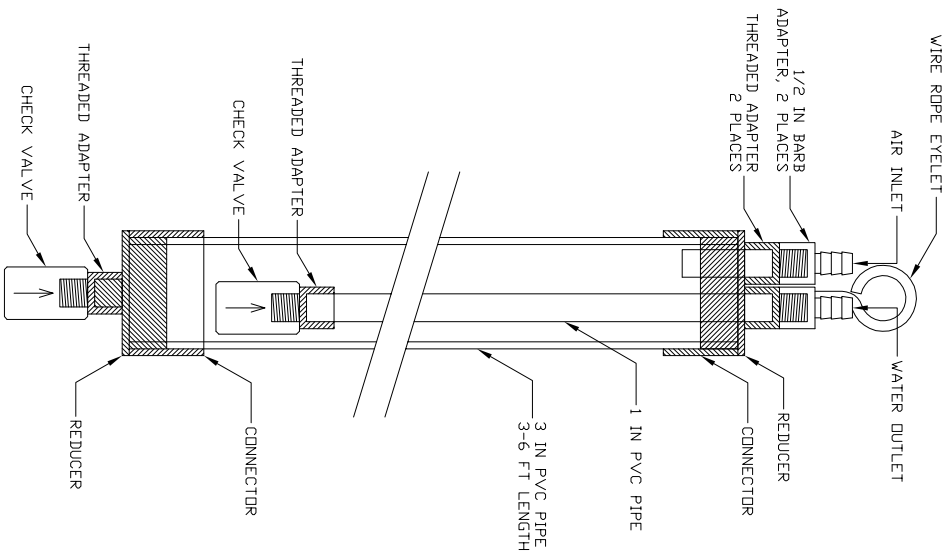
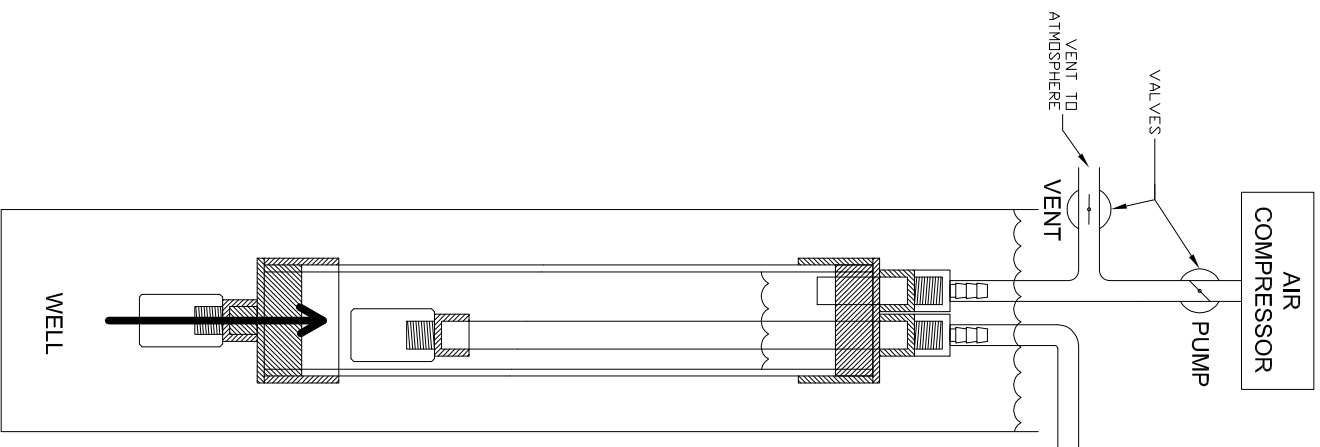


