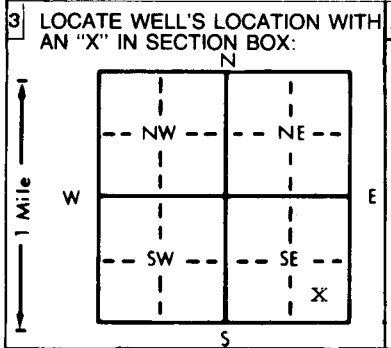


1 LOCATION OF WATER WELL: Fraction NE 1/4 SE 1/4 SE 1/4 Section Number 16 Township Number T 6 S Range Number R 15 EW
 County: JACKSON Distance and direction from nearest town or city street address of well if located within city?

2 WATER WELL OWNER: U.S. Army corp of Engineers Board of Agriculture, Division of Water Resources
 RR#, St. Address, Box #: U.S. Army corps of Engineers Application Number:
 City, State, ZIP Code:



4 DEPTH OF COMPLETED WELL: 60 ft. ELEVATION:
 Depth(s) Groundwater Encountered 1. 8 ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL 13.28 ft. below land surface measured on mo/day/yr 4-03-
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter in. to ft., and in. to ft.
 WELL WATER TO BE USED AS:
 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only 10 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes No ; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes No

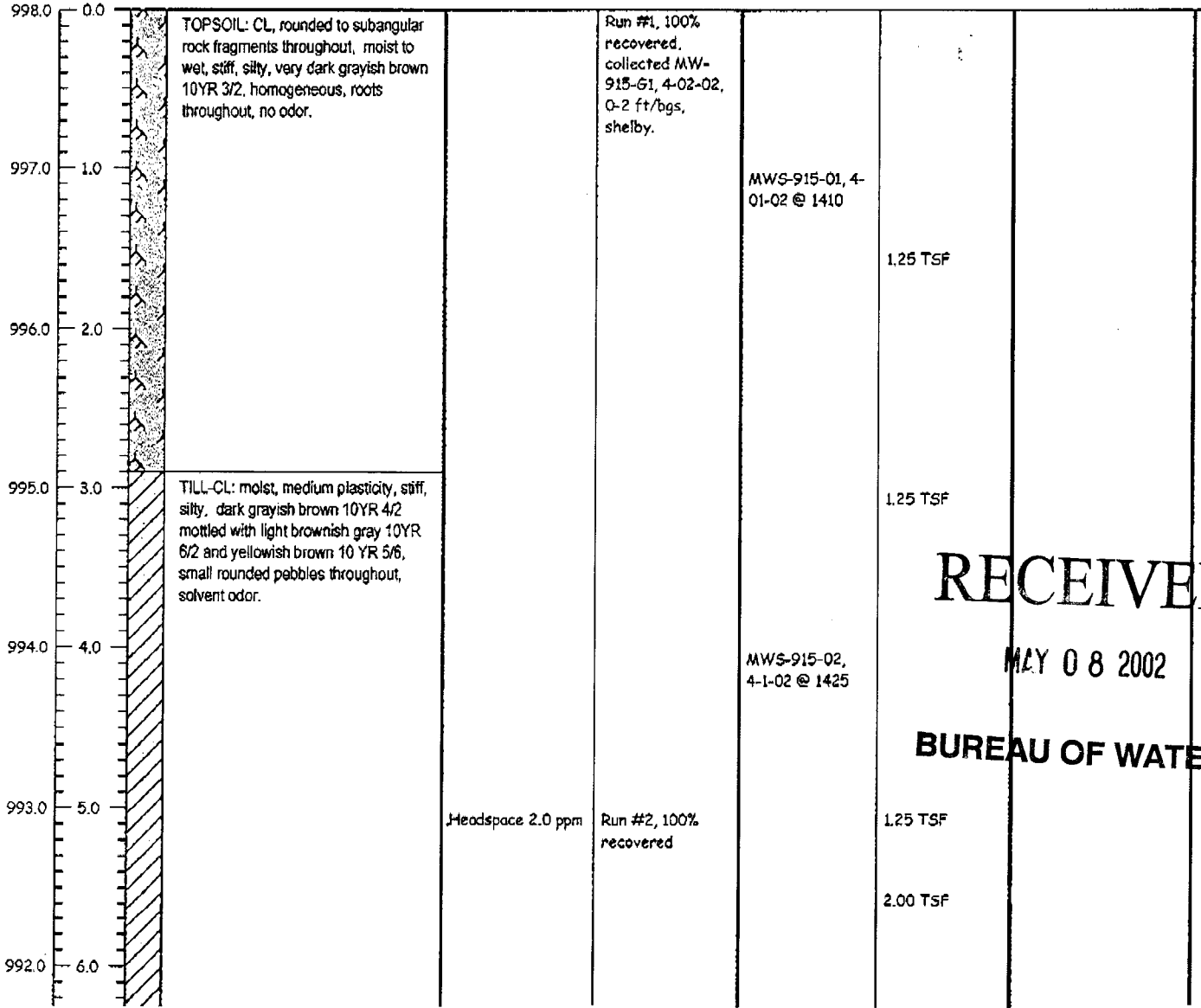
5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued Clamped
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded
 7 Fiberglass Threaded
 Blank casing diameter 2 in. to ft., Dia in. to ft., Dia in. to ft.
 Casing height above land surface in., weight lbs./ft. Wall thickness or gauge No. 40
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify)
 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify)
 SCREEN-PERFORATED INTERVALS: From 30 ft. to 20 ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 30 ft. to 18 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other cement/bentonite
 Grout intervals: From 18 ft. to 3 ft., From ft. to ft., From ft. to ft.
 What is the nearest source of possible contamination:
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well
 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage
 Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	10	topsoil, till			
10	20	till, small rounded pebbles			
20	30	till, small rounded pebbles			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 4-03-02 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 597 This Water Well Record was completed on (mo/day/yr) 4-19-02 under the business name of Prosonic corporation by (signature)

