

WATER WELL RECORD MW-2

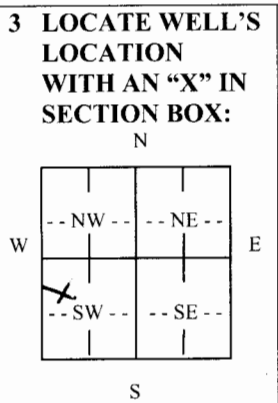
Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: Atchison Fraction: 1/4 NE 1/4 SW 1/4 Section Number: 2 Township Number: T 6 S Range Number: R 20 E/W

Distance and direction from nearest town or city street address of well if located within city? Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: N 39.5542 Longitude: W 95.1545

2 WATER WELL OWNER: KOHE - VCF (Site Owner Gray Moxley) RR#, St. Address, Box #: US Highway 59 City, State, ZIP Code: Atchison, KS Elevation: Datum: Data Collection Method: Garmin GPS



3 LOCATE WELL'S LOCATION WITH AN 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 18.66 ft. 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

5 TYPE OF CASING USED: 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) 2 PVC 4 ABS 7 Fiberglass 8 Concrete tile CASING JOINTS: Glued..... Clamped..... Welded..... Threaded.....

Blank casing diameter..... in. to 8.660 ft., Diameter..... in. to..... ft., Diameter..... in. to..... ft. Casing height above land surface..... in., Weight.....lbs./ft. Wall thickness or gauge No.

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass 7 PVC 9 ABS 11 Other (Specify)..... 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw cut 10 Other (specify).....

SCREEN-PERFORATED INTERVALS: From 8.660 ft. to 18.660 ft., From..... ft. to..... ft. From..... ft. to..... ft., From..... ft. to..... ft.

GRAVEL PACK INTERVALS: From 6 ft. to 18.660 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 2 ft. to 6 ft., From..... ft. to..... ft., From..... ft. to..... ft., From..... ft. to..... ft.

What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide storage 16 Other (specify) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well below 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 15 Oil well/gas well

Direction from well?..... How many feet?.....

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, PLUGGING INTERVALS. Includes handwritten note 'See attached'.

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) 2-11-08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 416 This Water Well Record was completed on (mo/day/year) 4-2-08 under the business name of Terracon, 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. Visit us at http://www.kdheks.gov/waterwell/index.html.

