WATER WELL RECORD Form WWC-5

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

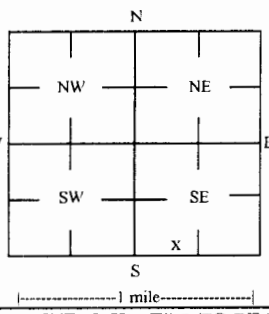
Division of Water Resources App. No. _____ Well ID **MW2**

1 LOCATION OF WATER WELL: County Ellis | Fraction SW ¼ SE ¼ SW ¼ SE ¼ | Section Number 32 | Township Number T 13 S | Range Number R 18 [ ] E [X] W

2 WELL OWNER: Last Name: First:
Business: Fort Hays State University
Address: 411 Lyman
Address:
City Hays State: KS ZIP:

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: [X]

3 LOCATE WELL WITH "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: 25 ft
Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft. or 4) [ ] Dry Well
WELL'S STATIC WATER LEVEL: 15.19 ft.
[X] below land surface, measured on (mo-day-yr) 6/26/2017
[ ] above land surface, measured on (mo-day-yr) _____
Pump test data: Well water was _____ ft after _____ hours pumping _____ gpm
Water well was _____ ft after _____ hours pumping _____ gpm
Estimated Yield: _____ gpm
Bore Hole Diameter: 7.25 in to _____ ft, and _____ in to _____ ft

5 Latitude: 38.87106 (decimal degrees)
Longitude 99.34321 (decimal degrees)
Horizontal Datum: [X] WGS 84 [ ] 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 1988.89 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
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 **MW2**
9 Environmental Remediation: well ID [ ] Air Sparge [ ] Soil Vapor Extractior [ ] 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 [ ] Clampled [ ] Welded [X] Threaded
Casing diameter 2 in. to 10 ft, Diameter _____ in. to _____ ft, Diameter _____ in. to _____ ft,
Casing height above land surface -0.30 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 25 ft, From _____ ft. to _____ ft, From _____ ft. to _____ ft,
GRAVEL PACK INTERVALS: From 8 ft. to 25 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 (Specity) _____
Direction from well? S-SW Distance from well? ~20 ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	3	Topsoil, silt			
3	5	Silty clay			
5	8	Silt			
8	10	Silty clay			
10	14	Silt, increasing sand			
14	25	Silty fine sand, with silt lenses			

Notes: KDHE ID: Fort Hays State University Power Plant; U6-026-14679
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) 6/14/17 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) 7/10/17
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, GWMS 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.

Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 **Revised 7/10/2015**

SMH
CONSULTANTS

June 28, 2017

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

RE: Project No. 1706MN1174

Jessica:

The following is the information requested on a Monitoring Well Site, Fort Hays State University Power Plant, 411 Lyman Street, Hays, Ellis County, Kansas.

Point	North Coord.	East Coord.	Distance SW Cor. North	From S.32 East	Elev. Top Of Rim or PK Nail	Elev. Top of PVC Pipe	Latitude North	Longitude West
SW Corner S.32-T13S-R18W	10000	10000						
MW1	10062.98	13354.53	62.98	3354.53	1988.48	1988.09	38.87087	99.34330
MW2	10131.10	13380.69	131.10	3380.69	1989.19	1988.89	38.87106	99.34321
MW3	10054.91	13522.35	54.91	3522.35	1988.33	1988.13	38.87084	99.34272
MW4	10268.30	13269.71	268.30	3269.71	1990.82	1990.26	38.87144	99.34360
MW5	10040.07	13306.50	40.07	3306.50	1988.06	1987.72	38.87081	99.34347
MW6	10027.19	13415.01	27.19	3415.01	1986.79	1986.47	38.87077	99.34309
Site BM	10031.69	13402.12	31.69	3402.12		BM Elevation = 1989.99		

BM Description: "□" Square cut on light pole base #639.

MW1, MW2, MW3, MW5, MW6 are in the: SW¼ SE¼ SW¼ SE¼ S.32-T13S-R18W
MW4 is in the: SE¼ SW¼ SW¼ SE¼ S.32-T13S-R18W

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

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Sincerely,

Tim Sloan, L.S.
SMH CONSULTANTS

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.

