

DENNIS L HANDKE

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TOPEKA, KANSAS 66618
785-286-4047 Home

Jess Chapman
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1311 E. 25th St., Suite B
Topeka, Kansas 66046

November 17, 2022

RE: Monitor Well Elevation Survey
210 S. Broadway, Leavenworth Kansas

Proj. 22-00LLL
Thomas Oil
KDHE ID U4-052-00824

Bench Mark: Chisled X on West top bolt of concrete sign base at Southeast corner property.
Elev.: 781.65 North 4837 West 765 (from SE Cor. Sec. 35-8-22E)

| | | | | | |
|-------|----------|--------|-------|------|-----------------------------------|
| MW-6 | rim | 782.70 | North | 4905 | SE1/4,NW1/4,NE1/4,NE1/4 |
| | top pipe | 782.22 | West | 886 | Lat = 39.31660 Long = 94.92158 |
| MW-10 | rim | 784.86 | North | 4983 | NE1/4,NW1/4,NE1/4,NE1/4 |
| | top pipe | 784.43 | West | 921 | Lat = 39.31681 Long = 94.92171 |
| MW-11 | rim | 782.40 | North | 4757 | SE1/4,NW1/4,NE1/4,NE1/4 |
| | top pipe | 781.99 | West | 773 | Lat = 39.31620 Long = 94.92118 |
| MW-12 | rim | 785.03 | North | 4816 | SE1/4,NW1/4,NE1/4,NE1/4 |
| | top pipe | 784.51 | West | 947 | Lat = 39.31635 Long = 94.92180 |
| MW-13 | rim | 785.16 | North | 4883 | SE1/4,NW1/4,NE1/4,NE1/4 |
| | top pipe | 784.72 | West | 990 | Lat = 39.31653 Long = 94.92195 |

Lat & Long derived from Leavenworth 7.5' quad map. WGS84.

Elevation derived from existing project. NAVD 88.

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



WATER WELL RECORD

Form WWC-5

Corrected

Division of Water Resources App. No.

[Empty box]

Well ID

MW10

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

1 LOCATION OF WATER WELL: County Leavenworth, Fraction NE 1/4 NW 1/4 NE 1/4 NE 1/4, Section Number 35, Township Number T 8 S R 22, Range Number 22 [X] E [] W

2 WELL OWNER: Last Name: Business: KDHE (Thomas Oil Company), Address: 1000 SW Jackson, City: Topeka, State: KS, ZIP: 66612, Street or Rural Address where well is located: ~50' N of 210 S Broadway, Leavenworth

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram showing well location in a 3x3 grid with 'X' in the NE corner]

4 DEPTH OF COMPLETED WELL: 19 ft, Depth(s) Groundwater Encountered: 1) 19 ft, 2) ft, 3) ft, or 4) Dry Well, WELL'S STATIC WATER LEVEL: ft, below land surface, measured on (mo-day-yr), 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: 39.31681 (decimal degrees), Longitude: 94.92171 (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: 784.43 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 MW10, 6 Environmental Remediation: well ID, 7 Air Sparge [] Soil Vapor Extractor [] Recovery [] Injection, 8 Oil Field Water Supply: lease, 9 Test Hole: well ID, [] Cased [] Uncased [] Geotechnical, 10 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 9 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.43 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 9 ft. to 19 ft., From ft. to ft., From ft. to ft., GRAVEL PACK INTERVALS: From 7 ft. to 19 ft., From ft. to ft., From ft. to ft.,

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [X] Other Concrete: 0-1', Grout intervals: From 1 ft. to 7 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 [] Fuel Storage [] Abandoned Water Well, [] Watertight Sewer Lines [] Seepage Pit [] Feedyard [] Fertilizer Storage [] Oil Well / Gas Well, [] Other (Specify), Direction from well? SE Distance from well? ~140 ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Row 1: 0, 0.25, Fine gravel. Row 2: 0.25, 19, Silty clay fill, brick fragments.

Notes: KDHE ID: Thomas Oil Company; U4-052-00824 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) 11/9/22 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) 11/21/22 under the business name of Larsen & Associates, Inc. Signature

NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.

