

**WATER WELL PLUGGING RECORD Form WWC-5P**

KSA 82a-1212

ID NO.  

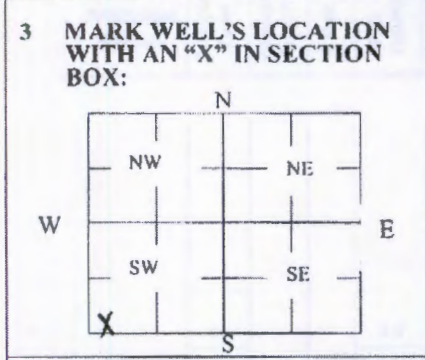
<b>1 LOCATION OF WATER WELL:</b> County: Wyandotte	Fraction $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$	Section Number <b>18</b>	Township Number T 11 S	Range Number 25 <input type="checkbox"/> E <input type="checkbox"/> W
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Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here  Argentine Rail yard; Kansas City, KS

**Global Positioning Systems (GPS) information:**  
 Latitude: 39.08916 (in decimal degrees)  
 Longitude: -94.69111 (in decimal degrees)  
 Elevation: \_\_\_\_\_  
 Horizontal Datum:  WGS84,  NAD83,  NAD27  
 Collection Method: \_\_\_\_\_

**2 WATER WELL OWNER: BNSF Railway**  
 RR#, St. Address, Box #: 4515 Kansas Ave.  
 City, State ZIP Code: Kansas City, KS 66106

GPS unit (Make/Model: Garmin etrek)  
 Digital Map/Photo,  Topographic Map,  Land Survey  
 Est. Accuracy:  < 3 m,  3-5 m,  5-15 m,  > 15 m



**4 DEPTH OF WELL** 39.5 ft.  
 WELL'S STATIC WATER LEVEL \_\_\_\_\_ ft. **MW 13-1**  
 WELL WAS USED AS:  
 Domestic  Public Water Supply  Dewatering  
 Irrigation  Oil Field Water Supply  Monitoring  
 Feedlot  Domestic (Lawn & Garden)  Injection Well  
 Industrial  Air Conditioning  Other \_\_\_\_\_  
 Was a chemical/bacteriological sample submitted to Department? Yes  No

**5 TYPE OF BLANK CASING USED:**

Steel  RMP (SR)  Wrought  Fiberglass  Other (Specify below)  
 PVC  ABS  Asbestos-Cement  Concrete Tile

Blank casing diameter 2 in. Was casing pulled? Yes  No  If yes, how much all  
 Casing height above or below land surface 0 in.

**6 GROUT PLUG MATERIAL:**  Neat cement  Cement grout  Bentonite  Other Top Soil

Grout Plug Intervals: From 0 ft. to 3 ft., From 3 ft. to 39.5 ft., From — ft. to — ft.

What is the nearest source of possible contamination:  
 Septic tank  Seepage pit  Fuel storage  Other (specify below)  
 Sewer lines  Pit privy  Fertilizer storage  
 Watertight sewer lines  Sewage lagoon  Insecticide storage  
 Lateral lines  Feedyard  Abandoned water well Direction from well? \_\_\_\_\_  
 Cess pool  Livestock pens  Oil well/Gas well How many feet? \_\_\_\_\_

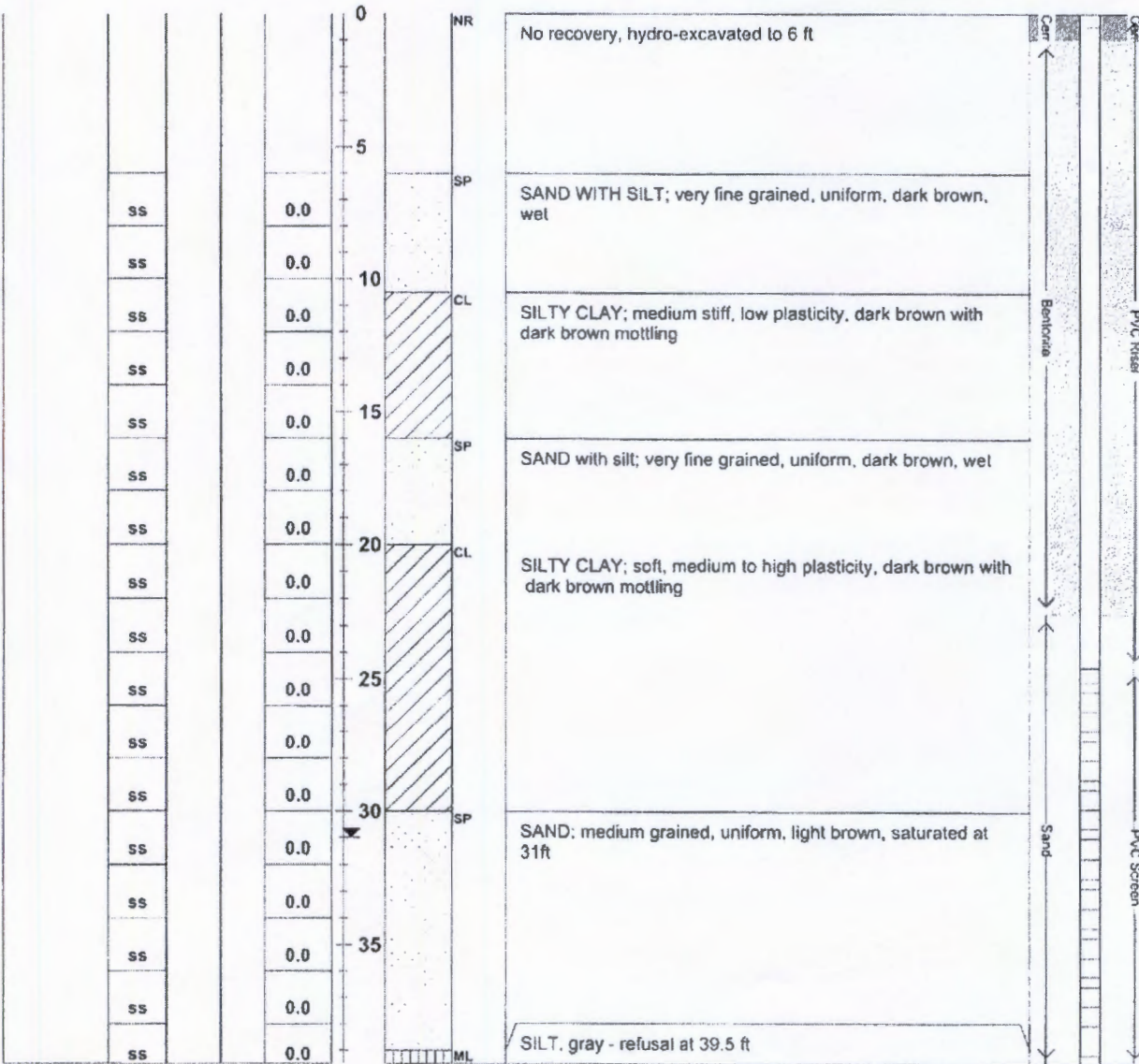
FROM	TO	PLUGGING MATERIALS	FROM	TO	PLUGGING MATERIALS
0	3	<u>Top Soil</u>			
3	39.5	Bentonite			

