

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

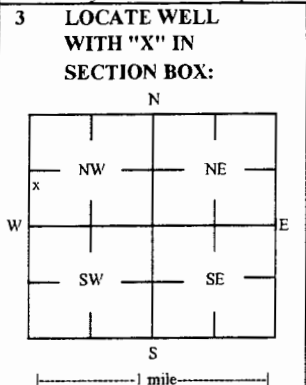
Well ID

MW4

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Wyandotte Fraction NW 1/4 NW 1/4 SW 1/4 NW 1/4 Section Number 16 Township Number T 11 S Range Number R 25 E W

2 WELL OWNER: Last Name: Business: KDHE Address: 1000 SW Jackson Blvd City Topeka State KS ZIP: 66612 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: -90' E of 214 S. 18th St., Kansas City, KS



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 20.17 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) Dry Well WELL'S STATIC WATER LEVEL: 11.1 ft. X below land surface, measured on (mo-day-yr) 11/23/16

5 Latitude: 39.09826 (decimal degrees) Longitude: 94.64922 (decimal degrees) Horizontal Datum: X WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model): (WAAS enabled? Yes No) X Land Survey Topographic Map Online Mapper 6 Elevation 955.82 ft Ground Level X TOC Source: X Land Survey GPS Topographic Map Other

7 WELL WATER TO BE USED AS: 1 Domestic: Household Lawn & Garden Livestock Irrigation Feedlot Industrial 2 Public Water Supply: well ID 3 Dewatering: how many wells? 4 Aquifer Recharge: well ID 5 Monitoring: well ID MW4 6 Environmental Remediation: well ID Air Sparge Soil Vapor Extractor Recovery Injection 7 Oil Field Water Supply: lease 8 Test Hole: well ID Cased Uncased Geotechnical 9 Geothermal: How many bores? a) Closed Loop Horizontal Vertical b) Open Loop Surface Discharge Inj. of Water Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes X No If yes, date sample was submitted: Water well disinfected? Yes X No

8 TYPE OF CASING USED: Steel X PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 10.17 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.25 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass X PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot X Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 10.17 ft. to 20.17 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 9 ft. to 20.5 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: Neat cement Cement grout X Bentonite X Other Concrete: 0-0.5' Grout intervals: From 0.5 ft. to 9 ft, From ft. to ft, From ft. to ft,

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon X Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specify) Direction from well? SW Distance from well? ~110 ft

10 FROM TO LITHOLOGIC LOG FROM TO LITHO. LOG (cont.) or PLUGGING INTERVALS

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.2	Gravel/topsoil			
0.2	6.5	Silt			
6.5	13	Weathered shale			
13	13.5	Sandstone			
13.5	17	Claystone/siltstone			
17	20.5	Shale			

Notes: KDHE ID: Former Central States Facility; U4-105-14855 Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE.

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 11/14/16 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No 757 This Water Well Record was completed on (mo-day-year) 12/13/16 under the business name of Larsen & Associates, Inc. Signature

DENNIS L HANDKE

1820 NW 59th Terrace
TOPEKA, KANSAS 66618
785-286-4047 Home
785-286-1990 Fax

Jesse Chapman
Larsen & Assoc.
1311 E. 25th St., Suite B
Lawrence, Kansas, 66046

December 8, 2016
Revised December 13, 2016

RE: Monitor Well Elevation Survey
214 S. 18th Street, Kansas City, Kansas

Proj. 16-00Z
KDHE ID# U4-105-14855
Former Central States Facility

Bench Mark: Square cut on Southeast corner of Northwest concrete signal light base near the NE corner of property.

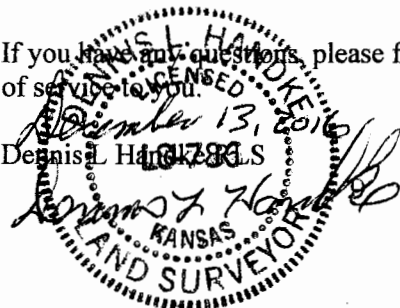
Elev: 863.37	North 3916	West 60	(from SE Cor. Sec. 17-11-25E)
MW-1 rim	855.77	North 3754	NE1/4,NE1/4,SE1/4,NE1/4
top pipe	855.42	West 71	Lat = 39.09812 Long = 94.64962
MW-2 rim	862.59	North 3908	NE1/4,NE1/4,SE1/4,NE1/4
top pipe	862.28	West 65	Lat = 39.09854 Long = 94.64961
MW-3 rim	868.85	South 3782	NE1/4,NE1/4,SE1/4,NE1/4
top pipe	868.53	West 144	Lat = 39.09820 Long = 94.64988
MW-4 rim	856.07	North 3802	NW1/4,NW1/4,SW1/4,NW1/4 (Sec.16)
top pipe	855.82	East 46	Lat = 39.09826 Long = 94.64922
MW-5 rim	855.71	North 3910	NE1/4,SE1/4,NE1/4,NE1/4
top pipe	855.41	West 449	Lat = 39.09855 Long = 94.65096
MW-6 rim	849.27	South 3607	SW1/4,SW1/4,SW1/4,NW1/4 (Sec. 16)
top pipe	848.95	East 46	Lat = 39.09772 Long = 94.64921
MW-7 rim	847.19	North 3608	SE1/4,NE1/4,SE1/4,NE1/4
top pipe	846.89	West 66	Lat = 39.09772 Long = 94.64961
MW-8 rim	871.95	South 3883	NE1/4,SE1/4,SE1/4,NE1/4
top pipe	871.69	West 183	Lat = 39.09848 Long = 94.65002

Lat & Long derived from the Shawnee 7.5 minute Quad map, WGS84.

Elevation derived from KDHE Project ID# U4-105-14119. NAVD 88

If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you.

December 13, 2016
Dennis L. Handke
1820 NW 59th Terrace
Topeka, Kansas 66618
785-286-4047 Home
785-286-1990 Fax



RECEIVED
DEC 27 2016
BUREAU OF WATER