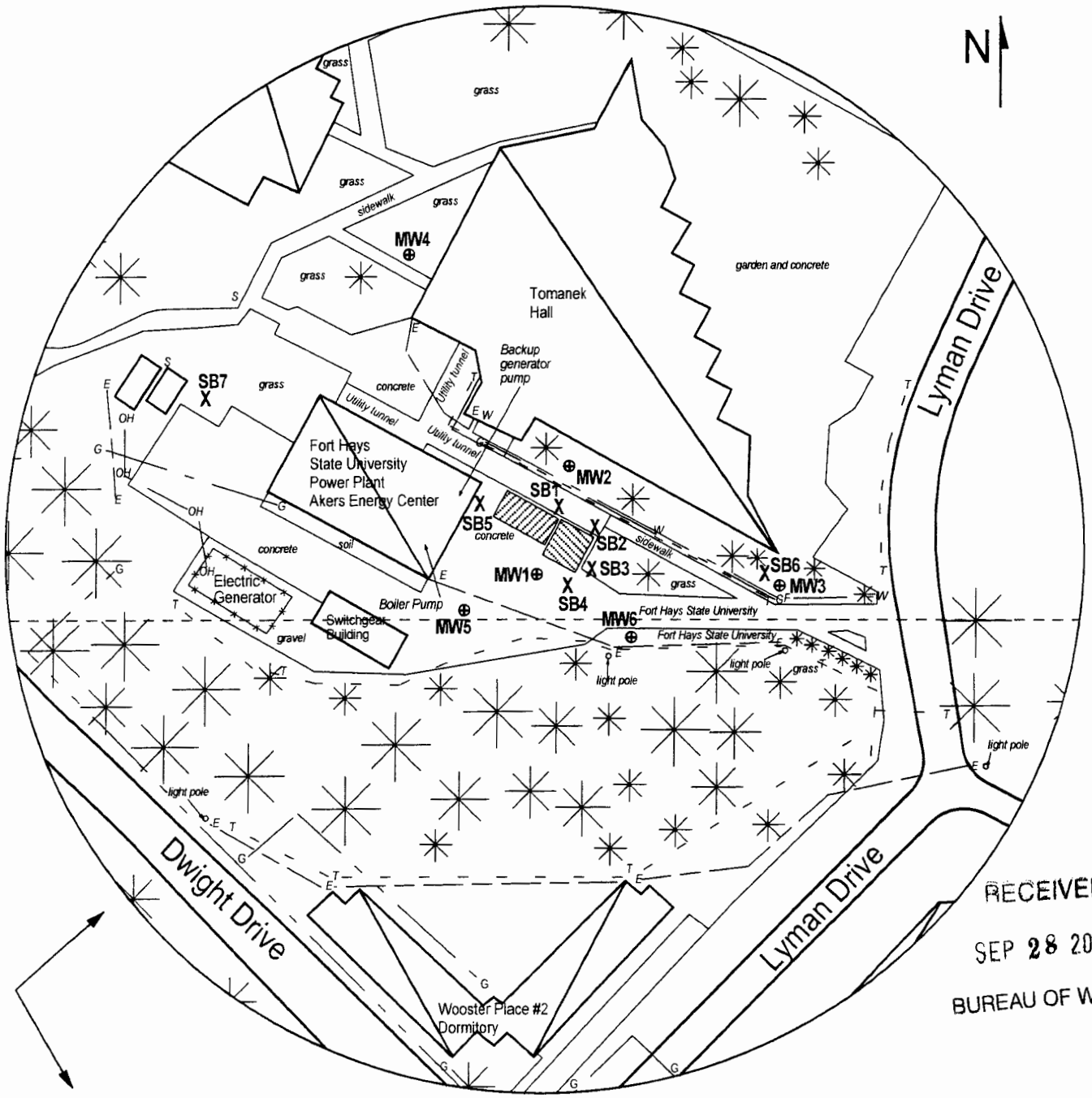

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FIGURE 2.1 - 350 FT RADIUS AREA BASE MAP

larsen & ASSOCIATES, INC.

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

PROJECT:
Fort Hays State University
Power Plant
411 Lyman St.
Hays, KS
KDHE ID: U6-026-14679
Date: 6/26/17

0 100 ft

LEGEND:

- Approximate Location of Former UST Basin
- Approximate Location of Active UST Basin
- Building with Basement
- Approximate Location of Property Line
- ⊕ Monitoring Well (Installed 6/13-14/17)
- X Soil Boring (Drilled 6/14-15/17)
- S Sewer Cover
- E Electric Lines (2 - 6 ft BGS)
- G Gas Lines (2 - 6 ft BGS)
- OH Overhead Lines (25-40 ft high)
- T Telephone Lines (2 - 6 ft BGS)

NOTE: Utility depths, heights and locations are approximate.