

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

Well ID

MW8

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County Pottawatomie Fraction NW 1/4 NW 1/4 SW 1/4 SE 1/4 Section Number 10 Township Number T 10 S Range Number R 12 E W

2 WELL OWNER: Last Name: Zapp First: Paul 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: the street north of 107 E. Bertrand, St. Marys KS

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

4 DEPTH OF COMPLETED WELL: 43.93 ft Depth(s) Groundwater Encountered: 1) ft 2) ft 3) ft, or 4) Dry Well WELL'S STATIC WATER LEVEL: 27.73 ft

5 Latitude: 39.19110 (decimal degrees) Longitude: 96.06299 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27

6 Elevation 956.17 ft Ground Level TOC Source Land Survey GPS Topographic Map

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 Monitoring: well ID MW8 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 No Water well disinfected? Yes No If yes, date sample was submitted:

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 2 in. to 23.93 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 PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot 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 23.93 ft. to 43.93 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 23 ft. to 45 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Concrete: 0-0.5' Grout intervals: From 0.5 ft. to 23 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 Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specify)

Direction from well? NE Distance from well? ~210 ft

Table with 6 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows include Topsoil/grass, Silty clay, Silt, trace clay, fine gravel, Coarse sand, Silt, Coarse sand.

Notes: KDHE ID: St. Mary's Oil; U4-075-10765 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 constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 2/13/17 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) 3/1/17 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
785-217-5864 Cell

Jess Chapman
Larsen & Associates
1311 E. 25th Street, Suite B
Lawrence, Kansas, 66046

February 25, 2017

RE: Monitor Well Elevation Survey
114 E. Bertrand, St. Marys, Kansas

Proj. 17-00H
St. Marys Oil
U4-075-10765

Bnch Mark: Chisled X on SE bolt in concrete street light base at South center of property.
Elev: 958.53 North 1133.39 West 2214.57 (from SE Cor. Sec. 10-10-12E)

MW-1R	rim	958.60	North	1139.32	NE1/4,NW1/4,SW1/4,SE1/4
	top pipe	958.30	West	2194.26	Lat= 39.19108 Long = 96.06226
MW-2R	rim	958.50	North	1114.51	NE1/4,NW1/4,SW1/4,SE1/4
	top pipe	958.15	West	2125.00	Lat= 39.19101 Long = 96.06201
MW-5R	rim	958.85	North	1096.35	NE1/4,NW1/4,SW1/4,SE1/4
	top pipe	958.33	West	2068.30	Lat= 39.19096 Long = 96.06181
MW-7R	rim	958.44	North	1155.85	NE1/4,NW1/4,SW1/4,SE1/4
	top pipe	958.17	West	2237.53	Lat= 39.19113 Long = 96.06241
MW-8	rim	956.62	North	1145.21	NW1/4,NW1/4,SW1/4,SE1/4
	top pipe	956.17	West	2402.73	Lat= 39.19110 Long = 96.06299
MW-9	rim	945.89	North	968.36	NE1/4,NE1/4,SE1/4,SW1/4
	top pipe	945.56	West	2735.73	Lat= 39.19061 Long = 96.06417
MW-10	rim	947.10	North	766.18	SW1/4,NW1/4,SW1/4,SE1/4
	top pipe	946.81	West	2422.51	Lat= 39.19006 Long = 96.06307

Elevation derived from USGS BM J 262 "1940". NAVD88.

Lat & Long derived from St. Marys 7.5' Quad Maps WGS 84.

RECEIVED

MAR 13 2017

BUREAU OF WATER

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

