WATER WELL RECORD X D-04 **Form WWC-5** Division of Water Resources App. No. ____

1 LOCATION OF WATER WELL: County: SALINE | Fraction: SE ¼ SW ¼ NW ¼ ¼ | Section Number: 12 | Township No. T 14 (S) | Range Number R 3 ☐E ☒W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
501 N. SANTE FE
SALINA KS 67401

Global Positioning System (GPS) information:
Latitude: 38° 50' 56" N (in decimal degrees)
Longitude: 97° 36' 34" W (in decimal degrees)
Elevation: 1223'
Datum: ☐ WGS 84, ☐ NAD 83, ☐ NAD 27
Collection Method: ☐ GPS unit (Make/Model: I-Phone), ☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☐ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: RR#, Street Address, Box #: MATADOR CATTLE CO. 4111 E. 37TH ST. NORTH
City, State, ZIP Code: Wichita, KS 67220

3 LOCATE WELL WITH AN "X" IN SECTION BOX:

N
W | -- NW -- | -- NE -- | E
X
-- SW -- | -- SE --
S
|-------1 mile-------|

4 DEPTH OF COMPLETED WELL 50' ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL 32' ft. below land surface measured on mo/day/yr. 9/10/2014
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 8" in. to 50' ft., and ..... in. to ..... ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☒ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☐ Monitoring well EXTRACTION
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☒ No
If yes, mo/day/yr sample was submitted.....
Water well disinfected? ☐ Yes ☒ No

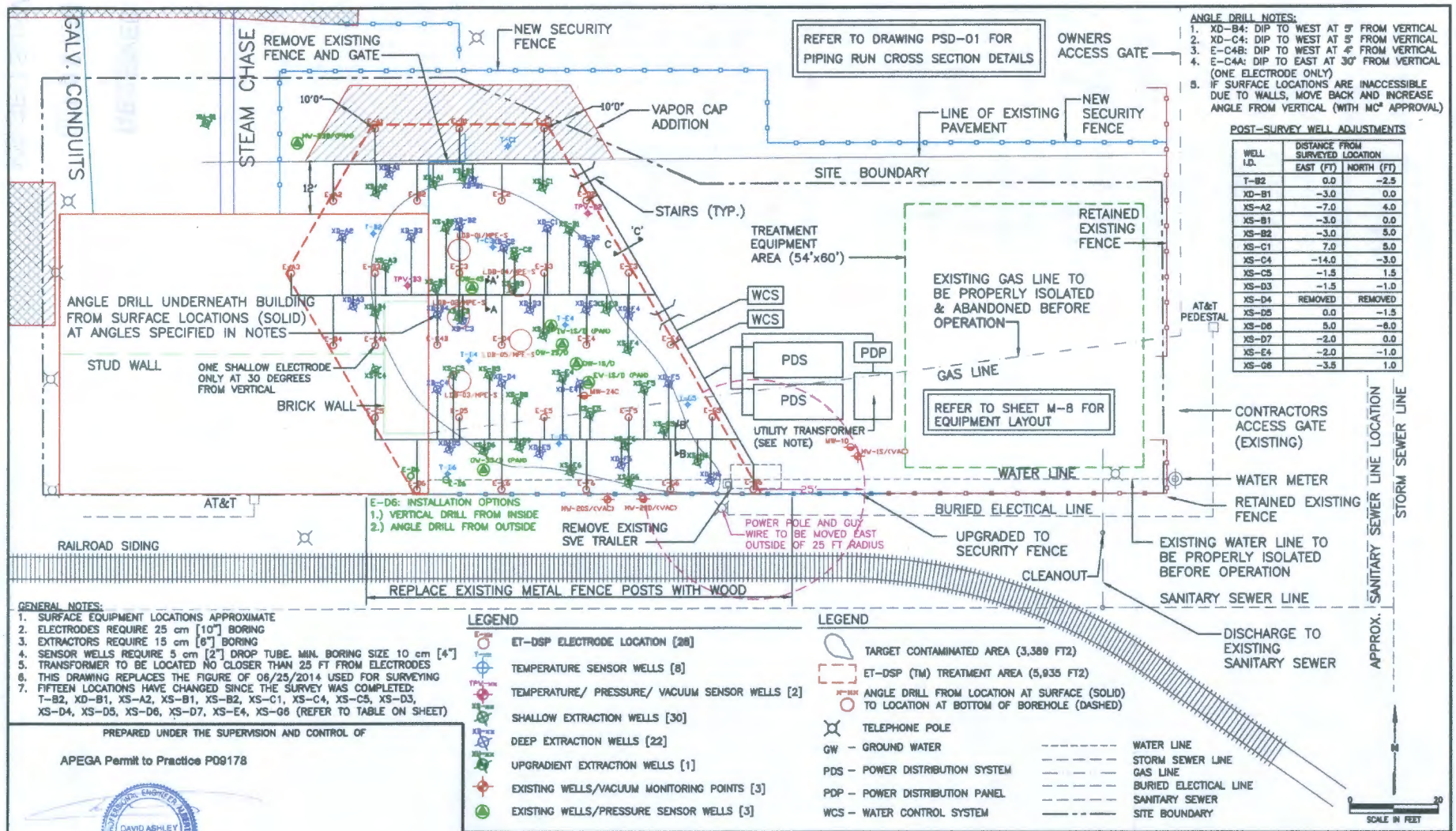
5 TYPE OF CASING USED: ☐ Steel ☐ PVC ☐ Other STAINLESS STEEL
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☒ Threaded
Casing diameter 4" in. to 39' ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 2' in., Weight ..... lbs./ft., Wall thickness or gauge 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 39' ft. to 50' ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 37' 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 Flour Grout
Grout Intervals: From 0' ft. to 37' 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'	BROWN Silty Clay / Clay			
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) 9/10/2014 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 5° FROM VERTICAL
2. XD-C4: DIP TO WEST AT 5° FROM VERTICAL
3. E-C4B: DIP TO WEST AT 4° FROM VERTICAL
4. E-C4A: DIP TO EAST AT 30° FROM VERTICAL (ONE ELECTRODE ONLY)
5. IF SURFACE LOCATIONS ARE INACCESSIBLE DUE TO WALLS, MOVE BACK AND INCREASE ANGLE FROM VERTICAL (WITH MC² 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	5.0
XS-C1	7.0	5.0
XS-C4	-14.0	-3.0
XS-C5	-1.5	1.5
XS-D3	-1.5	-1.0
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-G6	-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-G6 (REFER TO TABLE ON SHEET)

