



### **Tri-County Health Department**

Serving Adams, Arapahoe and Douglas Counties

Fiscal Control No. 5403

#### **USE PERMIT**

For Existing Domestic and Non-Municipal Sewage Disposal Systems

This permit shall remain valid until the property is sold, otherwise altered from stated use, or until the sewage disposal system fails to operate in an approved manner.  Issued to
Address 3689 N. Hopi Dr. Sedalia, CO
Location of System: Street Address Same as above
Legal Address Lot 95 Indian Creek Ranch
Date6-24-87 Health Officer _John Kleckner
The sewage disposal system, at the time of inspection, appeared to be in working order. The Department assumes no responsibility for the continued satisfactory operation of the sewage disposal system. If, at any time, the system malfunctions, action will be taken against the owner of record pursuant to the regulations of the Department and the statutes of the State of Colorado.
Permit Fee \$ 75.00 Check No. 1743 M.O. Cash Received by rb Date 3-24-87

Adams City 4301 E. 72nd Ave. Adams City, CO 80022 288-6816

Aurora 15400 E 14th Place **Suite 309** Aurora, CO 80011 341-9370

Brighton 22 S. 4th Ave. Suite 301 Brighton, CO 80601 659-8333

Castle Rock 355 S. Wilcox Castle Rock, CO 80104 688-5145

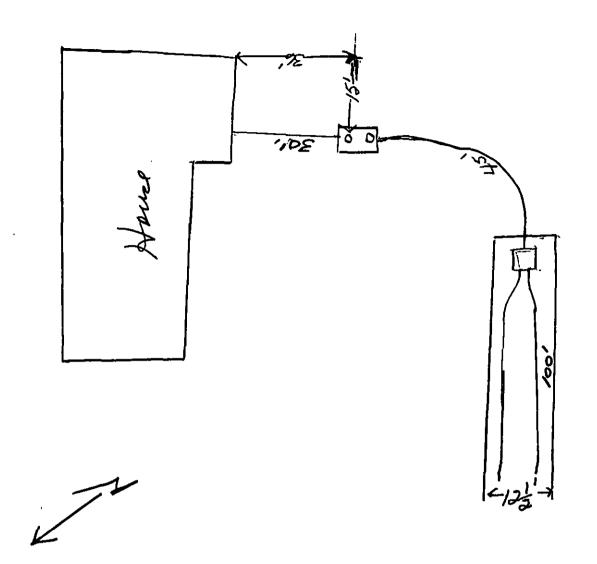
Englewood 4857 S. Broadway Englewood, CO 80110 761-1340

**ENGLEWOOD** 

### TRI-COUNTY DISTRICT HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

4301 East 72nd Ave. 4857 So. Broadway 288-6816 761-1340 AURORA DOUGLAS COUNTY 3689 N. Hopi Dr. 1633 Florence St. 4857 So. Broadway 366-1561 761-1340 APPLICATION FOR PERMIT TO CONSTRUCT, REMODEL, OR INSTALL A WASTE DISPOSAL SYSTEM Address (Legal Description) / NIJIAN COLET RAINCH FILING 2 CONNET / CONNET CO Address 6300 + LUANS Telephone No. 757.
Installed by ANNON CONST CO Address 6050 COLE elephone No. 624-GENERAL INFORMATION Commercial Type of Waste System: Residence Other 5 ACIZES Size of Lot 10 #3 UC Percolation Rate #1 **%0**Average **2** 0 minutes per inch. Depth of 1st Ground Water AND GOLD Soil Profile 1' to 10' CLAY Source of Domestic Water: Public (name) THUNDERBIRD ///176R 1200 Distance from Sewage System Private well Depth 400 Estimated Daily Sewage Flow G.P.D. RESIDENCE Number of Bedrooms 3 Tubs or Showers 2 Toilets 2 Lavatory 2 Sinks / COMMERCIAL or Other: Attach estimated daily sewage flow data. Depth of Building Drain\_ CONSTRUCTION INFORMATION Septic Tank Capacity gallons Material Outlet Inlet\_ Soil Absorbtion System Trench Bed Required Absorbtion Area in square feet 1250 Filler Material Size\_ Distribution Line Material PERF Duc. Diameter For other type disposal system attach complete design and specification data. Owner or Agent Date Tri-County District H.D. Date Water Pollution Control Comm. Date Local Building & Zoning Public Water & Sewer District Date (health officer) 7ch. 18, 1972 Date Permit Issued Supporting data (attached) Soil Profile\_ \_Special Design Data\_ Plot Plans\_ Percolation Data The construction of this nonmunicipal waste disposal system will comply with TCDHD Reg. #2/69 and Owner. all other applicable laws, ordinances, standards or resolutions System inspected and approved (date)8-22-72 Sanitarian Fiscal Control No. 2/3 Permit File No. 1/90

