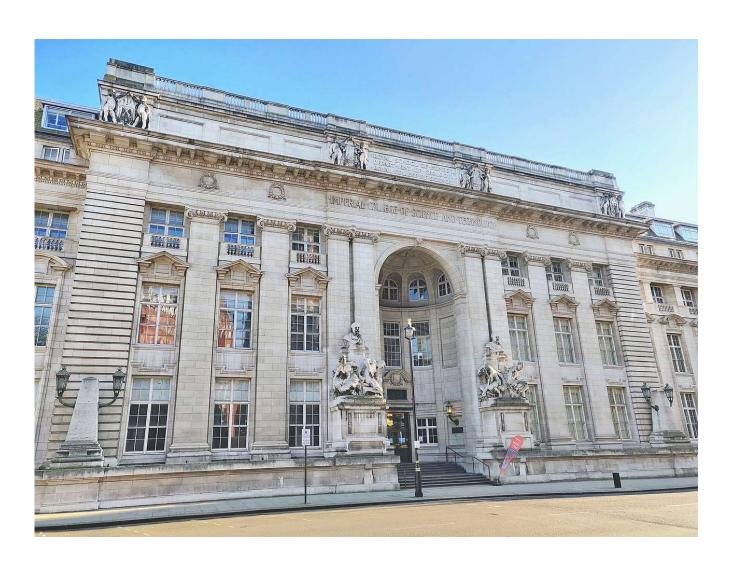


1983 Alpha Micro Desktop computer

1971 CDC 6400 mainframe



Isobel Clark did some teaching



Royal School of Mines

1971 to 1982

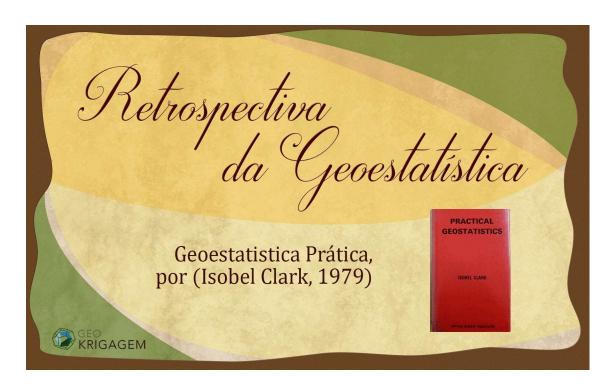
Isobel Clark did more teaching



University of the Witwatersrand

1989 to 1997

Isobel Clark wrote a book which got read in a lot of places



لنعد الآن إلى قيمة تباين الفروق Variance of the differences والتي يرمز إليها بـ 2γ(h) والمعروفة عادة بالمتباين (فيريوغرام) (Variogram) لأنها تتغير مع المسافة والاتجاه. هذه القيم يمكن حسابها عمليا بافتراض أنها لا تري توجها على النحو التالي:

$$2\gamma^*(h) = \frac{1}{n} \sum_{n} [g(x) - g(x+h)]^2$$

إن العدد 2 أمام قيمة (γ) موجود لأهداف رياضية بحتة والمصلح (γ) يسمى المتباين النصفي Semi-variogram. الآن وبعد أن قدمنا المتباين النصفي فإن السؤال الذي يطرح نفسه ينص على ماهية نوع السلوك الذي نتوقع أن يتحلى به المتباين النصفي؟ إن لدينا مقياسا المغروقات في قيم العينات التي تبعد مسافات (γ) عن بعضها البعض. والمقياس هذا الذي نملكه يعبر عنه بوحدات القيم المستعملة عادة مثل وزن بالمائة (γ) و جزء من مليون جزء (γ) أو غير ذلك. وأفضل طريقة لتوضيح هذه الأرقام هو الرسم البياني. أنه لأمر عادي أن نرسم رسما بيانيا كما في شكل 1-2 حيث تسقط المسافة بين أزواج العينات على المحور الأفقي وقيم المتباين النصفي على المحور الرأسي. حسب التعريف يبدأ كل من المحورين بالقيمة صفر. لنفرض الآن أننا أخذنا عينتين من نفس المكان وقمنا بقياس قيمة التركيز فإننا نتوقع أن تكون قيمة الفرق بين التركيز بن صفر ا

Isobel Clark wrote some other books which got pirated

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But, overall, Isobel Clark preferred to be a consultant





Isobel Clark chaired keynote session at APCOM 2011 in Wollongong Speakers Clayton Deutsch and Harry Parker



Isobel Clark training courses, for example 2013



Accra Ghana

Perth WA



Al-Amar Mine, Saudi Arabia

Isobel Clark



1974 official staff portrait, Royal School of Mines

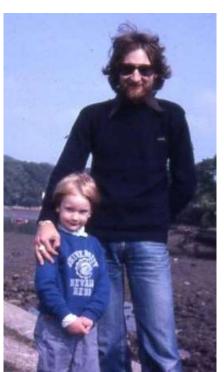


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Isobel Clark and Son

2008





1979?



2018

Isobel Clark soon to be 75





With many thanks to the MREC committee and especially to Jacqui Coombes

