

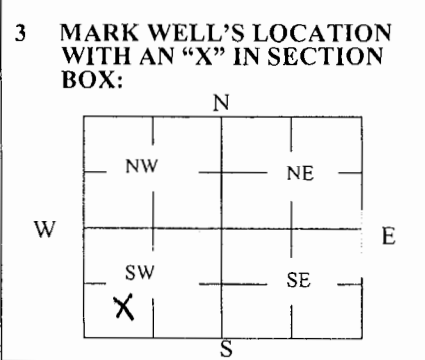
<b>1 LOCATION OF WATER WELL:</b> County: Miami	Fraction ¼ SW ¼ SW ¼ SW ¼	Section Number 11	Township Number T 18 S	Range Number 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W
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Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here  ≈ 550 Feet west of Chestnut Ave. & 6<sup>th</sup> St.

**Global Positioning Systems (GPS) information:**  
 Latitude: 38.493394 (in decimal degrees)  
 Longitude: -94.951838 (in decimal degrees)  
 Elevation: \_\_\_\_\_  
 Horizontal Datum:  WGS84,  NAD83,  NAD27  
 Collection Method: \_\_\_\_\_

**2 WATER WELL OWNER:** Union Pacific Railroad  
 RR#, St. Address, Box #: 1400 Douglas Street  
 City, State ZIP Code: Omaha, NE 68179

GPS unit (Make/Model: Garmin etrek 10)  
 Digital Map/Photo,  Topographic Map,  Land Survey  
 Est. Accuracy:  < 3 m,  3-5 m,  5-15 m,  > 15 m



**4 DEPTH OF WELL** 12 ft.

WELL'S STATIC WATER LEVEL \_\_\_\_\_ ft

WELL WAS USED AS:

<input type="checkbox"/> Domestic	<input type="checkbox"/> Public Water Supply	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Oil Field Water Supply	<input checked="" type="checkbox"/> Monitoring <span style="float: right;">MW-4</span>
<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 _____

Was a chemical/bacteriological sample submitted to Department? Yes  No

**5 TYPE OF BLANK CASING USED:**

<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> RMP (SR)	<input type="checkbox"/> Wrought	<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Other (Specify below) _____
<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> ABS	<input type="checkbox"/> Asbestos-Cement	<input type="checkbox"/> 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 12 ft., From — ft. to — ft.

What is the nearest source of possible contamination:

