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EVALUATION for Lift Station Kelly

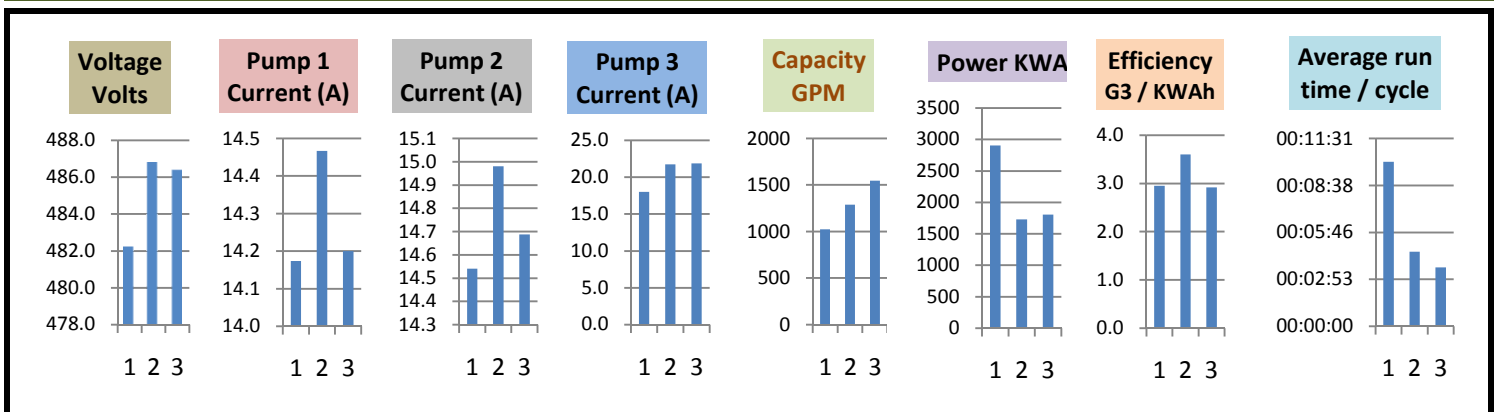
City :	Tel.:
Contact :	Title :
Test period : July 1st to 23rd 2007	Email :

Volumes	Dimensions (in, ft, cm, M) :		in	Volumes (ft ³ ou M ³) :		ft3	
	Volumes of the well	Width:	84	Length:	84	Diameter:	
	Lift station' s dimensions		Measure 1	Measure 2	Measure 3	Average	
	Stop level from mark		150.00	149.50	149.50	149.67	
	Start level for one pump		119.75	120.00	120.25	120.00	
	Start level for two pumps		102.00	115.50	115.50	111.00	
	Start level for three pumps						
	Volume between stop and start of one pump					ft3	121.14
	Volume between start of one pump and start of second pump					ft3	36.75
	Volume between start of second pump and start of third pump					ft3	

Electricity	Voltage is taken manually if more than 2 pumps.		Phase 1	% Var	Phase 2	% Var	Phase 3	% Var	Run time			Starts
	Voltage (Volts)		482.19	0.6	486.77	0.3	486.36	0.3	H	M	S	Occurrences
	Pump 1 - Current (Amps)		14.17	0.7	14.47	1.3	14.20	0.6	139	45	11	831
	Pump 2 - Current (Amps)		14.54	1.3	14.98	1.7	14.69	0.3	80	32	23	1057
	Pump 3 - Current (Amps)		18.03	12.2	21.74	5.8	21.87	6.4	56	51	44	946

Group	Average flow for pumps 1 & 2 combined		594.9	GPM	15	39	12	167
	Average flow for pumps 1 & 3 combined		579.6	GPM		10	21	1
	Average flow for pumps 2 & 3 combined		588.0	GPM		3	51	1
	Average flow for pumps 1, 2 & 3 combined			GPM				

Efficiency	Pumped volume = Capacity X Run time		Pump 1	% Var	Pump 2	% Var	Pump 3	% Var	Average	Units
	Average pump capacity		1022	20.4	1287	0.2	1546	20.3	1285.15	GPM
	Pumped volume		8573	28.2	6220	7.0	5274	21.2	6689	Gal. ³
	Power consumption		2904	35.3	1727	19.5	1806	15.8	2146	KWAh
	Efficiency		2.95	6.5	3.60	14.0	2.92	7.5	3.158	Gal. / KWAh
Average run time / Cycle		00:10:05	65.7	00:04:34	24.9	00:03:36	40.8	00:06:05	hh:mm:ss	



This analysis is for constant speed pumps only. The hydraulic data are based on volumes between the levels of operation of the pumps. If the levels of operation are defective, the data could not be valid. It is not the responsibility of MAID Labs to make sure of the correct operation of the lift station. This analysis allows to discover anomalies undetectable otherwise. © MAID Labs Inc. 2007