

**WATER WELL RECORD XD-F6 Form WWC-5**

Division of Water Resources App. No.  

<b>1 LOCATION OF WATER WELL:</b> County: <u>SALINE</u> 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"/> . <u>501 N. Sante Fe</u> <u>SALINA KS 67401</u>	Fraction <u>SE 1/4 SW 1/4 NW 1/4</u>	Section Number <u>12</u>	Township No. <u>T 14 S</u>	Range Number R <u>3</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W
<b>2 WATER WELL OWNER:</b> <u>MATADOR CATTLE CO.</u> RR#, Street Address, Box #: <u>4111 E. 37th St North</u> City, State, ZIP Code: <u>Wichita KS 67220</u>		<b>Global Positioning System (GPS) information:</b> Latitude: <u>38° 50' 50"</u> (in decimal degrees) Longitude: <u>97° 36' 34"</u> (in decimal degrees) Elevation: <u>1222'</u> Datum: <input type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27 Collection Method: <input type="checkbox"/> GPS unit (Make/Model: <u>I-Phone</u> ) <input type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input type="checkbox"/> Land Survey 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> N <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 25%;">NW</td> <td style="width: 25%;">NE</td> </tr> <tr> <td style="width: 25%; text-align: center;">X</td> <td style="width: 25%;"></td> </tr> <tr> <td>SW</td> <td>SE</td> </tr> </table> S  -----1 mile-----	NW	NE	X		SW	SE	<b>4 DEPTH OF COMPLETED WELL</b> <u>50'</u> ft. Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... <u>30'</u> ft. below land surface measured on mo/day/yr... <u>8/13/2014</u> 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 <u>8"</u> in. to <u>50'</u> ft., and..... in. to..... ft. WELL WATER TO BE USED AS: <input type="checkbox"/> Public water supply <input type="checkbox"/> Geothermal <input type="checkbox"/> Injection well <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) <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Domestic-lawn & garden <input type="checkbox"/> Monitoring well <u>EXTRACTION</u> Was a chemical/bacteriological sample submitted to Department? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, mo/day/yr sample was submitted..... Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
NW	NE						
X							
SW	SE						

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

CASING JOINTS:  Glued  Clamped  Welded  Threaded

Casing diameter 4" in. to 39' ft., Diameter..... in. to..... ft., Diameter..... in. to..... ft.  
 Casing height above land surface 24" in., Weight..... lbs./ft., Wall thickness or gauge No. 30X

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 39' ft. to 50' ft., From..... ft. to..... ft.  
 From..... ft. to..... ft., From..... ft. to..... ft.

GRAVEL PACK INTERVALS: From 35' ft. to 50' 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 FLOUA GROUT

Grout Intervals: From 0' ft. to 35' 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'	6"	CONCRETE			
6"	27'	mainly silty clay to clay BROWN			
27'	50'	SAND			

