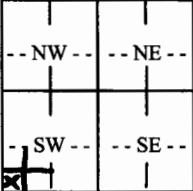


## WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

ASW-86A

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|
| <b>1 LOCATION OF WATER WELL:</b><br>County: <u>Wyandotte</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    | Fraction<br><u>SW 1/4 SW 1/4 SW 1/4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Section Number<br><u>27</u>                                                                                                                                                                          | Township Number<br><u>T 10 S</u> | Range Number<br><u>R 25 E</u> |
| Distance and direction from nearest town or city street address of well if located within city?<br><u>3226 Brinkerhoff Rd KC, KS 66115</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Global Positioning Systems (decimal degrees, min. of 4 digits)<br>Latitude: <u>39 08 42.96</u><br>Longitude: <u>94 37 14.31</u><br>Elevation: _____<br>Datum: _____<br>Data Collection Method: _____ |                                  |                               |
| <b>2 WATER WELL OWNER:</b><br>RR#, St. Address, Box # : <u>P.O. Box 5361 Kanawha Turnpike</u><br>City, State, ZIP Code : <u>South Charleston, WV 25303</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
| <b>3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:</b><br>N<br>W E<br>S<br>SW NE SE NW<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | <b>4 DEPTH OF COMPLETED WELL</b> ..... <u>55.0</u> ft.<br><br>Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.<br>WELL'S STATIC WATER LEVEL..... <u>20.27</u> ft. below land surface measured on mo/day/yr.....<br>Pump test data: Well water was.....ft. after..... hours pumping..... gpm<br>Est. Yield.....gpm: Well water was.....ft. after..... hours pumping..... gpm<br>WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well<br>1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)<br>2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well .....<br><br>Was a chemical/bacteriological sample submitted to Department? Yes ..... No <u>X</u> ..... If yes, mo/day/yr<br>Sample was submitted..... Water well disinfected? Yes ..... No <u>X</u> ..... |                                                                                                                                                                                                      |                                  |                               |
| <b>5 TYPE OF CASING USED:</b><br>1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below)<br><u>2 PVC</u> 4 ABS 7 Fiberglass<br>Blank casing diameter ..... in. to <u>1"</u> ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.<br>Casing height above land surface..... <u>24"</u> in., Weight ..... lbs./ft. Wall thickness or gauge No. <u>Sch. 40</u><br><b>TYPE OF SCREEN OR PERFORATION MATERIAL:</b><br>1 Steel 3 Stainless Steel 5 Fiberglass <u>7 PVC</u> 9 ABS 11 Other (Specify) .....<br>2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)<br><b>SCREEN OR PERFORATION OPENINGS ARE:</b><br>1 Continuous slot <u>2 Mill slot</u> 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole)<br>2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify) .....<br><b>SCREEN-PERFORATED INTERVALS:</b> From..... <u>54</u> ft. to ..... <u>55</u> ft., From ..... ft. to ..... ft.<br>From..... ft. to ..... ft., From ..... ft. to ..... ft.<br><b>GRAVEL PACK INTERVALS:</b> From..... <u>53</u> ft. to ..... <u>55</u> ft., From ..... ft. to ..... ft.<br>From..... <u>51</u> ft. to ..... <u>53</u> ft., From ..... ft. to ..... ft. |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
| <b>6 GROUT MATERIAL:</b> 1 Neat cement <u>2 Cement grout</u> 3 Bentonite 4 Other .....<br>Grout Intervals: From ..... <u>0</u> ft. to ..... <u>53</u> ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.<br>What is the nearest source of possible contamination:<br>1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage <u>16 Other (specify below)</u><br>2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well<br>3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well<br>Direction from well? ..... How many feet? .....<br><u>Old Air Sparge Wells</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TO | LITHOLOGIC LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                      | FROM                             | TO                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | <u>Sec Log</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | <b>7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:</b> This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>8-8-08</u> and this record is true to the best of my knowledge and belief.<br>Kansas Water Well Contractor's License No. <u>606</u> This Water Well Record was completed on (mo/day/year) <u>8-29-08</u><br>under the business name of <u>PSA Environmental</u> by (signature) <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                      |                                  |                               |
| <b>INSTRUCTIONS:</b> 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 <a href="http://www.kdheks.gov/waterwell/index.html">http://www.kdheks.gov/waterwell/index.html</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                      |                                  |                               |



|                                 |                               |              |
|---------------------------------|-------------------------------|--------------|
| PROJECT NUMBER<br><b>350383</b> | BORING NUMBER<br><b>AS-86</b> | SHEET 2 OF 2 |
| <b>SOIL BORING LOG</b>          |                               |              |

PROJECT : Dow Unison System Optimization LOCATION : Kansas City, Kansas  
 ELEVATION : 744.60 feet amsl DRILLING CONTRACTOR PSA Environmental  
 DRILLING METHOD AND EQUIPMENT USED : Geoprobe 6600 Rig  
 WATER LEVELS : Not observed START : 12/07/06 12:30 END : 12/07/06 14:00 LOGGER : Jeff Haberl

| DEPTH BELOW SURFACE (FT) |               |               |      | STANDARD                                             |                                                            | SOIL DESCRIPTION                                                                                                              |                                                                                                                                  | COMMENTS |  |
|--------------------------|---------------|---------------|------|------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|--|
|                          | INTERVAL (FT) | RECOVERY (IN) |      | PENETRATION<br>TEST<br>RESULTS<br>6"-6"-6"-6"<br>(N) |                                                            | SOIL NAME, USCS GROUP SYMBOL, COLOR,<br>MOISTURE CONTENT, RELATIVE DENSITY,<br>OR CONSISTENCY, SOIL STRUCTURE,<br>MINERALOGY. | DEPTH OF CASING, DRILLING RATE,<br>DRILLING FLUID LOSS,<br>TESTS, AND INSTRUMENTATION.<br>OVM (ppm): Breathing Zone    Headspace |          |  |
|                          |               | #             | TYPE |                                                      |                                                            |                                                                                                                               |                                                                                                                                  |          |  |
|                          |               |               |      |                                                      |                                                            |                                                                                                                               |                                                                                                                                  |          |  |
| 30-35'                   | NS            | GP            | --   |                                                      |                                                            |                                                                                                                               | --                                                                                                                               | --       |  |
| 35-40'                   | NS            | GP            | --   |                                                      |                                                            |                                                                                                                               | --                                                                                                                               | --       |  |
| 40-45'                   | 48"           | GP            | --   |                                                      | 40' SAND (SP), fine-grained, brown, wet                    |                                                                                                                               | --                                                                                                                               | --       |  |
| 45-50'                   | 36"           | GP            | --   |                                                      | 42.5-43' Two one-inch black medium-grained sand seams (SP) |                                                                                                                               | --                                                                                                                               | --       |  |
| 50-55'                   | 48"           | GP            | --   |                                                      | 46' Gray                                                   |                                                                                                                               | --                                                                                                                               | --       |  |
|                          |               |               |      |                                                      | 52.5' GRAVEL (GW), coarse, rounded                         |                                                                                                                               | --                                                                                                                               | --       |  |
|                          |               |               |      |                                                      | 52.6' SAND (SP), medium to coarse-grained, light gray, wet |                                                                                                                               |                                                                                                                                  |          |  |
|                          |               |               |      |                                                      | 54' LEAN CLAY (CL), gray, wet, very soft                   |                                                                                                                               |                                                                                                                                  |          |  |

Boring terminated at 55 feet bgs

GP = Geoprobe  
 NS = Not Sampled  
 amsl = above mean sea level  
 bgs = below ground surface