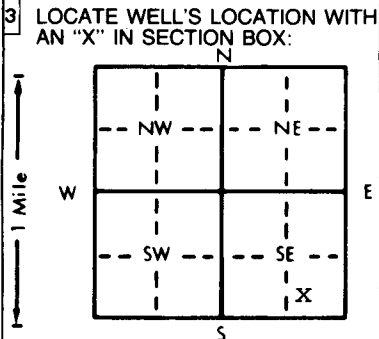


1 LOCATION OF WATER WELL: Fraction se 1/4 ne 1/4 se 1/4 Section Number 16 Township Number T 6 S Range Number R 15 EW

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 RR#, St. Address, Box #: P.O. Box 59 Louisville Ky. 40201 Board of Agriculture, Division of Water Resources City, State, ZIP Code: Application Number:



3 LOCATE WELL'S LOCATION WITH AN 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 25 ft. ELEVATION: ... WELL'S STATIC WATER LEVEL: 21.47 ft. below land surface ... Pump test data: Well water was n/a ft. after ... hours pumping ... gpm ... Est. Yield ... gpm: Well water was ... ft. after ... hours pumping ... gpm ... Bore Hole Diameter: 8 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 [X] ... If yes, mo/day/yr sample was submitted ... Water Well Disinfected? Yes No [X]

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 [X] 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. Sch. 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 10 Other (specify) SCREEN-PERFORATED INTERVALS: From: 25 ft. to 15 ft. GRAVEL PACK INTERVALS: From: 25 ft. to 13 ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other cement/bentonite Grout intervals: From: 11 ft. to 3 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?

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, PLUGGING INTERVALS. Row 1: 10, 20, topsoil, fill. Row 2: 20, 25, till.

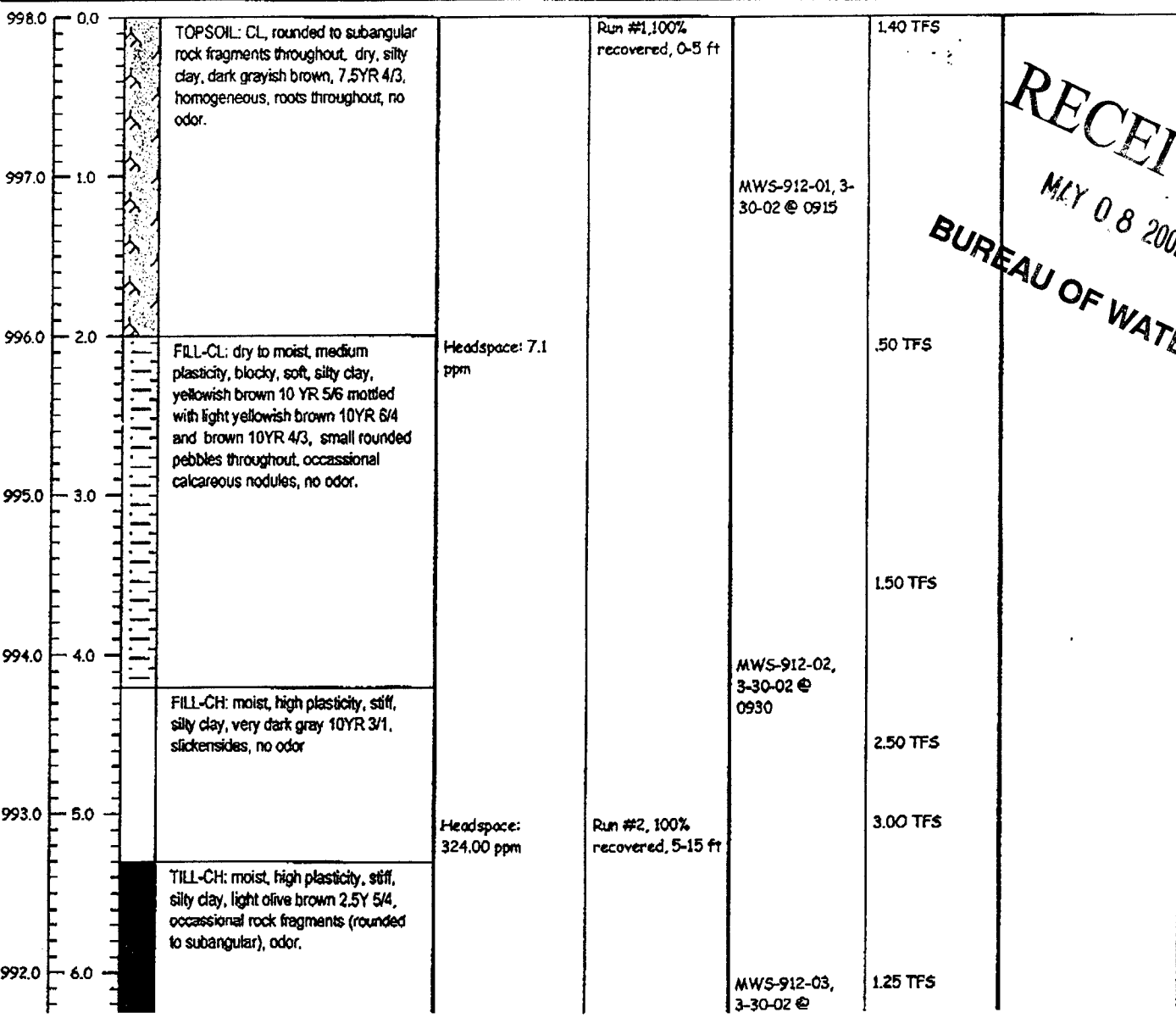
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 3-30-02 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 597 This Water 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-912
Sheet 1 of Sheets 4

