

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

Well ID

MW6

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Wyandotte Fraction SW 1/4 SW 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): ~95° SE of 214 S. 18th St., Kansas City, KS

3 LOCATE WELL WITH 'X' IN SECTION BOX: [Diagram showing a 3x3 grid with 'X' in the NW and SE cells] 4 DEPTH OF COMPLETED WELL: 24.8 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) [] Dry Well WELL'S STATIC WATER LEVEL: 19.65 ft. [X] below land surface, measured on (mo-day-yr) 11/23/16 [] above land surface, measured on (mo-day-yr) _____ Pump test data: Well water was _____ ft after _____ hours pumping _____ gpm Water well was _____ ft after _____ hours pumping _____ gpm Estimated Yield: _____ gpm Bore Hole Diameter: 7.25 in to _____ ft, and _____ in to _____ ft

5 Latitude: 39.09772 (decimal degrees) Longitude: 94.64921 (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 848.95 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 2 Irrigation 3 Feedlot 4 Industrial 5 Public Water Supply: well ID 6 Dewatering: how many wells? 7 Aquifer Recharge: well ID 8 [X] Monitoring: well ID MW6 9 Environmental Remediation: well ID [] Air Sparge [] Soil Vapor Extractor [] Recovery [] Injection 10 Oil Field Water Supply: lease 11 Test Hole: well ID [] Cased [] Uncased [] Geotechnical 12 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 14.8 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft, Casing height above land surface -0.32 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 14.8 ft. to 24.8 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft, GRAVEL PACK INTERVALS: From 13 ft. to 25 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 13 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? NW Distance from well? ~110 ft

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

0	0.2	Topsoil			
0.2	2.5	Silt			
2.5	11	Fine sand			
11	13	Silt			
13	21	Weathered shale and clay			
21	22.5	Fine sandstone and silt			
22.5	25.5	Siltstone with 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-yr) 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-yr) 12/13/16 under the business name of Larsen & Associates, Inc. Signature _____

DENNIS L HANDKE

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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.

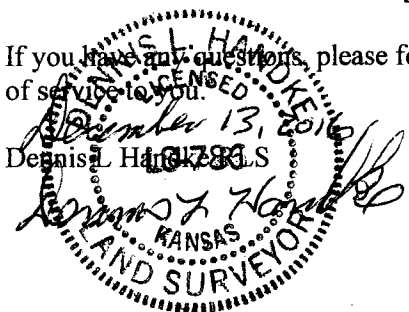
Elev: 863.37	North 3916	West 60	(from SE Cor. Sec. 17-11-25E)
MW-1 rim	855.77	North 3754	NE1/4,NE1/4,SE1/4,NE1/4
top pipe	855.42	West 71	Lat = 39.09812 Long = 94.64962
MW-2 rim	862.59	North 3908	NE1/4,NE1/4,SE1/4,NE1/4
top pipe	862.28	West 65	Lat = 39.09854 Long = 94.64961
MW-3 rim	868.85	South 3782	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.

Dennis L Handke
KANSAS
LAND SURVEYOR



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DEC 27 2016
BUREAU OF WATER