

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

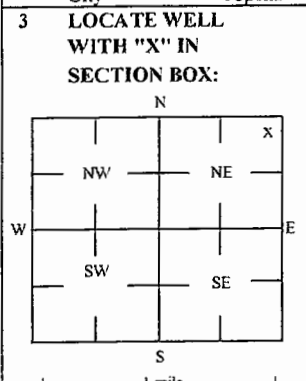
Well ID

MW29

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County Harper Fraction NE 1/4 NE 1/4 NE 1/4 Section Number 12 Township Number T 32 S Range Number R 7 E W

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: 415 E 14th St, Harper, KS



4 DEPTH OF COMPLETED WELL: 34.5 ft Depth(s) Groundwater Encountered: 1) 34.5 ft 2) ft 3) ft, or 4) Dry Well WELL'S STATIC WATER LEVEL: 20.55 ft

5 Latitude: 37.28294 (decimal degrees) Longitude: 98.02254 (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 1415.58 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 Dewatering: how many wells? Aquifer Recharge: well ID Monitoring: well ID MW29 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 No X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded X Threaded Casing diameter 2 in. to 19.5 ft. Diameter in. to ft. Diameter in. to ft. Casing height above land surface -0.47 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass 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 19.5 ft. to 34.5 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 17 ft. to 34.5 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 17 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? E-NE Distance from well? ~200 ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include soil types like Silty loam, Silty clay, Sandy silt, Silty clay, Silt with trace clay, Sandy silt, Fine sand, Sandy silt with clay.

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) 5/10/17 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. 25th St., Suite B
Lawrence, Kansas, 66046

May 22, 2017

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

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

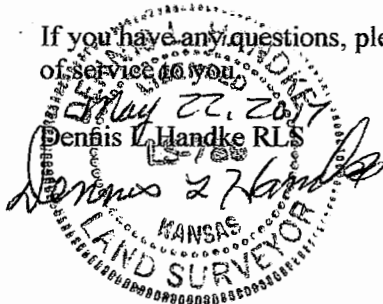
Bench Mark: Square cut on Southeast corner of concrete sign base North of the building.
Elev: 1416.06 North 5300 West 45 (from SE Cor. Sec. 12-32-7W)

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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