

WATER WELL RECORD

Form WWC-5

Revised

Division of Water Resources App. No.

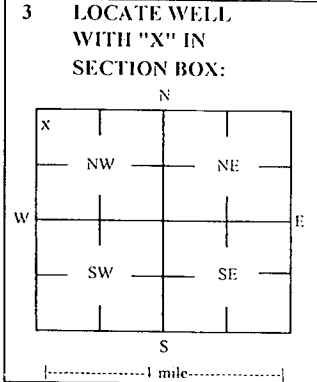
Well ID

MW5

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

1 LOCATION OF WATER WELL: County Marion Fraction NW 1/4 NW 1/4 NW 1/4 NW 1/4 Section Number 5 Township Number T 20 S Range Number R 4 E [X] W

2 WELL OWNER: Last Name: Business: KDHE (Former Service Station) 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: [ ] ~230' SE of 106 E Main St., Marion, KS



4 DEPTH OF COMPLETED WELL: 28 ft Depth(s) Groundwater Encountered: 1) \_\_\_\_\_ ft 2) \_\_\_\_\_ ft 3) \_\_\_\_\_ ft, or 4) [ ] Dry Well WELL'S STATIC WATER LEVEL: 16.36 ft [X] below land surface, measured on (mo-day-yr) 3/11/20 [ ] 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: 38.34800 (decimal degrees) Longitude: 97.02090 (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 1307.88 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 MW5 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 13 ft, Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft, Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft, Casing height above land surface -0.29 in. Weight \_\_\_\_\_ lbs./ft. Well thickness or gauge No \_\_\_\_\_ TYPE OF SCREEN OR PERFORATION MATERIAL: [ ] Steel [ ] Stainless Steel [ ] Fiberglass [X] PVC [ ] Brass [ ] Galvanized Steel [ ] Concrete tile [ ] None used (open hole) [ ] Other (Specify) \_\_\_\_\_ 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 13 ft. to 28 ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft, GRAVEL PACK INTERVALS: From 11 ft. to 28 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 11 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? W-NW Distance from well? ~300 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    | 0.5 | Grass/topsoil                      |      |    |  |
| 0.5  | 8   | Silty clay with rubble/gravel/rock |      |    |  |
| 8    | 20  | Silty clay                         |      |    |  |
| 20   | 23  | Fine clayey silt with some sand    |      |    |  |
| 23   | 28  | Fine to medium grained sand        |      |    |  |

Notes: KDHE ID: Former Service Station; U5-057-15224 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) 3/10/20 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) 3/26/20 under the business name of Larsen & Associates, Inc. Signature \_\_\_\_\_

MONITOR

31-19-4E  
32-19-4E  
5-20-4E  
6-20-4E

# 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 19, 2020

RE: Monitor Well Elevation Survey  
106 E. Main, Marion, Kansas

Proj. 20-00Q  
Former Service Station  
U5-057-15224

Bench Mark: Chisled Square on top SW corner of old concrete foundation.  
Elev: 1309.39      North 33.28      West 5247.61      (from SE Cor. Sec. 32-19-4E)

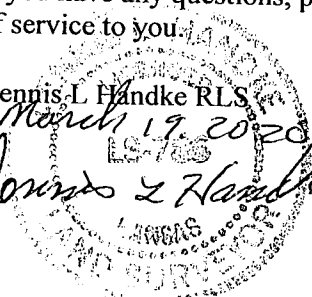
|      |          |         |       |         |   |
|------|----------|---------|-------|---------|---|
| MW-1 | rim      | 1308.32 | North | 3.65    | NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 5-20-4E)  |
|      | top pipe | 1308.00 | West  | 5243.64 | Lat= 38.34828 Long = 97.02183           |
| MW-2 | rim      | 1306.52 | North | 130.79  | SE1/4,SE1/4,SE1/4,SE1/4 (Sec. 31-19-4E) |
|      | top pipe | 1306.24 | West  | 5305.11 | Lat= 38.34865 Long = 97.02204           |
| MW-3 | rim      | 1308.36 | South | 102.53  | NW1/4,NW1/4,NW1/4,NW1/4 (Sec.5-20-4E)   |
|      | top pipe | 1307.88 | West  | 5227.00 | Lat= 38.34801 Long = 97.02177           |
| MW-4 | rim      | 1309.13 | South | 60.16   | NE1/4,NE1/4,NE1/4,NE1/4 (Sec. 6-20-4E)  |
|      | top pipe | 1308.81 | West  | 525.68  | Lat= 38.34812 Long = 97.02211           |
| MW-5 | rim      | 1308.17 | South | 103.46  | NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 5-20-4E)  |
|      | top pipe | 1307.88 | West  | 4976.88 | Lat= 38.34800 Long = 97.02090           |
| MW-6 | rim      | 1307.71 | North | 156.19  | SW1/4,SW1/4,SW1/4,SW1/4 (32-19-4E)      |
|      | top pipe | 1307.34 | West  | 4982.69 | Lat= 38.34872 Long = 97.02097           |

