



MudVis

**Automated Mud Viscosity
and Specific Gravity Measuring
and Data Logging System**

Prime Horizontal Inc

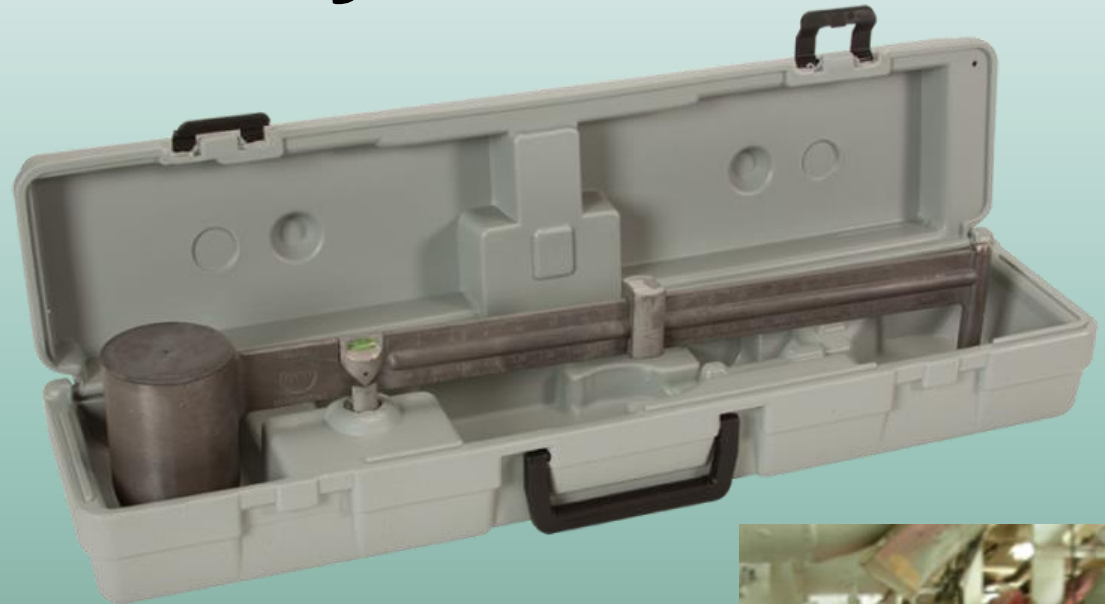
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Mud Viscosity and Specific Gravity



Mud Engineering



**Problem Y/N ?
Making life easier/better
= Added Value!**



MudVis Product (What it does)

- Automated mud viscosity and specific gravity measuring and data logging system.
 - Samples stock or mixing tank bentonite (viscosity & specific gravity measurements) at pre-set intervals.
 - Provides real time data for Mud Engineer during mud mixing process.
 - Provides real time data for monitoring mud weight through drilling and reaming process.
 - Logs data in processing unit.
 - Displays data on LCD screen on unit and on WiFi enabled various handheld devices.



MudVis Product (Added Value I)

- Automated measurements.
- Frees up time for the Mud Engineer.
- Continues monitoring of quality and efficient (cost saving) use of mud.
- Real time data made available around the drill site (e.g. available for driller inside the drill cabin).
- Enables drill crew to quickly react to changing soil conditions.
- Contributes to reduction of wear & tear of tools.
- Builds up a data log, data downloadable for reporting and analysis purposes.



MudVis Product (Added Value II)

- Self-calibrating.
- Self-cleaning.
- Low maintenance.
- User friendly.
- Good after sales service.
- Developed by company with broad HDD experience.
- Makes life easier/better.



MudVis Product Specifications

- Weight (dry): 30 kg (66 lbs)
- Power: 110/220v mains supply
- Mud Pump: 12 m (40 ft.) max, 200 l/min
- Viscosity Units: MFs or Centipoise
- Specific gravity
(SG) units: kg/m^3 (lb/ft^3)



MudVis Product Specifications



- Measurement frequency: Reading at preset intervals [from 4 minutes on (adjustable)]
- Accuracy SG / VIS: +/- 1.5%
- WiFi capability: With app for real time readings
- Mud Viscosity: Up to 100 MFs
- Dimensions of box (lwh): 30 x 46 x 57 cm (12 x 18 x 22 in)

