

WATER WELL RECORD Form WWC-5

☒ Original Record ☐ Correction ☐ Change in Well Use

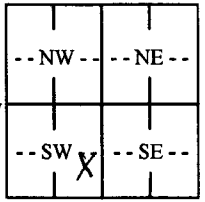
Division of Water
Resources App. No.

Well ID

CMW-7S

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 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: CHS McPherson Refinery Inc. Business: CHS McPherson Refinery Inc. Address: 1391 Iron Horse Road 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: <input type="checkbox"/> 1901 E. First Street, McPherson
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3 LOCATE WELL WITH "X" IN SECTION BOX: N  W E S 1 mile	4 DEPTH OF COMPLETED WELL: 50 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 32.4 ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) 9/2019 <input type="checkbox"/> 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 50 ft. and in. to ft.	5 Latitude: 38.378982 (decimal degrees) Longitude: -97.639621 (decimal degrees) Horizontal Datum: <input checked="" type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input type="checkbox"/> NAD 27 Source for Latitude/Longitude: <input type="checkbox"/> GPS (unit make/model:) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Online Mapper: Google Earth
	6 Elevation: 1497.03 ft. <input checked="" type="checkbox"/> Ground Level <input type="checkbox"/> TOC Source: <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other	

7 WELL WATER TO BE USED AS: 1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock 2. <input type="checkbox"/> Irrigation 3. <input type="checkbox"/> Feedlot 4. <input type="checkbox"/> Industrial 5. <input type="checkbox"/> Public Water Supply: well ID 6. <input type="checkbox"/> Dewatering: how many wells? 7. <input type="checkbox"/> Aquifer Recharge: well ID 8. <input checked="" type="checkbox"/> Monitoring: well ID CMW-7S 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection 10. <input type="checkbox"/> Oil Field Water Supply: lease 11. Test Hole: well ID <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12. Geothermal: how many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water 13. <input type="checkbox"/> Other (specify):		
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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 **30** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface **4.68** 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 **30** ft. to **50** ft., From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From **28** ft. to **50** 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 **28** 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	45	Clay, Tan and Brown
1	9	Silt, clayey, Brown	45	49	Sand, f-m, some clay and silt
9	14	Silt, clayey, Brown	49	50	Clay, Tan and Brown
14	15	Caliche, white, w/gravel			
15	27	Silt, clayey, Brown			
27	29	Clay, silty and sandy, Brown and Tan			
29	30	Sand, vf, w/clay and silt	Notes:		
30	35	Silt, sandy w/clay, Tan			
35	44	Sand, vf, silty, Gray, some 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 **Joe Kelly**

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.