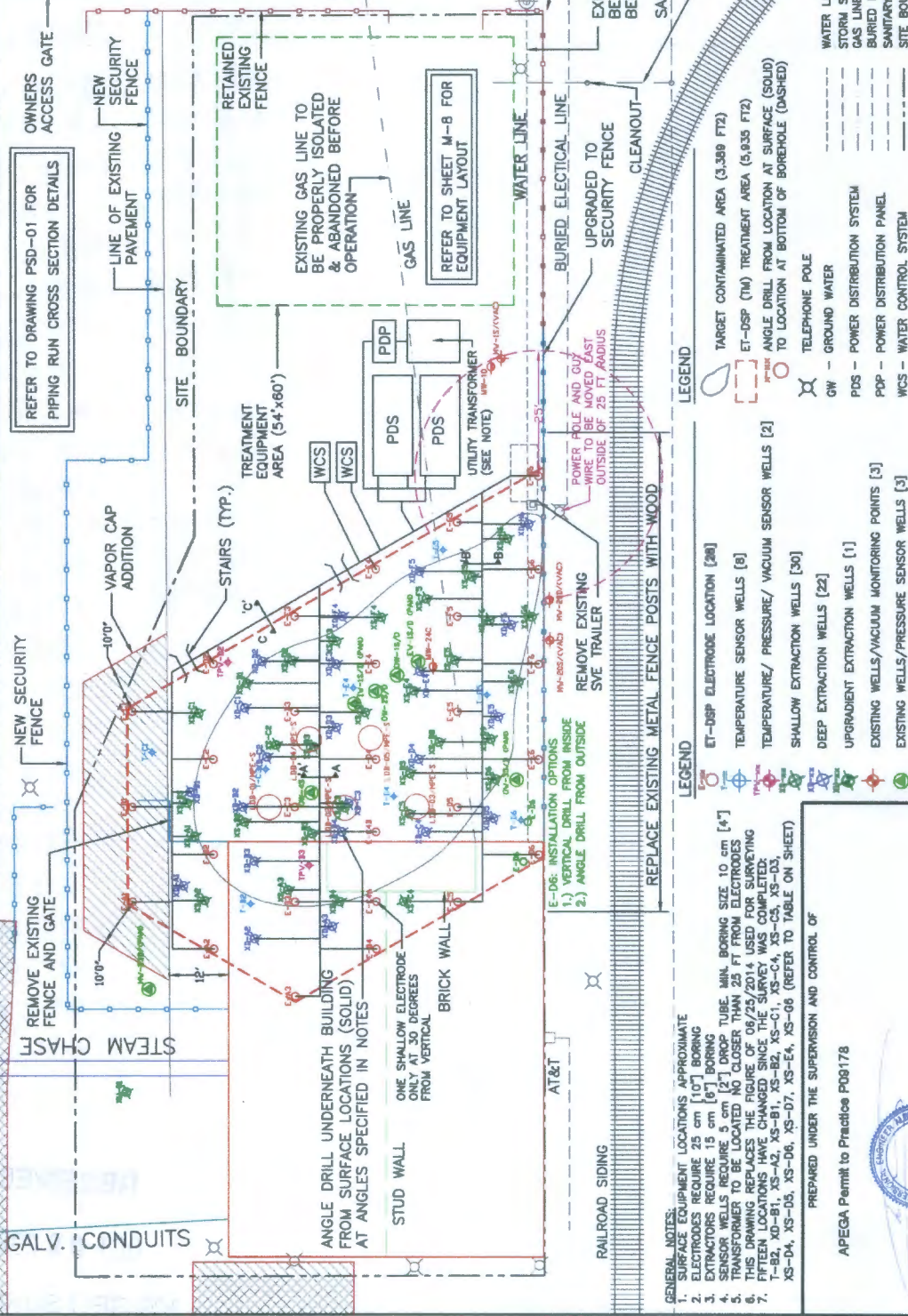
**7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo/day/year) 8/13/2014 and this record is true to the best of my knowledge and belief.  
 Kansas Water Well Contractor's License No. 793 This Water Well Record was completed on (mo/day/year) 9/24/14  
 under the business name of Cahoy 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-C4A: 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



**STORM SEWER LINE LOCATION**  
**SANITARY SEWER LINE**  
**APPROX.**

**CONTRACTORS ACCESS GATE (EXISTING)**  
**WATER METER**  
**RETAINED EXISTING FENCE**  
**EXISTING WATER LINE TO BE PROPERLY ISOLATED BEFORE OPERATION**  
**SANITARY SEWER LINE**  
**DISCHARGE TO EXISTING SANITARY SEWER**

**WATER LINE**  
**BURIED ELECTRICAL LINE**  
**UPGRADED TO SECURITY FENCE**  
**CLEANOUT**  
**REFER TO SHEET M-8 FOR EQUIPMENT LAYOUT**  
**GAS LINE**  
**EXISTING GAS LINE TO BE PROPERLY ISOLATED & ABANDONED BEFORE OPERATION**

**POWER HOLE AND CUT WIRE TO BE MOVED EAST TO LOCATION AT BOTTOM OF BOREHOLE (DASHED)**  
**UTILITY TRANSFORMER (SEE NOTE)**  
**PDP**  
**PDS**  
**WCS**  
**WCS**