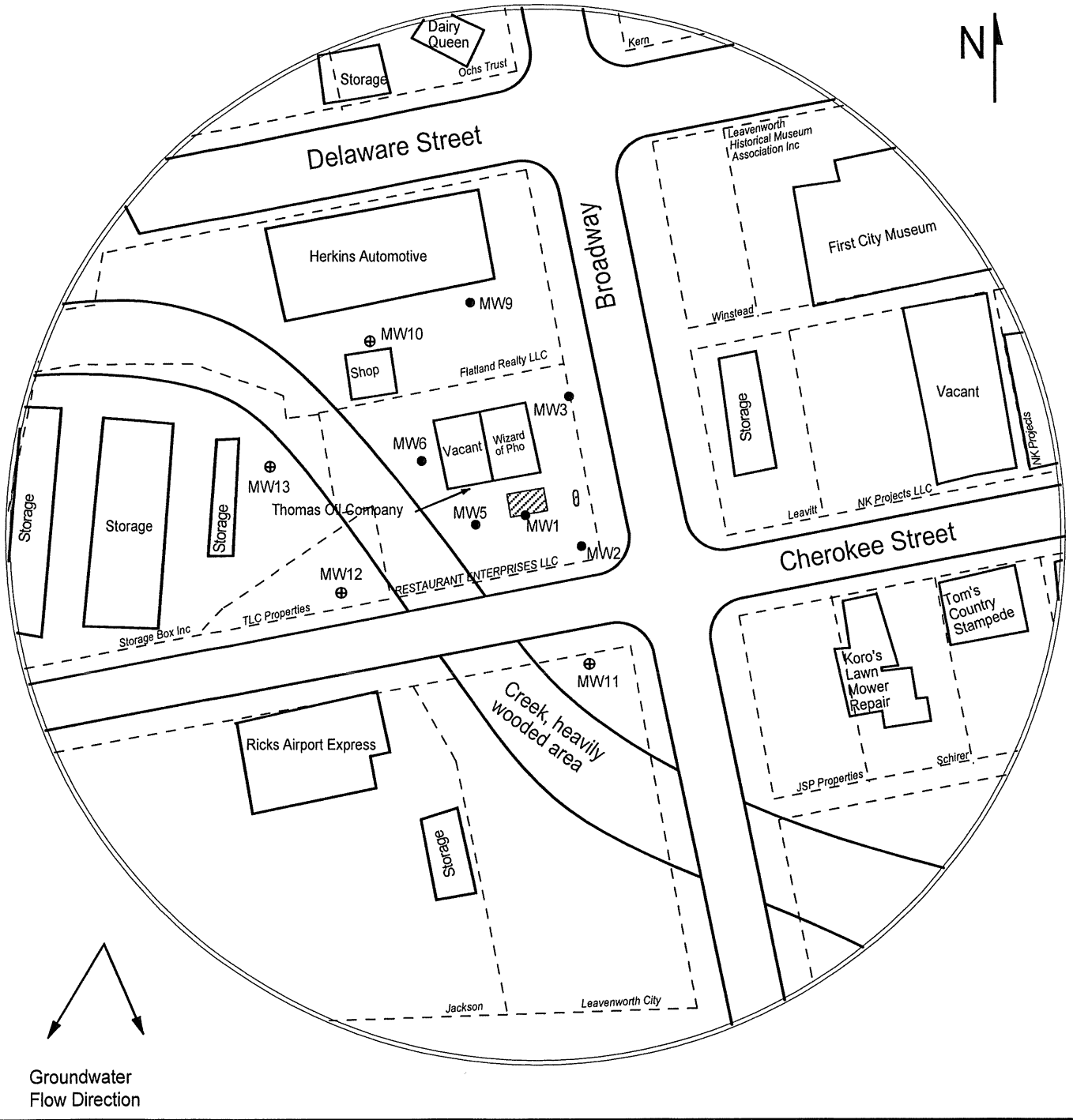


FIGURE 1 - 350 FT RADIUS AREA BASE MAP

LEGEND:

- Approximate Location of Former UST Basin & Pump Island
- Approximate Location of Property Line
- Existing Monitoring Well
- Newly installed Monitoring Well



PROJECT:
 Thomas Oil
 210 S. Broadway,
 Leavenworth, KS
 KDHE ID: U4-052-00824
 Date: 11/9/22

1311 E 25th St. Suite B 785-841-8707 office
 Lawrence, KS 66046 785-865-4282 fax

