WATER WELL RECORD Form WWC-5

■ Original Record ☐ Correction ☐ Change in Well Use

Division of Water Resources App. No. ______ Well ID: CMW-2D

1 LOCATION OF WATER WELL: County: McPherson | Fraction: NE 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 (X), SE — 1 mile

4 DEPTH OF COMPLETED WELL: 90 ft.
Depth(s) Groundwater Encountered: 1) ...... ft. 2) ...... ft. 3) ...... ft., or 4) ☐ Dry Well
WELL'S STATIC WATER LEVEL: 59.59 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 90 ft. and ...... in. to ...... ft.

5 Latitude: 38.379498 (decimal degrees)
Longitude: -97.640145 (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: 1497.59 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-2D
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 75 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 75 ft. to 90 ft., From ...... ft. to ...... ft., From ...... ft. to ...... ft.
GRAVEL PACK INTERVALS: From 73 ft. to 90 ft., From ...... ft. to ...... ft., From ...... ft. to ...... ft.

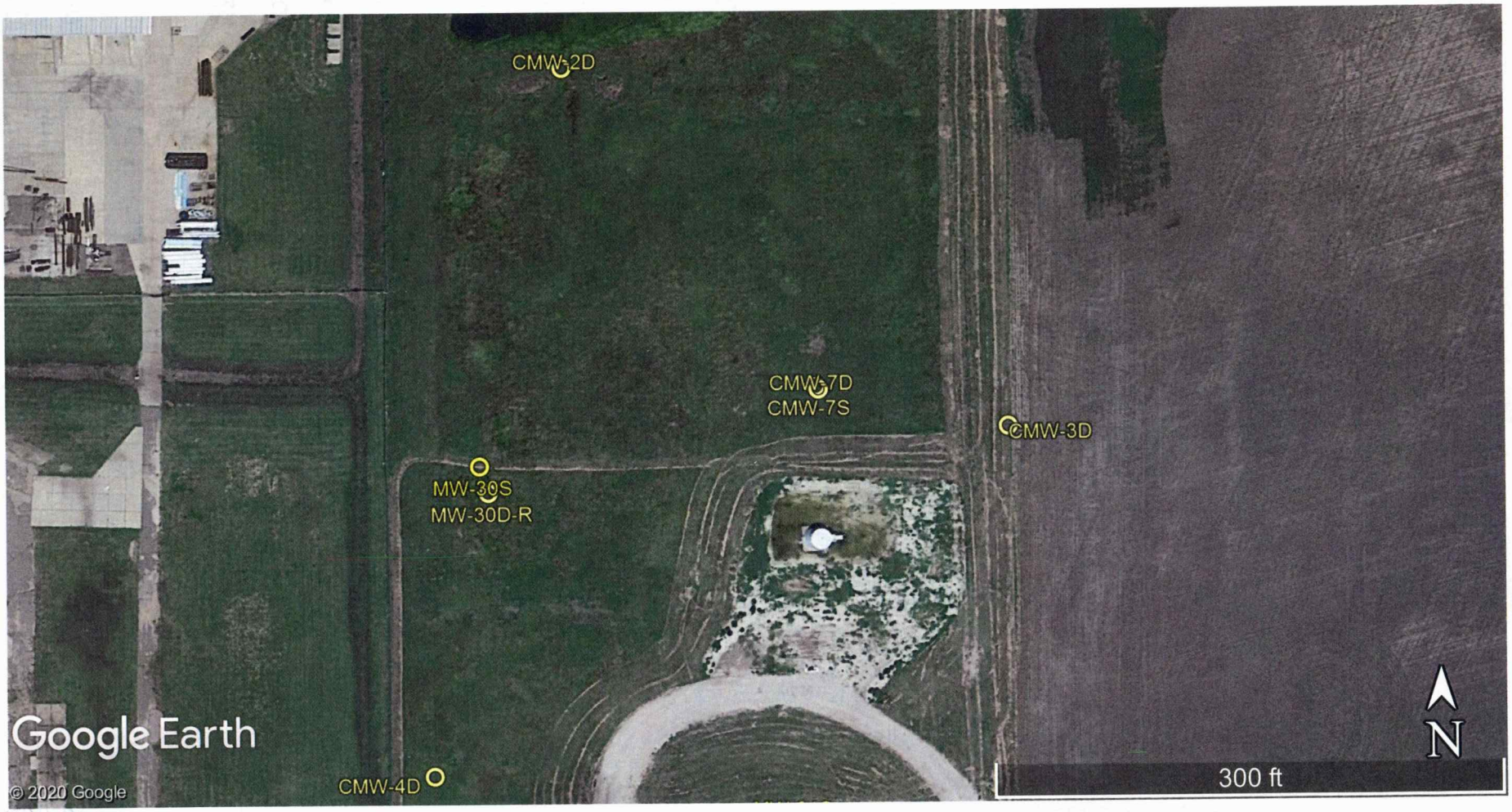
9 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ■ Bentonite ■ Other Concrete
Grout Intervals: From 0 ft. to 3 ft., From 3 ft. to 73 ft., From ...... ft. to ...... ft.

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	3	Topsoil	55	60	Clay, silty, Reddish Brown
3	10	Silt, clayey, Dark Brown	60	70	Silt, sandy and clayey, caliche fragments
10	15	Silt, clayey, Tan	70	73	Silt, sandy, Reddish Brown
15	20	Silt, clayey, Brown-Reddish	73	75	Clay, silty and sandy
20	25	Silt, Tan, caliche fragments	75	78	Silt, cemented
25	30	Silt, clayey, Brown-Reddish	78	88	Silt, clayey and sandy
30	45	Silt, sandy and clayey, Brown-Gray	Notes: 88 to 90		Sand, m, Gray
45	48	Clay, silty, Brown-Gray			
48	55	Sand, m			

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) 8/27/2019 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 [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.



McPherson 22-T19-R3W

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.