

MODULAR MANIFOLD OF A WELLSITE FLUID SYSTEM AND METHOD OF USING SAME

ABSTRACT

A mobile manifold assembly of a fluid system for providing fluid to a wellsite during well construction. The fluid system includes auxiliary components including at least one fluid source, mixer and high pressure pump. The manifold assembly includes a modular manifold and a mobile frame. The modular manifold includes manifold pumps, valves and pipes integrated together for transport. Connector portions of the pipes extend from the modular manifold in an arrangement corresponding to an arrangement of the auxiliary components to define a plug-in configuration therebetween such that the connector portions of the pipes are positionable in alignment with the auxiliary components for direct and removable connection therewith. The manifold pumps and valves are positioned about the pipes to selectively pump the fluid. The modular manifold is securable to a base of the mobile frame whereby the modular manifold is transportable to the auxiliary components for operable connection therewith.

Fig. 1