

**WATER WELL RECORD X5-81 Form WWC-5**

Division of Water Resources App. No.  

|   |   |  |                                 |   |
|---|---|--|---------------------------------|---|
| <b>1 LOCATION OF WATER WELL:</b><br>County: <u>SALINE</u>   | Fraction<br><u>SE 1/4 SW 1/4 NW 1/4</u> 1/4 | Section Number<br><u>12</u>  | Township No.<br>T <u>14</u> (S) | Range Number<br>R <u>3</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W |
| Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here <input type="checkbox"/><br><u>501 N. SANTE FE</u><br><u>SALINA KS 67401</u> |   | Global Positioning System (GPS) information:<br>Latitude: <u>38° 50' 56" N</u> (in decimal degrees)<br>Longitude: <u>97° 36' 35" W</u> (in decimal degrees)<br>Elevation: <u>1223'</u><br>Datum: <input type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27   |                                 |   |
| <b>2 WATER WELL OWNER:</b><br>RR#, Street Address, Box #: <u>MATADOR CATTLE CO.</u><br><u>4111 E. 37th ST. NORTH</u><br>City, State, ZIP Code: <u>WICHITA, KS 67220</u>   |   | Collection Method:<br><input type="checkbox"/> GPS unit (Make/Model: <u>I PHONE</u> )<br><input type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input type="checkbox"/> Land Survey<br>Est. Accuracy: <input type="checkbox"/> <3 m, <input type="checkbox"/> 3-5 m, <input type="checkbox"/> 5-15 m, <input type="checkbox"/> >15 m |                                 |   |

|   |    |    |    |  |   |   |  |   |  |    |    |  |   |
|---|----|----|----|--|---|---|--|---|--|----|----|--|---|
| <b>3 LOCATE WELL WITH AN "X" IN SECTION BOX:</b><br>N<br><table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr><td> </td><td>NW</td><td>NE</td><td> </td></tr> <tr><td>W</td><td>X</td><td> </td><td>E</td></tr> <tr><td> </td><td>SW</td><td>SE</td><td> </td></tr> </table><br>S<br> |    | NW | NE |  | W | X |  | E |  | SW | SE |  | <b>4 DEPTH OF COMPLETED WELL</b> <u>30'</u> ft.<br>Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.<br>WELL'S STATIC WATER LEVEL..... 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>Bore Hole Diameter <u>8"</u> in. to <u>30'</u> ft., and..... in. to..... ft.<br>WELL WATER TO BE USED AS: <input type="checkbox"/> Public water supply <input type="checkbox"/> Geothermal <input type="checkbox"/> Injection well<br><input type="checkbox"/> Domestic <input type="checkbox"/> Feedlot <input type="checkbox"/> Oil field water supply <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Other (Specify below)<br><input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Domestic-lawn & garden <input type="checkbox"/> Monitoring well <u>EXTRACTION</u><br>Was a chemical/bacteriological sample submitted to Department? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, mo/day/yr sample was submitted.....<br>Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|   | NW | NE |    |  |   |   |  |   |  |    |    |  |   |
| W   | X  |    | E  |  |   |   |  |   |  |    |    |  |   |
|   | SW | SE |    |  |   |   |  |   |  |    |    |  |   |

**5 TYPE OF CASING USED:**  Steel  PVC  Other STAINLESS STEEL

CASING JOINTS:  Glued  Clamped  Welded  Threaded  
 Casing diameter 4" in. to 5' ft., Diameter..... in. to..... ft., Diameter..... in. to..... ft.  
 Casing height above land surface..... 2' in., Weight..... lbs./ft., Wall thickness or gauge No. 304

TYPE OF SCREEN OR PERFORATION MATERIAL:  
 Steel  Stainless Steel  PVC  Other (Specify).....  
 Brass  Galvanized Steel  None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:  
 Continuous slot  Mill slot  Gauze wrapped  Torch cut  Drilled holes  None (open hole)  
 Louvered shutter  Key punched  Wire wrapped  Saw cut  Other (specify).....

SCREEN-PERFORATED INTERVALS: From..... 5' ft. to 30' ft., From..... ft. to..... ft.  
 From..... ft. to..... ft., From..... ft. to..... ft.

GRAVEL PACK INTERVALS: From..... 3' ft. to 30' ft., From..... ft. to..... ft.  
 From..... ft. to..... ft., From..... ft. to..... ft.

**6 GROUT MATERIAL:**  Neat cement  Cement grout  Bentonite  Other CLASS H / SILICA FLOUR GROUT

Grout Intervals: From..... 0' ft. to 3' ft., From..... ft. to..... ft., From..... ft. to..... ft.