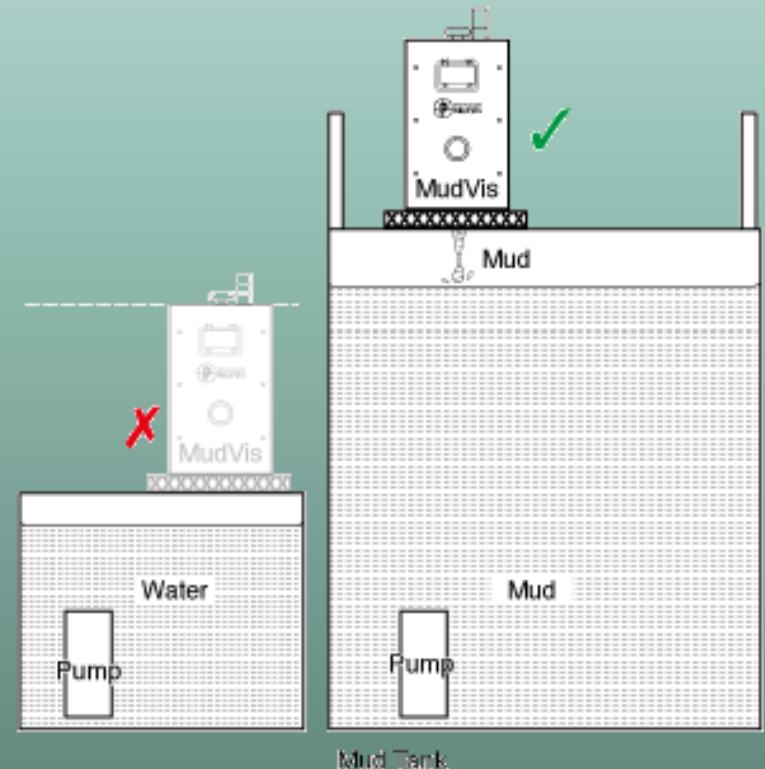
MudVis Product requirement



- A tank of MUD (mixer or stock) tank where one of the submersible pumps can be placed.
- A place on the same tank for locating the Mud Vis (the top of MUDVIS MUST be above the highest level the mud level can reach)
- A Water Source (ideally a buffer tank where a submersible pump can be placed).
- A Mains power supply (110/220v).

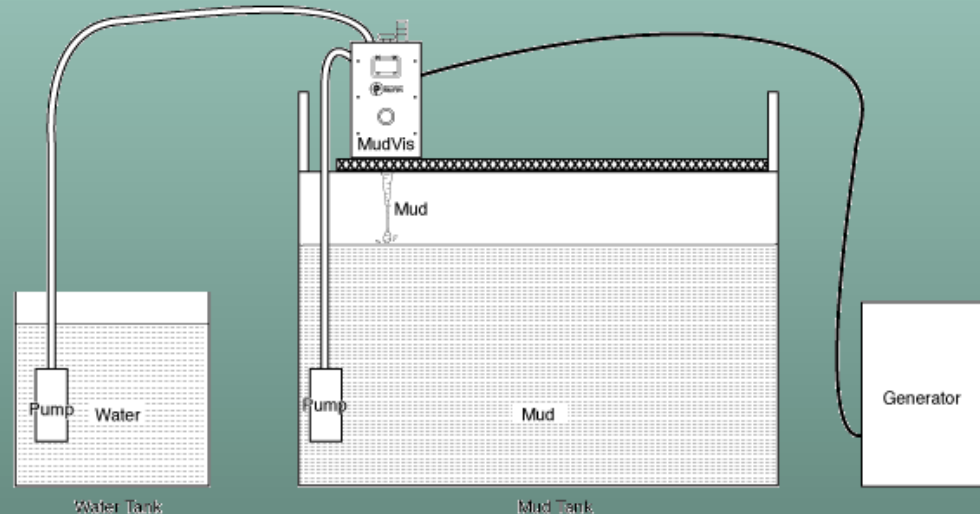
MudVis Product requirement

- Designed to sit above a tank of CLEAN or recycled mud
- Pump hangs beneath the unit in the tank
- Critical that the unit be placed at a higher level than the liquid being sampled can reach to avoid siphon effect



MudVis Product maintenance

- Do NOT hang the pump on the bottom of the tank (1.6 ft. is ideal)
- Control the funnel cleanliness, simply lift out and flush under a hose nozzle should it be required.



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Specific gravity units	kg/m ³ (lb/ft ³)
Measurement frequency	Reading at preset intervals [from 4 minutes on (adjustable)]
Accuracy SG / VIS	+/- 1.5%
WiFi capability	With app for real time readings
Mud viscosity	Up to 100 MFs
Dimensions of box (lwh)	30 x 46 x 57 cm (12 x 18 x 22 in)

MudVis Screen Display

Measuring mud			STOP
Age	SG	VIS	
Min	Kg/m3	cP	
4	1105	53	
8	1103	51	
12	1103	53	SETUP

Readout of results on the sunlight viewable display screen displaying:

Timing, Specific Gravity and Viscosity

MudVis Mobile Device data viewing ability



Data logging snapshot of mud measurement viewed on a mobile device

Thank you for your attention!
Any questions?
Come see us at booth #333!



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