WATER WELL RECORD T-D4 **Form WWC-5** Division of Water Resources App. No. _____

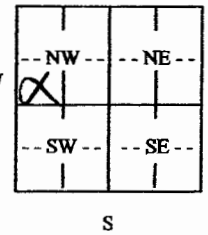
1 LOCATION OF WATER WELL: County: SALINE	Fraction: SE ¼ SW ¼ NW ¼ ¼	Section Number: 12	Township No.: T 14 S	Range Number: R 3 ☐E ☒W

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' 35" W (in decimal degrees)
Elevation: 1221'
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: MATADOR CATTLE CO.
RR#, Street Address, Box #: 4111 E. 37th ST North
City, State, ZIP Code: Wichita KS 67220

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



4 DEPTH OF COMPLETED WELL 60' ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL.... 33' ft. below land surface measured on mo/day/yr. 9/7/2014
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 6" in. to 60' 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 TEMPERATURE SENSING WELL
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 ... Low Carbon Steel
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☒ Threaded
Casing diameter 1" in. to 60' ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 2' in., Weight ..... lbs./ft., Wall thickness or gauge No. Sch 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☐ PVC ☒ Other (Specify) NO SCREEN / 1" STEEL CASING ONLY w/ BOTTOM CAP
☐ 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..... ft. to ..... ft., From ..... ft. to ..... ft.
From..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From..... ft. to ..... ft., From ..... ft. to ..... ft.
From..... ft. to ..... ft., From ..... ft. to ..... ft.

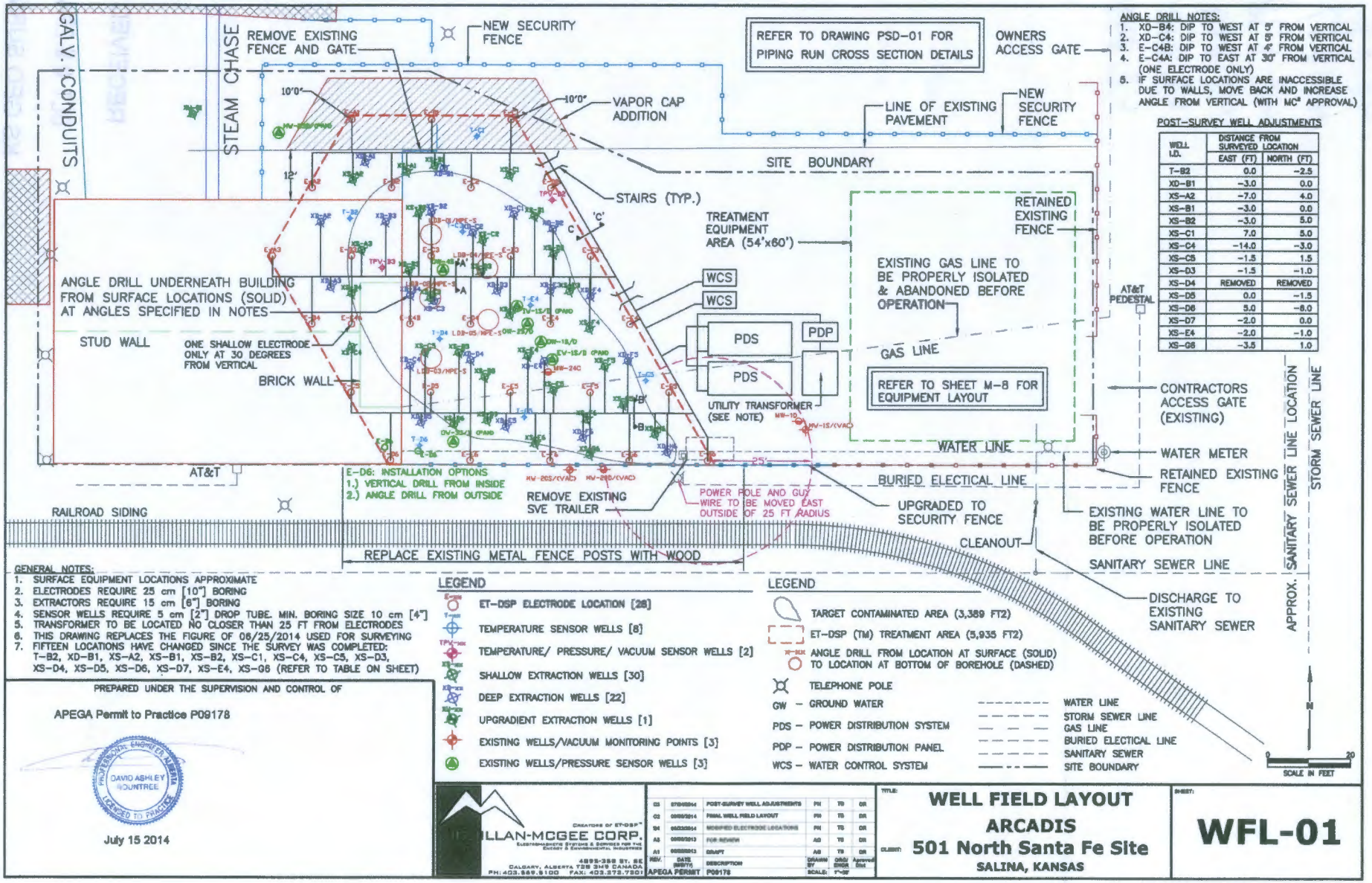
6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☐ Bentonite ☒ Other Class H / Silica Flour Grout
Grout Intervals: From 0' ft. to 60' ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock 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 .....
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'	60'	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) 9/7/2014 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 Carey Pump Service by (signature) .....

