

WATER WELL PLUGGING RECORD Form WWC-5P

KSA 82a-1212 ID NO. MW-5R

1 LOCATION OF WATER WELL: County: Reno	Fraction ¼ NE ¼ NW ¼ NW ¼	Section Number 16	Township Number T 23 S	Range Number 5 <input type="checkbox"/> E <input checked="" 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 <input type="checkbox"/> BNSF Railroad Yard just east of Kirby Street and Avenue B; Hutchinson, KS	Global Positioning Systems (GPS) information: Latitude: <u>38.050621</u> (in decimal degrees) Longitude: <u>-97.873098</u> (in decimal degrees) Elevation: <u>1535</u> Horizontal Datum: <input type="checkbox"/> WGS84, <input type="checkbox"/> NAD83, <input type="checkbox"/> NAD27 Collection Method:
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2 WATER WELL OWNER: BNSF Railway RR#, St. Address, Box #: 4515 Kansas Ave. City, State ZIP Code: Kansas City KS 66106	<input type="checkbox"/> GPS unit (Make/Model: <u>Garmin etrek</u>) <input type="checkbox"/> Digital Map/Photo, <input type="checkbox"/> Topographic Map, <input type="checkbox"/> Land Survey Est. Accuracy: <input type="checkbox"/> < 3 m, <input checked="" type="checkbox"/> 3-5 m, <input type="checkbox"/> 5-15 m, <input type="checkbox"/> > 15 m
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3 MARK WELL'S LOCATION WITH AN "X" IN SECTION BOX: 	4 DEPTH OF WELL <u>17.5</u> ft. WELL'S STATIC WATER LEVEL _____ ft. WELL WAS USED AS: <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Domestic</td> <td><input type="checkbox"/> Public Water Supply</td> <td><input checked="" type="checkbox"/> Dewatering</td> </tr> <tr> <td><input type="checkbox"/> Irrigation</td> <td><input type="checkbox"/> Oil Field Water Supply</td> <td><input type="checkbox"/> Monitoring</td> </tr> <tr> <td><input type="checkbox"/> Feedlot</td> <td><input type="checkbox"/> Domestic (Lawn & Garden)</td> <td><input type="checkbox"/> Injection Well</td> </tr> <tr> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Air Conditioning</td> <td><input type="checkbox"/> Other _____</td> </tr> </table> Was a chemical/bacteriological sample submitted to Department? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> Domestic	<input type="checkbox"/> Public Water Supply	<input checked="" type="checkbox"/> Dewatering	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Oil Field Water Supply	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Feedlot	<input type="checkbox"/> Domestic (Lawn & Garden)	<input type="checkbox"/> Injection Well	<input type="checkbox"/> Industrial	<input type="checkbox"/> Air Conditioning	<input type="checkbox"/> Other _____
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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 30 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 17.5 ft., From — ft. to — ft.

What is the nearest source of possible contamination:

<input type="checkbox"/> Septic tank	<input type="checkbox"/> Seepage pit	<input type="checkbox"/> Fuel storage	<input type="checkbox"/> Other (specify below)
<input type="checkbox"/> Sewer lines	<input type="checkbox"/> Pit privy	<input type="checkbox"/> Fertilizer storage	
<input type="checkbox"/> Watertight sewer lines	<input type="checkbox"/> Sewage lagoon	<input type="checkbox"/> Insecticide storage	
<input type="checkbox"/> Lateral lines	<input type="checkbox"/> Feedyard	<input type="checkbox"/> Abandoned water well	Direction from well? _____
<input type="checkbox"/> Cess pool	<input type="checkbox"/> Livestock pens	<input type="checkbox"/> Oil well/Gas well	How many feet? _____

FROM	TO	PLUGGING MATERIALS	FROM	TO	PLUGGING MATERIALS
0	3	Top Soil			
3	17.5	Bentonite			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was plugged under my jurisdiction and was completed on (mo/day/year) 8-31-2016 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) 9-01-16 under the business name of Below Ground Surface, Inc. by (signature) _____

Send one white copy to Kansas Department of Health & Environment, Geology Section, 1000 SW Jackson Street, Ste. 420, Topeka, 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.

