

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

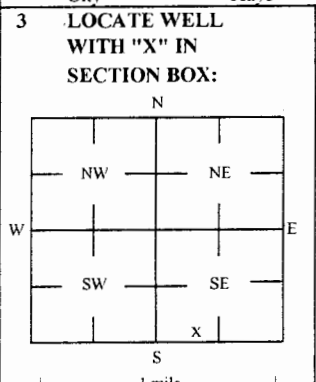
Well ID

MW3

Original Record Correction Change in Well Ust

1 LOCATION OF WATER WELL: County Ellis Fraction SW 1/4 SE 1/4 SW 1/4 SE 1/4 Section Number 32 Township Number T 13 S Range Number R 18 E X 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: X



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 25 ft. Depth(s) Groundwater Encountered: 1) 1 ft. 2) ft 3) ft, or 4) Dry Well

5 Latitude: 38.87084 (decimal degrees) Longitude: 99.34272 (decimal degrees) Horizontal Datum: X WGS 84 NAD 83 NAD 27

6 Elevation 1988.13 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 MW3 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 X No If yes, date sample was submitted: Water well disinfected? Yes No X No

8 TYPE OF CASING USED: Steel PVC X 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 -0.20 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC X 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. GRAVEL PACK INTERVALS: From 8 ft. to 25 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? W-NW Distance from well? ~160 ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-1 Topsoil, clayey silt; 1-11 Silt; 11-17 Silty clay; 17-25 Sand, some silty clay 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) 6/13/17 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) 7/10/17 under the business name of Larsen & Associates, Inc. Signature

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.

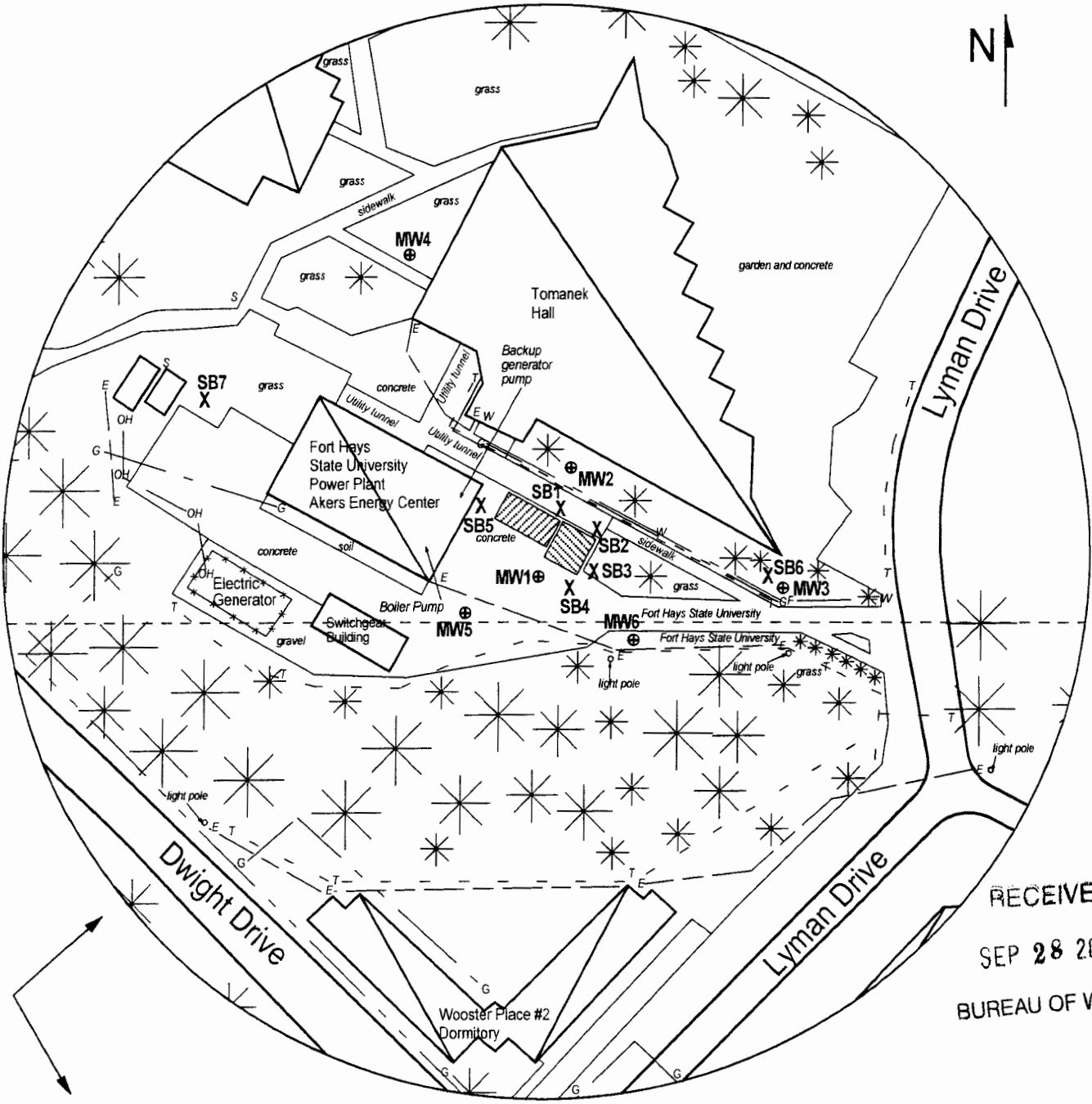
Sincerely,



Tim Sloan, L.S.
 SMH CONSULTANTS

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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.



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Estimated Groundwater
 Flow Direction

FIGURE 2.1 - 350 FT RADIUS AREA BASE MAP

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)
- Soil Boring (Drilled 6/14-15/17)
- Sewer Cover
- Electric Lines (2 - 6 ft BGS)
- Gas Lines (2 - 6 ft BGS)
- Overhead Lines (25-40 ft high)
- Telephone Lines (2 - 6 ft BGS)



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



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

NOTE: Utility depths, heights and locations are approximate.