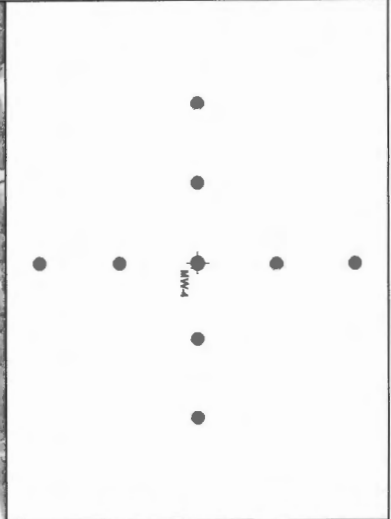
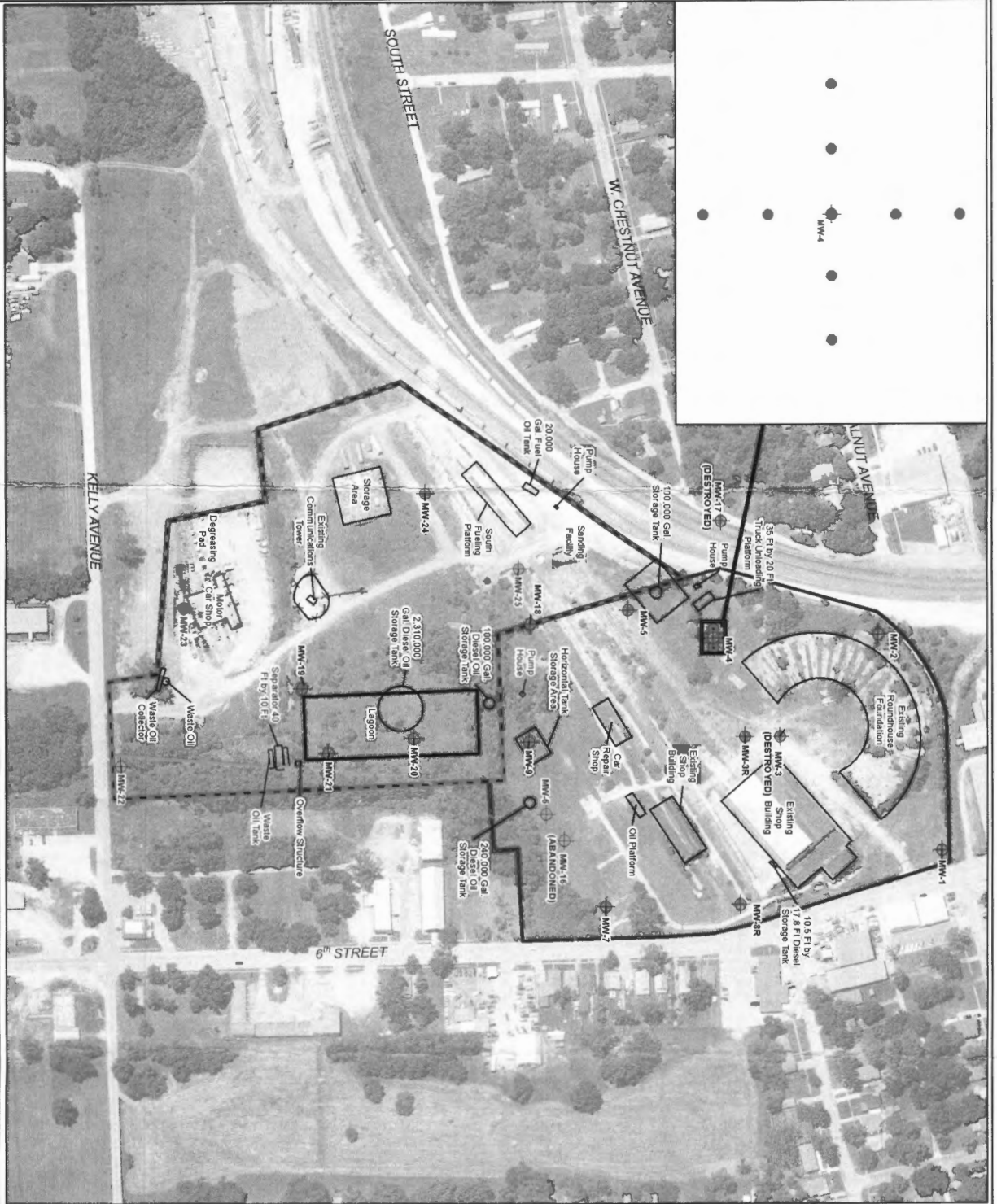
<input type="checkbox"/> Septic tank	<input type="checkbox"/> Seepage pit	<input type="checkbox"/> Fuel storage	<input checked="" type="checkbox"/> Other (specify below)
<input type="checkbox"/> Sewer lines	<input type="checkbox"/> Pit privy	<input type="checkbox"/> Fertilizer storage	<u>Railroad yard</u>
<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? <u>west</u>
<input type="checkbox"/> Cess pool	<input type="checkbox"/> Livestock pens	<input type="checkbox"/> Oil well/Gas well	How many feet? <u>&lt;100 feet</u>

FROM	TO	PLUGGING MATERIALS	FROM	TO	PLUGGING MATERIALS
0	3	Top Soil			
3	12	Bentonite			

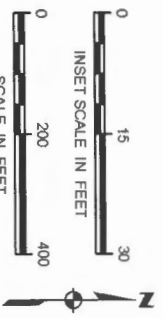
**7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was plugged under my jurisdiction and was completed on (mo/day/year) 07/30/2018 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710. This Water Well Record was completed on (mo/day/year) 07/31/2018 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, 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.

QTY (EN-TECH) DIV (GROUP) (ENV) (S) DE (LDR) (LD) PIC (FM) TM  
PROJECT: PATH 2 IGS Projects\_ENV\Union\_Pacific\Former\_FuelingFac\MW\DW\2017F-1\_Proposed Borings at MW-4.mxd



- LEGEND:**
- ◆ MONITORING WELL
  - PROPOSED STEP-OUT DIRECT-PUSH BORING (10-15 FOOT INTERVAL)
  - DRAINAGE DITCH
  - DRAINAGE DITCH FLOW DIRECTION
  - - - INTERMITTENT SECTION OF DRAINAGE DITCH
  - FENCE
  - SITE FEATURES
  - FORMER MP YARD VOLUNTARY CLEANUP PROGRAM BOUNDARY
  - FORMER FUELING FACILITY AND SHOP VOLUNTARY CLEANUP PROGRAM BOUNDARY



FORMER MP YARD FUELING FACILITY AND SHOP  
OSAWATOMIE, KANSAS

**WORK PLAN FOR DIRECT-PUSH INVESTIGATION  
IN VICINITY OF MW-4**



ARCADIS  
Environmental & Civil  
Engineering & Construction  
1000 West 10th Street  
Topeka, Kansas 66604