

# Tri-County Health Department

Serving Adams, Arapahoe and Douglas Counties

ENVIRONMENTAL HEALTH DIVISION

PERMIT NO. 7-92-139

Hugh Rohrer, M.D., M.P.H.  
Director

PERMIT TO CONSTRUCT AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM.

OWNER: AIKIN

LOCATION: 11060 RANDOM VALLEY CIRCLE LOT 14 RANDOM VALLEY

COMPOSED OF 1000 GALLON SEPTIC TANK AND ABSORPTION AREA OF 1350 SQUARE FEET.

A PERMIT TO CONSTRUCT SHALL EXPIRE ONE YEAR FROM THE DATE OF ISSUANCE UNLESS EXTENDED TO A FIXED DATE UPON REQUEST BY THE APPLICANT AND APPROVAL BY TRI-COUNTY HEALTH DEPARTMENT. A PERMIT TO REMODEL EXPIRES TWO WEEKS FROM THE DATE OF ISSUANCE.

THIS PERMIT EXPIRES ON 6-8-93.

NOTE: Construction requirements and special conditions relative to this permit are presented on the accompanying application. This permit shall not be valid unless a copy of the application is attached to it.

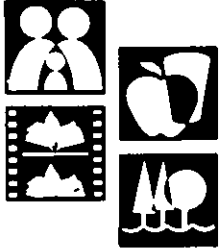
ISSUED BY Gary J. Hartell OF TRI-COUNTY HEALTH DEPARTMENT ON 6/8/92.

OWNER MUST MAKE SURE THAT THIS ENTIRE WASTE DISPOSAL SYSTEM REMAINS OPEN FOR INSPECTION UNTIL IT HAS RECEIVED APPROVAL BY TRI-COUNTY HEALTH DEPARTMENT. TRI-COUNTY HEALTH DEPARTMENT CANNOT ASSUME RESPONSIBILITY IN CASE OF FAILURE OR INADEQUACY OF A WASTE DISPOSAL SYSTEM BEYOND CONSULTING IN GOOD FAITH WITH THE PROPERTY OWNER.

