

WATER WELL RECORD Form WWC-5

☒ Original Record ☐ Correction ☐ Change in Well Use

Division of Water
Resources App. No.

CMW-3D

Well ID

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																																																							
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																																																											
3 LOCATE WELL WITH "X" IN SECTION BOX: N  S W E 1 mile		4 DEPTH OF COMPLETED WELL: 85 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: 64.64 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 85 ft. and in. to ft.				5 Latitude: 38.378917 (decimal degrees) Longitude: -97.639222 (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																																																									
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-3D 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):		6 Elevation: 1498.97 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																																																													
Was a chemical/bacteriological sample submitted to KDHE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, date sample was submitted:																																																															
Water well disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																															
8 TYPE OF CASING USED: <input type="checkbox"/> Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other CASING JOINTS: <input type="checkbox"/> Glued <input type="checkbox"/> Clamped <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded Casing diameter 2 in. to 70 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface 3.96 in. Weight lbs./ft. Wall thickness or gauge No. Sch. 40 TYPE OF SCREEN OR PERFORATION MATERIAL: <input type="checkbox"/> Steel <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Fiberglass <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Brass <input type="checkbox"/> Galvanized Steel <input type="checkbox"/> Concrete tile <input type="checkbox"/> None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: <input type="checkbox"/> Continuous Slot <input checked="" type="checkbox"/> Mill Slot <input type="checkbox"/> Gauze Wrapped <input type="checkbox"/> Torch Cut <input type="checkbox"/> Drilled Holes <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Louvered Shutter <input type="checkbox"/> Key Punched <input type="checkbox"/> Wire Wrapped <input type="checkbox"/> Saw Cut <input type="checkbox"/> 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: <input type="checkbox"/> Neat cement <input type="checkbox"/> Cement grout <input checked="" type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Other Concrete Grout intervals: From 0 ft. to 8 ft., From 8 ft. to 68 ft., From ft. to ft. Nearest source of possible contamination: <input type="checkbox"/> Septic Tank <input type="checkbox"/> Lateral Lines <input type="checkbox"/> Pit Privy <input type="checkbox"/> Livestock Pens <input type="checkbox"/> Insecticide Storage <input type="checkbox"/> Sewer Lines <input type="checkbox"/> Cess Pool <input type="checkbox"/> Sewage Lagoon <input type="checkbox"/> Fuel Storage <input type="checkbox"/> Abandoned Water Well <input type="checkbox"/> Watertight Sewer Lines <input type="checkbox"/> Seepage Pit <input type="checkbox"/> Feedyard <input type="checkbox"/> Fertilizer Storage <input type="checkbox"/> Oil Well/Gas Well <input type="checkbox"/> Other (Specify) Direction from well? Distance from well? ft.																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>10 FROM</th> <th>TO</th> <th>LITHOLOGIC LOG</th> <th>FROM</th> <th>TO</th> <th>LITHO. LOG (cont.) or PLUGGING INTERVALS</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>Topsoil</td> <td>83.5</td> <td>85</td> <td>Sand, m, Green</td> </tr> <tr> <td>1</td> <td>10</td> <td>Silt, clayey, Dark Brown</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>32</td> <td>Silt, clayey, Dark Brown, caliche 14 & 21'</td> <td></td> <td></td> <td></td> </tr> <tr> <td>32</td> <td>48</td> <td>Sand, f-m, clayey, caliche 39-40'</td> <td></td> <td></td> <td></td> </tr> <tr> <td>48</td> <td>51</td> <td>Clay, Brown/Tan w/black nodules</td> <td></td> <td></td> <td></td> </tr> <tr> <td>51</td> <td>55</td> <td>Sand, m</td> <td></td> <td></td> <td></td> </tr> <tr> <td>55</td> <td>74.5</td> <td>Clay, silty and sandy, Tan/Gray</td> <td colspan="3" rowspan="3">Notes:</td> </tr> <tr> <td>74.5</td> <td>75</td> <td>Sand, Gray/Tan</td> </tr> <tr> <td>75</td> <td></td> <td>Clay, Gray/Brown</td> </tr> </tbody> </table>										10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS	0	1	Topsoil	83.5	85	Sand, m, Green	1	10	Silt, clayey, Dark Brown				10	32	Silt, clayey, Dark Brown, caliche 14 & 21'				32	48	Sand, f-m, clayey, caliche 39-40'				48	51	Clay, Brown/Tan w/black nodules				51	55	Sand, m				55	74.5	Clay, silty and sandy, Tan/Gray	Notes:			74.5	75	Sand, Gray/Tan	75		Clay, Gray/Brown
10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS																																																										
0	1	Topsoil	83.5	85	Sand, m, Green																																																										
1	10	Silt, clayey, Dark Brown																																																													
10	32	Silt, clayey, Dark Brown, caliche 14 & 21'																																																													
32	48	Sand, f-m, clayey, caliche 39-40'																																																													
48	51	Clay, Brown/Tan w/black nodules																																																													
51	55	Sand, m																																																													
55	74.5	Clay, silty and sandy, Tan/Gray	Notes:																																																												
74.5	75	Sand, Gray/Tan																																																													
75		Clay, Gray/Brown																																																													
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was <input checked="" type="checkbox"/> constructed, <input type="checkbox"/> reconstructed, or <input type="checkbox"/> plugged under my jurisdiction and was completed on (mo-day-year) 8/23/2019 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 GeoCore, LLC																																																															

McPherson

22-T19-R3 W



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.