

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

Well ID

MW28

Original Record Correction Change in Well Use

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

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: 321 E 14th St Harper, KS

3 LOCATE WELL WITH "X" IN SECTION BOX: [Diagram] 4 DEPTH OF COMPLETED WELL: 35 ft Depth(s) Groundwater Encountered: 1) 35 ft 2) ft 3) ft or 4) Dry Well WELL'S STATIC WATER LEVEL: 20.06 ft [X] below land surface, measured on (mo-day-yr) 5/12/2017

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 MW28 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 15 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.45 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 15 ft. to 35 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 12 ft. to 35 ft. From ft. to 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 12 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? SE Distance from well? ~210 ft

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

0	1	Topsoil: silty clay			
1	3.5	Silt			
3.5	5	Silty clay			
5	16	Silt			
16	17	Sandy silt			
17	20	Fine sand			
20	22	Sandy silt			
22	25	Coarse sand			
25	35	Sandy silt			

Notes: KDHE ID: Ron's Service; U2-039-12937 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) 5/11/17 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) 6/6/17 under the business name of Larsen & Associates, Inc. Signature

# DENNIS L HANDKE

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

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

May 22, 2017

RE: Monitor Well Elevation Survey  
423 E. 14<sup>th</sup> St. Harper, Kansas

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

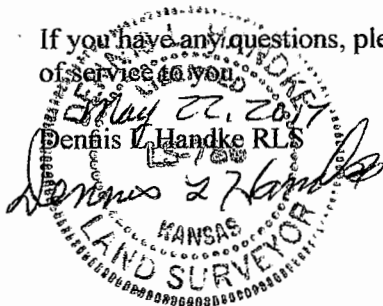
Bench Mark: Square cut on Southeast corner of concrete sign base North of the building.  
Elev: 1416.06      North 5300      West 45      (from SE Cor. Sec. 12-32-7W)

MW-24	rim	1417.85	North	5499	SE1/4,SE1/4,SE1/4,SE1/4 (Sec. 1-32-7)
	top pipe	1417.53	West	48	Lat = 37.28360 Long = 98.02159
MW-25	rim	1417.15	North	5003	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-32-6)
	top pipe	1416.72	East	137	Lat = 37.28224 Long = 98.02094
MW-26	rim	1417.90	North	5010	NE1/4,NE1/4,NE1/4,NE1/4
	top pipe	1417.50	West	42	Lat = 37.28226 Long = 98.02156
MW-27	rim	1418.03	North	5007	NE1/4,NE1/4,NE1/4,NE1/4
	top pipe	1417.69	West	191	Lat = 37.28225 Long = 98.02207
MW-28	rim	1414.91	North	5493	SE1/4,SE1/4,SE1/4,SE1/4 (Sec 1-32-7)
	top pipe	1414.46	West	262	Lat = 37.28358 Long = 98.02233
MW-29	rim	1416.05	North	5260	NE1/4,NE1/4,NE1/4,NE1/4
	top pipe	1415.58	West	324	Lat = 37.28294 Long = 98.02254
MW-30	rim	1418.11	North	5379	SW1/4SW1/4,SW1/4,SW1/4 (Sec. 6-32-6)
	top pipe	1417.90	East	171	Lat = 37.28328 Long = 98.02084
MW-31	rim	1417.97	North	5464	SW1/4,SW1/4,SW1/4,SW1/4 (Sec. 6-32-6)
	top pipe	1417.48	East	324	Lat = 37.28351 Long = 98.02031
MW-32	rim	1418.19	North	5244	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-32-6)
	top pipe	1417.97	East	321	Lat = 37.28291 Long = 98.02032

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

Elevation derived from existing project.

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



RECEIVED

JUN 27 2017

BUREAU OF WATER

Larsen & Associates, Inc.  
**WWC5 Report**  
June 26, 2017

<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Ron's Service:LSA-ADN 06/29/17	Ron's Service:LSA-ADN 06/29/17	45.00
Coastal Mart #9135:AW(2) 06/19/17	Coastal Mart #9135:AW(2) 06/19/17	10.00
Ellis Stop 2 Shop:RBCA 06/07/17	Ellis Stop 2 Shop:RBCA 06/07/17	5.00
Ed Bozarth Chevrolet:RBCA-ADN 06/05/17	Ed Bozarth Chevrolet:RBCA-ADN 06/05/17	10.00
Shell Retail Gasoline Station:AW(6) 05/31/17	Shell Retail Gasoline Station:AW(6) 05/31/17	30.00
		<u>100.00</u>

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JUN 27 2017  
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