PERMIT FEE OF \$150.00 CHECK #2414

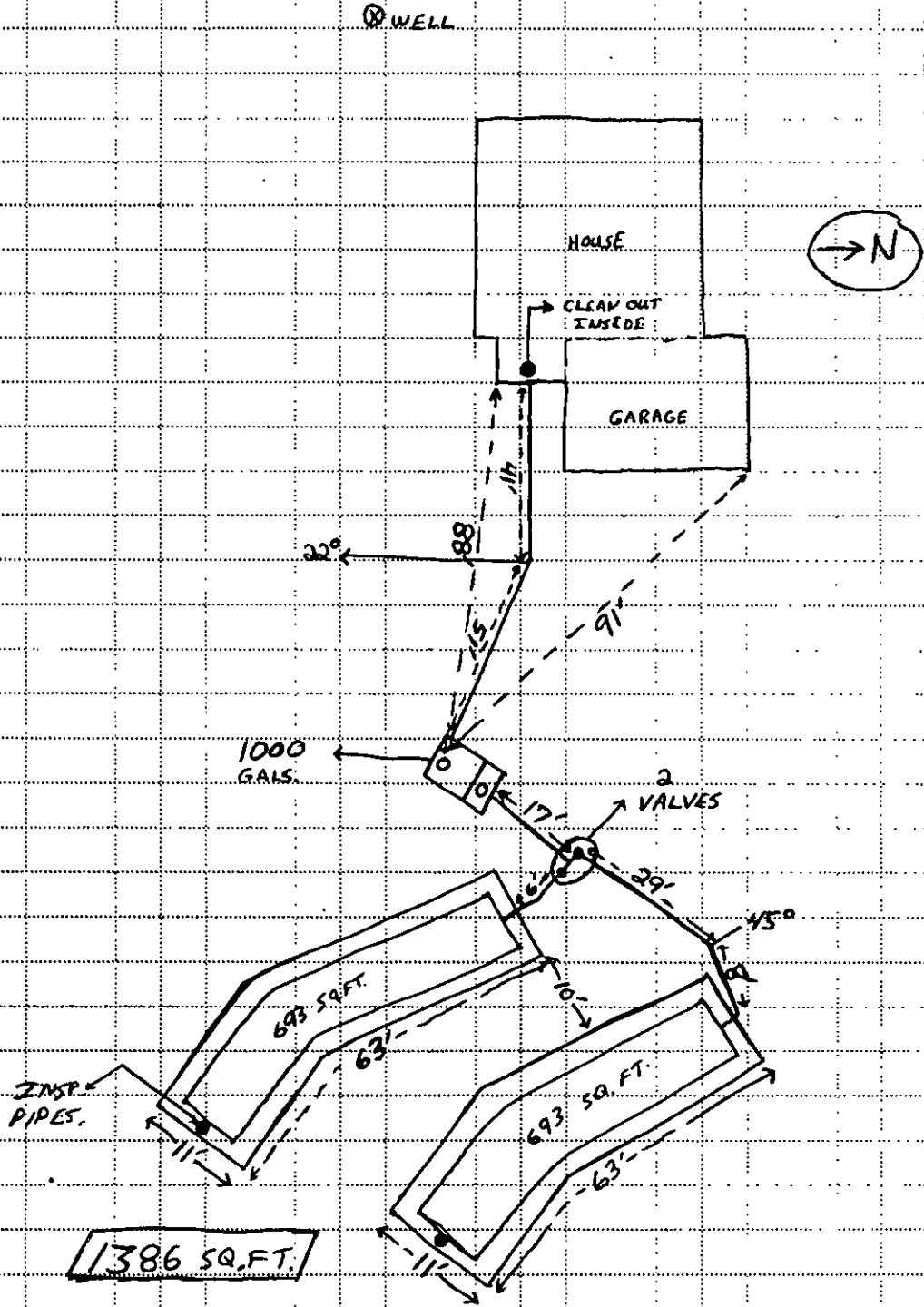
RECEIVED BY L. ANGUS ON 5-27-92

( ) Owner Copy ( ) Bldg. Dept. Copy ( ) Installer Copy ( ) Health Dept. Copy



Onsite System  
As-Built  
Drawing

Property Address 11452 ~~17000~~ RANDOLPH VALLEY CIR.  
Permit # 7-92-139  
Date System Completed SEPT '92'  
Installer's Name JIM PATTERSON CO.  
Installer's License # 040  
Installer's Address and Phone \_\_\_\_\_  
781-1678





# Tri-County Health Department

Serving Adams, Arapahoe and Douglas Counties

File No. 7-92-139

Fiscal Control No. \_\_\_\_\_

## APPLICATION TO INSTALL ( ) REPAIR ( ) EXPAND AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM

### TO BE COMPLETED BY APPLICANT

Please Print Clearly

Application Fee:  
Install (New): \$150.00  
Repair, expand, remodel: \$150.00

Legal Description/Address: 11452 ~~11060~~ RANDOM VALLEY CIR  
 Owner AIKIN Installer JIM PATTERSON Lic. No. \_\_\_\_\_ Year \_\_\_\_\_  
 Address 8667 E. THUNDERBIRD CR Phone 841-4927 Address \_\_\_\_\_ Phone \_\_\_\_\_  
 Applicant TURNER HOMES INC. Design Engineer COLO. SOILS Job No. 90205  
 Address 6425 S. PEADKEY ST Phone 699-0753 Address #5 PHELPS DR. Phone 688-9475  
MOBIKE 324-1506 CASTLE ROCK E.