ADAMS CITY



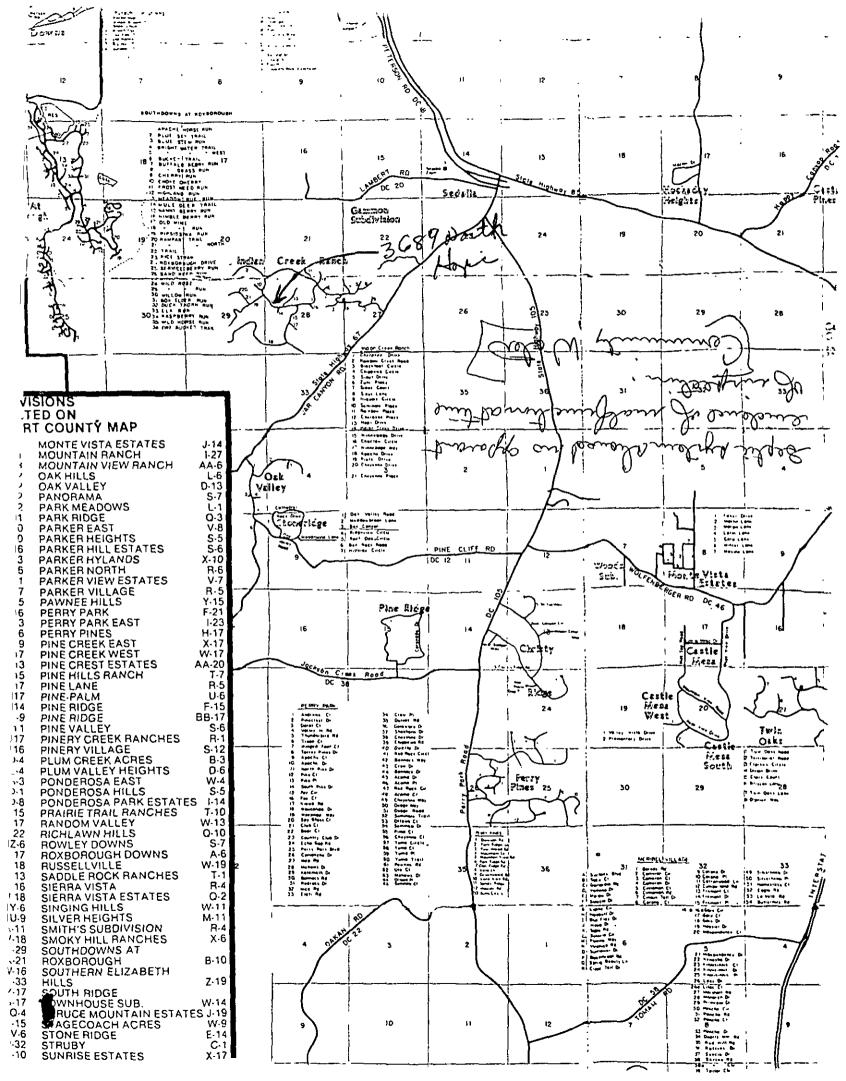
**\*** . ~ · .

if a bacteriological water test is required, please include a check payable to COLORADO DEPARTMENT OF HEALTH for \$6.00.

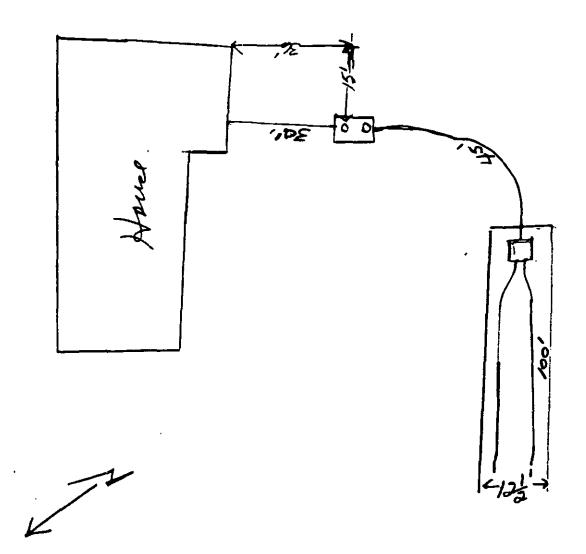
## TRI-COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH SERVICES

## APPLICATION FOR USE PERMIT FOR EXISTING DOMESTIC AND NON-MUNICIPAL SEWAGE DISPOSAL SYSTEMS

ADAMS CITY 4301 E. 72nd Ave. 288-6816	15400 E. 14th Pl.	688-5145	ENGLEWOOD 4857 S. Broadwa 761-1340
	FORM MUST BE COMPLET	ED IN FULL 1140	
Name of Applicant	Bill and Dorothy Kellogg	Phone	688-4127
Mailing Address of	Applicant 3689 N. Hopi Drive, S	edalia, CO 80135	
Send Permit to: Nam	e DCP Realty - Agent Will pick	up	<del></del>
Address & Cor (Attach legal if new BROVIDE MAP OR DIRECT Source of Water:	nplete Legal Description of Propessary)  CTIONS FOR LOCATING PROPERTY ON Private Well ( )	REVERSE SIDE OF THIS APPL Public (Specify)	being Requested  Chance  ICATION.
•	ne Owner (if known)	<del></del>	
	alled System (if known)		
issued as a result o	e of \$75.00 shall be payable when of this application shall remain rom domestic use or until the sever.  * * * * *  OWNER/AGENT CERTIFI	valid until the property wage disposal system fail	is sold or
tank was pumped 6/	MORRIS  n this application do hereby cerus use, operating satisfactorily  /8 / J  SEPTIC TANKS BE PUMPED EVERY FOU	, and without malfunction (DATE) R (4) YFARS	elling at the posal system n. The septic
DATE	SIGNATURE	7 / / / / / / / / / / / / / / / / / / /	
Inspection Date	, () c/() []	proved (/) Denie	ed ( )
Permit Fee \$ 25-00 Date Rec'd 6-22	-87	0 Cash	Rec'd by B
l t	IN use some	mulaland	des hab