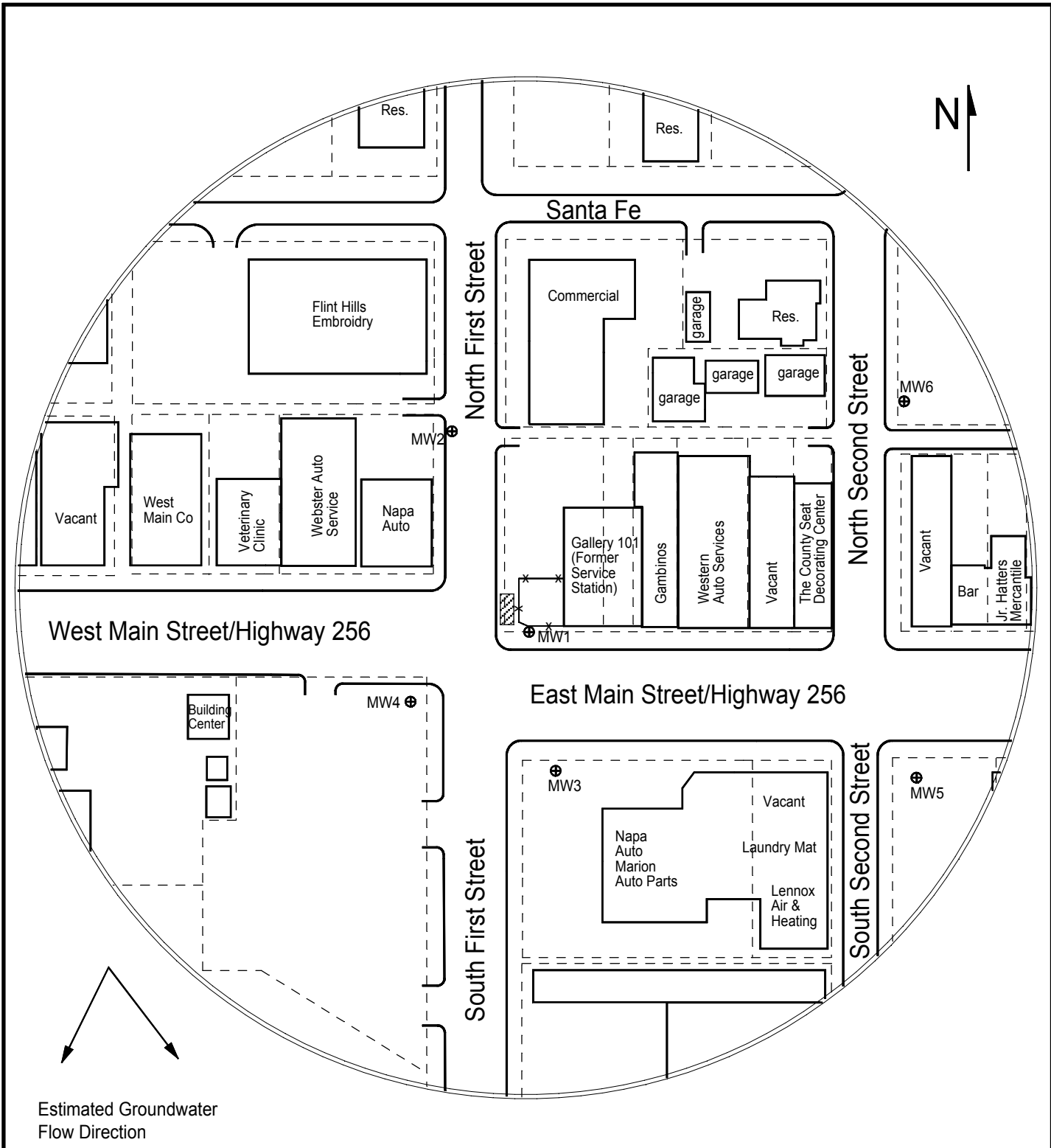
KB5/DR4

Lat & Long derived from Marion 7.5' quad map. WGS 84.

Elevation established from NGS BM D 50 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 RLS  
 March 19, 2020  
  
*Dennis L Handke*



Estimated Groundwater Flow Direction

**LEGEND:**

-  Approximate Location of Former UST Basin
-  Approximate Location of Property Line
-  Monitoring Well (Installed 3/4-5 & 10-11/20)



**PROJECT:**  
Former Service Station  
106 E. Main  
Marion, KS  
KDHE ID: U5-057-15224  
Date: 3/11/20



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