HTW DRILLING LOG						Hole No. MW-915		
1. Company Name Ellis Environmental Group, LC			2. Drilling Subcontractor Prosonic			Sheet 1 of Sheets 4		
3. Project Forbes Atlas S-9			4. Location Holtan, Kansas					
5. Name of Driller Bear			6. Manufacturers Designation of Drill Rotosonic					
7. Sizes and Types of Drilling and Sampling Equipment Hawk 70-150-Rotosonic rig Sonic 8 inch outer core, 6 inch inner core barrel 6 inch stainless steel core barrel			8. Hole Location MW-915		9. Surface Elevation			
			10. Date started 4-01-02		11. Date Completed 4-02-02			
12. Overburdened Thickness undetermined			15. Depth Ground Water Encountered 8ft/bgs in fractures					
13. Depth Drilled into Rock 0			16. Depth to Water and Elapsed Time after Drilling Completed 3.28 ft, 4-3-02 @0820					
14. Total Depth of Hole 30ft			17. Over Water Level Measurements (Specify)					
18. Geotechnical Samples MW-915-61, 0-2 ft, 4-01-02		Disturbed 0	Undisturbed 0	19. Total Number of Core Boxes 0				
20. Samples for Chemical Analysis MWS-915-01,02, 03		VOC 4	Metals 0	Other (Specify)	Other (Specify)	Other (Specify)	21. Total Core Recovery 100%	
22. Disposition of Hole Converted to monitoring well		Backfilled NO	Monitoring Well MW-915	Other (Specify)	23. Signature of Inspector			
Converted to monitoring well		NO	MW-915	Forbes Atlas S-9				
Elev a	Depth b	Lith c	Descriptions of Materials c	Field Screening Results d	Geo-Tech Sample or Core Box No. e	Analytical Sample No. f	Pocket Penetrometer g	Remarks h



RECEIVED

MAY 08 2002

BUREAU OF WATER

Project Forbes Atlas S-9	Hole No. MW-915
---------------------------------	------------------------

HTW DRILLING LOG

Hole No. MW-915

1. Project Forbes Atlas S-9			2. Inspector Jeffrey Finn			Sheet 3 of Sheets 4	
Elev a	Depth b	Descriptions of Materials c	Field Screening Results d	Geo-Tech Sample or Core Box No. e	Analytical Sample No. f	Pocket Penetrometer g	Remarks h
		TILL-CH: moist to wet, high plasticity, soft, yellowish brown 10YR 5/4 mottled with gray 10YR 5/1. small rounded pebbles throughout, trace iron oxide staining, sulfuric acid odor.	ppm	recovered			benonite seal from 15.65 to 12.8 ft/bgs, used 1 bag of Pure Gold, std 60, Bentonite, medium chips.
982.0	16.0						
						.50 TSF	sand pack from 27.65 to 15.65, used 8, 50 pound bags of filter pack #5 quartz sand pack.
981.0	17.0						
		TILL-CH: becomes more sandy, transition zone					
980.0	18.0						
		TILL-CL: moist to wet, low to medium plasticity, stiff, silty, sandy, yellowish brown 10 YR 5/4, trace iron oxide staining, sulfuric acid odor.					
979.0	19.0					.50 TSF	
978.0	20.0			Run #4, 100% recovered			
						1.70 TSF	
977.0	21.0						
976.0	22.0					1.70 TSF	
975.0	23.0					1.75 TSF	
974.0	24.0						

HTW DRILLING LOG						Hole No. MW-915	
1. Project Forbes Atlas S-9			2. Inspector Jeffrey Finn			Sheet 4 of Sheets 4	
Elev a	Depth b	Descriptions of Materials c	Field Screening Results d	Geo-Tech Sample or Core Box No. e	Analytical Sample No. f	Pocket Penetrometer g	Remarks h
973.0	25.0	TILL-MH: moist to wet, low plasticity, soft, silty, yellowish brown 10 YR 5/4 mottled with yellowish brown 10YR 5/4, trace iron oxide staining at the lower erosional surface, solvent odor.				170 TSF	
972.0	26.0	TILL-MH: wet, iron oxide stained erosional surface				.50 TSF	
971.0	27.0	TILL-CH: dry to moist, high plasticity, slickensides, hard, silty, dark gray 10YR 4/1, small rounded pebbles throughout, occasional calcareous nodules, no odor.				>4.50 TSF	well set @ 27.65 ft/bgs, 2.72 ft. of riser, screened from 27.65 to 17.65 ft/bgs. sch. 40, 10 slot, 2" PVC
970.0	28.0						used 150 gallons of water, recovered 150 gallons, total water lost 0 gallons
969.0	29.0					>4.50 TSF	
968.0	30.0						