

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

[ ]

Well ID

MW2

[X] Original Record [ ] Correction [ ] Change in Well Use

1 LOCATION OF WATER WELL: County Rice Fraction SW 1/4 NW 1/4 SE 1/4 Section Number 2 Township Number T 18 S R 10 E [X] W

2 WELL OWNER: Last Name: Business: M & J Sittner Rental, LLC Address: 570 3rd Rd. City: Ellinwood State: KS ZIP: 67526 Street or Rural Address where well is located: 221 South Main, Bushton, KS

3 LOCATE WELL WITH 'X' IN SECTION BOX: [Diagram showing a 3x3 grid with 'X' in the center square] 4 DEPTH OF COMPLETED WELL: 40 ft. Depth(s) Groundwater Encountered: 1) ... 2) ... 3) ... 4) [ ] Dry Well WELL'S STATIC WATER LEVEL: 27.44 ft. [X] below land surface, measured on (mo-day-yr) 11/1/2017

5 Latitude: 38.51264 (decimal degrees) Longitude: 98.39698 (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 1765.71 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 MW2 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 25 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.34 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: [ ] Steel [ ] Stainless Steel [ ] Fiberglass [X] PVC [ ] 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 25 ft. to 40 ft. GRAVEL PACK INTERVALS: From 23 ft. to 40 ft.

9 GROUT MATERIAL: [ ] Neat cement [ ] Cement grout [X] Bentonite [X] Other Concrete: 0-1' Grout intervals: From 1 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 [X] Fuel Storage [ ] Abandoned Water Well [ ] Watertight Sewer Lines [ ] Seepage Pit [ ] Feedyard [ ] Fertilizer Storage [ ] Oil Well / Gas Well [ ] Other (Specify) Direction from well? S Distance from well? ~30 ft

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

0	0.3	Topsoil			
0.3	4	Clayey silt			
4	37	Silty clay			
37	40	Sandstone			

Notes: KDHE ID: Thunderbird Center; U5-080-14817 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) 10/24/17 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) 11/30/17 under the business name of Larsen & Associates, Inc. Signature [Signature]

# SMH CONSULTANTS

November 14, 2016

Larsen & Associates  
 Jessica Chapman  
 1311 East 25<sup>th</sup> Street, Suite B  
 Lawrence, Kansas 66046  
 Email: Jess@LarsenEnvironmental.com

RE: Project No. 1711MN1326

Dear Jessica:

The following is the information requested on a Monitoring Well Site, Thunderbird Center, 221 South Main, Bushton, Rice County, Kansas.

Point	North Coord.	East Coord.	Distance SE Cor. North	From S.02 West	Elev. Top Of Rim or PK Nail	Elev. Top of PVC Pipe	Latitude North	Longitude West
SE Corner S.02-T18S-R10W	20000	20000						
MW1	21939.74	17420.05	1939.74	2579.95	1765.45	1765.11	38.51247	98.39699
MW2	22004.74	17422.65	2004.74	2577.35	1766.05	1765.71	38.51264	98.39698
MW3	21920.50	17507.11	1920.50	2492.89	1765.77	1765.41	38.51242	98.39668
MW4	22063.68	17527.89	2063.68	2472.11	1767.22	1766.80	38.51281	98.39661
MW5	21922.53	17271.10	1922.53	2728.90	1763.81	1763.53	38.51242	98.39751
MW6	21799.13	17219.31	1799.13	2780.69	1763.49	1763.28	38.51208	98.39768
MW7	21677.07	17403.45	1677.07	2596.55	1764.49	1764.07	38.51174	98.39704
MW8	22054.64	17298.93	2054.64	2701.07	1765.46	1765.19	38.51278	98.39741
Site BM	21841.64	17319.21	1841.64	2680.79				

BM Elevation = 1765.58

BM Description: "M" in Mueller on top of fire hydrant at southwest corner of South Main Street and East Indiana Avenue.

