MANUAL OR TIMER OPERATED STOCKWATER PIPELINE PUMPED SEGMENT HYDRAULIC COMPUTATION WORKSHEET

Land user ______________________________

Job description______________________________

Farm No. ________ Tract No.____________ Field No.___________ County ______________________

Designer ________ Date _________ Checked by____________ Date______________________

Water surface elevation during pumping (WS) ________

Pumped segment end station critical point (CP): Station______ Elevation ____

Clearance Head (CH) at critical point:_____ ft x .433 = ______ psi

Losses in plumbing at pump (PL): ____ ft

HGL at CP = CP elevation + CH ft = _____+ _____ = 0.00

HGL pump = HGL from profile = PL = 0.00 + _____ = 0.00

Total Dynamic Head (TDH) = HGL pump - WS= 0.00 - _____ = _____ ft

Pump HP ________________HP (Select from pump curves)

(1) Station	(2) Reach Length (ft)	(3) Pipe Elevation	(4) Design Flow Rate (gpm)	(5) Nominal Pipe Diameter (in)	(6) Pipe Type	(7) Pipe Pressure Rating (psi)	(8) Friction Factor H_f/100ft (ft/100)	(9) Reach Total H_f (ft) (2) x (8)	(10) HGL Elev (from start HGL)	(11) Max Pressure on Pipe (psi) WS-(3)	Comments (slope %)
											at pump