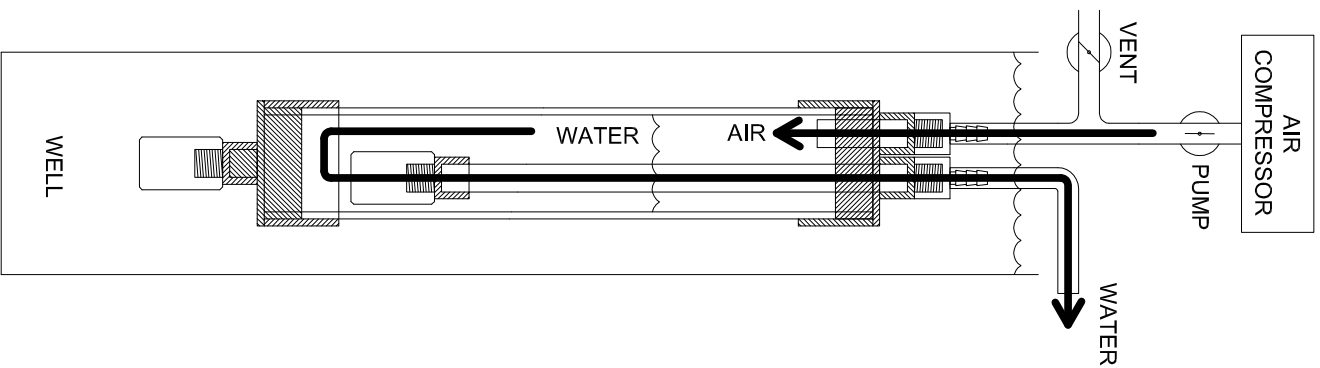
COMPRESSED AIR OPERATED WELL PUMP



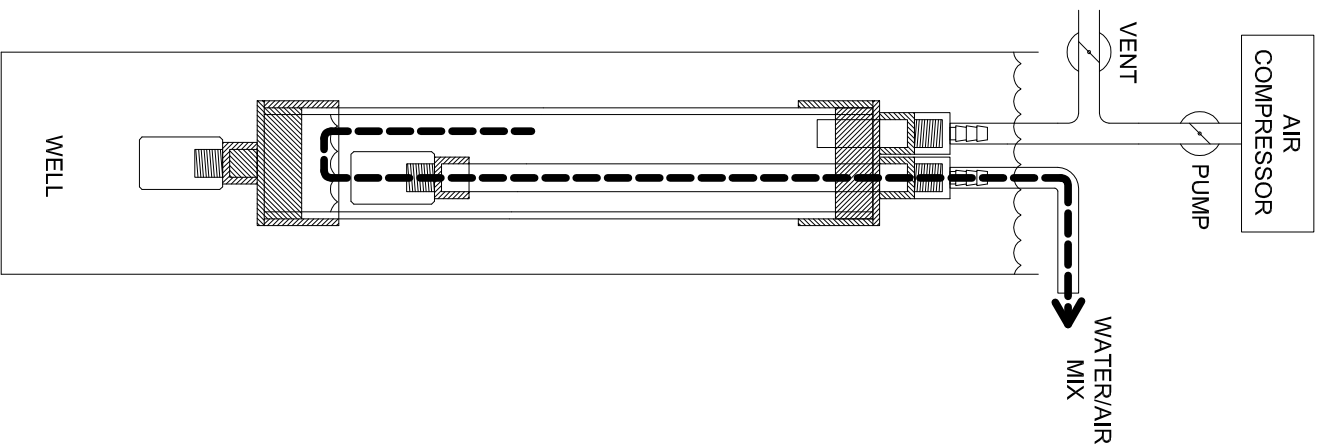
PHASE 1: FILL PUMP WITH WATER



PHASE 2: PUMP WATER USING COMPRESSED AIR



PHASE 3: WATER/AIR EXITS AS PRESSURE DROPS



TYPICAL OPERATION: FOR A WELL WITH 85FT STATIC WATER LEVEL, 130FT PUMP DEPTH, PUMP VALVE IS OPEN FOR 15 SECONDS, CLOSED FOR 15 SECONDS, THEN VENT VALVE IS OPENED FOR 5 SECONDS. AIR PRESSURE IS ABOUT 50PSI AND WATER FLOW IS ABOUT 0.25 GAL/MIN FOR A 30 INCH LONG PUMP.