Permit # 7-93-237

Date Paid: \$\frac{3-19-9-3}{7440}

Rec'd By: \$\int \text{9}\$

Application Fee: \$150

# APPLICATION TO: INSTALL REPAIR EXPAND AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM

To Be Completed By Applicant - Please Type or Print Clearly					
Address/Legal Description of Property Served by Proposed System: 3689 N. /hops Dr.					
City and Zip Code:					
Property Owner Patricia S. Lieblein	Applicant				
Address 3689 N. Ibopi Dr	Address <u>Same</u>				
City—Redalice State CO	City State				
Zip <u>80135</u> Phone (303) <u>660-003</u> 2	Zip Phone ()				
Installer Jim Patterson	Design Engineer				
License # Phone ()	Job # Phone ()				
Proposed Facility:	•				
Facility Type:   Single Family Residence   Other_	Lot Size				
Source/Type of Water Supply:   On Site Well   Co	mmunity  Other				
If supplied by community water, give name of supplier:	Thunderbird Water Dis.				
General Information:					
Number of bedrooms: Basement:					
Are Additional Bedrooms Planned?  Yes  No Is this property within 400 feet of a sewer line?					
If so, will that sewage district provide service?(attach letter from sewage district)					
Is lot marked and are percolation holes staked?  I the undersigned hereby certify that all information and data provided is correct and true to the best of my knowledge. I agree that the construction of this individual sewage disposal system will comply with Tri-County Health Department's Regulation I-88 and all other applicable laws and regulations.  **Particular of the best of my knowledge. I agree that the construction of this individual sewage disposal system will comply with Tri-County Health Department's Regulation I-88 and all other applicable laws and regulations.  **Particular of the best of my knowledge. I agree that the construction of this individual sewage disposal system will comply with Tri-County Health Department's Regulation I-88 and all other applicable laws and regulations.					
Applicant's Signature	Date				

☐ Commerce City
4301 E. 72nd Ave.
Commerce City, CO 80022
288-6816

☐ Aurora 15400 E. 14th Pl. Suite 309 Aurora, CO 80011 341-9370 Castle Rock
413 Wilcox St.
Castle Rock, CO 80104
688-5145

☐ Englewood 4857 S. Broadway Englewood, CO 80110 761-1340 ☐ Northglenn 10190 Bannock St. Suite 100 Northglenn, CO 80221 452-9547

## For Department Use Only **Design Installation Requirements** All applicable design/installation requirements of Regulation 1-88 shall be compiled with in the installation of this system System designed for: \_\_\_\_\_\_ gallons per day and/or <u>5</u> bedrooms Soils data: (See attached Percolation Test and Soil Data Form) Average percolation rate: \_\_\_\_\_\_\_\_ (minutes per inch) Depth to groundwater: \_\_\_\_\_\_\_\_\_ Depth to bedrock: 6F+ Ground slope: 10 % to NE Engineer design required? \_\_\_\_\_\_ Minimum disposal area (trench): \_\_\_\_\_\_ square feet Maximum depth of disposal area: \_\_\_\_\_\_ (not to exceed depth of percolation test holes) Minimum depth of installed rock:\_\_\_\_ Special Permit Conditions: Install system as per E.O. Churches Design Job NO. 4239 Design engineer inspection of the completed system required? Site Visit Comments: \_\_\_\_\_ Final Inspection \_\_\_\_\_ Inspection Date(s): 9-9-93 Septic Tank Size (as built) Existing 1250 gallons + (New) 1000 gal Disposal Area Type: Bell-Patt (D.T.) Size (as built): 6600 square feet Depth At Deepest Point: \_\_\_\_\_ Comments: Final Approval Pencling Letter from E.O. Church RECEIVED Lette 10-21-93 Date Of Final Approval Environmental Health Specialist





## Tri-County Health Departm\_nt

Serving Adams, Arapahoe and Douglas Counties
ENVIRONMENTAL HEALTH DIVISION

PERMIT NO. 7-93-237

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

PERMIT TO REPAIR AN INDIVIDUAL SEWAGE DISPOSAL SYSTEM.

OWNER: PATRICIA LIEBLEIN

LOCATION: 3689 N. HOPI DRIVE

COMPOSED OF EXISTING 1250 + 1000 GALLON SEPTIC TANK AND ENGINEERED AREA OF 6600 SQUARE FEET. INSTALL PER EO CHURCH'S DESIGN - JOB #4239.

