

Revisions

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

[]

Well ID

MW1

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County Miami Fraction NW 1/4 NE 1/4 NW 1/4 NE 1/4 Section Number 15 Township Number T 16 S Range Number R 23 E W

2 WELL OWNER: Last Name: First: 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: [X]

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram showing a 4x4 grid with 'X' in the top-right quadrant]

4 DEPTH OF COMPLETED WELL: 14.5 ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) [] Dry Well WELL'S STATIC WATER LEVEL: 5.38 ft [X] below land surface, measured on (mo-day-yr) 10/26/16 [] 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: 38.66426 (decimal degrees) Longitude: 94.85165 (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 912.53 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 MW1 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 5.5 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft, Casing height above land surface -0.34 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 5.5 ft. to 14.5 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft, GRAVEL PACK INTERVALS: From 3 ft. to 14.5 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 3 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? Within basin Distance from well? Within basin ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: 0, 14, Silty clay. Row 2: 14, 14.5, Limestone.

Notes: KDHE ID: Coburn General Merc.: U4-061-14792 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) 10/24/16 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) 2/21/17 under the business name of Larsen & Associates, Inc. Signature [Signature]

DENNIS L HANDKE

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785-217-5864 Cell

Jessica Chapman
Larsen & Associates
1311 E 25th Street, Suite B
Lawrence, Kansas, 66049

December 1, 2016

RE: Monitor Well Elevation Survey
110 Central, Hillsdale, Kansas

Proj. 16-00Y
Coburn General Merc.
U4-061-14792

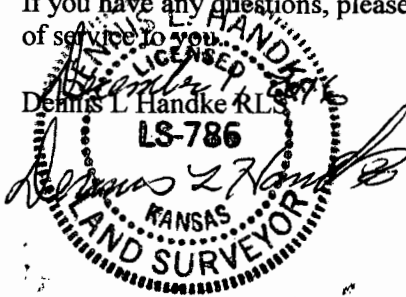
Bench Mark: Spike in West side of power pole near SE corner of property.
Elev: 913.93 North 5000 West 1736 (from SE Cor. Sec. 15-16-23E)

MW-1	rim	912.87	North	4975	NW1/4,NE1/4,NW1/4,NE1/4
	top pipe	912.53	West	1753	Lat= 38.66426 Long = 94.85165
MW-2	rim	913.01	North	4973	NW1/4,NE1/4,NW1/4,NE1/4
	top pipe	912.70	West	1811	Lat= 38.66425 Long = 94.85185
MW-3	rim	913.89	North	5011	NW1/4,NE1/4,NW1/4,NE1/4
	top pipe	913.65	West	1778	Lat= 38.66436 Long = 94.85174
MW-4	rim	914.65	North	5013	NW1/4,NE1/4,NW1/4,NE1/4
	top pipe	914.30	East	1836	Lat= 38.66436 Long = 94.85194
MW-5	rim	912.78	North	5054	NW1/4,NE1/4,NW1/4,NE1/4
	top pipe	912.43	West	1731	Lat= 38.66448 Long = 94.85158

Elevation derived from Miami County Bridge Project II-04-ST(594). NAVD 83. BM#1

Lat & Long derived from Spring Hill 7.5' Quad Map. WGS84

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



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