1. Company Name Ellis Environmental Group, LC		2. Drilling Subcontractor Prosonic	
3. Project Forbes Atlas S-9		4. Location Holton, Kansas	
5. Name of Driller Bear		6. Manufacturers Designation of Drill Hawk 70-150-Rotosonic	
7. Sizes and Types of Drilling and Sampling Equipment rotosonic rig Sonic 8 inch outer core, 6 inch inner core barrel 6 inch stainless steel core barrel		8. Hole Location MW-912	
		9. Surface Elevation 995	
12. Overburdened Thickness undetermined		15. Depth Ground Water Encountered 15 ft/bgs, 3-30-02	
13. Depth Drilled into Rock 0		16. Depth to Water and Elapsed Time after Drilling Completed 21.47 ft, 4-3-02 @ 0730	
14. Total Depth of Hole 25ft		17. Over Water Level Measurements (Specify)	
18. Geotechnical Samples MW-912-61, 24-25 ft		Disturbed 0	Undisturbed 0
19. Total Number of Core Boxes 0			
20. Samples for Chemical Analysis		VOC	Metals
MWS-912-01, 02, 03		3	0
21. Total Core Recovery 100%		Other (Specify)	Other (Specify)
22. Disposition of Hole		Backfilled	Monitoring Well
Converted to monitoring well		NO	MW-912
		Other (Specify)	Forbes Atlas S-9
23. Signature of Inspector			

Elev a	Depth b	Lith c	Descriptions of Materials	Field Screening Results d	Geo-Tech Sample or Core Box No. e	Analytical Sample No. f	Pocket Penetrometer g	Remarks h
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BUREAU OF WATER

HTW DRILLING LOG

Hole No. MW-912

1. Project Forbes Atlas S-9

2. Inspector Jeffrey Finn

Sheet 2 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
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991.0	7.0				3-30-02 @ 0950	2.50 TFS	
		TILL-CH: black stained, silty clay, solvent odor.					
990.0	8.0					2.50 TFS	
989.0	9.0	TILL-CH: moist, high plasticity, silty clay, brown 10YR 4/3 mottled with yellowish brown 10YR 5/4, also traces of dark brown 7.5YR 3/4, small rounded pebbles throughout, occasional rose quartz fragments, occasional sand lenses.					
988.0	10.0					2.75 TFS	
987.0	11.0					4.00 TFS	
986.0	12.0		Headspace: 8.20 ppm				used 1 bag of std. 60 medium bentonite chips, top of bentonite @ 10.85 ft/bgs, grouted to top with portland cement/ bentonite/ water.
985.0	13.0		Headspace: 53.00 ppm				Used 7 bags of #5 quartz sand pack from 25.25 to 12.90 ft
984.0	14.0						
983.0	15.0			Run #3, 100%			groundwater was first

Project Forbes Atlas S-9

Hole No. MW-912

HTW DRILLING LOG

Hole No. MW-912

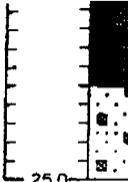
1. Project Forbes Atlas S-9			2. Inspector Jeffrey Finn			Sheet 3 of Sheets 4	
Elev a	Depth b	Descriptions of Materials c	Field Screening Results d	Geo-Tech Sample or Core Box No. e	Analytical Sample No. f	Pocket Penetrometer g	Remarks h

982.0	16.0						
981.0	17.0	TILL-CH: dry to moist, high plasticity, stiff, silty clay, light olive brown 2.5 Y 5/3 mottled with light brownish gray 2.5Y 6/2 and also yellowish brown 10YR 5/8, rounded to subrounded rock fragments throughout, occasional calcareous nodules, no odor.	Headspace: 373.00 ppm	recovered, 15-25 ft		2.00 TFS	encountered at approximately 15 ft/bgs
980.0	18.0						
979.0	19.0					1.75 TFS	
978.0	20.0	TILL-SP: wet to saturated, fine sand with coarser sand and gravel increasing with depth, brownish yellow 10YR 6/6, well graded, poorly sorted	Headspace: 225.00 ppm			1.50 TFS	
977.0	21.0					2.75 TFS	
976.0	22.0	TILL-CH: dry to moist, high plasticity, hard, silty clay, dark yellowish brown 10 YR 4/6 mottled with yellowish brown 10YR 5/6 and light olive gray 5Y 6/2, small rounded pebbles throughout, vertical sand stringers that are stained with iron oxide, no odor.	Headspace: 146.00 ppm			4.50 TFS	well set @ 25.25 ft/bgs, 3.10 ft. of riser, screened from 25.25 to 15.25 ft/bgs.
975.0	23.0						used a total of 165 gallons of water during drilling. recovered 75 gallons in drilling tub, recovered 80 gallons from annulus during grouting.
974.0	24.0						

HTW DRILLING LOG

Hole No.
MW-9121. Project
Forbes Atlas S-92. Inspector
Jeffrey FinnSheet 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
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973.0	25.0	 <p>TILL-GP: wet, Gravel with coarse grain sand, rounded to subrounded, no odor.</p>		collected MW-912-61, 3-30-02, 24-25 ft/bgs, coarse sand and gravel		3.75 TFS 4.20 TFS	a total of 10 gallons lost in borehole. Boring terminated @ 25 ft/bgs
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