**REMOVE EXISTING SVE TRAILER**  
**REPLACE EXISTING METAL FENCE POSTS WITH WOOD**  
**NEW SECURITY FENCE**  
**REMOVE EXISTING FENCE AND GATE**  
**NEW SECURITY FENCE**  
**LINE OF EXISTING PAVEMENT**  
**OWNERS ACCESS GATE**

**STUD WALL**  
**ONE SHALLOW ELECTRODE ONLY AT 30 DEGREES FROM VERTICAL**  
**BRICK WALL**  
**AT&T**  
**RAILROAD SIDING**

**ANGLE DRILL UNDERNEATH BUILDING FROM SURFACE LOCATIONS (SOLID)**  
**AT ANGLES SPECIFIED IN NOTES**  
**STAIRS (TYP.)**  
**VAPOR CAP ADDITION**  
**10'0"**  
**10'0"**  
**REMOVE EXISTING FENCE AND GATE**  
**NEW SECURITY FENCE**  
**REFER TO DRAWING PSD-01 FOR PIPING RUN CROSS SECTION DETAILS**

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

**LEGEND**  
 TARGET CONTAMINATED AREA (3,389 FT<sup>2</sup>)  
 ET-DSP (TM) TREATMENT AREA (5,935 FT<sup>2</sup>)  
 ANGLE DRILL FROM LOCATION AT SURFACE (SOLID)  
 TO LOCATION AT BOTTOM OF BOREHOLE (DASHED)

**LEGEND**  
 TELEPHONE POLE  
 GW - GROUND WATER  
 PDS - POWER DISTRIBUTION SYSTEM  
 PDP - POWER DISTRIBUTION PANEL  
 WCS - WATER CONTROL SYSTEM

**SCALE IN FEET**  
 0 10 20

**GENERAL NOTES:**  
 1. SURFACE EQUIPMENT LOCATIONS APPROXIMATE  
 2. ELECTRODES REQUIRE 25 cm [10"] BORING  
 3. EXTRACTORS REQUIRE 15 cm [6"] BORING  
 4. SENSOR WELLS REQUIRE 5 cm [2"] DROP TUBE. MIN. BORING SIZE 10 cm [4"]  
 5. TRANSFORMER TO BE LOCATED NO CLOSER THAN 25 FT FROM ELECTRODES  
 6. THIS DRAWING REPLACES THE FIGURE OF 06/25/2014 USED FOR SURVEYING  
 7. 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



July 15 2014

**ILLAN-MCGEE CORP.**  
 CONSULTING ENGINEERS & CONSULTANTS  
 CALGARY, ALBERTA, CANADA  
 PH: (403) 263-8100 FAX: (403) 272-7251

NO.	SYMBOL	POST-SURVEY WELL ADJUSTMENTS	FN	TS	DS
01		FINAL WELL FIELD LAYOUT	FN	TS	DS
02		TEMPERATURE/ PRESSURE/ VACUUM SENSOR WELLS [2]	FN	TS	DS
03		SHALLOW EXTRACTION WELLS [30]	FN	TS	DS
04		DEEP EXTRACTION WELLS [22]	FN	TS	DS
05		UPGRADATION EXTRACTION WELLS [1]	FN	TS	DS
06		EXISTING WELLS/VACUUM MONITORING POINTS [3]	FN	TS	DS
07		EXISTING WELLS/PRESSURE SENSOR WELLS [5]	FN	TS	DS
08		UTILITY TRANSFORMER (SEE NOTE)	FN	TS	DS
09		POWER DISTRIBUTION SYSTEM	FN	TS	DS
10		POWER DISTRIBUTION PANEL	FN	TS	DS
11		WATER CONTROL SYSTEM	FN	TS	DS
12		TELEPHONE POLE	FN	TS	DS
13		GROUND WATER	FN	TS	DS
14		WATER LINE	FN	TS	DS
15		STORM SEWER LINE	FN	TS	DS
16		GAS LINE	FN	TS	DS
17		BURIED ELECTRICAL LINE	FN	TS	DS
18		SANITARY SEWER	FN	TS	DS
19		SITE BOUNDARY	FN	TS	DS

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

**WFL-01**