LOCATION OF PROPOSED FACILITY:  
 County DOUGLAS City or Town (if within City or Town limits) \_\_\_\_\_ Lot size 634' X 378'  
 WASTE TYPE: ( ) Domestic  Non-domestic \_\_\_\_\_  
 SOURCE AND TYPE OF WATER SUPPLY:  Well ( ) Community ( ) Other \_\_\_\_\_  
 If supplied by community water, give name of supplier: \_\_\_\_\_  
 GENERAL INFORMATION: Number of Bedrooms 3 Basement Plumbed? YES

### FOR OFFICE USE ONLY

System designed for \_\_\_\_\_ gallons per day.  
 SOILS DATA:  
 Depth to bedrock >10' Depth to ground water >10' Percent ground slope 490 to NE  
 Percolation Rate: #1 20 #2 20 #3 27 #4 \_\_\_\_\_ #5 \_\_\_\_\_ #6 \_\_\_\_\_  
 AVERAGE PERCOLATION RATE 22  
 Is this system within a municipal sewage district? NO Distance to nearest municipal sewer line >400'  
 TYPE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM PROPOSED TANK & FIELD FINAL DISPOSAL BY LEACHING  
 SYSTEM DESIGN INFORMATION  
 Minimum septic tank 1000 gallons. Minimum absorption area 1350 square feet  
 Maximum depth of absorption area 36 (not to exceed depth of percolation test holes).  
 Filler material size: 1/4 inch to 2 1/4 inch diameter. Minimum depth of filler material below distribution pipe 6 inches. Minimum depth of filler material over pipe 2 inches. Total depth of rock to be 12 inches.

SPECIAL DESIGN \_\_\_\_\_  
 Will design engineer inspect the completed system? \_\_\_\_\_  
 I the undersigned hereby certify that all information and data provided is correct and true to the best of my knowledge. Also, I agree that the construction of this individual sewage disposal system will comply with Tri-County Health Department regulation 188 and all other applicable laws and regulations.

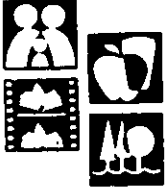
Applicant's Signature [Signature] Date 5-26-92  
 Date system inspected and approved 9/03/92  
 Application Reviewed and Approved [Signature] Date 6/4/92  
 Public Health Sanitarian: [Signature]

- ( ) Commerce City  
4301 E. 72nd Ave.  
Commerce City, CO 80022  
298-6818
- ( ) Aurora  
15400 E. 14th Pl.  
Aurora, CO 80011  
341-8370
- ( ) Castle Rock  
413 Wilcox  
Castle Rock, CO 80104  
686-5145
- ( ) Englewood  
4857 S. Broadway  
Englewood, CO 80110  
781-1340
- ( ) Northglenn  
10190 Bannock, #100  
Northglenn, CO 80221  
462-6547

rec'd ck 2414. De, 5-27-92

6/4/92 Site Visit conducted  
OK to issue permit

9/3/92 System inspected  
and approved to cover  
see attached map



# Tri-County Health Department

## Percolation Test and Soils Data Form

Property address \_\_\_\_\_

Legal description lot 14, Random Valley Sub. - D.C.

Property Owner:

Name JACK & KERRI AIKIN

Address 8667 E. Thunderbird Cir., Parker, Co. 80134

Phone 841-4927

Note:

- Percolation Test Form, Site Plan and Grain Size Distribution Curve of the Sample must be submitted with this form.
- For all Lots <5 acres the site plan must include the entire lot. Test locations must be accurately tied to lot corners or other permanent markers.

### Saturation and Swelling

- Smear surfaces removed:  Yes  No
- Sand or gravel added:  Yes  No
- Date and time presoak water added:  
7-3-90 — 8:45
- Amount of presoak water added (gallons):  
5
- Date and time percolation test is started:  
7-4-90 — 7:00
- Did water remain in hole after the overnight swelling period:  
Hole 1  Yes  No  
Hole 2  Yes  No  
Hole 3  Yes  No

### Percolation Rate Measurement

Percolation Rate (min./in.)	Hole 1	<u>20</u>
	Hole 2	<u>20</u>
	Hole 3	<u>27</u>
	Average	<u>22</u>

### Groundwater:

- Encountered @ 12 feet.
- Estimated depth to maximum seasonal water table if not encountered in profile: 10' +
- Is area believed to be subject to seasonal fluctuations which could result in a seasonal water table within 8' of surface?  
 Yes  No