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) 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.

KSA 82a-1212


CALV. CONDUITS
STEAM CHASE
REMOVE EXISTING FENCE AND GATE
NEW SECURITY FENCE
REFER TO DRAWING PSD-01 FOR PIPING RUN CROSS SECTION DETAILS
OWNERS ACCESS GATE
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 -8.0
XS-D7 -2.0 0.0
XS-E4 -2.0 -1.0
XS-G8 -3.5 1.0
10'0"
12'
VAPOR CAP ADDITION
LINE OF EXISTING PAVEMENT
NEW SECURITY FENCE
SITE BOUNDARY
STAIRS (TYP.)
TREATMENT EQUIPMENT AREA (54'x60')
RETAINED EXISTING FENCE
EXISTING GAS LINE TO BE PROPERLY ISOLATED & ABANDONED BEFORE OPERATION
AT&T PEDESTAL
ANGLE DRILL UNDERNEATH BUILDING FROM SURFACE LOCATIONS (SOLID) AT ANGLES SPECIFIED IN NOTES
STUD WALL
ONE SHALLOW ELECTRODE ONLY AT 30 DEGREES FROM VERTICAL
BRICK WALL
WCS
WCS
PDS
PDP
PDS
UTILITY TRANSFORMER (SEE NOTE)
GAS LINE
REFER TO SHEET M-8 FOR EQUIPMENT LAYOUT
CONTRACTORS ACCESS GATE (EXISTING)
WATER METER
RETAINED EXISTING FENCE
WATER LINE
BURIED ELECTICAL LINE
AT&T
E-D6: INSTALLATION OPTIONS
1.) VERTICAL DRILL FROM INSIDE
2.) ANGLE DRILL FROM OUTSIDE
REMOVE EXISTING SVE TRAILER
POWER POLE AND GUY WIRE TO BE MOVED EAST OUTSIDE OF 25 FT RADIUS
UPGRADED TO SECURITY FENCE
EXISTING WATER LINE TO BE PROPERLY ISOLATED BEFORE OPERATION
CLEANOUT
SANITARY SEWER LINE
DISCHARGE TO EXISTING SANITARY SEWER
APPROX. SANITARY SEWER LINE LOCATION
STORM SEWER LINE
RAILROAD SIDING
REPLACE EXISTING METAL FENCE POSTS WITH WOOD
25'
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-G8 (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
0 20
SCALE IN FEET
PREPARED UNDER THE SUPERVISION AND CONTROL OF
APEGA Permit to Practice P09178
DAVID ASHLEY MOUNTREE
PROFESSIONAL ENGINEER IN ALBERTA
LICENSED TO PRACTICE
July 15 2014
MCGEE CORP.
CREATORS OF ET-DSP
ELECTROMAGNETIC SYSTEMS & SERVICES FOR THE ENERGY & ENVIRONMENTAL INDUSTRIES
4899-358 ST. SE
CALGARY, ALBERTA T2B 3H9 CANADA
PH: 403.569.9100 FAX: 403.272.7201
C3 07/01/2014 POST-SURVEY WELL ADJUSTMENTS PH TB DR
C2 06/30/2014 FINAL WELL FIELD LAYOUT PH TB DR
B4 06/23/2014 MODIFIED ELECTRODE LOCATIONS PH TB DR
A2 06/05/2013 FOR REVIEW AG TB DR
A1 05/22/2013 DRAFT AG TB DR
REV. DATE (MM/DD/YY) DESCRIPTION DRAWN BY CHKD BY Approved Dist
APEGA PERMIT P09178 SCALE: 1"=30'
TITLE:
WELL FIELD LAYOUT
ARCADIS
CLIENT: 501 North Santa Fe Site
SALINA, KANSAS
SHEET:
WFL-01