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 9-20-93.

permit are be valid u	presented on the accompanying nless a copy of the application	application. This permit shall not is attached to it.
ISSUED BY	John Clecknes	OF TRI-COUNTY HEALTH
DEPARTMENT	on 8-20-93.	
INSPECTION	UNTIL IT HAS RECEIVED APPROVAL	STE DISPOSAL SYSTEM REMAINS OPEN FOR L BY TRI-COUNTY HEALTH DEPARTMENT. ME RESPONSIBILITY IN CASE OF FAILURE
		BEYOND CONSULTING IN GOOD FAITH

NOTE: Construction requirements and special conditions relative to this

PERMIT FEE OF \$150.00 CHECK #7440

RECEIVED BY LA ON 8-19-93

WITH THE PROPERTY OWNER.

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

E. O. CHURCH, INC. CONSULTING GEOLOGICAL ENGINEER

925 E. 17th AVENUE • DENVER, COLORADO 80218 • (303) 832-9692 FAX (303) 832-3517

May 10, 1993

Ms. Pat Lieblein 3689 North Hopi Drive Sedalia, CO 80135

660-0072

Percolation Tests and Onsite Sewage Disposal System Design Subject:

Existing Residence, 3689 North Hopi Drive Lot 95, Filing 2, Indian Creek Ranch

Made field visit - appeared Douglas County, Colorado

Job No. 4239

Dear Ms. Lieblein,

As requested, we investigated subsurface conditions with respect to installation of a repair onsite sewage disposal system (OSDS) at the subject site. The purpose of our investigation was to determine subsurface conditions with respect to a repair OSDS.

SITE CONDITIONS - The investigated site is a 5 acre lot located in a developed rural subdivision in Douglas County, southwest of Sedalia, Colorado. The location of the existing residence, OSDS and percolation tests are presented on Fig. 1. The slope at the proposed disposal field area is 10% to the northeast. The ground surface includes a good cover of native grass and weeds. The residence has an existing OSDS consisting of a 1250 gallon septic tank and 1250 square feet of disposal field located as indicated on Fig. 1. We understand effluent periodically surfaces in the disposal field area.

EXISTING CONSTRUCTION - A 5 bedroom residence exists as indicated on Fig. 1. The sewage load from a 5 bedroom dwelling is 750 gallons per day (GPD), 1125 GPD with a 1.5 safety factor. This loading includes a garbage grinder and washing machines. The residence is served water from the Thunderbird Water District. We understand the existing system was installed in 1972 and permitted by Tri-County Health Department under Permit No. 1140.

SUBSURFACE CONDITIONS - Subsurface conditions were investigated by drilling two profile borings and 6 percolation holes at the locations indicated on Fig. 1. Subsurface conditions encountered in the profile holes consisted of 6 to 9 feet of loose silty sand underlain by weathered sandstone. No free water was encountered in the profile borings at the time of drilling. The profile borings were checked 1 day after drilling and no free water was observed. Percolation tests indicate percolation rates of 60 to 240 minutes per inch (MPI). The average percolation rate is 100 MPI in the area of the proposed field.

RECOMMENDATIONS - We recommend a Bell-Patt drip irrigation OSDS be installed in the natural soils. We recommend the repair OSDS be designed based on a percolation rate of 100 MPI, which is an application rate of 0.24 (gallons/square-foot/day). This application rate considers both absorption and evapotranspiration (E-T). The sewage disposal

system should be designed for a sewage load of 750 GPD. A drip irrigation disposal system designed on an application rate of 0.24 GAL/SF-/DAY and a sewage load of 750 GPD is presented on Figs 1 through 4. As indicated on Fig. 1 the disposal field has an area of 6600 square feet in 7 sections. The existing disposal field should remain and be connected to the repair system as an emergency gravity overflow.

If the owner is anticipating future finishing of additional bedrooms in proposed additions, we recommend the OSDS be constructed to handle the additional loading. The installation of a properly sized OSDS to serve future build-out can be cost effective. The proposed tank configuration will serve up to 7 bedrooms. Each additional bedroom above 5 bedrooms would require an additional 1320 SF of disposal field.

We recommend the surface of the disposal field be seeded after installation of the system. We recommend using a seed mix such as a "Foothills, Pasture, or Prairie" mixes available at local feed and seed stores. These mixes do not require irrigation and develop a growth 10 to 15 inches high. No lawn irrigation or sprinkler system should be installed above the disposal field.

The owner must realize an OSDS is considerably different from public sewer services. The owner must be aware of and assume the responsibility for continued maintenance of the system. The system is relatively maintenance free, but the owner must have the septic tanks pumped. We recommend the tanks be pumped on a routine bases, approximately every two years. There are daily considerations, such as not putting plastic or other nonbiodegradable material down the sewage disposal system. Water use must be carefully monitored so toilets are not allowed to run when seals malfunction. To illustrate the point, it should be noted a running toilet will consume in excess of 1000 GPD if allowed to run. An excess 1000 GPD will irreparably harm the system.

We caution you against installation of a water softener. The hydraulic loading from a water softener is detrimental to OSDS. A separate drywell should be installed for backwash, if there is a water softener.

LIMITATIONS - Our investigation, layout, and recommendations are based on data submitted. If subsurface conditions considerably different from those described in this report are encountered, we should be notified to evaluate the affect of the changes on the proposed sewage disposal system. If modifications to are recommendations are made by governing Health Departments, we should be contacted to evaluate the effect on our OSDS recommendations.

If there are any questions, please call.

