CORRECTION(S) TO WATER WELL RECORD (Form WWC-5)

(to rectify lacking or incorrect information)

LOCATION OF WATER WELL: County: Phillips	Fraction: SW ¼ NE ¼ SE ¼ NE ¼	Section: 27	Township: T 3 S	Range: R 18 ☐E ☒W

Owner: Coffeyville Resources Terminal

Location was listed as:	**Location changed to:**
Sec. 27 **T** 3 **S** **R** 18 ☐E ☒W	**Sec.** 27 **T** 3 **S** **R** 18 ☐E ☒W
Fraction: ____ SW NE SE	**Fraction:** SW NE SE NE

Other changes: Initial statements: _____

Changed to: _____

Comments: Added Lat.: 39.76571861 Long.: -99.32943123 (IM-31)

Verification method: David Coe from WSP-Parsons Brinckerhoff obtained Latitude and Longitude from terminal head forman using GPS equipment

initials: DRL date: 05-10-2016

Submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

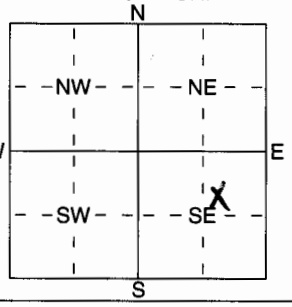
WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. IM-31

1 LOCATION OF WATER WELL: County: PHILLIPS | Fraction: SW ¼ NE ¼ SE ¼ | Section Number: 27 | Township Number: T 3 (S) | Range Number: R 18 (E)/W

Distance and direction from nearest town or city street address of well if located within city?
NORTH HIGHWAY 183, PHILLIPSBURG, KS

2 WATER WELL OWNER: COFFEYVILLE RESOURCES TERMINAL
RR#, St. Address, Box # : P.O. BOX 608
City, State, ZIP Code : PHILLIPSBURG, KS 67661
Board of Agriculture, Division of Water Resources Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 54 ft. ELEVATION:
Depth(s) Groundwater Encountered 1 ..... ft. 2 ..... ft. 3 ..... ft.
WELL'S STATIC WATER LEVEL ..... ft. below land surface measured on mo/day/yr .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm
WELL WATER TO BE USED AS: 1 Domestic 2 Irrigation 3 Feedlot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Domestic (lawn & garden) 8 Air conditioning 9 Dewatering 10 Monitoring well 11 Injection well 12 Other (Specify below) .....

Was a chemical/bacteriological sample submitted to Department? Yes ..... No .....; If yes, mo/day/yrs sample was submitted ..... Water Well Disinfected? Yes ..... No .....

5 TYPE OF BLANK CASING USED: 1 Steel 2 PVC (2) 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below) .....
CASING JOINTS: Glued ..... Clamped ..... Welded ..... Threaded X

Blank casing diameter 2 in. to 39 ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.
Casing height above land surface 0 in., weight SCH 40 lbs./ft. Wall thickness or guage No. .....

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 2 Brass 3 Stainless Steel 4 Galvanized Steel 5 Fiberglass 6 Concrete tile (6) PVC 8 RMP (SR) 9 ABS 10 Asbestos-Cement 11 Other (Specify) ..... 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot (3) Mill slot 2 Louvered shutter 4 Key punched 5 Guazed wrapped 6 Wire wrapped 7 Torch cut 8 Saw cut 9 Drilled holes 10 Other (specify) ..... 11 None (open hole)

SCREEN-PERFORATED INTERVALS: From 54 ft. to 39 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 54 ft. to 37 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout (3) Bentonite 4 Other .....
Grout Intervals: From 37 ft. to 1.0 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

What is the nearest source of possible contamination:
1 Septic tank 2 Sewer lines 3 Watertight sewer lines 4 Lateral lines 5 Cess pool 6 Seepage pit 7 Pit privy 8 Sewage lagoon 9 Feedyard 10 Livestock pens 11 Fuel storage 12 Fertilizer storage 13 Insecticide storage 14 Abandoned water well 15 Oil well/Gas well 16 Other (specify below) .....
Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	0.5	ORGANIC CLAY - TOPSOIL			
0.5	32	SILT, CLAYEY, PALE TO YELLOW BROWN, LOW PLASTICITY			
32	34.5	SAND, YELLOWBROWN, MED. GRAINED, WELL SORTED			
34.5	40.5	SILT, CLAYEY, BROWN, LOW PLASTICITY			
40.5	45.5	CLAY, SANDY, DK. YELLOWBROWN MED. PLASTICITY			
45.5	48	SAND, GRAY, MED. GRAINED, WELL SORTED			
48	54	CLAY, YELLOW BROWN, HIGH PLASTICITY			

RECEIVED
SEP 30 2004
BUREAU OF WATER

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 7-22-04 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's Licence No 529 This Water Well Record was completed on (mo/day/yr) 9/27/04 under the business name of GEOTECHNOLOGY, INC. by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well.

Boring Log: IM-31

Project: Coffeyville - CRT
Project No.: 131018
Location: Phillipsburg
Completion Date: 7/22/04

Surface Elevation (feet AMSL*): 1948.77
TOC Elevation (feet AMSL*): 1948.42
Total Depth (feet): 54
Borehole Diameter (inches): 8.25

ENVIRONMENTAL STRATEGIES

Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
0						Ground Surface	
						Organic Clay (OL)	
						Clayey silt (ML) very stiff, 10YR6/3, low plasticity, dry	
2		0/0		98			
4							
		0/0		78			
6							
8							
						Clayey, silt (ML) stiff, 10YR6/3, low plasticity, dry	
10		0/0		89			
12							
		0/1		93			
14							
16						***Sandy, clayey silt (ML)*** very stiff, 10YR4/2, no-low plasticity, occasional sand grain	
						Clayey silt (ML) very stiff, 10YR5/4, low plasticity, some white spot discoloration	
18		0/0		93			
20							

grout

Geologist(s): Mike Haggerty
Subcontractor: Geotechnology
Driller/ Operator: Craig

Method: **HSA** ☑ **Geoprobe** ☐ **ID(inches):** **Rotosonic** ☐

** AMSL= Above mean sea level*

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Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
22		0/1		85			
24		0/1		89		***Sandy, clayey, silt (ML)*** med stiff-stiff, 10YR5/6, low plasticity, dry, slight increase in sand content with depth	
26							
28		0/1		96			
30							
32		0/1		93		***Sand (SW)*** loose, 10YR6/4, small-med grained, well sorted, sub angular grains	
34							
36		0/1		100		***Sandy, clayey silt (ML)*** medium stiff, 10YR5/3, low plasticity, increase in sand content with depth, occasional red/orange discoloration spot	hydrated bentonite
38							
40							

Geologist(s): Mike Haggerty
Subcontractor: Geotechnology
Driller/ Operator: Craig

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Sample Data					Subsurface Profile		
Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
42		2/3		100		*Sandy clay (CL/CH)* very stiff, 10YR4/4, medium plasticity, moist	
44							
46		366/178		80		*Sand (SW)* loose, gray, well sorted, medium grained, sub angular grains	
48		140/143	11	92		*Clay (CH)* medium stiff, 10YR5/4, high plasticity, wet, some sand pebbles, red/orange discolorations	
50		4/7	3	100			
52		0/3	3	100			
54							
56							
58							
60							

sand filter pack

15' 0.010 " slotted PVC pipe

Geologist(s): Mike Haggerty
Subcontractor: Geotechnology
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Method: HSA ☑ Geoprobe ☐ ID(inches): Rotosonic ☐

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