Slope determination in absorption area: 4 % to the NE (direction)

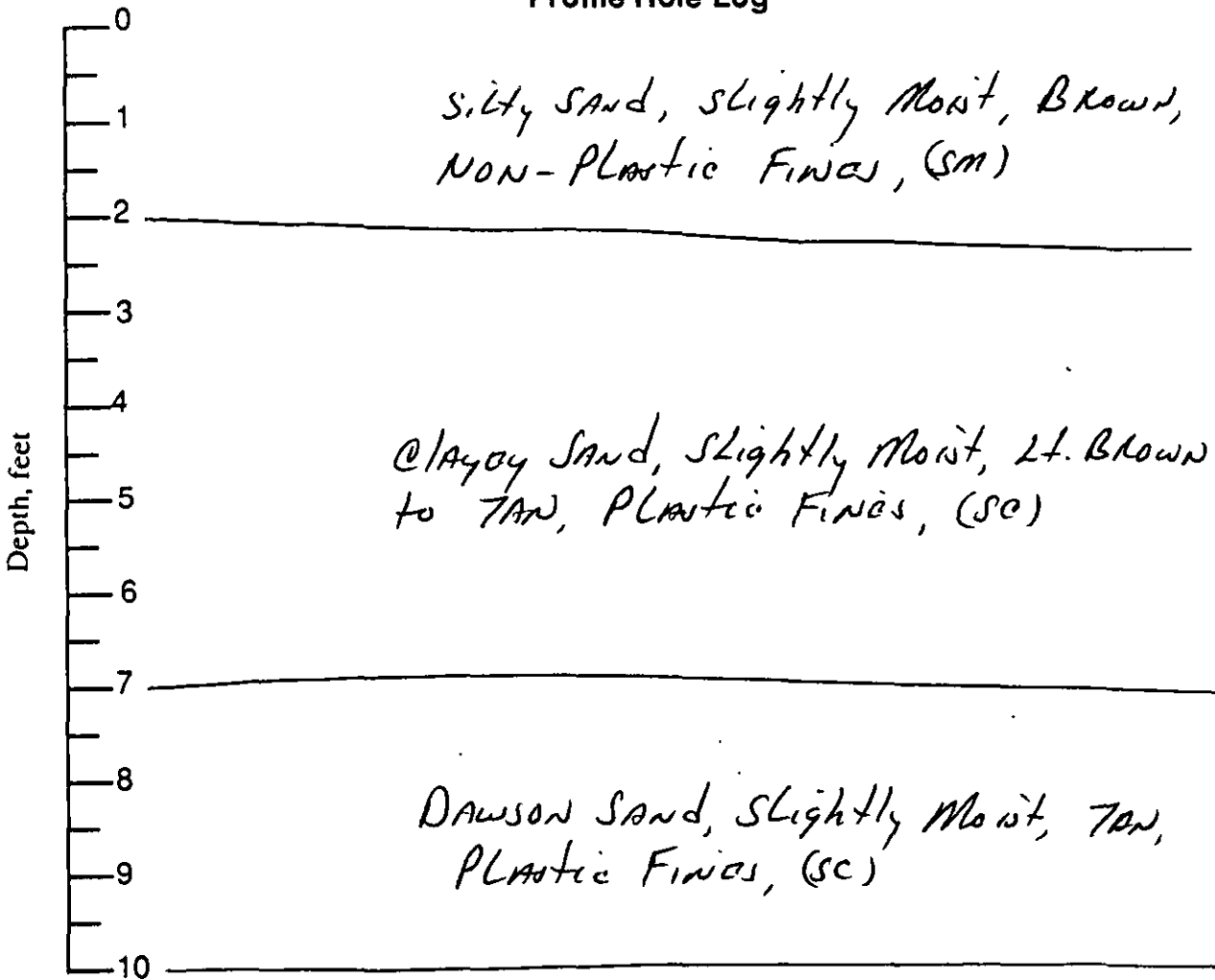
### Bedrock:

- Encountered @ None feet.
- Estimated depth if not encountered in profile:  
10' +
- Type of bedrock:  Sandstone  
 Claystone  Siltstone  
\_\_\_\_\_ Other
- Is bedrock fractured or weathered?  
 Yes  No
- Is bedrock believed to be permeable? (Perc rate <60 min./in.)  
 Yes  No

**Profile Hole Information (Cont.)**

(Soils must be classified using Unified System ASTM D2487)

**Profile Hole Log**



**Certification**

I certify that the above information is correct and complete to the best of my knowledge and that all tests were performed in accordance with the provisions of Tri-County Health Department Regulation I-88 by myself or under my supervision.

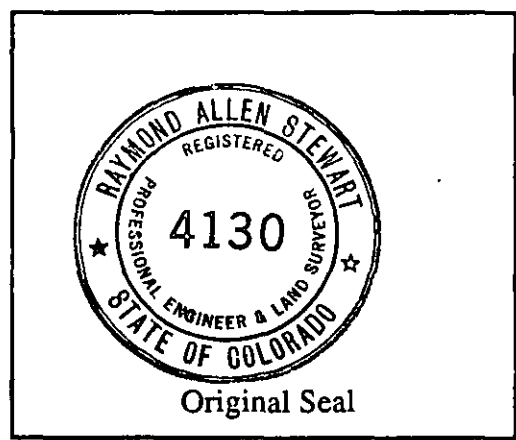
Raymond A Stewart  
Original Signature

7-9-90  
Date

Colorado Soil  
Company Name

5 Phelps Dr., C.R.  
Address

688-9475  
Phone





PERCOLATION TEST RESULTS:

On July 5, 1990, percolation tests were conducted on the site known as LOT 14, RANDOM VALLEY SUBDIVISION, DOUGLAS COUNTY, COLORADO.

The percolation tests were performed in accordance with the Tri-County Health Departments Regulation No. 1-88, "Individual Sewage Disposal Systems."

The percolation rates of these tests are reported in minutes of time per inch of water drop. The field percolation rate is the average of all the test holes observed in the proposed leaching area.

SOIL PROFILE HOLE ... 10 feet deep

0'-2' Silty sand, slightly moist, brown  
2'-7' Clayey sand, slightly moist, light brown  
to tan  
7'-10' Dawson Sand, slightly moist, tan

PERCOLATION TEST HOLE #1 ... 36 inches deep  
Percolation rate = 20 minutes per inch