E. O. CHURCH,

Edward O. Chur

2 copies sent

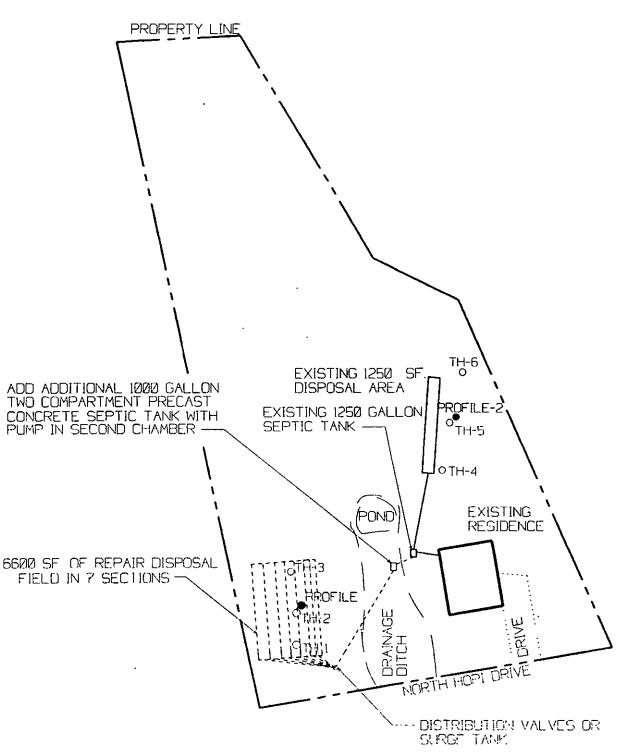
cc: Jim Patterson



5 ACRES 3689 NORTH HOPI DRIVE LOT 95, FILING 2. INDIAN CREEK RANCHES DOUGLAS COUNTY, COLORADO

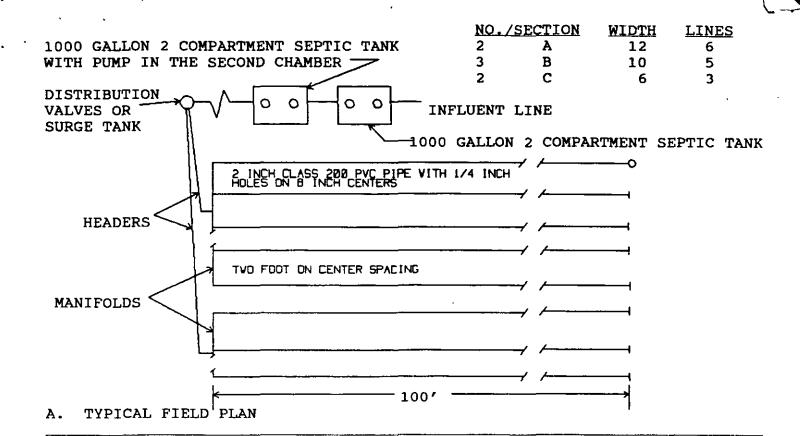


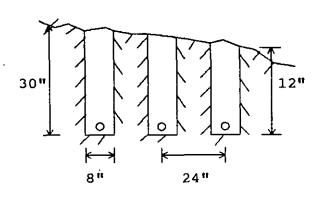


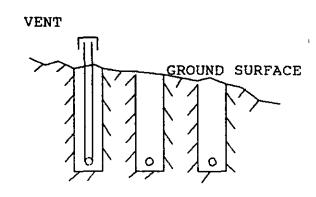


SITE PLAN AND LOCATION OF REPAIR OSDS

JOB NO. 4239







#### B. TYPICAL FIELD CROSS-SECTION

#### TREATMENT UNIT

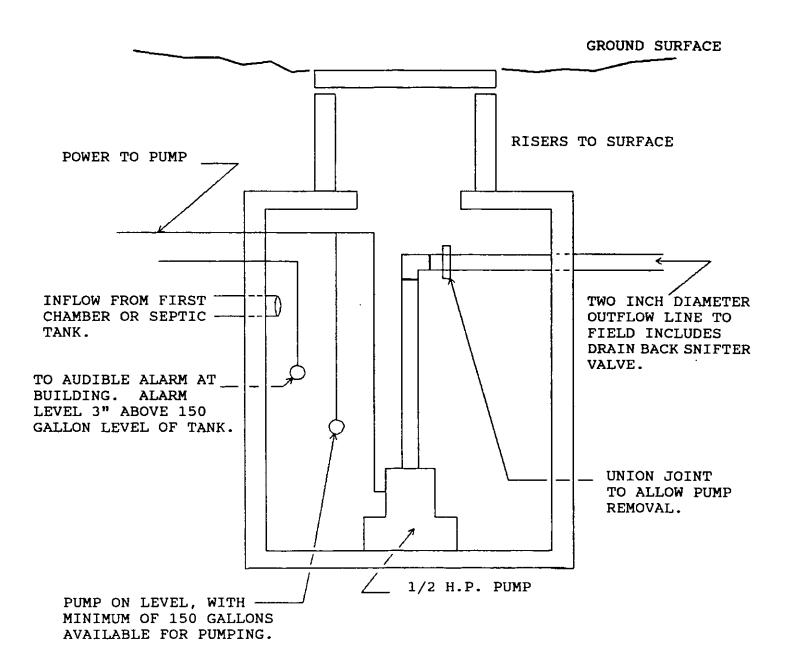
- 1. TWO 1000 GALLON 2 COMPARTMENT SEPTIC TANKS WITH PUMP IN 2ND CHAMBER OF 2ND TANK.
- 2. PUMP 1/2 HP GOULD
- 3. ALARM/CONTROL LOCATION AT OWNER'S REQUEST.
- 4. RISERS (4) TO SURFACE
- 5. DRAIN BACK TO PUMP
- 6. CHAMBER OR FIELD
- 7. OTHER\_