**7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was plugged under my jurisdiction and was completed on (mo/day/year) 4/11/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710. This Water Well Record was completed on (mo/day/year) 5/5/2017 under the business name of Below Ground Surface, Inc. by (signature) Craig R. Hewitt

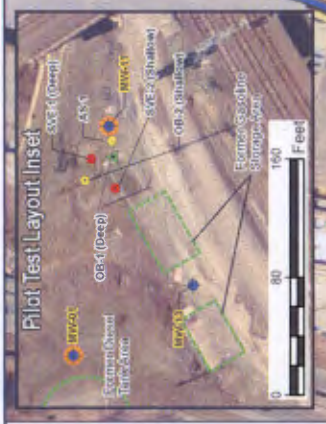
Send one white copy to Kansas Department of Health & Environment, Geology Section, 1000 SW Jackson Street, Ste. 420, Topcka, KS 66612-1367. Send one copy to WATER WELL OWNER and retain one for your records.  
 Visit us at <http://www.kdheks.gov/waterwell/index.html> Telephone 785-296-5524.

Project: Elevator A	Contractor: Thiele Geotech	Location: Elevator A
Project #: 60287448	Operator: Corey	Northing: Easting:
Client: BNSF	Drill Rig Type: CME 75	Surface Elevation (ft AMSL):
Start Date & Time: 10/31/13 - 11:30	Method: Auger	Total Depth (ft): 39.5
Finish Date & Time: 10/31/13 - 17:45	Boring ID: 8.75	Logged By: Tyler Hemry

Sample						Depth (ft.)	Lithology	USCS Symbol	Soil and Rock Description	Well Diagram
Analytical Sample	Sample Type	Blows/6 inch	% Rec	PID (ppm)						



Remarks and Datum Used:	HSA = hollow stem auger
	ss = split spoon sampling devise
AECOM 800 LaSalle Ave Suite 110 Minneapolis, MN 55402	Depth to Water Table (ft): 31



UNION PACIFIC RAILROAD - FORMER ARMSTRONG YARD  
KANSAS CITY, KANSAS

**SVE/IAS Pilot Test Layout**

**ARCADIS**  
for Jacobs & Co. Partnership  
a joint venture

FIGURE  
**3**

**Legend**

- Monitoring Well
- Proposed Shallow SVE Well
- Proposed Deep SVE Well
- Proposed Pilot Test Shallow Observation Well
- Proposed Pilot Test Deep Observation Well
- Proposed Air Sparge Well
- Groundwater Exceeds KDHE Non-Residential Tier 2 RSK Value
- Railroad Overpass
- Buildings
- Source Area
- VCP Project Area
- Groundwater Result Exceeds Applicable KDHE Tier 2 RSK Non-Residential Scenario Groundwater Screening Level
- Light Non-Aqueous Phase Liquid (LNAPL) Detected on At Least One Occasion

**NOTES**

- 1) Results are displayed in micrograms per liter (µg/L).
- 2) NS = Not Sampled
- 3) NA = Not Analyzed
- 4) LNAPL = Light Non-Aqueous Phase Liquid
- 5) TPH = Total Petroleum Hydrocarbons
- 6) KDOE = Kansas Department of Health and Environment
- 7) RSK = Risk-Based Standards for Kansas
- 8) TPH = Total Petroleum Hydrocarbons
- 9) DRG = Diesel Range Organics
- 10) MRH = Mid-Range Hydrocarbons
- 11) HPH = High-Range Hydrocarbons

**SCALE IN FEET**

0 180 360

Date	MW-1	10/8/2013
Benzene	Groundwater Result (µg/L)	5
Naphthalene	Groundwater Result (µg/L)	2.11
TPH DRG	Groundwater Result (µg/L)	720
MRH	Groundwater Result (µg/L)	400
HRH	Groundwater Result (µg/L)	2,500

**KDHE Non-Residential Tier 2 RSK (µg/L)**