



March 10, 2010

Harris County MUD #69
c/o Municipal District Services
Attn: Board of Directors
16758 Telge
Cypress, Texas 77429

Reference: Water Well #1- Performance Testing

Members of the Board,

Collection and evaluation of field data pertaining to the operation of the well and well pumping equipment was recently completed at the above referenced facility. Included in this report please find the test results and pump curve generated by the testing. Historical performance data is presented in graphical format.

PERFORMANCE TEST REVIEW			
Hydraulic Performance of pump is 902 GPM @ 320' field head	Excellent	Good <input checked="" type="checkbox"/>	Marginal _____ Poor _____
Overall efficiency is 55 percent	Excellent _____	Good _____	Satisfactory <input checked="" type="checkbox"/> Poor _____
Pump Submergence 146 feet	Excellent <input checked="" type="checkbox"/>	Good _____	Marginal _____ Poor _____
Vibration Analysis (N/A)	Excellent _____	Good _____	Marginal _____ Poor _____
Suspended Solids Testing	Excellent <input checked="" type="checkbox"/>	Good _____	Marginal _____ Poor _____
Brass Observed in SST	None _____	Trace <input checked="" type="checkbox"/>	Substantial _____ Excessive _____
Flowmeter Accuracy is 99.6 percent			

During the test, brass shavings were detected in the water which indicates the pump may be in the initial stage of wear. Although the problem does not appear to be critical at this time, we recommend the pump be monitored to determine if the pump is on a downward trend. It should be noted that the pump is approximately fifteen percent off the design point.

We appreciate this opportunity to be of service. If you have any questions or comments, please call.

Sincerely,

Gary McMurrey



Performance Test Report

SPECIALIZED INSPECTION SERVICES FOR THE WATER INDUSTRY

website: www.g-mservices.com

phone: 281-894-8971

Facility Harris County M.U.D. #69 - well #1 **Test Date** 02/15/2010
U.S.G.S. # LJ-65-03-615

PUMP DATA

Manufacturer : Flowserve
 Bowl Type : 10" EBM
 Stages : 12
 Setting : 448
 Column Size : 8" X 2 1/2" X 1 1/16"
 Design Point : 1000 GPM @ 375' TDH

MOTOR DATA

Manufacturer : U.S. Motors
 Size (HP) : 200
 Amps/Volts : 228/460
 Serial # : R-6377-08-424
 Frame : 445TPA
 Speed (RPM) : 1770

PERFORMANCE TEST DATA

Static Lvl (ft) -272		
Discharge Pressure	8	8
Capacity (GPM)	902	902
Pumping Lvl (ft)	-302	-302
Drawdown (ft)	30	30
Specific Capacity	30.07	30.07
Field Head (ft)	320.48	320.48
Water Horsepower	72.99	73.07
Overall Efficiency	55%	55%
Horsepower Input	132.79	132.79
Kilowatt Input	99.1	99.1
Amp Draw	148-150-134	148-150-134
Voltage	490-485	490-485
Sand (PPM)	1	1
Time (min)	45	45

