

WATER WELL RECORD (WWC-5)

KOLAR DOC ID _____ WELL ID _____
 Original Record Correction Change in Well Use

LOCATION OF WATER WELL

Latitude		Longitude		Section		Township		Range		E W	Fraction	¼	¼	¼
Datum		Elevation		County										

WATER WELL OWNER

Name	
Business	
Address	
Well location at owner's address	

WELL WATER USE

COMPLETION

Depth of completed well: _____ ft.
 Depth(s) groundwater encountered:
 (1) _____ ft.; (2) _____ ft.;
 (3) _____ ft.; (4) dry well

Static water level in well: _____ ft.
 measured below land surface on (mm/dd/yy): _____
 measured above land surface on (mm/dd/yy): _____

Estimated yield: _____ gpm
 Water level was: _____ ft. after _____ hours
 pumping _____ gpm
 Pump installed? Yes No

Water well disinfected? Yes No
 Date disinfected (mm/dd/yy): _____

Aquifer, if known: _____

NEAREST SOURCE OF POTENTIAL CONTAMINATION

Source: _____
 Distance from well: _____ Direction from well: _____
 Source description: _____

Source: _____
 Distance from well: _____ Direction from well: _____
 Source description: _____

No potential source of contamination within 100 feet.

CONSTRUCTION

Borehole interval: from _____ to _____ ft.	Borehole diameter: _____ in.
Borehole interval: from _____ to _____ ft.	Borehole diameter: _____ in.
Casing height above land surface: _____ in. If casing height is less than 12 in. has a variance been approved?* Yes No *variance not required for monitoring or environmental remediation wells	
Casing type: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in. Casing joints: _____ Weight: _____ lbs/ft. Wall thickness or gauge no.: _____	
Blank casing interval: _____ ft. to _____ ft.	
Blank casing diameter: _____ in. Casing joints: _____ Weight: _____ lbs/ft. Wall thickness or gauge no.: _____	
Grout interval: _____ ft. to _____ ft. Grout material: _____	
Grout interval: _____ ft. to _____ ft. Grout material: _____	
Screen / perforation material: _____	
Screen / perforation openings: _____	
Screen / perforation intervals: From _____ ft. to _____ ft. Slot size _____ unit _____	
From _____ ft. to _____ ft. Slot size _____ unit _____	
Gravel pack intervals: Gravel pack not used: Gravel size _____ in. From _____ ft. to _____ ft.	
Gravel pack not used: Gravel size _____ in. From _____ ft. to _____ ft.	

PERMIT & ID NUMBERS (AS REQUIRED)

DWR Application No.: _____
 KDHE / EPA Project Code: _____
 Site Name: _____
 KDHE UIC Class V Form Completed: Yes No
 County Permit: Yes No Permit ID: _____
 Lease Name & Well #: _____
 # of boreholes: _____ # of dewatering wells: _____

LITHOLOGIC LOG

FROM	TO	LITHOLOGY INTERVALS

COMMENTS

CONTRACTOR'S OR LANDOWNERS CERTIFICATION

This water well was constructed reconstructed pursuant to the stated water well contractor's license and was completed on _____. I certify that this record is true to the best of my knowledge and belief. This water well record was completed on _____ under the business name of _____, Kansas Water Well Contractor's License No. _____ under the authority of the designated person as defined in K.A.R. 28-30-2(j) and signed and certified by the electronic signature of the designated person at its submittal: _____.

Send one copy to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well.

Form	WWC5.2 - Water Well Record
Doc ID	1741874
Well Owner	TC Energy
Contractor	Plains Environmental Services, Inc. - #1039

Lithology

From	To	Lithology Intervals
0	1	silt
1	2	sand,very fine
2	10	silt
10	11	sand,very fine
11	12	clay
12	15.5	sand,very fine,clayey,dark,grayish,moist
15.5	18	clay,wet
18	20	sand,very fine,clayey,dark,grayish,wet

