

WATER WELL RECORD MW-3

Form WWC-5

Division of Water Resources; App. No.

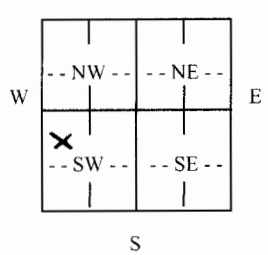
1 LOCATION OF WATER WELL: County: Atchison Fraction 1/4 NE 1/4 SW 1/4 Section Number 2 Township Number T 6 S Range Number R 20 W

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° 33.208' Longitude: W 95° 9.322' Elevation: Datum: Data Collection Method: Garmin Nuvi

2 WATER WELL OWNER: KDHE-VCP (Site owner Gary Mackley) RR#, St. Address, Box #: US Highway 59 City, State, ZIP Code: Atchison, KS

Elevation: Datum: Data Collection Method: Garmin Nuvi

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: N



4 DEPTH OF COMPLETED WELL: 18 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 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well Was a chemical/bacteriological sample submitted to Department? Yes..... No X: If yes, mo/day/yr Sample was submitted..... N/A..... Water well disinfected? Yes..... No X

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

Blank casing diameter 2 in. to 8 ft., Diameter. in. to ft., Diameter in. to ft. Casing height above land surface..... 0 in., Weightlbs./ft. Wall thickness or guage No. Sch 40

TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass 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 ft. to 18 ft., From ft. to ft. GRAVEL PACK INTERVALS: From 5.5 ft. to 18 ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other Grout Intervals: From 1 ft. to 5.5 ft., From 0 ft. to 1 ft., From ft. to ft. What is the nearest source of possible contamination: Concrete

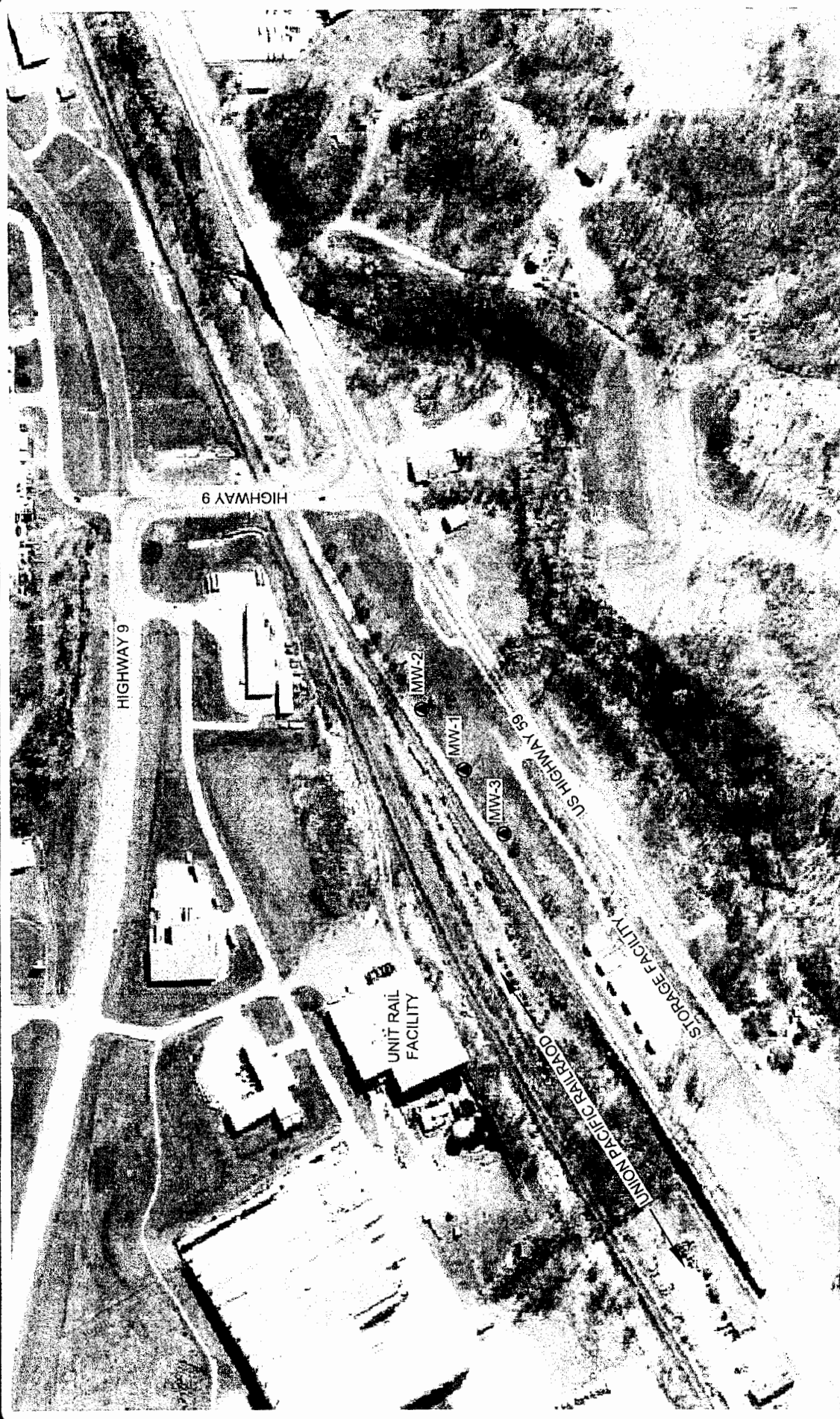
1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide storage 16 Other (specify below) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well below 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 15 Oil well/gas well Direction from well? How many feet?

