

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

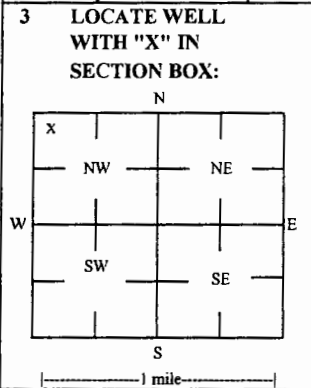
Well ID

MW23

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County Harper Fraction NW 1/4 NW 1/4 NW 1/4 NW 1/4 Section Number 7 Township Number T 32 S Range Number R 6 E W

2 WELL OWNER: Last Name: Business: Kansas Dept of Health & Environment Address: 1000 SW Jackson ST City: Topeka State: KS ZIP: 66612 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): 515 E 14th St, Harper, KS



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 34.88 ft Depth(s) Groundwater Encountered: 1) 34.88 ft 2) ft 3) ft or 4) Dry Well WELL'S STATIC WATER LEVEL: 24.78 ft. X below land surface, measured on (mo-day-yr) 12/7/2016

5 Latitude: 37.28250 (decimal degrees) Longitude: 98.02128 (decimal degrees) Horizontal Datum: X WGS 84 NAD 83 NAD 29 Source for Latitude/Longitude: GPS (unit make/model:) (WAAS enabled? Yes No) X Land Survey Topographic Map Online Mapper

6 Elevation 1416.39 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 MW23 6 Environmental Remediation: well ID 7 Air Sparge 8 Soil Vapor Extractor 9 Recovery 10 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 No X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC X PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 19.88 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.46 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 19.88 ft. to 34.88 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 18 ft. to 35.5 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 18 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? ~120 ft

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows show soil layers from 0 to 35.5 ft depth.

Notes: KDHE ID: Ron's Service; U2-039-12937

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) 12/6/16 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) 1/25/17 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, GWTS 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.

DENNIS L HANDKE

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

Jesse Chapman
Larsen & Assoc.
1311 E. 25th St., Suite B
Lawrence, Kansas, 66046

January 18, 2017
Revised March 10, 2017

RE: Monitor Well Elevation Survey
423 E. 14th St. Harper, Kansas

Proj. 17-00A
KDHE ID# U2-039-12937
Ron's Service

Bench Mark: Square cut on Southeast corner of concrete sign base North of the building.
Elev: 1416.06 North 5300 West 45 (from SE Cor. Sec. 12-32-7W)

| | | | | | |
|-------|----------|---------|-------|------|---------------------------------------|
| MW-15 | rim | 1415.73 | North | 5282 | NE1/4,NE1/4,NE1/4,NE1/4 |
| | top pipe | 1415.30 | West | 125 | Lat = 37.28301 Long = 98.02184 |
| MW-16 | rim | 1415.94 | North | 5267 | NE1/4,NE1/4,NE1/4,NE1/4 |
| | top pipe | 1415.62 | West | 37 | Lat = 37.28297 Long = 98.02154 |
| MW-17 | rim | 1416.82 | North | 5245 | NE1/4,NE1/4,NE1/4,NE1/4 |
| | top pipe | 1416.50 | West | 103 | Lat = 37.28291 Long = 98.02177 |
| MW-18 | rim | 1414.17 | North | 5369 | SE1/4,SE1/4,SE1/4,SE1/4 (Sec 1-32-7) |
| | top pipe | 1413.86 | West | 45 | Lat = 37.28325 Long = 98.02157 |
| MW-19 | rim | 1416.84 | North | 5254 | NE1/4,NE1/4,NE1/4,NE1/4 |
| | top pipe | 1416.45 | West | 180 | Lat = 37.28293 Long = 98.02203 |
| MW-20 | rim | 1415.60 | North | 5262 | NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-32-6) |
| | top pipe | 1415.19 | East | 91 | Lat = 37.28296 Long = 98.02110 |
| MW-21 | rim | 1417.53 | North | 5135 | NE1/4NW1/4,NE1/4,NE1/4 |
| | top pipe | 1417.14 | West | 68 | Lat = 37.28260 Long = 98.02164 |
| MW-22 | rim | 1414.66 | North | 5368 | SE1/4,SE1/4,SE1/4,SE1/4 (Sec. 1-32-7) |
| | top pipe | 1414.17 | West | 184 | Lat = 37.28324 Long = 98.02205 |
| MW-23 | rim | 1416.85 | North | 5096 | NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-32-6) |
| | top pipe | 1416.39 | East | 37 | Lat = 37.28250 Long = 98.02128 |

Lat & Long derived from the Harper 7.5 minute Quad map, WGS84

Elevation derived from USGS BM L309 "1953". NAVD 88

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

March 10, 2017
Dennis L Handke RLS

Dennis L Handke
KANSAS
LAND SURVEYOR

RECEIVED

MAR 13 2017

BUREAU OF WATER