Drilling Log

Project Name TC Milepost 14		Project No. 152919 Location Washington, KS			Boring Number MW-08		
Ground Elevation 1,246.45 ft. amsl		Northing 557302.91 Easting 1597398.73		Latitude N39.85905 Longitude W96.98458		Page 1 of 2	
TOC Elevation 1,249.41 ft. amsl		Air Monitoring Equipment 4 Gas / PID			Total Footage 20 feet		
Drilling Type	Hole Size	Overburden Footage	Bedrock Footage	No. Of Samples	No. Core Boxes	Depth to Water	Date Measured
Direct-Push + HSA	2.25" / 8.25"	20	0	1	NA	15.53	11-6-23
Drilling Company PES				Driller(s) Jason Auernheimer			
Drilling Rig Geoprobe 7822				Type of Sampler Macro-Core			
Date 11-3-23		To 11-5-23		Field Observer(s) C. Hoglund			

Elev. (ft msl)	Depth (ft)	Blow Counts	USCS Symbol	Recov. & Run Time	PID Rdg.	Description	Depth (ft)	Well Diagram	Remarks/ Notes
1246	1		ML	1252		SILT - Grayish Brown (10YR 5/2), some very fine sand, low-medium density, trace-few roots, DRY.	1		1240 START DRILLING; direct-push Macro-Core
1245	2		SP	4.8/5 96%	0	SAND - Grayish Brown (10YR 5/2), very fine, loose, DRY.	2		
1244	3				0	SILT - Grayish Brown (10YR 5/2), some very fine sand, low-medium density, weak trace-few roots, DRY-DAMP. Few Very Pale Brown (10YR 7/3) very fine to fine sand streaks, pockets, root traces.	3		
1243	4				0		4		
1242	5				0		5		
1241	6			1253	0		6		
1240	7			4.3/5 86%	0	medium to high density, trace roots	7		
1239	8				0		8		
1238	9				0	with sand (very fine to fine), DAMP.	9		
1237	10		SP	1303	0	SAND - Brown (10YR 5/3), very fine to fine, loose, few-little clay partings, trace black organic debris (very fine to fine), DAMP to MOIST.	10		
1236	11		CH	4/5 80%	0	CLAY - Dark Gray (10YR 4/1), some silt, trace very fine sand, low consistency (soft), medium-high plasticity, trace organic debris, DAMP-MOIST.	11	10' screen; 2" diameter Sch. 40 PVC; 0.01" machine-slotted.	
1235	12		SC		0	SAND - Dark Gray (10YR 4/1), with clay, low consistency and plasticity, trace-few organic debris streaks/inclusions, MOIST. Trace-few Light Gray (10YR 7/1), sand partings (very fine to fine), quartz-rich.	12		
1234	13				0		13		
1233									

LOG/MONITOR WELL DIAGRAM - ENV1_CM_TC MILEPOST 14 MW INSTALL_OCT-NOV_2023 (1).GPJ WILLIAMS.GDT 12/12/23

Drilling Log, continued

Project Name TC Milepost 14							Boring Number MW-08		
Project Number 152919							Page 2 of 2		
Date 11-3-23									
Elev. (ft msl)	Depth (ft)	Blow Counts	USCS Symbol	Recov. & Run Time	PID Rdg.	Description	Depth (ft)	Well Diagram	Remarks/ Notes
1232	15		SC		0	SAND - Dark Gray (10YR 4/1), with clay, low consistency and plasticity, trace-few organic debris streaks/inclusions, MOIST. Trace-few Light Gray (10YR 7/1), sand partings (very fine to fine), quartz-rich.	15		End of Boring 20' bgs; no refusal encountered. 1330-1645 HSA drill and install 2" MW.
1231	16		CH	1306	0	CLAY - Grayish Brown (10YR 5/2), with silt, some very fine sand, low consistency (soft), medium-high plasticity, some white and black wood debris/inclusions (large), WET.	16		
1230	17			4.3/5 86%	0		17		
1229	18				0		18		
1228	19		SC		0	SAND - Dark Gray (10YR 4/1), very fine to fine grain, with clay, low density/consistency (soft), low-medium plasticity, trace-few organic debris, WET.	19		
1227	20				0		20		
1226	21		SP		0	SAND - Dark Gray (10YR 4/1), very fine to fine grain, trace organic/wood debris, WET. End of Boring = 20 ft bgs; no refusal encountered.	21		
1225	22						22		
1224	23						23		
1223	24						24		
1222	25						25		
1221	26						26		
1220	27						27		
1219	28						28		
1218	29						29		
1217	30						30		
1216									

LOG/MONITOR WELL DIAGRAM - ENV1_CM_TC MILEPOST 14 MW INSTALL_OCT-NOV_2023 (1).GPJ WILLIAMS.GDT 12/12/23