

WATER WELL RECORD XS-D3 Form WWC-5

Division of Water Resources App. No.

1 LOCATION OF WATER WELL: County: <u>SALINE</u>	Fraction <u>SE 1/4 SW 1/4 NW 1/4</u> 1/4	Section Number <u>12</u>	Township No. T <u>14</u> (S)	Range Number 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"/> <u>501 N. SANTE FE SALINA KS 67401</u>		Global Positioning System (GPS) information: Latitude: <u>38° 50' 56" N</u> (in decimal degrees) Longitude: <u>97° 36' 35" W</u> (in decimal degrees) Elevation: <u>1222'</u> Datum: <input type="checkbox"/> WGS 84, <input type="checkbox"/> NAD 83, <input type="checkbox"/> NAD 27		
2 WATER WELL OWNER: RR#, Street Address, Box #: <u>MATADOR CATTLE CO. 4111 E. 37TH ST. NORTH WICHITA, KS 67220</u> City, State, ZIP Code		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		

3 LOCATE WELL WITH AN "X" IN SECTION BOX: N <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td>X</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> S 					X					4 DEPTH OF COMPLETED WELL <u>30'</u> ft. Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... ft. below land surface measured on mo/day/yr..... 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>30'</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
	X									

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..... 24" in., Weight lbs./ft., Wall thickness or gauge No. 30H

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
<u>0'</u>	<u>6"</u>	<u>CONCRETE</u>			
<u>6"</u>	<u>27'</u>	<u>BROWN Salty Clay / clay</u>			
<u>27'</u>	<u>30'</u>	<u>SAND</u>			

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) 9/12/2014 and this record is true to the best of my knowledge and belief.

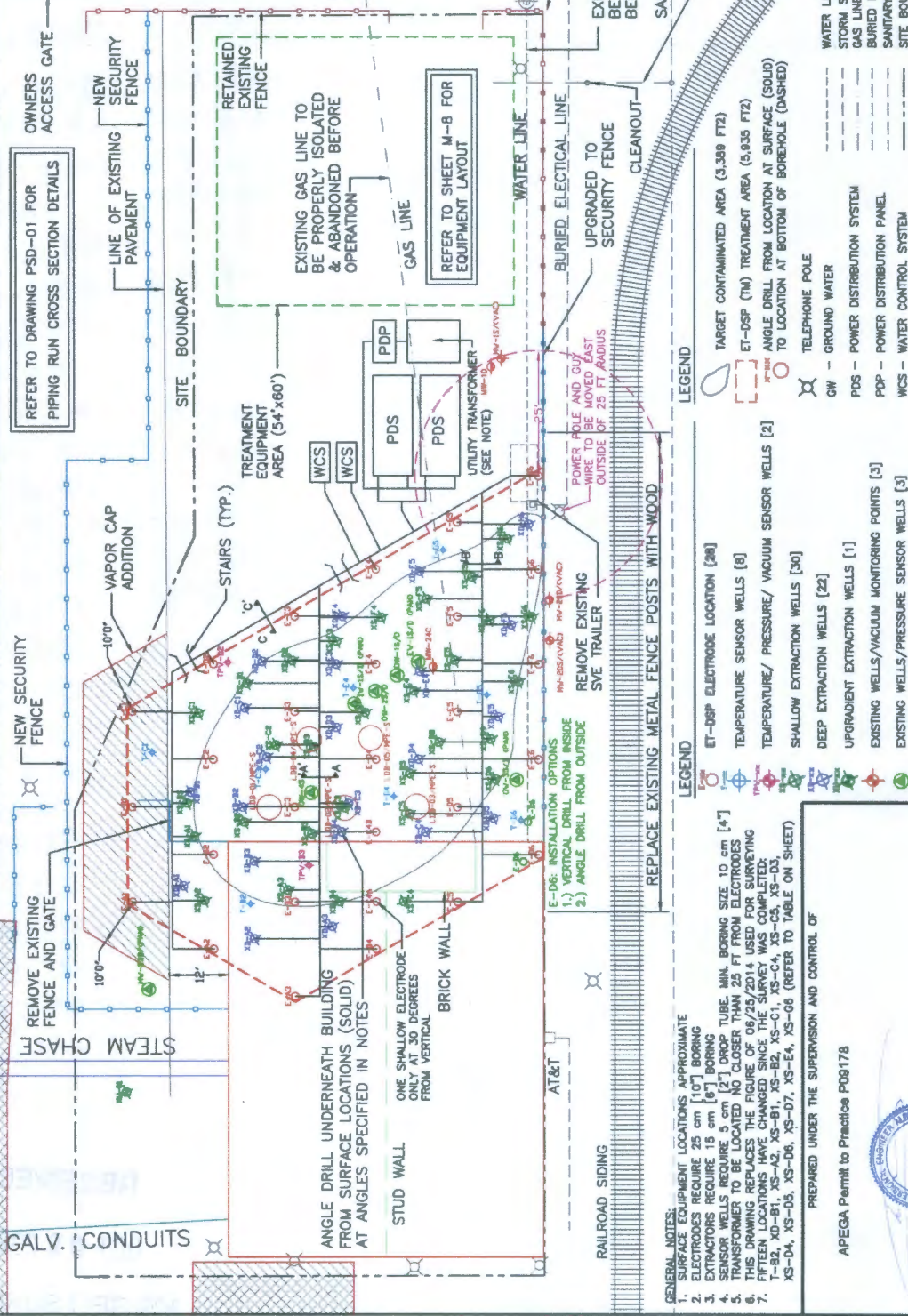
Kansas Water Well Contractor's License No. 793 This Water Well Record was completed on (mo/day/year) 9/24/14 under the business name of Lahoy Pump Service by (signature) [Signature]

