

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

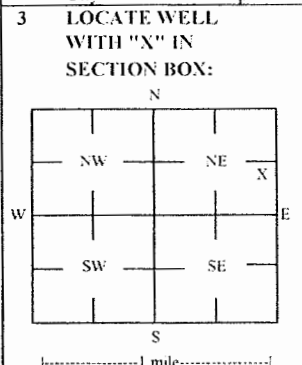
Well ID

NMW16

Original Record [ ] Correction [X] Change in Well Use [ ]

1 LOCATION OF WATER WELL: County Shawnee Fraction NE 1/4 NE 1/4 SE 1/4 NE 1/4 Section Number 36 Township Number T 12 S Range Number R 15 E [X] W

2 WELL OWNER: Last Name: Business: Lindemuth, Inc. Address: 125 SW Gage Blvd City Topeka State: KS ZIP: 66606 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 416 SW 57th St. Topeka, KS 66609



3 LOCATE WELL WITH "X" IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 6.5 ft Depth(s) Groundwater Encountered: 1) 6.5 ft 2) ft 3) ft or 4) Dry Well [ ] WELL'S STATIC WATER LEVEL: 1.16 ft [X] below land surface, measured on (mo-day-yr) 4/9/19 [ ] 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: 38.96745 (decimal degrees) Longitude: 95.68862 (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 1017.50 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 NMW16 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 3.5 ft. Diameter in. to ft. Diameter in. to ft. Casing height above land surface -0.31 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 3.5 ft. to 6.5 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 2 ft. to 6.5 ft. From ft. to ft. From ft. to ft.

9 GROUT MATERIAL: [ ] Neat cement [ ] Cement grout [X] Bentonite [X] Other Concrete: 0-0.7' Grout intervals: From 0.7 ft. to 2 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 [ ] Fecdyard [ ] Fertilizer Storage [ ] Oil Well / Gas Well [ ] Other (Specify) Direction from well? SW Distance from well? ~180 ft

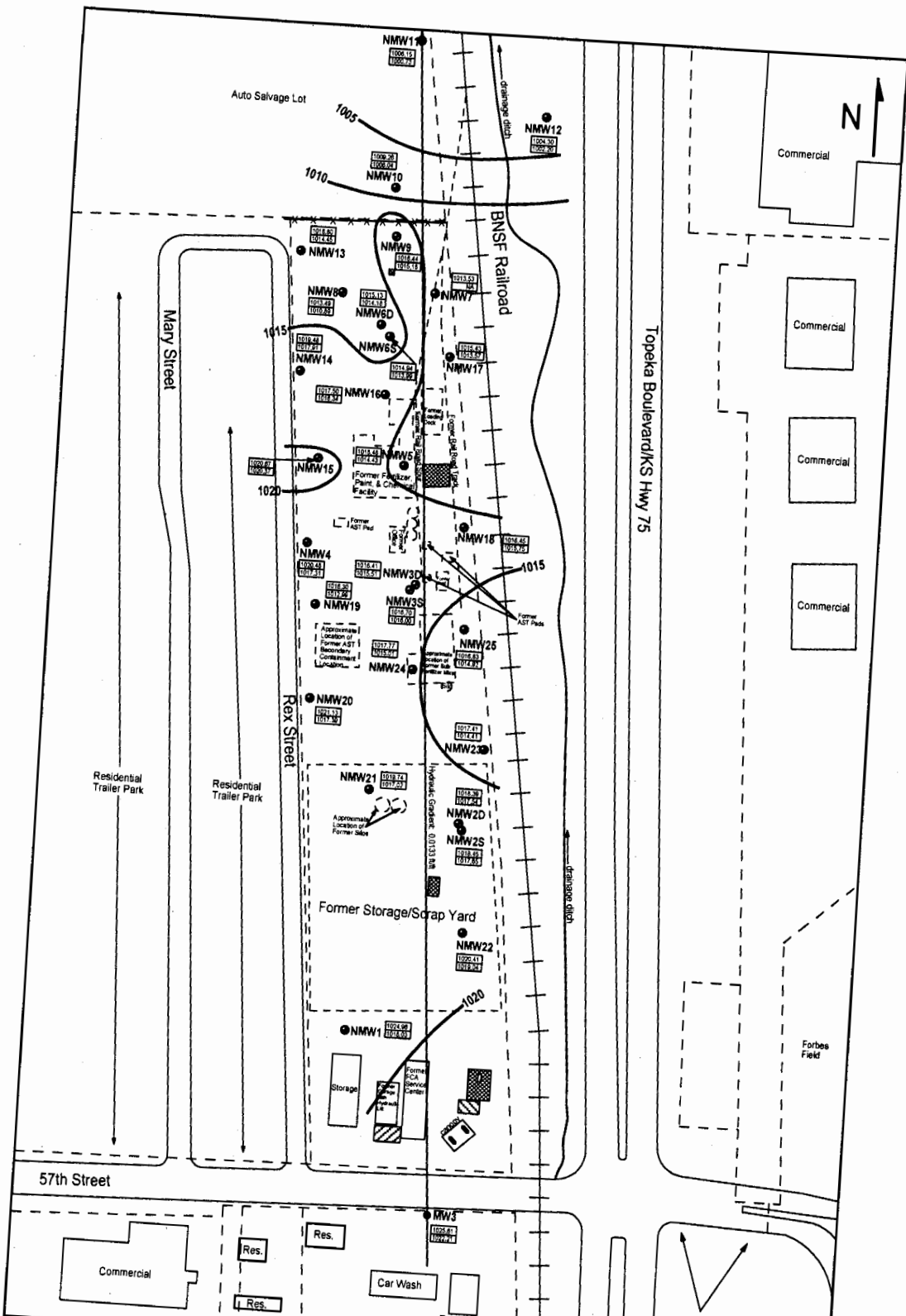
10 FROM TO LITHOLOGIC LOG FROM TO LITHO. LOG (cont.) or PLUGGING INTERVALS

