

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

**KSA 82a-1212 ID NO.**

**MW 6**

<b>1 LOCATION OF WATER WELL:</b> 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  BNSF Railroad Yard just east of Kirby Street and Avenue B; Hutchinson, KS

**Global Positioning Systems (GPS) information:**  
 Latitude: 38.050511 (in decimal degrees)  
 Longitude: -97.873018 (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

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

	N	
NW	X	NE
SW		SE
W	S	E

**4 DEPTH OF WELL** 15.2 ft.  
 WELL'S STATIC WATER LEVEL \_\_\_\_\_ ft  
 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 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 15.2 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	15.2	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) [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 <b>BNSF Hutchinson Yard</b>		Well Name <b>MW-6</b>	
DRILLING COMPANY <b>Below Ground Surface, Inc.</b>		DRILLER <b>Doug Freund</b>	
DRILLING METHOD(S) <b>Geoprobe/Auger</b>		Project Name <b>BNSF Hutchinson FFF</b>	
ISOLATION CASING <b>n/a</b>		Project Number <b>1149052.00</b>	
BLANK CASING <b>2" OD Sch-40 PVC</b>		FROM <b>0</b>	TO <b>5</b>
SLOTTED CASING <b>2" OD Sch-40 PVC (0.010-inch slot size)</b>		FROM <b>5</b>	TO <b>15</b>
SIZE AND TYPE OF FILTER PACK <b>12/20 gradation filter sand</b>		FROM <b>3</b>	TO <b>15</b>
SEAL <b>Hydrated bentonite chips</b>		FROM <b>.33</b>	TO <b>3</b>
GROUT <b>Concrete</b>		FROM <b>0</b>	TO <b>.33</b>
		ELEVATION AND DATUM <b>GS 1518.50 ft. (NAVD 88)</b>	TOTAL DEPTH <b>15.2 ft. bgs</b>
		DATE STARTED <b>4/27/11</b>	DATE COMPLETED <b>4/27/11</b>
		STATIC WATER ELEVATION <b>1505.94 ft. (NAVD 88)</b>	NORTH <b>1816829.990</b>
		LOGGED BY <b>J. WestHoff</b>	EAST <b>1492876.980</b>
		SAMPLING METHODS <b>Geoprobe/ Acetate Liner</b>	WELL COMPLETION <input type="checkbox"/> SURFACE HOUSING <input checked="" type="checkbox"/> STAND PIPE <b>2.47</b> FT.

SAMPLES			WELL CONSTRUCTION			USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/2'	Drill Depth (Feet)	Stand pipe	Well cap				
	3					FILL			ASPHALT FILL, GRAVEL <b>SAND (FI)</b>
						SW			POORLY SORTED ( <b>SW</b> ) TAN, MEDIUM GRAIN, LOOSE, MOIST
			5			SM			SILTY <b>SAND (SM)</b> TAN, FINE GRAIN, DENSE, MOIST
MW-6-7 @ 1205 DA-1, CA-2 Naph.	3.5					SP			WELL SORTED <b>SAND (SP)</b> TAN, FINE TO MEDIUM GRAIN, MOIST
			10			CL			SILTY SANDY <b>CLAY (CL)</b> TAN, VERY SOFT, MOIST
	2			4/28/2011		SP			<b>SAND (SP)</b> TAN, SATURATED, IRON STAINING
MW-6-13 @ 1215 DA-1, CA-2 Naph.				Drilling		SM			SILTY <b>SAND (SM)</b> DARK TAN, SOFT, SATURATED
			15						

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

- NOTES**
1. WELL SEALED WITH AN EXPANDABLE, LOCKING CAP AND PAD LOCK
  2. ALL CONTACTS APPROXIMATE.
  3. BGS: BELOW GROUND SURFACE
  4. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93.
  5. THE TOP OF CASING ELEVATION IS 1520.98 FT (NAVD 88).
  6. THE NORTHING AND EASTING DATA IS IN KANSAS

Project Name BNSF Hutchinson FFF Project Number 1149052.00 Well Name MW-6

SAMPLES		WELL CONSTRUCTION			USCS Log			Lithology			Color			SAMPLE DESCRIPTION and DRILLING REMARKS		
Type & No.	Recovery (Feet)	Penetr. Resist. Blows/2'	Drill Depth (Feet)													

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



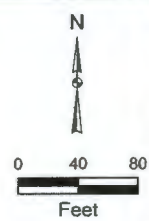
Document Path: T:\Clear Data\BNSF\Kansas\Hutchinson\FF\HutchinsonRAIF\Map\_Site\_Boundary.mxd

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