WATER WELL RECORD Form WWC-5 KSA 82a-1212 ID No. EM-32

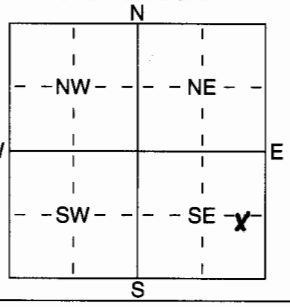
1 LOCATION OF WATER WELL: County: PHILLIPS | Fraction: NW ¼ SW ¼ SE ¼ | Section Number: 27 | Township Number: T 3 (S) | Range Number: R 18 (E) W

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 60 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 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 45 ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.
Casing height above land surface 0 in., weight ..... 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 (1) 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 2 Louvered shutter (3) Mill slot 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 60 ft. to 45 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 60 ft. to 43 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 43 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	36	SILTY CLAYEY, YELLOW BROWN, LOW PLASTICITY			
36	48.5	SAND, SILT CLAY @ 41, YELLOW BROWN, FINE TO MED GRAINED WELL SORTED			RECEIVED
48.5	53.5	CLAY SANDY & SILTY, SAND SEAM @ 49, GRAY BROWN			SEP 30 2004
53.5	56	SAND, GRAVELLY TO SILTY, GRAY BROWN, POORLY SORTED			BUREAU OF WATER
56	60	CLAY, SILTY, GRAY TO YELLOW BROWN, HIGH PLASTICITY			

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) 7-28-04 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) 8-2-04 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-32

Project: Coffeyville - CRT
Project No.: 131018
Location: Phillipsburg
Completion Date: 7/28/04

Surface Elevation (feet AMSL*): 1952.44
TOC Elevation (feet AMSL*): 1952.10
Total Depth (feet): 60
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, 10YR6/4, low plasticity, dry	
2		0/0		74			
4						*Clayey, silt (ML)* stiff, 10YR6/3, low plasticity, dry, some carbonate nodules	grout
6		0/0		87			
8							
10		0/0		96			
12							
14		0/0		93			
16						*Sandy, clayey silt (ML)* stiff-very stiff, 10YR5/4, low plasticity, dry, occasional sand grains	
18		0/0		98			
20							

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

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

** AMSL= Above mean sea level*

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Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
22		0/0		98			
24		0/0		93		***Sandy, clayey, silt (ML)*** stiff-very stiff, 10YR6/4, low plasticity, dry	
26							
28		0/0		89		***Sandy, clayey silt (ML)*** stiff-very stiff, 10YR5/4, low plasticity, dry	
30							
32		0/0		96		***Sandy, clayey silt (ML)*** med stiff-stiff, 10YR6/4, low plasticity, dry, increasing sand content with depth	
34							
36		0/0		93		***Silty sand (SM)*** loose-med dense, 10YR6/4, mostly fine grains with some gravel sized grains, sub angular grains, increasing silt content with depth	
38							
40							

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Depth	Sample Interval	PID/OVM (ppm)	Blow Count	% Recovery	Lithology	Description	Well Construction
42		0/1		98		***Sand (SW)*** loose, 10YR6/4, fine-medium grained, well sorted, sub angular grains	hydrated bentonite
						Sandy silt (ML) med stiff-stiff, 10YR5/4, low plasticity	
						Sand (SW) loose, 10YR6/4, well sorted, fine-medium grained, some silt seams near bottom of section	sand filter pack
44							
46		0/0		74			
48						***Clay (CH)*** stiff, 10YR5/2, medium palsticity	
50		24/30		96		***Sand seam (SW)***	
						Clay (CH) very stiff, medium plasticity, gravel pieces at bottom of section	
52						***Sandy, silty clay (CH)*** soft-medium stiff, 10YR4/2, high plasticity, small gravel seam near top of section	
54		799/550		65		***Clayey, silty, gravelly, sand (SP)*** loose, 10YR5/2, poorly sorted, wet, angular-sub angular grains, fine-coarse grains	
56		2/6	4	100		***Sandy, silty, clay (CH)*** soft, 10YR5/2, high plasticity, some sand pebble inclusions	15' 0.010 " slotted PVC pipe
58		3/9	18	100		***Clay (CH/CL)*** very stiff, 1oYR4/6, low-medium plasticity, occasional pebble inclusion	
60							

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