WATER WELL RECORD Form WWC-5

■ Original Record ☐ Correction ☐ Change in Well Use

Division of Water Resources App. No. ______ Well ID: MW-31S

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: McPherson	NE ¼ SE ¼ SE ¼ SW ¼	22	T 19 S	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 marked in SW quarter. 1 mile

4 DEPTH OF COMPLETED WELL: 50 ft.
Depth(s) Groundwater Encountered: 1) .... ft. 2) .... ft. 3) .... ft., or 4) ☐ Dry Well
WELL'S STATIC WATER LEVEL: .... ft.
☐ below land surface, measured on (mo-day-yr)........
☐ 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: 11 in. to 50 ft. and .... in. to .... ft.

5 Latitude: 38.378288 (decimal degrees)
Longitude: -97.639658 (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: ....

6 Elevation: 1496.30 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 MW-31S
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 4 in. to 25 ft., Diameter .... in. to .... ft., Diameter .... in. to .... ft.
Casing height above land surface -4.92 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 25 ft. to 50 ft., From .... ft. to .... ft., From .... ft. to .... ft.
GRAVEL PACK INTERVALS: From 23 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 1 ft., From 1 ft. to 23 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, Brown-Black	29	30	Caliche
1	3	Clay, silty, Dark Brown	30	32	Clay, silty, w/caliche
3	5	Silt, clayey, Gray w/Orange mottling	32	37	Silt, clayey, Tan and Brown
5	17	Clay, silty	37	38	Sand, f, clayey
17	22	Silt, clayey, Gray-Orange-Brown	38	46	Sand, f-m
22	24	Sand, f, clayey, Gray and Tan	46	50	Clay, silty and sandy, Brown w/Black
24	26	Silt, clayey, Gray	**Notes:**		
26	27	Caliche fragments in clay			
27	29	Silt, clayey, Dark Brown			

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) 12/14/2019 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 [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

RECEIVED
MAR 08 2019
BUREAU OF WATER

GPS Coordinates:

CMW-5D:	38.377837, -97.639902	MW-30S:	38.378856, -97.640317
CMW-5S:	38.377837, -97.639890	MW-31S:	38.378288, -97.639658
CMW-6D:	38.380275, -97.639330		
CMW-6S:	38.380275, -97.639317		