#### DISTRIBUTION FIELD

- 1. BEDROOMS 5 LOAD (Q GAL.) 750
- 2. PERCOLATION RATE (MPI) 100
- 3. DISPOSAL RATE (R GAL/SF/DAY)0.24
- 4. AREA=(Q/R)(1.5)(1.6)(0.75)(1.17)= 6581
- 5. FIELD AREA (SQ.FT.) 6600
- 6. FIELD LINE (LN.FT.) 3300
- 7. TRENCH SIZE 8 INCHES.
- 8. LANDSCAPING BY OWNER.
- 9. OTHER\_

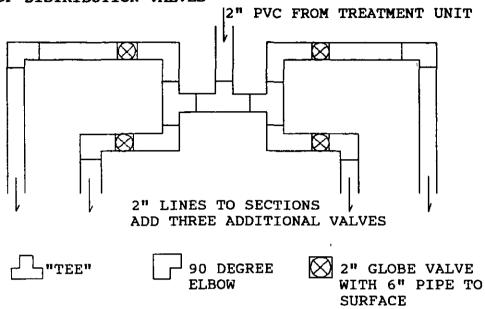
#### C. SPECIFICATIONS

## SECOND COMPARTMENT OF SECOND 1000 GALLON TANK OR SEPARATE 500 GALLON CHAMBER

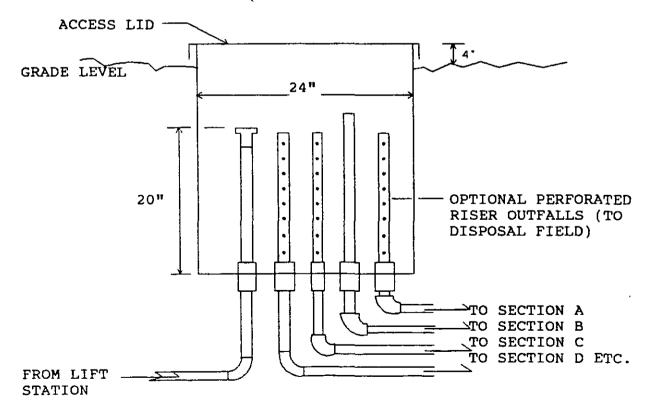


THE DISTRIBUTION VALVES OR THE SURGE TANK CONTROL FLOW OF EFFLUENT TO EACH SECTION OF THE DISPOSAL FIELD. WE RECOMMEND THAT ONE SECTION OF THE FIELD BE CLOSED AT ALL TIMES TO ALLOW DRYING OF SEGMENTS OF THE FIELD TO EXTEND THE LIFE OF THE FIELD. THIS CAN BE ACCOMPLISHED BY SEQUENTIALLY ROTATING THE VALVES OR THE NON-PERFORATED TALL RISER EVERY SIX MONTHS.