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



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)

E-D6: INSTALLATION OPTIONS
 1.) VERTICAL DRILL FROM INSIDE
 2.) ANGLE DRILL FROM OUTSIDE

POWER HOLE AND CUT LAST WIRE TO BE MOVED EAST TO LOCATION AT BOTTOM OF BOREHOLE (DASHED)

LEGEND

- ET-DSP ELECTRODE LOCATION [20]
- TEMPERATURE SENSOR WELLS [8]
- TEMPERATURE/ PRESSURE/ VACUUM SENSOR WELLS [2]
- SHALLOW EXTRACTION WELLS [30]
- DEEP EXTRACTION WELLS [22]
- UPGRADABLE 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
- TELEPHONE POLE
- WATER LINE
- STORM SEWER LINE
- GAS LINE
- BURIED ELECTRICAL LINE
- SANITARY SEWER
- SITE BOUNDARY

LEGEND

- REFER TO DRAWING PSD-01 FOR PIPING RUN CROSS SECTION DETAILS
- OWNERS ACCESS GATE
- NEW SECURITY FENCE
- REMOVE EXISTING FENCE AND GATE
- STEAM CHASE
- REMOVE EXISTING VAPOR CAP ADDITION
- STAIRS (TYP.)
- TREATMENT EQUIPMENT AREA (54'x60')
- WCS
- PDS
- UTILITY TRANSFORMER (SEE NOTE)
- WATER METER
- CONTRACTORS ACCESS GATE (EXISTING)
- WATER
- RETAINED EXISTING FENCE
- EXISTING GAS LINE TO BE PROPERLY ISOLATED & ABANDONED BEFORE OPERATION
- GAS LINE
- REFER TO SHEET M-8 FOR EQUIPMENT LAYOUT
- WATER LINE
- BURIED ELECTRICAL LINE
- UPGRADED TO SECURITY FENCE
- CLEANOUT
- EXISTING WATER LINE TO BE PROPERLY ISOLATED BEFORE OPERATION
- SANITARY SEWER LINE
- DISCHARGE TO EXISTING SANITARY SEWER
- APPROX. SANITARY SEWER LINE LOCATION
- SCALE IN FEET

WFL-01

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

REVISIONS

NO.	DATE	BY	DESCRIPTION
01			ISSUE FOR PERMIT
02			REVISED ELECTRODE LOCATIONS
03			REVISED ELECTRODE LOCATIONS
04			REVISED ELECTRODE LOCATIONS
05			REVISED ELECTRODE LOCATIONS
06			REVISED ELECTRODE LOCATIONS
07			REVISED ELECTRODE LOCATIONS
08			REVISED ELECTRODE LOCATIONS
09			REVISED ELECTRODE LOCATIONS
10			REVISED ELECTRODE LOCATIONS
11			REVISED ELECTRODE LOCATIONS
12			REVISED ELECTRODE LOCATIONS
13			REVISED ELECTRODE LOCATIONS
14			REVISED ELECTRODE LOCATIONS
15			REVISED ELECTRODE LOCATIONS
16			REVISED ELECTRODE LOCATIONS
17			REVISED ELECTRODE LOCATIONS
18			REVISED ELECTRODE LOCATIONS
19			REVISED ELECTRODE LOCATIONS
20			REVISED ELECTRODE LOCATIONS
21			REVISED ELECTRODE LOCATIONS
22			REVISED ELECTRODE LOCATIONS
23			REVISED ELECTRODE LOCATIONS
24			REVISED ELECTRODE LOCATIONS
25			REVISED ELECTRODE LOCATIONS
26			REVISED ELECTRODE LOCATIONS
27			REVISED ELECTRODE LOCATIONS
28			REVISED ELECTRODE LOCATIONS
29			REVISED ELECTRODE LOCATIONS
30			REVISED ELECTRODE LOCATIONS
31			REVISED ELECTRODE LOCATIONS
32			REVISED ELECTRODE LOCATIONS
33			REVISED ELECTRODE LOCATIONS
34			REVISED ELECTRODE LOCATIONS
35			REVISED ELECTRODE LOCATIONS
36			REVISED ELECTRODE LOCATIONS
37			REVISED ELECTRODE LOCATIONS
38			REVISED ELECTRODE LOCATIONS
39			REVISED ELECTRODE LOCATIONS
40			REVISED ELECTRODE LOCATIONS
41			REVISED ELECTRODE LOCATIONS
42			REVISED ELECTRODE LOCATIONS
43			REVISED ELECTRODE LOCATIONS
44			REVISED ELECTRODE LOCATIONS
45			REVISED ELECTRODE LOCATIONS
46			REVISED ELECTRODE LOCATIONS
47			REVISED ELECTRODE LOCATIONS
48			REVISED ELECTRODE LOCATIONS
49			REVISED ELECTRODE LOCATIONS
50			REVISED ELECTRODE LOCATIONS

ILLAN-MCGEE CORP.
 CONSULTING ENGINEERS & GEOTECHNICAL INVESTIGATORS
 1000 WEST 10TH AVENUE, SUITE 100
 CALUMET, ALABAMA 36508-3146
 PH: (205) 855-6100 FAX: (205) 855-7920

DAVID ASHLEY
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 10000

July 15 2014

PREPARED UNDER THE SUPERVISION AND CONTROL OF
 APEGA Permit to Practice P08178