AS per 1/12

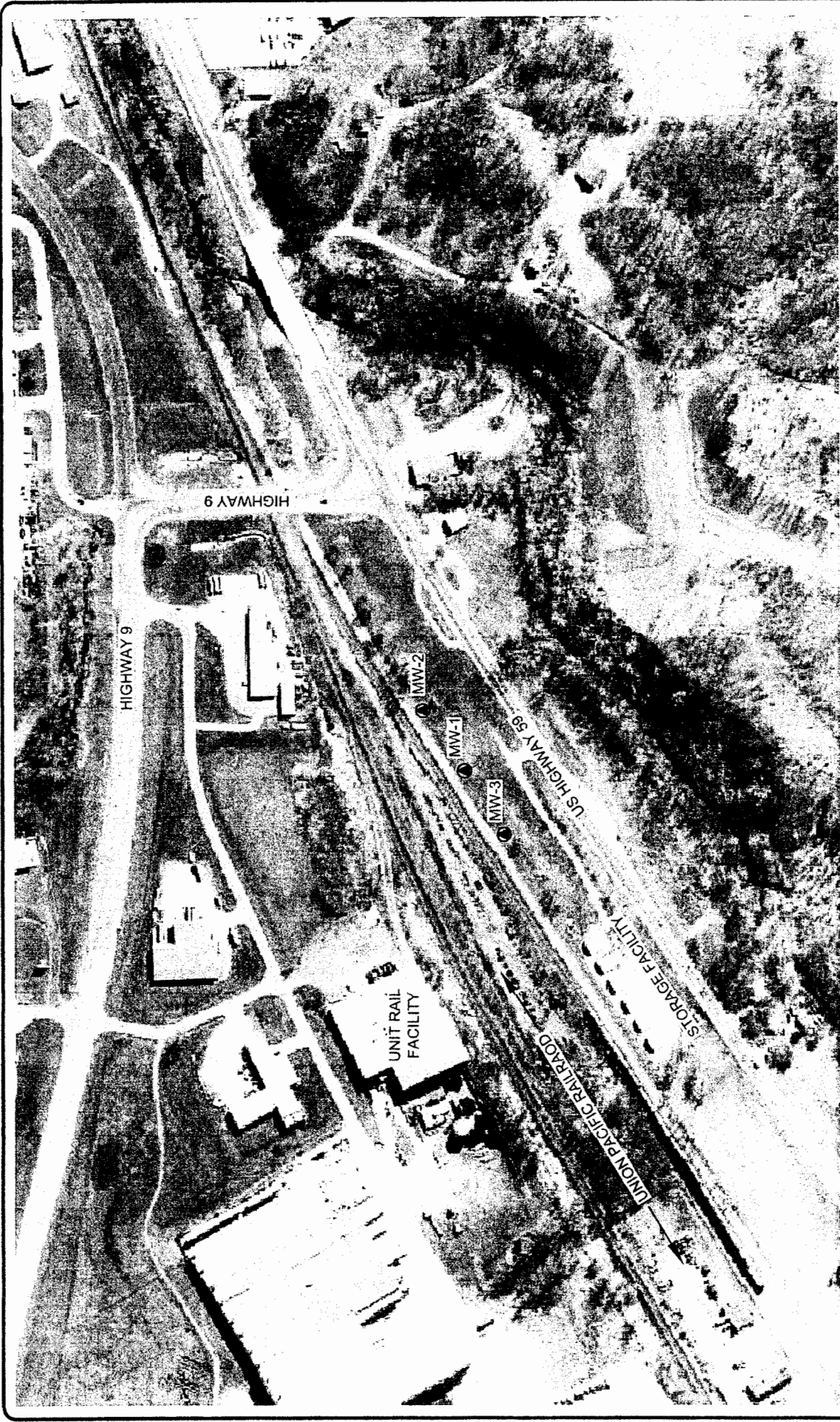


FIGURE 2 - MONITORING WELL LOCATION MAP UNIT RAIL ANCHOR MONITORING WELL INSTALLATION US HIGHWAY 59 ATCHISON, KANSAS		Scale: NOT TO SCALE Date: 12/21/07 Project No. 02077137 File Name: FIGURE 2.DWG Figure No. 2
Project Mgr:	BMC	Terracon 13910 W. 96th Terrace Lenexa, Kansas 66215 Phone: (913) 492-7777 Fax: (913) 492-7443
Designed By:	BMC	
Checked By:	BMC	
Approved By:	BMC	
Drawn By:	RAS	



Garvin Handheld GPS

MW-1 N 39.5539°
 W 95.1553°
 MW-2 N 39.5542°
 W 95.1545°
 MW-3 N 39.2081°

LEGEND

● PROPOSED MONITORING WELL LOCATION

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

**MONITORING WELL
DOCUMENTATION**

Terracon

No: MW2

PROJECT NAME: Unit Rail Anchorage Site INSTALLATION DATE: 2/14/08
 PROJECT LOCATION: Atchison PROJECT NO. 02077137

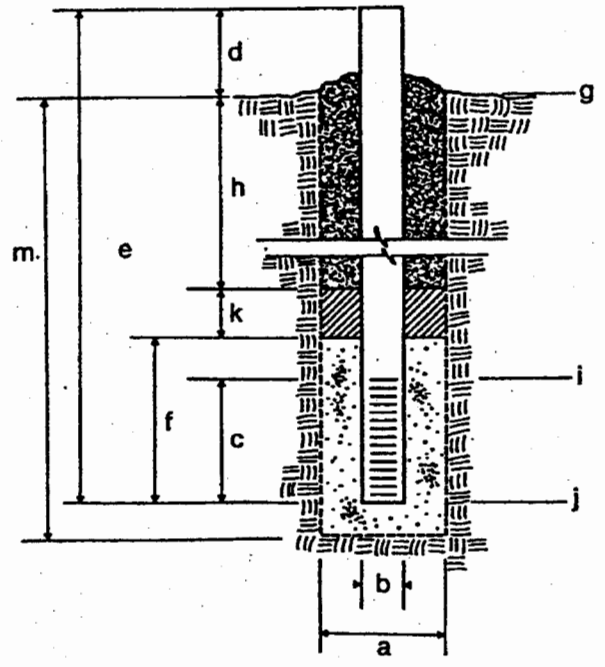
CONSTRUCTION DETAILS:

Boring Diameter (a) ~6 inches
 Casing Diameter (b) 2 inches I.D.
 Casing Material PVC
 Screening length (c) 10 Screen Opening _____ inches
 From Elevation (i) _____ to (j) _____
 Ground Surface Elevation at Well (g) _____
 Height of Well Head Above Ground (d) N/A
 Depth of Well from Top of Pipe (e) ~18.66 ft
 Depth of Boring (m) ~18.66 to 19 ft

Backfill:

Type	Depth
<u>sand</u> (f)	<u>6 - 18.64</u>
<u>benonity</u> (k)	<u>2 - 26</u>
<u>open</u> (h)	<u>0 - 2</u>

Type of Well Cap _____
 Protector Pipe _____ Lock type and number _____



Remarks: see field notes for job remarks

LOG OF WELL NO. MW-2

CLIENT KDHE							
SITE Atchison, Kansas		PROJECT Unit Rail Anchor Monitoring Well Installation					
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	SAMPLES			TESTS	
			NUMBER	TYPE*		FIELD VAPOR TEST (PPM)	SOIL SAMPLE SENT TO LABORATORY
3	<u>SILTY CLAY</u> , dark brown, moist						
4	<u>SILTY CLAY</u> , brown, moist,						
5	<u>SILTY CLAY</u> , dark brown, very moist,						
12	<u>SILTY CLAY</u> , brown, saturated						
16	<u>SILTY SAND</u> , fine grained, brown, saturated						
17.5	<u>BOTTOM OF BORING</u>						

DRAFT

2.87 BGS

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

* CS : Continuous Sample
HA : Hand Auger

WATER LEVEL OBSERVATIONS, ft

WL	▽	▽	
WL	▽	▽	
WL			



WELL STARTED	2-11-08
WELL COMPLETED	2-11-08
RIG	FOREMAN
APPROVED ADE	JOB # 02077137

BOREHOLE 02077137.GPJ TERRACON.GDT 3/13/08