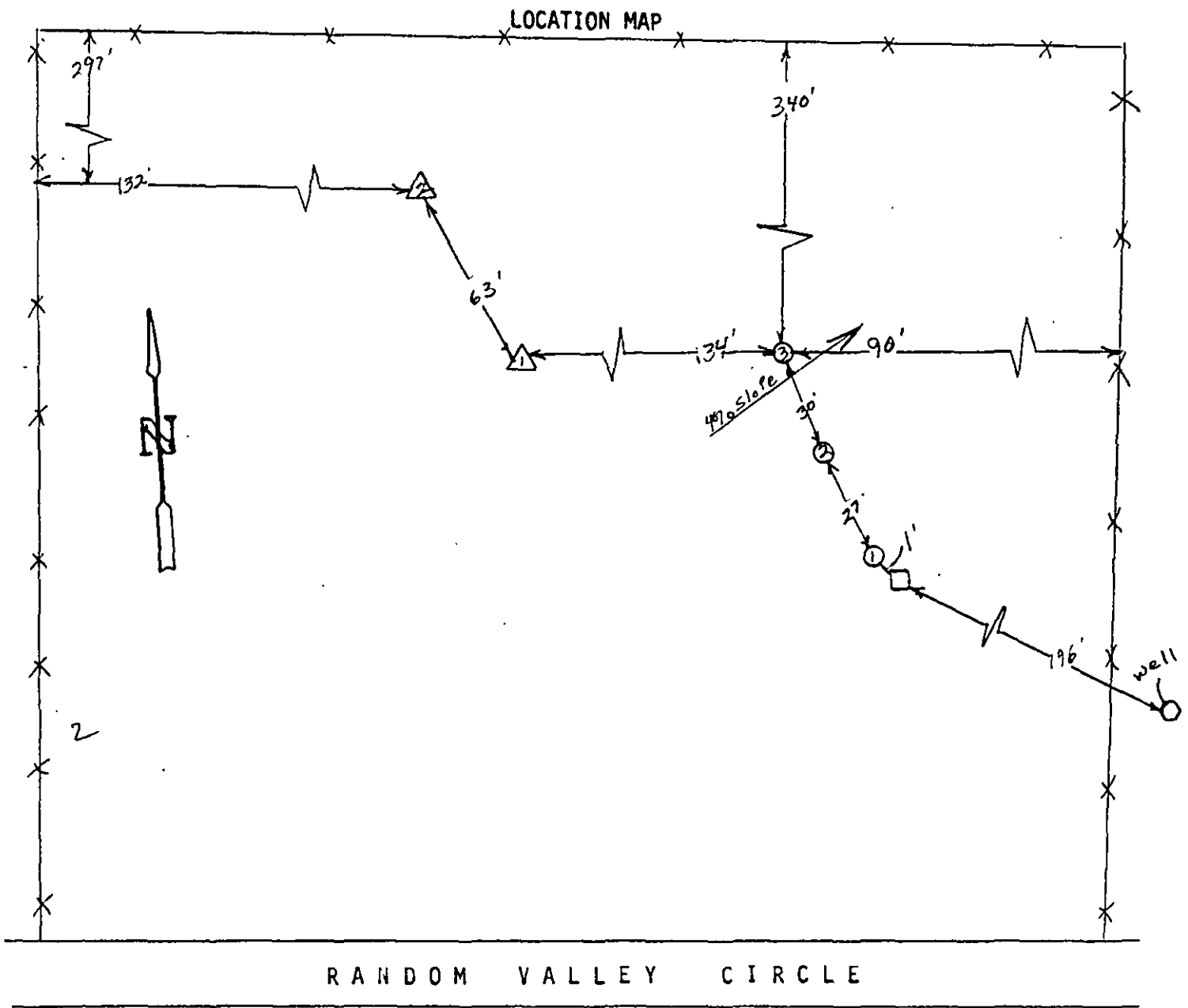
PERCOLATION TEST HOLE #2 ... 72 inches deep  
Percolation rate = 20 minutes per inch

PERCOLATION TEST HOLE #3 ... 48 inches deep  
Percolation rate = 27 minutes per inch

FIELD PERCOLATION RATE = 22 minutes per inch

A soil sample was taken at a depth of four feet (4') from the soil profile hole and consists of 4% moisture, 0% gravel, 84% sand, and 16% minus 200 material.





LEGEND:

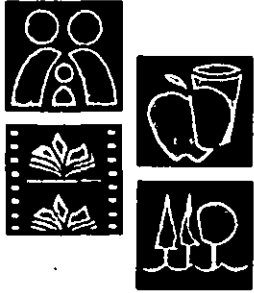
- △ FOUNDATION SOIL TEST HOLE.
- SOIL PROFILE HOLE.
- PERCOLATION TEST HOLE.

Figure 1









# Tri-County Health Department

Serving Adams, Arapahoe and Douglas Counties

Hugh Rohrer, M.D., M.P.H.  
Director

February 10, 1993

INDIVIDUAL SEWAGE DISPOSAL SYSTEM  
11452 RANDOM VALLEY CIRCLE  
PERMIT #7-92-139  
-----

To Whom It May Concern,

This is to confirm that the individual sewage disposal system located at the above referenced property was inspected and approved by this Department, upon its completion, on 09-03-92. It was installed according to and in compliance with the ISDS Regulations for Tri-County Health Department in effect at that time.

If you have any questions or if I can be of further service, please let me know.

Sincerely,

A handwritten signature in cursive script that reads "Gary L. Hartzell".

Gary L. Hartzell, Field Supervisor  
Environmental Health Services

/la