Table with columns FROM, TO, LITHOLOGIC LOG, FROM, TO, PLUGGING INTERVALS. Contains 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) 3-14-08 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 759 This Water Well Record was completed on (mo/day/year) 3-16-08 under the business name of BAZEK Environmental, LLC by (signature) Andrew J. Buzek

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.

2100001120



Project Mgr:	BMC	Scale:	NOT TO SCALE
Designed By:	BMC	Date:	12/21/07
Checked By:	BMC	Project No:	02077137
Approved By:	BMC	File Name:	FIGURE 2.DWG
Drawn By:	RAS	Figure No:	2

FIGURE 2 - MONITORING WELL LOCATION MAP
UNIT RAIL ANCHOR MONITORING WELL INSTALLATION
 US HIGHWAY 59
 ATCHISON, KANSAS

Terracon
 13910 W. 96th Terrace
 Lenexa, Kansas 66215
 Phone: (913) 492-7777
 Fax: (913) 492-7443



Begin Handheld GPS

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

LEGEND
 ● PROPOSED MONITORING WELL LOCATION

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

**MONITORING WELL
DOCUMENTATION**

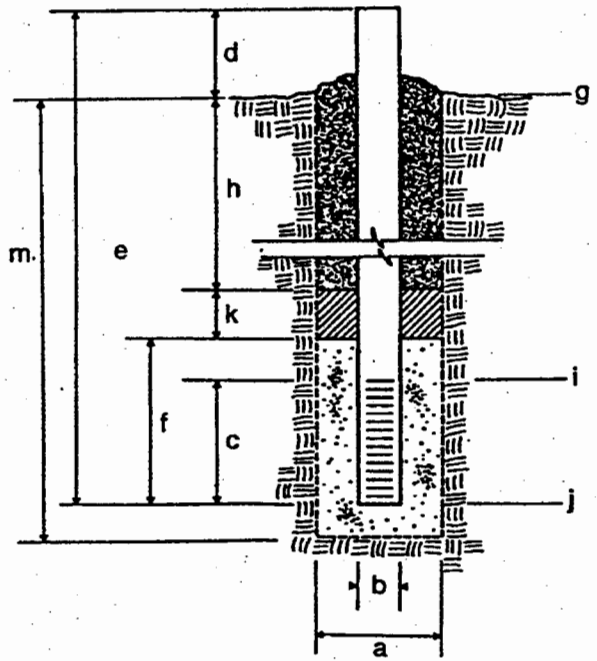
Terracon

No: MW-3

PROJECT NAME: Unit Road INSTALLATION DATE: 3/14/08
 PROJECT LOCATION: Atchison, KS PROJECT NO. _____

CONSTRUCTION DETAILS:

Boring Diameter (a) 8" inches
 Casing Diameter (b) 2" inches I.D.
 Casing Material PVC
 Screening length (c) 10' Screen Opening _____ inches
 From Elevation (i) 8 to (j) 18
 Ground Surface Elevation at Well (g) _____
 Height of Well Head Above Ground (d) Flush with
 Depth of Well from Top of Pipe (e) 18'
 Depth of Boring (m) 18'



Backfill:

Type	Depth
<u>Sand</u> (f)	<u>6-18</u>
<u>Bentonite</u> (k)	<u>1-6</u>
<u>Concrete</u> (h)	<u>0-1</u>

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

Remarks:
Installed sand & bentonite through hollow stem auger
used bags of sand & bags of Bentonite

LOG OF WELL NO. MW-3

CLIENT **KDHE**

SITE **Atchison, Kansas** PROJECT **Unit Rail Anchor Monitoring Well Installation**

GRAPHIC LOG	DESCRIPTION	WELL DETAIL	SAMPLES				TESTS
			DEPTH, ft.	NUMBER	TYPE*	RECOVERY, %	
1	<u>SILTY CLAY</u> , trace organic matter, brown, moist	in in	5				
6	<u>SILTY CLAY</u> , brown, moist						
12	<u>SILTY CLAY</u> , light brown, wet		10				
18	<u>SILT</u> , trace clay, light brown, wet		15				
BOTTOM OF BORING							

DRAFT

BGS
100'

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

* CS : Continuous Sample
SS : Split Spoon

WATER LEVEL OBSERVATIONS, ft

WL	▽	▽ 1.33
WL	▽	▽
WL	▽	▽



WELL STARTED	3-14-08
WELL COMPLETED	3-14-08
RIG	FOREMAN
APPROVED ADE	JOB # 02077137