**WATER WELL RECORD Form WWC-5**

■ Original Record ☐ Correction ☐ Change in Well Use

Division of Water Resources App. No. _____ Well ID MW-12R

**1 LOCATION OF WATER WELL:** County: Sherman | Fraction: SW ¼ SE ¼ NW ¼ SW ¼ | Section Number: 20 | Township Number: T 8 S | Range Number: R 39 ☐ E ■ W

**2 WELL OWNER:** Last Name: First:
Business: Goodland Power Plant
Address: 1701 Cherry
Address:
City: Goodland State: KS ZIP: 67735

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: ■

**3 LOCATE WELL WITH "X" IN SECTION BOX:**

N
NW | NE
W X SW | SE E
S
1 mile

**4 DEPTH OF COMPLETED WELL:** 231 ft.
Depth(s) Groundwater Encountered: 1) ..... ft. 2) ..... ft. 3) ..... ft., or 4) ☐ Dry Well
WELL'S STATIC WATER LEVEL: 231.35 ft.
☐ below land surface, measured on (mo-day-yr) 7/14/17
☐ above land surface, measured on (mo-day-yr) .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Well water was ..... ft. after ..... hours pumping ..... gpm
Estimated Yield: ..... gpm
Bore Hole Diameter: 8.5 in. to ..... ft. and ..... in. to ..... ft.

**5 Latitude:** 39.34117 N (decimal degrees)
**Longitude:** 101.70465 W (decimal degrees)
Horizontal Datum: ☐ WGS 84 ■ NAD 83 ☐ NAD 27
Source for Latitude/Longitude:
☐ GPS (unit make/model: .....) (WAAS enabled? ☐ Yes ■ No)
☐ Land Survey ☐ Topographic Map
☐ Online Mapper: .....

**6 Elevation:** 3881.08 ft. ☐ Ground Level ■ TOC
Source: ■ 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. ■ Monitoring: well ID MW-12R
9. Environmental Remediation: well ID ..... ☐ Air Sparge ☐ Soil Vapor Extraction ☐ 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
13. ☐ Other (specify): .....

Was a chemical/bacteriological sample submitted to KDHE? ☐ Yes ■ No If yes, date sample was submitted: .....
Water well disinfected? ☐ Yes ■ No

**8 TYPE OF CASING USED:** ☐ Steel ■ PVC ☐ Other ..... CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ■ Threaded
Casing diameter 4 in. to 191 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface -6 in. Weight ..... lbs./ft. Wall thickness or gauge No. Sch 80

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 191 ft. to 231 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 181 ft. to 231 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

**9 GROUT MATERIAL:** ☐ Neat cement ☐ Cement grout ■ Bentonite ■ Other concrete 0-1 ft
Grout Intervals: From 1 ft. to 181 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? ..... Distance from well? ..... ft.

| 10 FROM | TO | LITHOLOGIC LOG | FROM | TO | LITHO. LOG (cont.) or PLUGGING INTERVALS |
|---|---|---|---|---|---|
| 0 | 0.5 | Asphalt | 126 | 134 | Gravelly sand with sandy clay |
| 0.5 | 20 | Silt | 134 | 143 | Sandy clay and caliche |
| 20 | 63 | Clayey silt with caliche | 143 | 181 | Clay and caliche |
| 63 | 72 | Gravelly sand | 181 | 196 | Sand |
| 72 | 83 | Clay and caliche with gravelly sand | 196 | 214 | Gravelly sand |
| 83 | 94 | Gravelly sand with clay and caliche | 214 | 240 | Sand with caliche and clay |
| 94 | 105 | Clay and caliche with sand, sandy clay | | | |
| 105 | 115 | Gravelly sand with sandy clay | | | |
| 115 | 126 | Clay and caliche with gravelly sand | | | |

Notes: Goodland Power Plant site; KDHE project code: U6-091-00882

**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) 7/12/17 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 881 This Water Well Record was completed on (mo-day-year) 7/24/17 under the business name of Woofter Pump & Well Signature [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

