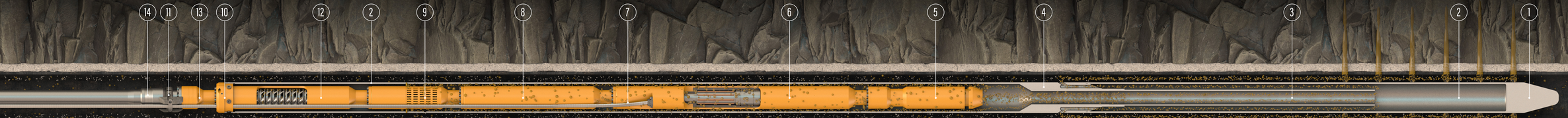
System 10 - Motor Cooling

ESP Above Perforations For A Gassy Well - Reverse Fluid Entry



UMS Flowell
Performance Under Pressure

The reverse fluid entry shroud allows free gas to pass the ESP minimising the amount of gas entering the pump.

Perforations on the shroud casing allows fluid to enter the shroud. Fluid is forced downwards increasing the natural separation between the fluid and gas allowing the fluid to enter the bottom of the shroud and up into the pump intake.

This allows the ESP to be set above the perforations in a gassy well where drilling deeper to set the ESP is not viable and eliminates the need to have the MLE go past the well perforations.

ADVANTAGES

- Can be set above the perforations minimising free gas entering the ESP
- Eliminates having to drill the well deeper for setting the ESP below the perforations
- Reduces ESP cable damage at the perforations

PRODUCING ZONE PERFORATIONS

1. Blank Casing Cap
2. Outer Shroud Casing
3. Inner Shroud Casing
4. Ported 3 Way Crossover
5. ESP Gauge
6. ESP Motor
7. MLE Cable
8. ESP Seal Protector
9. ESP Pump Intake
10. Shroud Adaptor
11. MLE Protector
12. ESP Pump
13. Discharge Pressure Sub
14. Discharge Head