#### A. DETAIL OF DISTRIBUTION VALVES

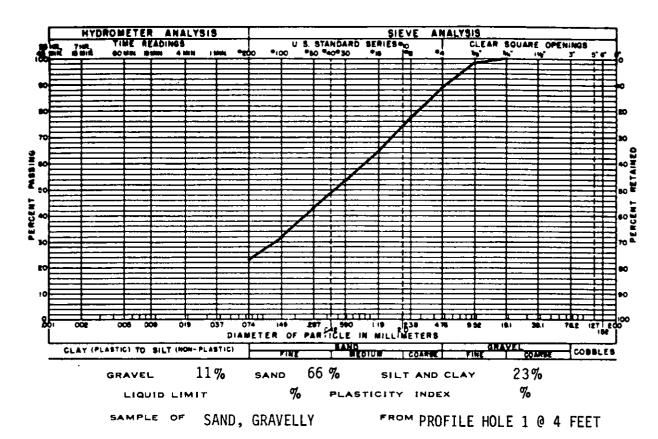


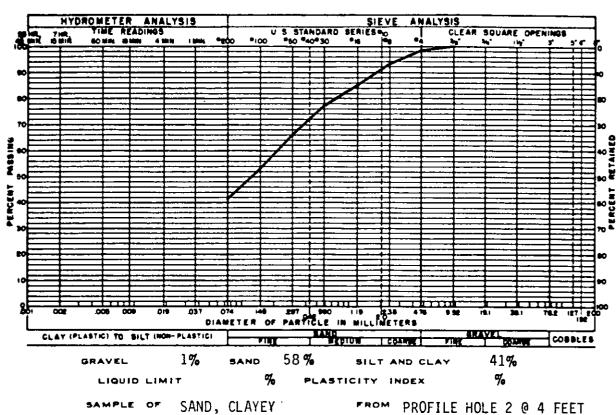
#### B. ALTERNATE SURGE TANK DETAIL



PIPES TO SECTIONS SHOULD SLOPE 1% DOWNGRADE FOR FROST PROTECTION

DISTRIBUTION VALVES AND SURGE TANK DETAIL





GRADATION TEST RESULTS

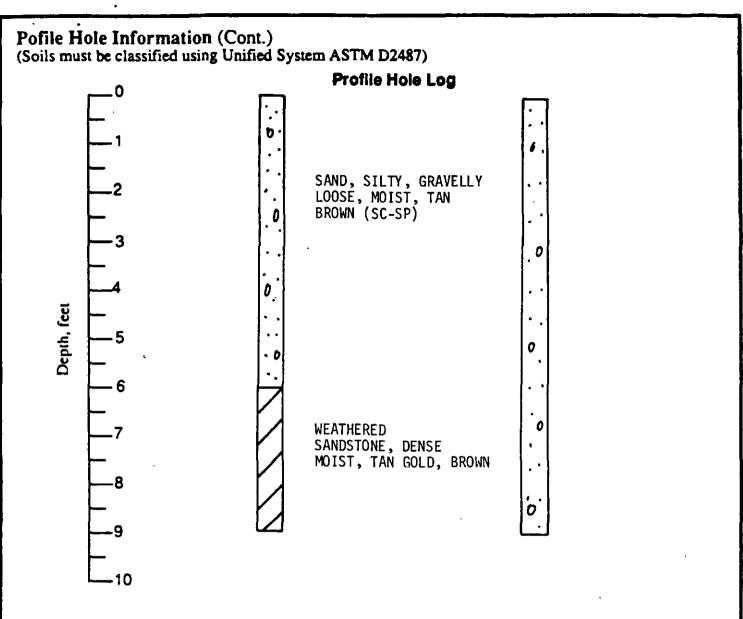


# Tri-C unty Health D partment Percolation Test and Solis Data Form

3689 NORTH HOPI DRIVE

Property address 3689 NORTH HOPI	DRIVE
egal description LOT 95, FILING 2	2, INDIAN CREEK RANCH
Phone 660-0032  Note: Percolation Test Form, Site Plan : be submitted with this form.	and Grain Size Distribution Curve of the Sample must include the entire lot. Test locations must be other permanent markers.
Saturation and Swelling  Smeared surfaces removed: X Yes  Sand or gravel added: X Yes  Date and time presoak water added: 5-6-93 9:00 a.m.  Amount of presoak water added (gallon 3 GALLONS/HOLE  Date and time percolation test is started 5-7-93 1:00 p.m.  Did water remain in hole after the overreperiod:  Hole 1 Yes X No Hole Hole 2 Yes X No Hole Hole 3 Yes X No Hole Allole 5 240 Hole 6 120 Average	Sestimated depth to maximum seasonal water table if not encountered in profile:   Solution > 10 FEET  Is area believed to be subject to seasonal fluctuations which could result in a seasonal water table within 8' of surface?   Yes X No  Slope determination in absorption area: 10 % to the NE (direction)  Bedrock: WEATHERED  Encountered @ 6 feet  Estimated depth if not encountered in profile:  Estimated depth if not encountered in profile:  Type of bedrock: X Sandstone  Claystone Siltstone  Other  Is bedrock fracticed as weathered?  X Yes No  No

JOB NO. 4239



### 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.

Dool !	05-10-93
Original Signature	Date
E. O. CHURCH, INC.	
Company Name	RADO REGIO
925 EAST 17TH AVENUE; DENVER, CO	ADO CHI COM
Address	12170 (2)
(303) 832-9692	13172
Phone	
	NO ONAL ELECT
JOB NO. 4239	Original Seal

FIG.



# TRI-COUNTY HEALTH DEPARTMENT Percolation Test Result Form

Hole No.	Hole Depth (Ir.)	Langth of interval (min.)	Water Depth  Start of Interval (In.)	Water Depth @ End of Interval (In.)	Drop in Water Level (in.)	Percolation Rate Fina Interval (min./in.)
1	35	30	16.50	18.00	2.50	
		30	18.00	19.50	1.50	
		30	19.50	20.50	1.00	
		30	20.50	21.25	0.75	
		30	21.25	22.00	0.75	
		30	22.00	22.25	0.25	
		30	22.25	22.50	0.25	
		30	22.50	22.75	0.25 .	120
2	32	30	18.00	19.00	1.00	•
		30	19.00	20.00	1.00	
		30	20.00	21.00	1.00	
		30 .	21.00	21.50	0.50	
		30	21.50	22.00	0.50	
	i	30	22.00	22.25	0.25	•
	•	30 ·	22.25	22.50	0.25	
		30	22.50	22.75	0.25	120
3	40	30	14.00	17.00	3.00	
		30	17.00	19.00	2.00	
		30	19.00	20.25	1.25	
		30	20.25	21.25	1.00	
		30 .	21.25	21.75	0.50	
	•	30	21.75	22.25	0.50	
		30	22.25	22.75	0.50	
		30	22.75	23.25	0.50	60
4	37	30	18.50	19.00	0.50	
		30	19.00	19.50	0.50	
		30	19.50	20.00	0.50	
		30	20.00	20.50	0.50	
		30	20.50	21.00	0.50	
		30	21.00	21.25	0.25	
		30	21.25	21.37	0.12	
		30	21.37	21.50	0.12	240