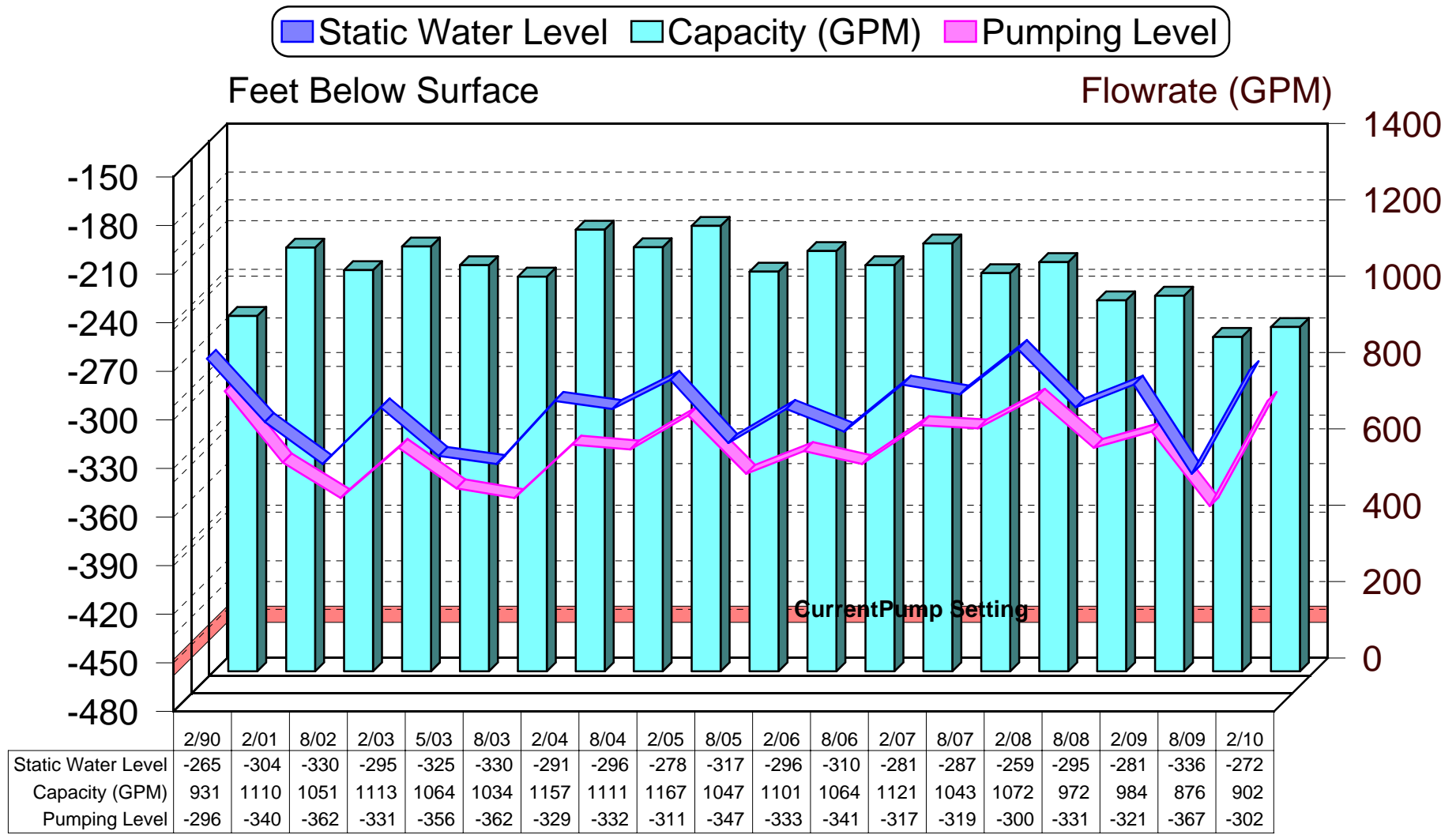
Additional Data

Pump Submergence (ft)	146	Brass Detect	Heavy trace	Airline Functional	Yes
KWH/Million Gallons	1,831.12	ETM Read	9548	Right Angle Drive	Yes
Start-up Sand (PPM)	1	Meter Read	263495	Meter Accuracy	99.6%
Flowmeter registers 898 GPM at 8 PSI discharge pressure.					

Remarks
 Brass detected in water.

Harris County M.U.D. #69

Well #1



Affidavit of Meter Calibration Test

Permitte Name Harris County MUD #69 SD Well No. 3735

Description of site location Well #1

Meter Manufacturer Rockwell Serial No. N/A

Type Propeller Positive Displacement
 Turbine
 Other

Testing Firm Name G-M Services
Address P.O. Box 690309
Houston, Texas 77269
Phone# 281-894-8971
Test Supervisor G. McMurrey Title Technician

Details of Test

Method Pitot Tube In-Line Calibrated Meter
 Transit Time

Date of Test Monday, February 15, 2010

Description of Test Set-up transducer downstream of meter. Pumped water through meter and transducer.

Test Results

Meter reading start of test	1) <u>263495</u>
Meter reading at end of test	2) <u>263503.98</u>
Metered quantity (item 2 - item 1)	3) <u>8980</u>
Known standard quantity in test	4) <u>9020</u>
Percent accuracy (item 3 / item 4 x1)	5) <u>99.6</u>

Recalibration Yes No

Remarks Meter appears to be in satisfactory condition.

Signature of Responsible Party _____

Date _____