

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

Well ID

MW12

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Ellis Fraction SE 1/4 SW 1/4 SE 1/4 NE 1/4 Section Number 8 Township Number T 13 S Range Number R 20 E W

2 WELL OWNER: Last Name: Gerstner 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: 1000 Washington, Ellis, KS

3 LOCATE WELL WITH "X" IN SECTION BOX: N NW NE SW SE S

4 DEPTH OF COMPLETED WELL: 20 ft Depth(s) Groundwater Encountered: 1) 13.33 ft 2) ft 3) ft or 4) Dry Well WELL'S STATIC WATER LEVEL: 13.33 ft

5 Latitude: 38.93640 (decimal degrees) Longitude: 99.56063 (decimal degrees) Horizontal Datum: WGS 84 X 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: 2101.16 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 5 Public Water Supply: well ID 6 Dewatering: how many wells? 7 Aquifer Recharge: well ID 8 X Monitoring: well ID MW12 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 10 ft. Diameter in. to ft. Diameter in. to ft. Casing height above land surface -0.41 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 10 ft. to 20 ft. From ft. to ft. From ft. to ft. GRAVEL PACK INTERVALS: From 8 ft. to 20 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 8 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 Distance from well? ~10 ft

Table with 5 columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-0.4 Concrete, 0.4-3 Silty clay w/ small gravel, 3-7 Rock and rubble, 7-20 Silty clay w/ small gravel.

Notes: KDHE ID: Ellis Stop 2 Shop; U6-026-00813 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) 3/27/17 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) 5/15/17 under the business name of Larsen & Associates, Inc. Signature

SMH CONSULTANTS

April 27, 2017

Larsen & Associates, Inc.
Jessica Chapman
1311 East 25th Street, Suite B
Lawrence, Kansas 66046
Email: Jess@larsenenvironmental.com

RE: Project No. 1704MN1097

Jessica:

The following is the information requested on a Monitoring Well Site, Ellis Stop 2 Shop, 1000 Washington, Ellis, Ellis County, Kansas.

Point	North Coord.	East Coord.	Distance SE Cor. North	From S.08 West	Elev. Top Of Rim or PK Nail	Elev. Top of PVC Pipe	Latitude North	Longitude West
SE Corner S.08-T13S-R20W	220536.41	869166.14						
MW12	223475.77	868427.88	2939.36	738.26	2101.57	2101.16	38.93640	99.56063
Site BM	223445.50	868472.06	2909.09	694.08		BM Elevation = 2101.62		

BM Description: 5/8" rebar in paving joint, in line with south edge of building.

MW12 is in the: SE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ S.08-T13S-R20W

If you have any questions, please do not hesitate in giving us a call.

Sincerely,



Tim Sloan, L.S.
SMH CONSULTANTS

RECEIVED
JUN 27 2017
BUREAU OF WATER