What is the nearest source of possible contamination:  
 Septic tank  Lateral lines  Pit privy  Livestock pens  Insecticide storage  Other (specify below)  
 Sewer lines  Cesspool  Sewage lagoon  Fuel storage  Abandoned water well  
 Watertight sewer lines  Seepage pit  Feedyard  Fertilizer storage  Oil well/gas well N/A

Direction from well..... Distance from well.....

| FROM | TO  | LITHOLOGIC LOG        | FROM | TO | LITHO. LOG (cont.) or PLUGGING INTERVALS |
|------|-----|-----------------------|------|----|--|
| 0'   | 1'  | TOP SOIL / DIRT       |      |    |  |
| 1'   | 27' | BRN & KY CLAY TO CLAY |      |    |  |
| 27'  | 30' | SAND                  |      |    |  |
|      |     |                       |      |    |  |
|      |     |                       |      |    |  |
|      |     |                       |      |    |  |
|      |     |                       |      |    |  |

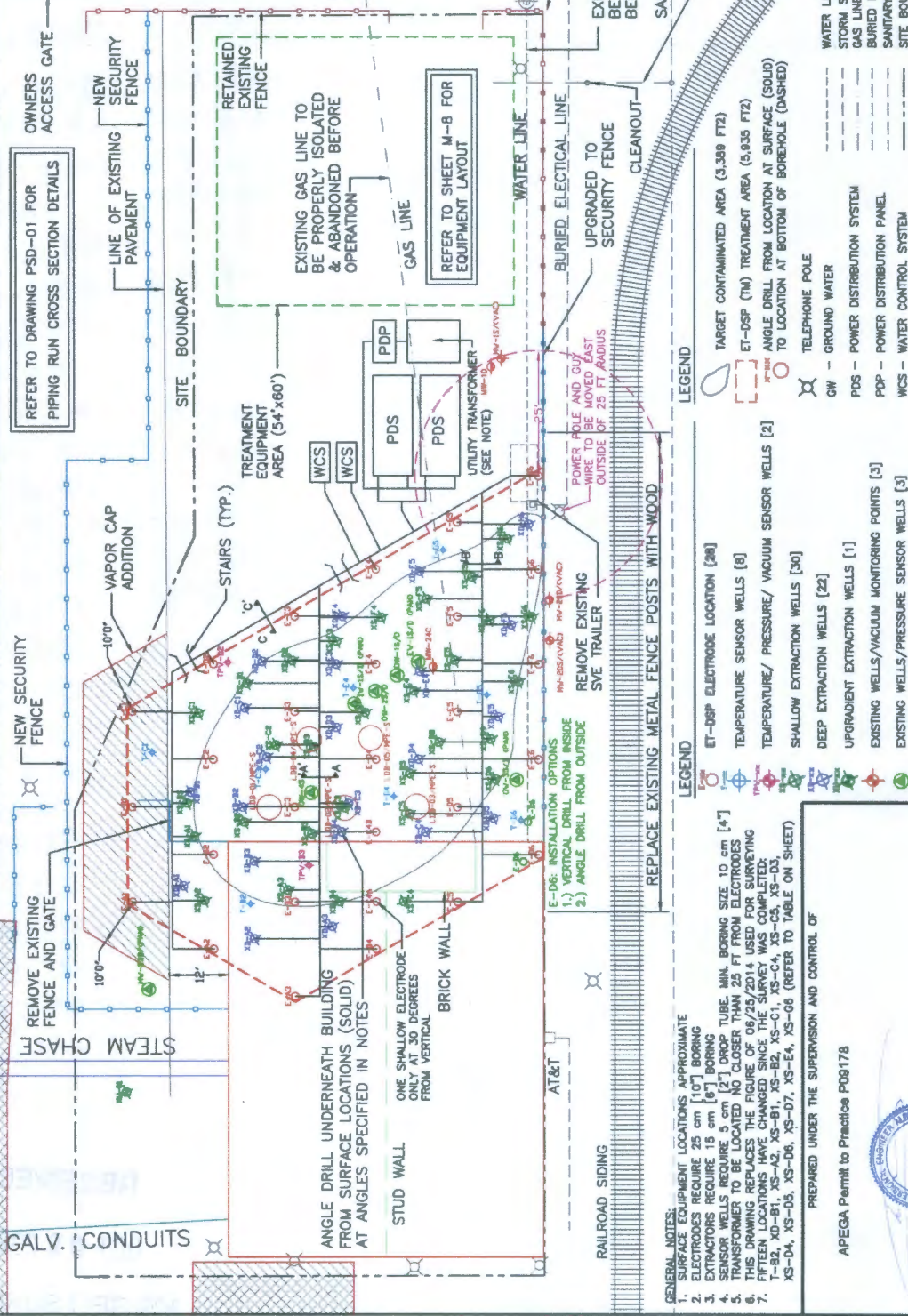
**7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo/day/year) 9/3/2014 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 793. This Water Well Record was completed on (mo/day/year) 9/24/14 under the business name of Cahay Pump Service by (signature) [Signature]