LEGEND

- ET-DSP ELECTRODE LOCATION [28]
- 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 [3]

LEGEND

- TARGET CONTAMINATED AREA (3,389 FT2)
- ET-DSP (TM) TREATMENT AREA (5,935 FT2)
- ANGLE DRILL FROM LOCATION AT SURFACE (SOLID) TO LOCATION AT BOTTOM OF BOREHOLE (DASHED)
- TELEPHONE POLE
- GW – GROUND WATER
- PDS – POWER DISTRIBUTION SYSTEM
- PDP – POWER DISTRIBUTION PANEL
- WCS – WATER CONTROL SYSTEM
- WATER LINE
- STORM SEWER LINE
- GAS LINE
- BURIED ELECTICAL LINE
- SANITARY SEWER
- SITE BOUNDARY

PREPARED UNDER THE SUPERVISION AND CONTROL OF

APEGA Permit to Practice P09178

DAVID ASHLEY ROUNTREE — PROFESSIONAL ENGINEER, ALBERTA — LICENSED TO PRACTICE

July 15 2014

MCLLAN-MCGEE CORP.
CREATORS OF ET-DSP™
ELECTROKINETIC SYSTEMS & SERVICES FOR THE ENERGY & ENVIRONMENTAL INDUSTRIES
4899-399 ST. SE
CALGARY, ALBERTA T2E 3N9 CANADA
PH: 403.969.8100 FAX: 403.272.7301

REV.	DATE (MM/YY)	DESCRIPTION	DRAWN BY	CHK'D BY	Approved By
C2	07/14/2014	POST-SURVEY WELL ADJUSTMENTS	PH	TS	DR
C1	06/25/2014	FINAL WELL FIELD LAYOUT	PH	TS	DR
B4	06/23/2014	MODIFIED ELECTRODE LOCATIONS	PH	TS	DR
A3	06/06/2014	FOR REVIEW	AG	TS	DR
A1	06/03/2014	DRAFT	AG	TS	DR
APEGA PERMIT		P09178	SCALE:	1"=20'	

TITLE:

WELL FIELD LAYOUT

ARCADIS

CLIENT: **501 North Santa Fe Site**

SALINA, KANSAS

SHEET:

WFL-01