Boring & Well Construction Log

Kennedy/Jenks Consultants

BORING LOCATION BNSF Hutchinson Yard		Well Name MW-5R	
DRILLING COMPANY Below Ground Surface, Inc.		DRILLER Doug Freund	
DRILLING METHOD(S) Geoprobe/Auger		DRILL BIT(S) SIZE 9" Auger Bit	
ISOLATION CASING n/a		FROM n/a TO n/a FT.	
BLANK CASING 2" OD Sch-40 PVC		FROM 0 TO 7.4 FT.	
SLOTTED CASING 2" OD Sch-40 PVC (0.010-inch slot size)		FROM 7.4 TO 17.4 FT.	
SIZE AND TYPE OF FILTER PACK 12/20 gradation filter sand		FROM 5.4 TO 17.4 FT.	
SEAL Hydrated bentonite chips		FROM .33 TO 5.4 FT.	
GROUT Concrete		FROM 0 TO .33 FT.	
ELEVATION AND DATUM GS 1518.81 ft. (NAVD 88)		TOTAL DEPTH 17.5 ft. bgs	
DATE STARTED 4/27/11		DATE COMPLETED 4/27/11	
STATIC WATER ELEVATION 1506.03 ft. (NAVD 88)		NORTH 1816869.400	
LOGGED BY J. WestHoff		EAST 1492830.160	
SAMPLING METHODS Geoprobe/ Acetate Liner		WELL COMPLETION <input type="checkbox"/> SURFACE HOUSING <input checked="" type="checkbox"/> STAND PIPE 2.63 FT.	

SAMPLES			Drill Depth (Feet)	WELL CONSTRUCTION		USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/2'		Stand pipe	Well cap				
	4.5								SANDY SILTY CLAY (FILL) TANNISH BROWN-BLACK, FIRM, MOIST, NO ODOR, THIS FILL WAS LIKELY PLACED DURING SOIL EXCAVATION ACTIVITIES.
	3					FILL	tannish brown black		
	4					SM	gray		SILTY WITH CLAY SAND (SM) GRAY, DENSE, SOFT, WET TO SATURATED @ 13 FT, PETRO-LIKE ODOR, NO SHEEN

ABOVE GROUND HUTCH-2011.GPJ, KENNEDY, JENKS, GDT, 7/15/11

MW-5R
-12.5
@ 1100
OA-1,
OA-2,
Naph.

4/28/2011
Drilling

- NOTES**
1. WELL SEALED WITH AN EXPANDABLE, LOCKING CAP AND PAD LOCK
 2. ALL CONTACTS APPROXIMATE.
 3. BGS: BELOW GROUND SURFACE

Project Name BNSF Hutchinson FFF Project Number 1149052.00 Well Name MW-5R

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Type & No.	Recovery (Feet)	Penetr. Resist. Blows/2'	Drill Depth (Feet)	USCS Log	Lithology	Color			

4. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93.
5. THE TOP OF CASING ELEVATION IS 1521.44 FT (NAVD 88).
6. THE NORTHING AND EASTING DATA IS IN KANSAS STATE PLANAR COORDINATES.
7. SOIL SAMPLES WERE COLLECTED VIA DIRECT PUSH METHODS, AND THE MONITORING WELL INSTALLED VIA HOLLOW STEM AUGER.

ABOVE GROUND HUTCH-2011.GPJ KENNEDY JENKS.GDT 7/15/11



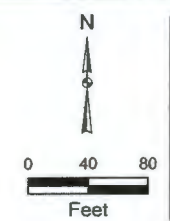
Document Path: T:\Clear Data\BNSF\Kansas\Hutchinson\FF\Hutchinson\RA\Final Site Boundary.mxd

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Geomatics, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

Site Boundary	Approximate Former Tracks
Monitoring Well	Approximate FFF Footprint
MOW Building	Approximate Former AST
Approximate Excavation Areas	
Approximate Fence Line and Property Boundary	

- Notes**
1. All locations are approximate.
 2. Site features are based on Google Earth and Site Maps provided by EMR, Inc.
 3. Monitoring well locations were surveyed on 28 April 2011 by Alpha Land Surveys, Inc.
 4. Historic site features are based on historic aerial photos provided by the Kansas Data Access and Support Center and site maps provided by EMR, Inc.
 5. The location of the excavation area is estimated.



Kennedy/Jenks Consultants
 BNSF Railway Company
 Hutchinson Former Fueling Facility
 Hutchinson, Kansas

Site Boundary Map

1549052.00
 July 2016