WATER WELL RECORD Form WWC-5

Division of Water Resources App. No. | Well ID: CMW-7D

■ Original Record ☐ Correction ☐ Change in Well Use

1 LOCATION OF WATER WELL: County: McPherson | Fraction: SE ¼ NE ¼ SE ¼ SW ¼ | Section Number: 22 | Township Number: T 19 S | Range Number: R 3 ☐ E ■ W

2 WELL OWNER: Last Name: First:
Business: CHS McPherson Refinery Inc.
Address: 1391 Iron Horse Road
Address:
City: McPherson State: KS ZIP: 67460

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: ☐
1901 E. First Street, McPherson

3 LOCATE WELL WITH "X" IN SECTION BOX:
N / W / E / S; NW, NE, SW, SE; X in SW
1 mile

4 DEPTH OF COMPLETED WELL: 85 ft.
Depth(s) Groundwater Encountered: 1) ..... ft. 2) ..... ft. 3) ..... ft., or 4) ☐ Dry Well
WELL'S STATIC WATER LEVEL: 66.83 ft.
☐ below land surface, measured on (mo-day-yr) 9/2019
☐ 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 in. to 85 ft. and ..... in. to ..... ft.

5 Latitude: 38.378977 (decimal degrees)
Longitude: -97.689616 (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: Google Earth

6 Elevation: 1497.00 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 CMW-7D
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 2 in. to 70 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface -5.16 in. Weight ..... lbs./ft. Wall thickness or gauge No. Sch. 40

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 70 ft. to 85 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 68 ft. to 85 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

9 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ■ Bentonite ■ Other Concrete
Grout Intervals: From 0 ft. to 3 ft., From 3 ft. to 68 ft., From ..... ft. to ..... ft.

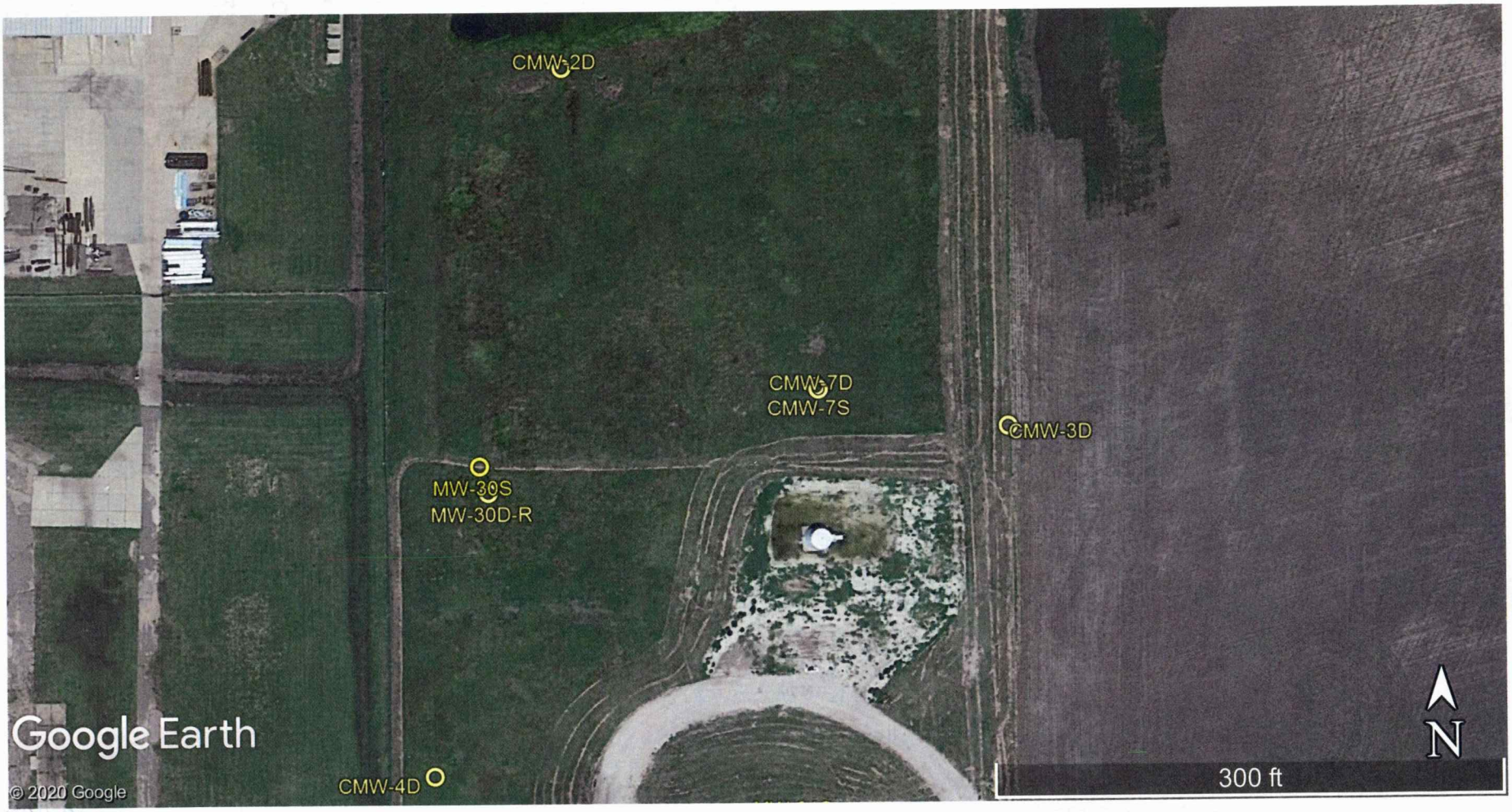
Nearest source of possible contamination:
☐ Septic Tank ☐ Lateral Lines ☐ Pit Privy ☐ Livestock Pens ☐ Insecticide Storage
☐ Sewer Lines ☐ Cess Pool ☐ Sewage Lagoon ☐ Fuel Storage ☐ Abandoned Water Well
☐ Watertight Sewer Lines ☐ Seepage Pit ☐ Feedyard ☐ Fertilizer Storage ☐ Oil Well/Gas Well
☐ Other (Specify) .....
Direction from well? ..... Distance from well? ..... ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	1	Topsoil, Dark Brown	44	49	Sand, fm, some clay and silt
1	14	Silt, clayey, Brown	49	55	Clay, Tan and Brown
14	15	Caliche, white	55	70	Clay, w/caliche fragments, silty, Gray
15	27	Silt, clayey, Brown	70	75	Clay, v. silty, sl. sandy
27	29	Clay, silty and sandy, Brown and Tan	75	83	Clay, shaley, Tan/Gray
29	30	Sand, vf, w/clay and silt	83	85	Sand, m, Tan
30	35	Silt, sandy, w/clay, Tan	Notes:		
35	43	Sand, vf, silty, some clay, Gray			
43	44	Clay			

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) 8/22/2019 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 527 This Water Well Record was completed on (mo-day-year) 5/15/2020 under the business name of GeoCore, LLC 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**



Project Site:
CHS McPherson Refinery, Inc., 1901 E. First St., McPherson

GPS Coordinates:

CMW-2D: 38.379498, -97.640145
CMW-3D: 38.378917, -97.639222
CMW-4D: 38.378353, -97.640415
CMW-7D: 38.378977, -97.689616
CMW-7S: 38.378982, -97.639621
MW-30D-R: 38.378813, -97.640299

Note: MW-30S was installed on a previous occasion.

McPherson 22-T19-R3W