

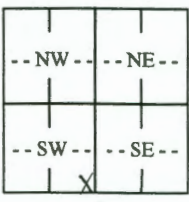
WATER WELL RECORD Form WWC-5

Division of Water
Resources App. No.

CMW-5D

☒ Original Record ☐ Correction ☐ Change in Well Use

Well ID

1 LOCATION OF WATER WELL: County: McPherson		Fraction NE ¼ SE 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: 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: <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: 80 ft. Depth(s) Groundwater Encountered: 1) ft. 2) ft. 3) ft., or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: ft. <input type="checkbox"/> below land surface, measured on (mo-day-yr) <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: 1 in. to 80 ft. and in. to ft.				5 Latitude: 38.377837 (decimal degrees) Longitude: -97.639902 (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 checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper:																																																									
6 Elevation: 1495.25 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-5D 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):																																																															
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 4 in. to 70 ft., Diameter in. to ft., Diameter in. to ft. Casing height above land surface -6.48 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 80 ft., From ft. to ft., From ft. to ft. GRAVEL PACK INTERVALS: From 68 ft. to 80 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 type="checkbox"/> Other Concrete Grout Intervals: From 0 ft. to 1 ft., From 1 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, Brown-Black</td> <td>43</td> <td>65</td> <td>Clay</td> </tr> <tr> <td>1</td> <td>3</td> <td>Clay, silty, Dark Brown</td> <td>65</td> <td>72</td> <td>Silt, sandy and clayey</td> </tr> <tr> <td>3</td> <td>13</td> <td>Silt, clayey</td> <td>72</td> <td>75</td> <td>Sand, m, Gray and Black</td> </tr> <tr> <td>13</td> <td>14</td> <td>Caliche</td> <td>75</td> <td>79</td> <td>Clay, silty, sandy, Brown</td> </tr> <tr> <td>14</td> <td>22</td> <td>Silt, some vf sand, Brown w/Black</td> <td>79</td> <td>80</td> <td>Clay, sandy, Gray</td> </tr> <tr> <td>22</td> <td>34</td> <td>Clay</td> <td></td> <td></td> <td></td> </tr> <tr> <td>34</td> <td>37</td> <td>Sand, f, clayey, Gray</td> <td colspan="3" rowspan="3">Notes:</td> </tr> <tr> <td>37</td> <td>39</td> <td>Clay, silty, Gray and Brown</td> </tr> <tr> <td>39</td> <td>43</td> <td>Sand</td> </tr> </tbody> </table>										10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS	0	1	Topsoil, Brown-Black	43	65	Clay	1	3	Clay, silty, Dark Brown	65	72	Silt, sandy and clayey	3	13	Silt, clayey	72	75	Sand, m, Gray and Black	13	14	Caliche	75	79	Clay, silty, sandy, Brown	14	22	Silt, some vf sand, Brown w/Black	79	80	Clay, sandy, Gray	22	34	Clay				34	37	Sand, f, clayey, Gray	Notes:			37	39	Clay, silty, Gray and Brown	39	43	Sand
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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) 12/10/2019 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) 1/24/2019 under the business name of GeoCore Inc. 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



CHS McPherson Refinery Inc.
 Wells located near:
 1901 E. First Street, McPherson

GPS Coordinates:

CMW-5D: 38.377837, -97.639902
 CMW-5S: 38.377837, -97.639890
 CMW-6D: 38.380275, -97.639330
 CMW-6S: 38.380275, -97.639317

MW-30S: 38.378856, -97.640317
 MW-31S: 38.378288, -97.639658

RECEIVED

MAR 08 2019

BUREAU OF WATER