WELL REHABILITATION REPORT

... Company, Inc.

-----PROFESSIONAL SERVICES FOR WATER SYSTEMS------

..., Illinois 60506-2892 Phone: ...

Client	Client Contac			Contact			
	Consulting Engineer						
Date	7/5/2007	Well No.	34	Pump No.	529053	Well Depth	1485'

Well Construction	The well was constructed in 1989 by Wehling Well Works. According to the well completion report the well construction is as follows: 36" cemented well casing from 42' to surface, 30" cemented well casing from 193' to surface, 24" cemented well casing from 325' to surface. 22-3/4" borehole from 325' to 1485'. The well targets the St. Peter, Galesville, and Mt. Simon Sandstone formations.
Permanent Pumping Assembly	USEM 250 HP VHS 460V motor, Byron Jackson GSR 12X24.5 discharge head, 340' of 10"X1-15/16" water lubricated column assembly with protective coated column with zinc sleeves and stainless steel lineshaft, Christensen 14RJMC – 4 stage water lubricated bowl assembly rated for 1825 gpm at 300' TDH.

Previous History						
Date	Comments	SWL	GPM	PWL	DD	Specific Capacity (gpm/ft.)
7/10/2990	Original Test of the permanent pumping assembly – startup of Byron Jackson water lubricated pumping assembly	104'	1795	244'	140'	12.8
10/30/1990	Field test into the system with flowmeter	120'	2097	250'	130'	16.1
8/25/2006	Pre-Test for Phase I Well Rehabilitation	85'	2023	390'	305'	6.6

Rehabilitation Procedure

- 1. Gamma log conducted on 7/19/2006
- 2. Downhole video survey was conducted on 7/11/2006
- 3. Water Systems Engineering bacterial assessment report was conducted see report dated 9/15/2006
- 4. The well casing and borehole was mechanically cleaned by scratching.
- 5. Superchlorination
- 6. AIRSHOCK rehabilitation with focus intervals from 490' 570', 650' 775', and 900' 1330' with 6" and 8" air impulse generator from 1600 psi min. to 2,400 psi max.
- 7. The well was bailed to its total depth after the AIRSHOCK rehabilitation.
- 8. Test pump BJ0015 was installed to develop and test the well. The well was developed by pumping and surging from 1/10/2007 to 1/16/2007. See Well Test data sheets for more detailed pumping information.
- 9. After development and test pumping, the well was bailed to its total depth

Post Rehabilitation Performance Test			est Static	Static Water Level		Size Orifice Used		12" X 10"
Test Date	1/16/2007							
	Orifice		Air Line	Drawdown	Pumping	Discharge		
Time	Reading	GPM	Reading		Level	Pressure		REMARKS
10:30am	22.0"	2335	258'	117'	227'	80 psi	Clea	r with 1/8" sand
12:30pm	24.5"	2465	250'	125'	235'	60 psi	Clea	r with 1/8" sand
2:00 pm	27.0"	2587	241'	134'	244'	40 psi	Clea	r with 1/8" sand
4:30 pm	28.0"	2635	235'	140'	250'	22 psi	1/8"	r with 2.3 ppm and sand. Specific acity is 18.8 gpm/ft.

Final Comments	The specific capacity of the well increased from 6.6 to 18.8 gpm/ft. The sand production
	prior to development was 1.8 - 3.5 ppm and after rehabilitation it was 2.3 ppm. The
	permanent pumping assembly was installed and started up on 6/13/2007. Passing
	bacteriological samples were obtained on 6/13/2007 and 6/14/2007. For additional
	information review the Downhole Video Survey Report, Gamma Log, and Well Test Data
	Sheets.

Project Foreman	
Project Engineer	