

Sample Mud Program

In order of addition:

Start of Hole PQ3 Coring 0 – 35m+ TD1

<u>Product</u>	<u>Quantity (per 1000ltr)</u>
SODA ASH	0.5 kg
STARGEL PREMIUM	1 BAG
VIS PAC L	3 – 6 kg
XAN VIS	0.1 – 0.5 kg

Funnel Viscosity: 42 – 50 seconds

PQ3 Coring 35 – 70m+ TE – TO

<u>Product</u>	<u>Quantity (per 1000ltr)</u>
SODA ASH	0.5 kg
STARGEL PREMIUM	1 BAG
VIS PAC L	6.0 kg
XAN VIS	0.3 – 0.5 kg
CLAY STAR MT	1% total fluid (1lt/p1000)

Funnel Viscosity: 42 – 50 seconds

PQ3 Coring 35 – 70m+ CID through to Dbx

<u>Product</u>	<u>Quantity (per 1000ltr)</u>
SODA ASH	0.5 kg
STARGEL PREMIUM	1 BAG
VIS PAC L	6.0 kg
XAN VIS	0.3 – 1.0 kg

Funnel Viscosity: 45 – 55 seconds

ADDITIONAL PRODUCTS TO BE USED AS NEEDED

<u>Product</u>	<u>Quantity (per 1000ltr)</u>
VIS TROL RD	2 – 4 kg
KCI	30 – 50kg

NOTE: VIS TROL RD can be added any time during coring to reduce filtrate levels and increase viscosity.

NOTE: KCL (POTASSIUM CHLORIDE) should be added prior to drilling in the Te formations.

NOTE: At the end of shift a 60 second drilling fluid with high gel strengths should be flushed through the hole to ensure maximum suspension is achieved during single shift operations.

For any further enquires please do not hesitate to call your closest Mudex representative

The figures in this proposal are a statement of opinion only and Mudex does not accept any liability for any financial losses due to any variation from them. This proposal does not constitute any agreement or contract between Mudex and any other parties.

Sample Mud Program Notes

This mud program is designed to provide excellent hole stability in broken formations using high yielding bentonite **STARGEL PREMIUM**, to manage clay bands and strengthen the filtration control **VIS PAC L** will be used and to increase the strength of the gel and provide excellent hole cleaning and suspension properties **XAN VIS** will be used. This combination of products will provide suspension of cuttings and cave-in when the circulation of fluid ceases whether it be for tube retrieval, end of shift or unplanned stoppages.

The mud program will provide hole integrity and maximise core recovery in the **TD1**: Tertiary alluvium/colluvium/detrinals, typically ignored due to lack of gradable material. A 'mixed bag' with CH-/GO-/HO-/reworked BIF chips.

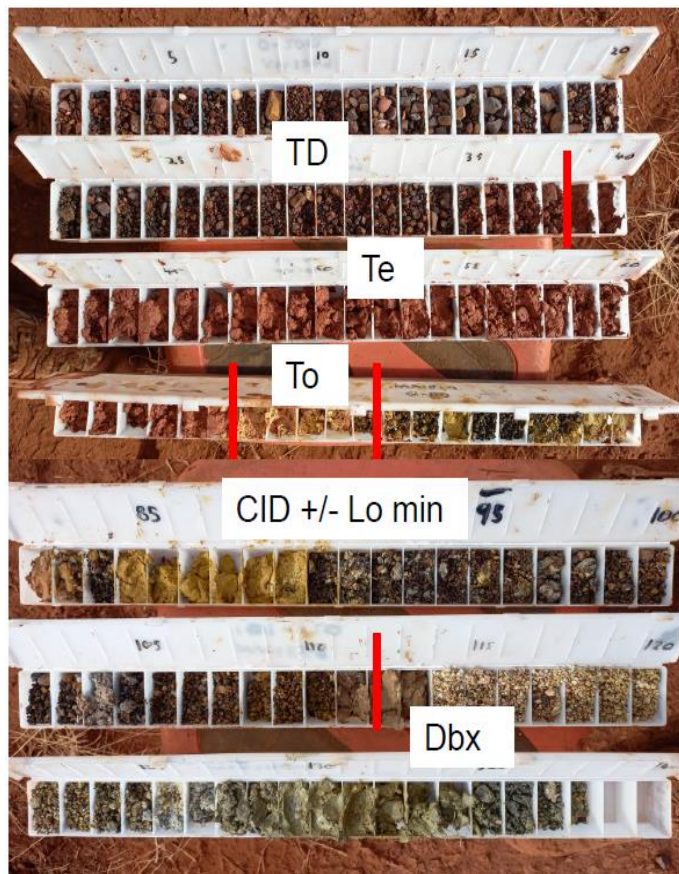
The only addition to the mud program is the introduction of **CLAY STAR MT** at around 35m to provide additional encapsulation in the **Te** and **To** formations and strengthen the **VIS PAC L**'s ability to inhibit the swelling of pictured clays from 38mtr's through to **CID**.

CLAY STAR MT should be able to be removed from being an additive once 1% of total fluid is reached on surface or where the **TE** and **To** formations are passed and the fluid return is present.

Advancing into the **CID** an additional boost of **XAN VIS** may be required to assist in carrying heavily weighted cuttings to the surface and maintain a clean well.

Once the **CID** contact is completed the need to reintroduce **CLAY STAR MT** in the fluid system through the **Dbx** may be required if fluid retention in the surface pits has been loss.

Note. In the event of fluid loss down hole it would be advised that attempting to reclaim with Loss Circulation Material be avoided due to the area's history of cavities and large waterways.



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