

WATER WELL RECORD MW-16 Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: <u>Neosho</u> Distance and direction from nearest town or city street address of well if located within city?		Fraction <u>NW 1/4 NE 1/4 SE 1/4</u> Section Number <u>20</u> Township Number <u>T 27 S</u> Range Number <u>R 18 E</u>		Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: <u>N 37° 40.916'</u> Longitude: <u>W 95° 27.346'</u> Elevation: _____ Datum: _____ Data Collection Method: <u>Garmin</u>	
2 WATER WELL OWNER: <u>Washburn Amoco Service</u> RR#, St. Address, Box # : <u>202 W. Main Street</u> City, State, ZIP Code : <u>Chanute, KS</u>		4 DEPTH OF COMPLETED WELL <u>13.0</u> ft. Depth(s) Groundwater Encountered (1) <u>10.68</u> ft. (2) ft. (3) ft. WELL'S STATIC WATER LEVEL <u>10.68</u> ft. below land surface measured on mo/day/yr. <u>5/19/08</u> Pump test data: Well water was ft. after hours pumping gpm Est. Yield gpm: Well water was ft. after hours pumping gpm 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 Domestic (lawn & garden) <u>10 Monitoring well</u>			
3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: <div style="text-align: center;"> </div>		Was a chemical/bacteriological sample submitted to Department? Yes No <u>X</u>; If yes, mo/day/yr Sample was submitted <u>N/A</u> Water well disinfected? Yes No <u>X</u>			
5 TYPE OF CASING USED: 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) <u>Welded</u> <u>2 PVC</u> 4 ABS 7 Fiberglass <u>Threaded</u> Blank casing diameter in. to ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface in., Weight lbs./ft. Wall thickness or gauge No. <u>sch 40</u> TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass <u>7 PVC</u> 9 ABS 11 Other (Specify) 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot <u>3 Mill slot</u> 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw cut 10 Other (specify) SCREEN-PERFORATED INTERVALS: From <u>10</u> ft. to <u>13</u> ft., From ft. to ft. GRAVEL PACK INTERVALS: From <u>2.5</u> ft. to <u>13</u> ft., From ft. to ft. From ft. to ft., From ft. to ft.					
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout <u>3 Bentonite</u> 4 Other Grout Intervals: From <u>0</u> ft. to <u>2.5</u> 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 13 Insecticide storage 16 Other (specify) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well below 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 15 Oil well/gas well Direction from well? How many feet?					
FROM TO LITHOLOGIC LOG <div style="text-align: center; height: 100px;"> <u>See attached</u> </div>		FROM TO PLUGGING INTERVALS <div style="text-align: center; height: 100px;"> </div>			
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <u>(1) constructed</u> , (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>5-19-08</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>759</u> This Water Well Record was completed on (mo/day/year) <u>5-18-08</u> under the business name of <u>RAZEK Environmental, LLC</u> by (signature) <u>Amber J. Paulsen</u> INSTRUCTIONS: Use typewriter or ball point pen. <u>PLEASE PRESS FIRMLY</u> and <u>PRINT</u> clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each <u>constructed</u> well. Visit us at http://www.kdheks.gov/waterwell/index.html .					



Earth Science Solutions, Inc.

LOG OF WELL NO:

MW-16

SHEET NUMBER 1 OF 1

PROJECT NAME: Washburn Amoco Service U3-067-0003

PROJECT LOCATION: Emporia, Kansas

PROJECT NUMBER: COC-08-007

GEOLOGIST: Jason Davis

DRILLER: Tony Poultier / Razek Environmental

DRILLING/PROBING CONTRACTOR: Razek Environmental

DRILLING METHOD / BORE DIAMETER: hollow stem auger / 8" OD / 4.25" ID

SAMPLING METHOD: continuous sampler

TOTAL DEPTH (feet): 13.0 feet

START DATE: 05/09/08

COMPLETION DATE: 05/09/08

Static Water Level Data

Date 5/9/2008 Depth 10.68 ft

Survey Data

Ground Surface: 942.70

Latitude North: 37.68125

Longitude West: 95.45508

Top of casing: 942.52

SAMPLE DEPTH AND TIME	PID (PPMV)	LITHOLOGY (FEET)	DEPTH (FEET)	WELL COMPLETION
0-1 14:22	0		1	
			2	
1-5 14:22	1840		3	
			4	
			5	
			6	
			7	
5-10 14:49	1.1		8	
			9	
			10	
			11	
10-13 15:10	0		12	
		TD	13	
			14	
			15	
			16	
			17	
			18	
			19	
			20	
			21	
			22	
			23	
			24	
			25	

GEOLOGIC DESCRIPTION
(NAME, color, particle size, characteristics)

0.0-1.0 feet

0.0-0.5 feet fill

0.5-1.0 very fine sand, brown to tan in color

1.0-5.0 feet

1.0-5.0 (SP)-feet very fine sand, green and grey in color

small black stain from 4.0 to 4.1 feet petroleum odor

Continuous sampler pushed 0-5 feet

5.0-10.0 feet

5.0-10.0 (SP)-feet fine sand, light tan in color

Continuous sampler pushed 5-10 feet

Static water level 10.68 feet below top of casing 931.84 ft

10.0-13.0 feet

10.0-13.0 (SP)-feet fine sand, light tan in color

Continuous sampler pushed 10-13 feet

wet at 10.0 feet

Total depth achieved 12.5 feet bgs

NOTES:

Wells completed with sch 40

PVC. Casing Diameters:

O.D. 2.375 inches

I.D. 2.047 inches

Min wall thickness: 0.154 inches

Enviroplug

medium chip Bentonite

Bags of sand: 6

Bags of bentonite: 0.75

LEGEND:

SS - Split Spoon

PID - Photoionization Detector

NR - No Recovery

- Quartz sand

- Bentonite grout

- Concrete

- Gravel

- Sand

- Slotted screen

- PVC pipe

- Clay

- Static Water Level

ST - Shelby Tube

HSA - Hollow Stem Augers

PPMV - Parts Per Million by Volume