**INSTRUCTIONS:** Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks and check the correct answers. Send one copy to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5524. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>

**ANGLE DRILL NOTES:**  
 1. XD-B4: DIP TO WEST AT 8° FROM VERTICAL  
 2. E-C4R: DIP TO WEST AT 2° FROM VERTICAL  
 3. E-C4R: DIP TO WEST AT 4° FROM VERTICAL  
 4. E-C4A: DIP TO EAST AT 30° FROM VERTICAL  
 5. (ONE ELECTRODE ONLY)  
 IF SURFACE LOCATIONS ARE INACCESSIBLE DUE TO WALLS, MOVE BACK AND INCREASE ANGLE FROM VERTICAL (WITH MC APPROVAL)

**POST-SURVEY WELL ADJUSTMENTS**

| WELL I.D. | DISTANCE FROM SURVEYED LOCATION EAST (FT) | NORTH (FT) |
|-----------|---|------------|
| T-B2      | 0.0                                       | -2.5       |
| XD-B1     | -3.0                                      | 0.0        |
| XS-A2     | -7.0                                      | 4.0        |
| XS-B1     | -3.0                                      | 0.0        |
| XS-B2     | -3.0                                      | 3.0        |
| XS-C1     | 7.0                                       | 5.0        |
| XS-C4     | -14.0                                     | -3.0       |
| XS-C5     | -1.5                                      | 1.5        |
| XS-D3     | REMOVED                                   | REMOVED    |
| XS-D4     | REMOVED                                   | REMOVED    |
| XS-D5     | 0.0                                       | -1.5       |
| XS-D6     | 5.0                                       | -6.0       |
| XS-D7     | -2.0                                      | 0.0        |
| XS-E4     | -2.0                                      | -1.0       |
| XS-E6     | -3.5                                      | 1.0        |



# WFL-01

**WELL FIELD LAYOUT**  
**ARCADIS**  
**501 North Santa Fe Site**  
**SALINA, KANSAS**

**LEGEND**

- ET-DSP ELECTRODE LOCATION [20]
- TEMPERATURE SENSOR WELLS [8]
- TEMPERATURE/ PRESSURE/ VACUUM SENSOR WELLS [2]
- SHALLOW EXTRACTION WELLS [30]
- DEEP EXTRACTION WELLS [22]
- UPGRADIENT EXTRACTION WELLS [1]
- EXISTING WELLS/VACUUM MONITORING POINTS [3]
- EXISTING WELLS/PRESSURE SENSOR WELLS [5]

**LEGEND**

- GW - GROUND WATER
- PDS - POWER DISTRIBUTION SYSTEM
- PDP - POWER DISTRIBUTION PANEL
- WCS - WATER CONTROL SYSTEM

**GENERAL NOTES:**

- SURFACE EQUIPMENT LOCATIONS APPROXIMATE
- ELECTRODES REQUIRE 25 cm [10"] BORING
- EXTRACTORS REQUIRE 15 cm [6"] BORING
- SENSOR WELLS REQUIRE 5 cm [2"] DROP TUBE. MIN. BORING SIZE 10 cm [4"]
- TRANSFORMER TO BE LOCATED NO CLOSER THAN 25 FT FROM ELECTRODES
- THIS DRAWING REPLACES THE FIGURE OF 06/25/2014 USED FOR SURVEYING
- FIFTEEN LOCATIONS HAVE CHANGED SINCE THE SURVEY WAS COMPLETED.
- T-B2, XD-B1, XS-A2, XS-B1, XS-B2, XS-C1, XS-C4, XS-C5, XS-D3, XS-D4, XS-D5, XS-D6, XS-D7, XS-E4, XS-E6 (REFER TO TABLE ON SHEET)

PREPARED UNDER THE SUPERVISION AND CONTROL OF

APEGA Permit to Practice P08178

DAVID ASHLEY  
 JOURNALIST  
 REGISTERED PROFESSIONAL ENGINEER

July 15 2014