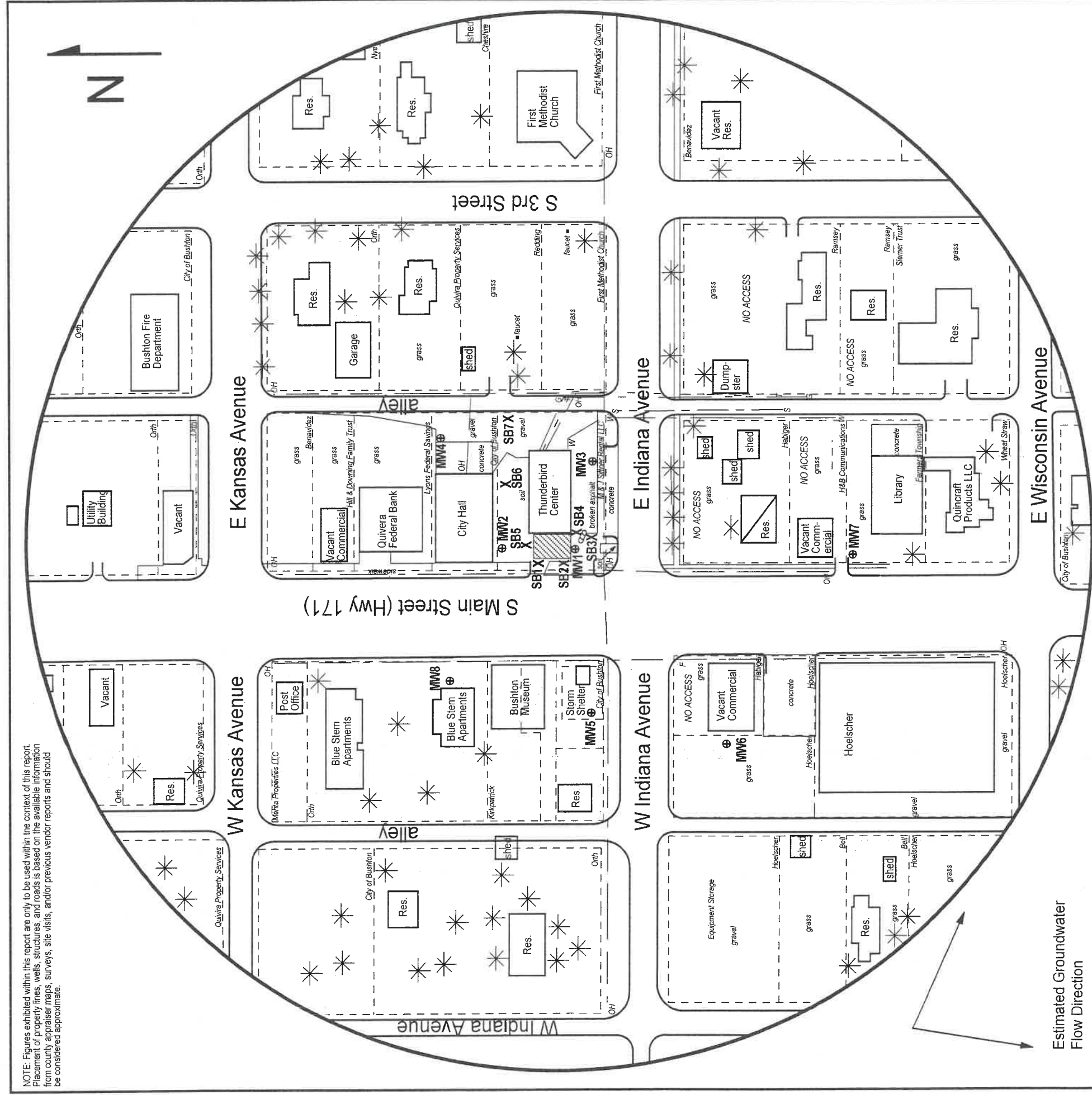
MW1, MW3, MW7 are in the: NW¼ SW¼ NW¼ SE¼ S.02-T18S-R10W  
 MW2, MW4 are in the: SW¼ NW¼ NW¼ SE¼ S.02-T18S-R10W  
 MW5, MW6 are in the: NE¼ SE¼ NE¼ SW¼ S.02-T18S-R10W  
 MW8 is in the: SE¼ NE¼ NE¼ SW¼ S.02-T18S-R10W

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NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.



**FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP**

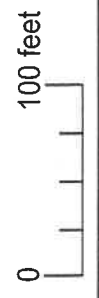
**LEGEND:**

- Approximate Location of Former UST Basin and Pump Island
- Approximate Location of Property Line
- Monitoring Well (Installed 10/24-26/17; 10/31/17)
- Soil Boring (Drilled 10/25/17; 10/30/17; 11/1/17)
- Gas Lines (2 - 6 ft BGS)
- Overhead Lines (25-40 ft high)
- Sewer Lines (2 - 6 ft BGS)
- Telephone Lines (2 - 6 ft BGS)
- Water Lines (2 - 6 ft BGS)

NOTE: SB6 and SB7 were drilled to collect hydrologic samples. NOTE: Utility depths, heights and locations are approximate. NOTE: Location of product lines is unknown.

**PROJECT:**

Thunderbird Center  
 221 South Main  
 Bushton, KS 67427  
 KDHE ID: U5-080-14817  
 Date: 11/1/17



1311 E 25th St., Suite B (785) 841-8707 office  
 Lawrence, KS 66046 (785) 865-4282 fax

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