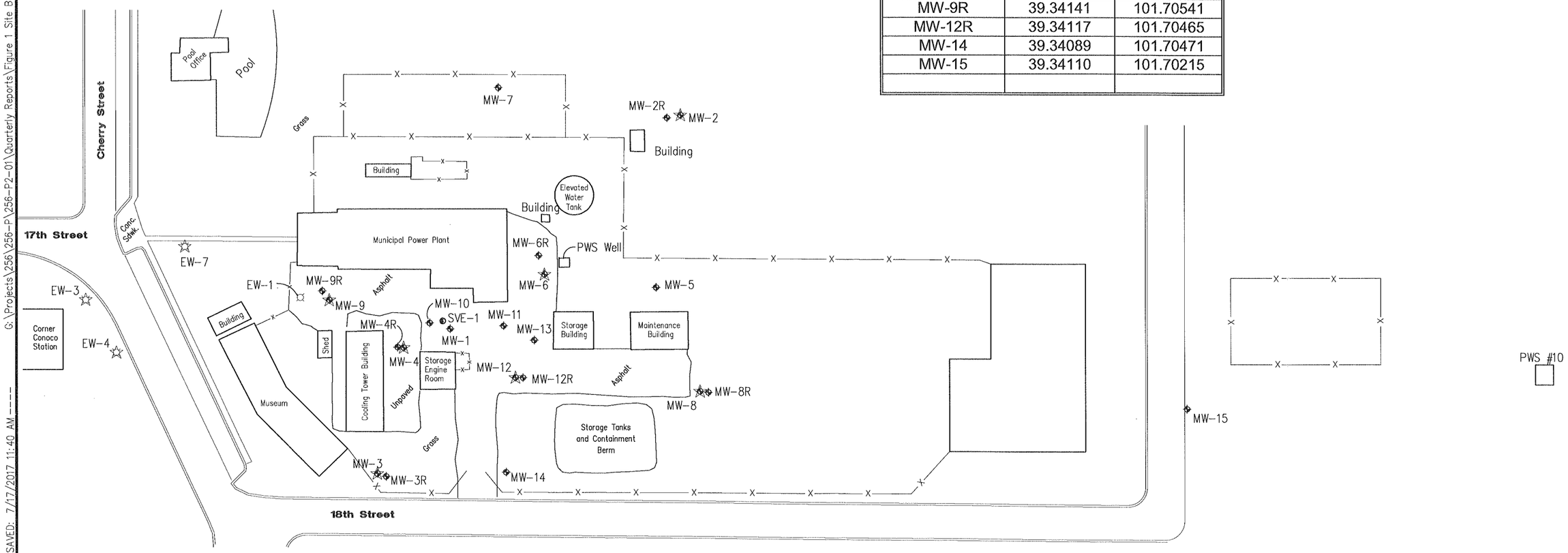
Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 7/10/2015

NOTE:
WELLS MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, AND MW-12 WERE PLUGGED ON JULY 13, 2017

**LEGEND**

- = Monitor Well
- = Plugged Well
- = SVE Well
- = Well for Conoco Site
- —X— = Fence line

| Well ID | Latitude | Longitude |
|---|---|---|
| MW-2R | 39.34193 | 101.70412 |
| MW-3R | 39.34088 | 101.70516 |
| MW-4R | 39.34125 | 101.70512 |
| MW-6R | 39.34152 | 101.70459 |
| MW-8R | 39.34113 | 101.70395 |
| MW-9R | 39.34141 | 101.70541 |
| MW-12R | 39.34117 | 101.70465 |
| MW-14 | 39.34089 | 101.70471 |
| MW-15 | 39.34110 | 101.70215 |
| | | |

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0 55 110
SCALE IN FEET

| REVISIONS | BY |
|---|---|
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| | |

**MILCO**
**Environmental Services, Inc.**
Kearney, NE (308) 237-5923
McCook, NE (308) 345-4741
Colby, KS (785) 460-1956

GOODLAND POWER PLANT
**SITE BASE MAP**
GOODLAND, KANSAS - U6-091-682

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| | |
|---|---|
| SCALE: AS SHOWN | |
| PROJECT NO. M256-P2-01 | |
| DATE: JULY, 2017 | |
| FIELD BOOK | M&A DWG NO. |
| DRAWN BY: BSF | APRV'D BY: |
| SHEET **FIGURE 1** | |

PLOTTED: 7/17/2017 12:54 PM SAVED: 7/17/2017 11:40 AM G:\Projects\256\256-P\256-P2-01\Quarterly Reports\Figure 1 Site Base Map.dwg