0	0.7	Topsoil; mostly silty clay			
0.7	3.25	Silty clay			
3.25	3.75	Limestone			
3.75	6.75	Weathered mudstone/shale			
6.75	7	Limestone			

Notes: KDHE ID: Pauline Farm Store: C408971586 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) 2/19/19 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) 6/24/19 under the business name of Larsen & Associates, Inc. Signature

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, Section 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367 Mail one to Water Well Owner and retain one for your records. Telephone: 785-296-5524.



**FIGURE 2 - GROUNDWATER FLOW MAP FOR THE 2019 PHASE II AND PHASE III ADDENDUM**

**larsen & ASSOCIATES, INC.**

1311 E 25th St., Suite B  
Lawrence, KS 66046

(785) 841-8707 office  
(785) 865-4282 fax

**PROJECT:**  
Pauline Farm Store  
416 SW 57th Street  
Topeka, KS  
KDHE ID: C408971586  
DATE: 4/9/19

0 150 ft  
Approximate Scale

**LEGEND:**

- Approximate Location of Former UST Basin and Pump Island
- Approximate Location of Inactive UST Basin and Pump Island
- Approximate Location of Former ASTs
- Monitoring Well
- Monitoring Well, KDHE TF Site
- Pauline Farmers Coop South (U4-086-10005)
- Casing Elevation (AMSL)
- Groundwater Elevation (AMSL)
- Equipotential Line (AMSL)

NOTE: NMW19 is anomalous; therefore the data was not used to determine groundwater flow.

# DENNIS L HANDKE

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

Jess Chapman  
Larsen & Associates  
1311 E. 25<sup>th</sup> Street, Suite B  
Lawrence, Kansas, 66046

March 20, 2019

RE: Monitor Well Elevation Survey  
416 W. 57h St., Topeka, Kansas

Proj. 19-00K  
Pauline Farm Store  
C408971586

Bench Mark: Square cut on East corner of SW concrete pump island near South edge of property.  
Elev: 1024.81      North 2711.77      West 137.40      (from SE Cor. Sec. 36-12-15E)

NMW-13	rim	1017.22	North	3932.71	NW1/4,NE1/4,SE1/4,NE1/4
	top pipe	1016.80	West	382.15	Lat= 38.96787 Long = 95.68904
NMW-14	rim	1019.94	North	3801.94	NW1/4,NE1/4,SE1/4,NE1/4
	top pipe	1019.48	West	374.97	Lat= 38.96750 Long = 95.68901
NMW-15	rim	1021.18	North	3679.58	NE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1020.67	West	331.35	Lat= 38.96676 Long = 95.68900
NMW-16	rim	1017.81	North	3784.66	NE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1017.50	West	263.17	Lat= 38.96745 Long = 95.68862
NMW-17	rim	1015.89	North	3801.01	NE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1015.43	West	209.77	Lat= 38.96750 Long = 95.68843
NMW-18	rim	1016.73	North	3558.58	SE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1016.45	West	183.79	Lat= 38.96683 Long = 95.68834
NMW-19	rim	1016.76	North	3451.91	SW1/4,NE1/4,SE1/4,NE1/4
	top pipe	1016.30	West	358.95	Lat= 38.96654 Long = 95.68896
NMW-20	rim	1021.41	North	3317.00	SW1/4,NE1/4,SE1/4,NE1/4
	top pipe	1021.13	West	357.20	Lat= 38.96617 Long = 95.68895
NMW-21	rim	1020.25	North	3258.89	NE1/4,SE1/4,SE1/4,NE1/4
	top pipe	1019.74	West	289.93	Lat= 38.96601 Long = 95.68872
NMW-22	rim	1020.67	North	3061.96	NE1/4,SE1/4,SE1/4,NE1/4
	top pipe	1020.41	West	134.45	Lat= 38.96547 Long = 95.68817
NMW-23	rim	1017.72	North	3280.96	NE1/4,SE1/4,SE1/4,NE1/4
	top pipe	1017.41	West	145.67	Lat= 38.96607 Long = 95.68821
NMW-24	rim	1017.98	North	3365.35	SE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1017.77	West	249.50	Lat= 38.96630 Long = 95.68857
NMW-25	rim	1017.11	North	3423.97	SE1/4,NE1/4,SE1/4,NE1/4
	top pipe	1016.83	West	180.02	Lat= 38.96646 Long = 95.68833