Job No. 4239

Fig. 8



# TRI-COUNTY HEALTH DEPARTMENT Percolation Test Result Form

Hole No.	Hole Depth (In.)	Length of interval (min.)	Water Depth  Start of Interval (In.)	Water Depth	Drop in Water Level (in.)	Percolation Rate Fina Interval (min./in.)
5	42	30	18.00	19.00	1.00	
		30	20.00	20.50	0.50	
		30	20.50	20.75	0.25	
		30	20.75	20.87	0.12	
		30	20.87	21.00	0.12	
		30	21.00	21.12	0.12	•
		30 -	21.12	21.25	0.12	
		30	21.25	21.37	0.12 .	240
6	35	30	20.50	22.00	1.50	•
		30	22.00	23.00	1.00	•
		30	23.00	24.00	1.00	
		30 .	24.00	24.50	0.50	
		30	24.50	24.75	0.25	
		30	24.75	25.00	0.25	
		30	25.00	25.25	0.25	•
		30	25.25	25.50	0.25	120

Job No. 4239



## Tri-County Health Departm

Serving Adams, Arapahoe and Douglas Counties

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

June 26, 1987

Bill Kellogg 3689 N. Hopi Dr. Sedalia, Co 80135

RE: Lot 95, Indian Creek Ranch, Douglas Co.

Dear Mr. Kellogg:

An inspection has been made, June 26, 1987 of the individual sewage disposal system located on the above listed property.

The system showed no apparent evidence of malfunction at the time of this inspection. The soil absorption area consists of 1250 square feet with a 1250 gallon tank. This system was inspected and approved 8-22-72 when the system was originally installed.

The septic tank was pumped June 18, 1987.

Sincerely,

John Kleckner, Public Health Sanitarian

Environmental Health Services

1140

JK/rb

If a bacteriological water test is required, please include a check payable to COLORADO DEPARTMENT OF HEALTH for \$6.00.

## TRI-COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH SERVICES

## APPLICATION FOR USE PERMIT FOR EXISTING DOMESTIC AND NON-MUNICIPAL SEWAGE DISPOSAL SYSTEMS

ADAMS CITY 4301 E. 72nd Ave. 288-6816	AURORA 15400 E. 14th Pl. 341-9370	CASTLE ROI 355 S. Wi 688-5145	1cox 4857 S. Broadway
	FORM MUST BE COMP	LETED IN FULL	140 Prystal Mg 688 - 5794 Mg
Name of Applicant	Bill and Dorothy Kellogg		Phone 688-4127
Mailing Address of /	Applicant 3689 N. Hopi Drive	e, Sedalia, CO 80135	
Send Permit to: Name	DCP Realty - Agent Will p	ick up	
PROVIDE MAP OR DIRECT Source of Water:  Name of Original Homo Controctor who Instantal A non-refundable fee issued as a result or the stantal	restary)  TIONS FOR LOCATING PROPERTY Private Well ( )  The Owner (if known)  Of \$75.00 shall be payable f this application shall remom domestic use or until the	ON REVERSE SIDE OF THI Public (Specify) when the application in ain valid until the presented sewage disposal systems.	IS APPLICATION. )  Is made. The permit roperty is sold or
has been in continuor tank was pumped 6/ REGULATIONS REQUIRE'S	Check No	rily, and without malfu (DATE) FOUR (4) YEARS DEE * * Approved ( )	Denied ( )

## E. O. CHURCH, INC. CONSULTING GEOLOGICAL ENGINEER



925 E. 17th AVENUE • DENVER, COLORADO 80218 • (303) 832-9692 FAX (303) 832-3517

September 13, 1993

Ms. Pat Lieblein 3689 North Hopi Drive Sedalia, CO 80135

Subject: Installation Observation, Onsite Sewage Disposal System

3689 North Hopi Drive, Lot 95, Filing 2, Indian Creek Ranch

Douglas County, Colorado

Job No. 4239

Gentlemen,

This letter presents the results of an installation observation of an onsite sewage disposal system (OSDS) at the subject site. The system was designed by our firm under our Job No. 4239, dated May 10, 1993.

The system included the installation of 6000 square feet of disposal field in seven sections. An additional 1000 gallon two compartment precast concrete septic tank was installed with a pump in the second chamber. There is an existing 1250 gallon septic tank. Distribution valves were installed to allow access to alternating sections of the disposal field. The OSDS was installed for a five bedroom residence.

The components of the OSDS were installed in general conformance with the plans and specifications.

If there are any questions, or if we can be of further service, please call.

Very truly yours

E. O. Church, Inc

Edward O. Church

cc: Jim Pattersò



Onsite System As-Built Drawing Property Address 3689 N. HART DE

Permit #\_7-93-237

Date System Completed Sepre '93'
Installer's Name JIM PATTE ESON CO
Installer's License #\_ 022
Installer's Address and Phone

781-1678

