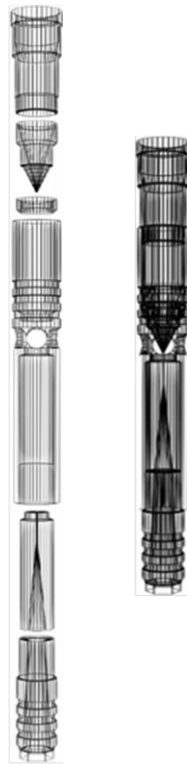


Hydraulic Jet Pumps

KEY BENEFITS

- PUMP CAN BE REVERSE CIRCULATED OUT OF WELL
- EXTREME SOLIDS HANDLING
- SMALL SURFACE FOOTPRINT
- NO MOVING PARTS DOWN HOLE
- SLIM HOLE CAPABILITIES
- COPYRIGHTED SOFTWARE FOR PUMP SIZING AND OPTIMIZATION
- HANDLES EXTREMELY HIGH LEVELS OF H₂S AND CO₂
- 20 TO 40% MORE EFFICIENT THAN OTHER JET PUMPS

ASK ABOUT RENTAL AND WELL TESTING UNITS TODAY!!



Tech-Flo Consulting is a diversified artificial lift and production equipment company, specializing in Hydraulic lift and multiplex pump packaging.

Tech-Flo (under licenses) holds select foreign country patents on its line of Jet Pumps and accessories. This pump was developed to produce large volumes of sub-surface formation fluids with inclusions of moderate to high solid content.

The unique patented design allows easy retrieval of the pump from deviated and horizontal wells. Retrieval of the pump from the hole for replacement of the nozzle or mixing tube is done by manipulation of the surface valves and reverse circulation of fluid with the existing production equipment (plunger pump, surface SP). No wire line, pulling unit or work over rig is required.

These features, plus the larger flow area, direct fluid flow path and high production volumes give Tech-Flo's Jet Pump a marked advantage over existing designs of jet pumps and other types of artificial lift. The small size of the portions of the pump retrieved, referred to as "the carrier", is 6.5 to 8.5 inches in length, making it very attractive to clients with highly deviated or horizontal wells which require artificial lift both on land and offshore.

NOMINAL SIZE	TUBING SIZES	PRODUCTION BPD	NOZZLE SIZES	THROAT SIZES
1.6	1" - 1 1/4" IJ OR 1" TO 1 3/4" C.T.	UP TO 1700	DD-D	000-7
2.0	1.5" C.T 2' TO 2.375	UP TO 2000	AA-G	00-12.5
2.3/2.8	2.375-4.5	UP TO 4500	AA-G	00-12.5
3.5 HSP	2.375-4.5	UP TO 7500	AA-J	00-12.5



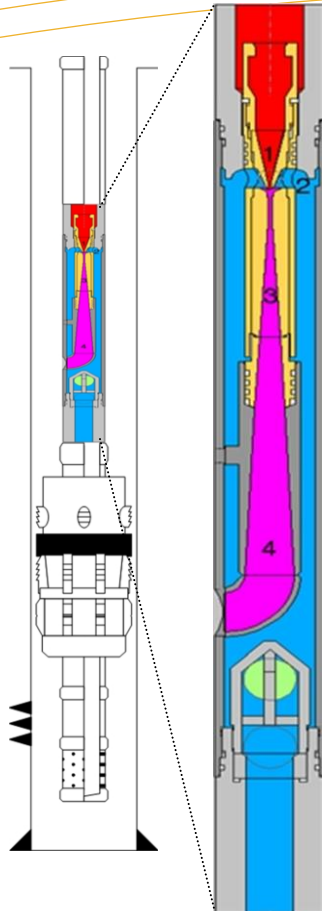


A REVERSE FLOW WELLHEAD CAN BE MANUFACTURED IN THE FIELD TO FIT YOUR SPECIFIC ARRANGEMENT



In our industry downtime means lost production. With the ease of servicing the hydraulic jet pump you can literally cut your downtime significantly when comparing hydraulic lifting to mechanical lift, PCP, ESP, and gas lift. For all the previous methods of artificial lift you need a work-over rig to pull the equipment out of the well before you are able to service the down hole equipment.

With no moving parts in the bottom hole assembly, the jet pump is simply circulated out or fished in worst case scenario to service and replace parts. The power fluid injection unit (PD pump, Ultra-Flo or SPS) contains all the moving parts in the system. Therefore all of the maintenance can be taken care off at the surface.



Down Hole Technology

The pump utilizes the momentum of one fluid to move another fluid.

The pump consists of:

- (1) A nozzle to increase the velocity and decrease the pressure of the power fluid.
- (2) An intake where draw down directs the produced fluid into the high-velocity jet.
- (3) A mixing tube (throat) where the power fluid encounters the produced fluid.
- (4) A diffuser where the velocity of the mixed stream is decreased, pressure is increased,

Under license, Tech-Flo uses proprietary Jet Pump Analysis software that can help price equipment, review different production rates, determine what your well will produce and at what efficiency rate without any expenditure by your company.

Flow Rate (GPM)	Power Fluid Pressure (PSI)	Produced Fluid Pressure (PSI)	Wellhead Pressure (PSI)	Efficiency (%)
100	1000	500	1500	50
200	1000	500	1500	50
300	1000	500	1500	50
400	1000	500	1500	50
500	1000	500	1500	50

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