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**ENQUIRY NO: CTT25701**

**DESCRIPTION: REPROCESSING OF 1000KM<sup>2</sup> 3D SEISMIC DATA OVER BLOCK  
2C**

**1. INTRODUCTION**

PetroSA intends to reprocess ca. 1000km<sup>2</sup> 3D seismic data in Block 2C (KC02 3D), West Coast of South Africa in the Orange Basin (Figure 1). The survey was acquired and processed by Western GECO in 2002 for Forest Oil International. Due to time constraint put on by the Operator, the processing was fast tracked at an expense of quality.

**2. SUMMARY OF SCOPE OF WORK**

The preferred contractor is expected to reprocess ~1000km<sup>2</sup> of the 2002 acquired 3D seismic survey. 3D seismic processing techniques have evolved and improved drastically since the dataset was last processed in 2002 and can potentially enhance the imaging of target prospects. The proposed reprocessing workflow for this tender is expected to include a Pre-Stack Depth Migration (PSDM) of the data

and an option for Pre-stack Time Migration (PSTM) only, focusing on among others, 3D surface-related multiple elimination (3D SRME) workflow and Energy recovery algorithm. Due to structural complexity of the targeted intervals (as a result of faulting and mass complex deposition of younger sediments), it is believed that appropriate depth migration algorithms will improve imaging of these structures.

### **3. DELIVERABLES REQUIRED**

The following 3D deliverables should be included in the dataset (depending on which process the Company opt for):

- a) PSDM (PSTM) processed full offset stack volume. Specific emphasis should be placed on improving the data fidelity by addressing the observations on data quality.
- b) PSDM (PSTM) processed partial offset (as a minimum “near”, “mid”, “far”, but preferably more if feasible) stack volumes with ranges and data conditioning optimized to best express the expected (modelled) pre-stack AVO behaviour of reflectors in the CMP domain.
- c) AVO attribute volumes: Intercept, Gradient and a “Fluid factor” volume.

A comprehensive reprocessing report outlining the processing workflow followed to arrive at the final reprocessed 3D seismic survey is expected with the delivery of the reprocessed database.

### **4. ENQUIRIES**

Technical enquiries regarding this tender should be addressed to **Hennie Fortuin** in the Tender Office at telephone no. **+27 21 929 3211** or e-mail address [martinhennie.fortuin@petrosa.co.za](mailto:martinhennie.fortuin@petrosa.co.za)