

## **SEPTIC SYSTEM:**

The septic system, just like the well, has not been used in forty years, if it was ever used.

According to documents from DEH, the septic system was only ever permitted pursuant to a single 18'x98" greenhouse on the property, for which a conditional use permit was issued in January 1982. This septic system was never permitted for residential use, but rather was permitted for commercial use in relation to a single greenhouse being used for agricultural storage. Further, the plotted point on the soil percolation test conducted on or around November 18, 1981 was shown as being on the border of "marginal" and "unacceptable."

The septic inspection was apparently performed by Steve's Septic Service on March 29, 2022. The inspection report indicated that there was no "lush vegetation" present. However, on March 12, 2022, the property owner cleared roughly 12,000 square feet of the property, in the exact area where the alleged leach field is located. (See video taken 03/12/2022).

## **DOCUMENTS PROVIDED:**

1. 1981 Application for Individual Sewage Disposal System Permit
2. 1981 Septic Permit Application Checklist
3. 1981 Summary of Soil Texture/Suitability Analysis
4. 1981 Winzler & Kelly Soils Percolation Test Data
5. Supporting documents

Signed:  
Cyndy Day-Wilson  
John Wilson  
Chad Christensen

Septic

APPLICATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT

Application is hereby made to the Humboldt County Health Officer for a permit to construct or repair a sewage disposal system as described below in compliance with the laws and standards of Humboldt County and the State of California.

|   |                     |                             |  |
|---|---------------------|-----------------------------|--|
| Legal Conformance<br><i>9d 9 Dec 81</i> | Fee<br><i>10.00</i> | Receipt No.<br><i>41290</i> | Permit No.<br>A.P. # <i>308-231-02</i> |
|---|---------------------|-----------------------------|--|

Owner's Name CISCO Lunsford

On attached sheet, applicant is to draw TO SCALE the appropriate septic tank system, location on property, and all pertinent setbacks.

Mailing Address P O Box 239

DETAILED DIRECTIONS TO PARCEL: off 101 on Kalketa exit, on ELL RIVER DR, right on TALLEY BLEUE Rd, left on HAINES MILL RD.

City Lolita, Ca. 95551 Telephone # \_\_\_\_\_

Installer \_\_\_\_\_

Assessor's Parcel No. 308-231-02

NOTE: WAIVER GRANTED TO START OF WINTER TIME PERCOLATION TESTING

General Area HAINES MILL RD. off TALLEY BLEUE RD.

PERIOD, TESTS DONE PRIOR TO 1 January 1982

Previous Application: New System  Repair   
Existing System   
YES  NO

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HUMBOLDT CO. HEALTH DEPT.

Installation will serve: Residence  Commercial

Multiple Housing  Mobilehome Park  Mobilehome

Other  - Specify: \_\_\_\_\_

IMPORTANT: 24 HOUR NOTICE REQUIRED BEFORE FINAL INSPECTION

|                          |   |   |
|--------------------------|---|---|
| No. of Units<br><i>1</i> | No. of Rooms Usable as Bedrooms<br><i>3</i> | Garbage Disposal Unit<br>YES <input type="checkbox"/> NO <input type="checkbox"/> |
|--------------------------|---|---|

|                                 |                          |                               |                           |
|---------------------------------|--------------------------|-------------------------------|---------------------------|
| Septic Tank Size<br><i>1800</i> | No. of Lines<br><i>6</i> | Length of Lines<br><i>50'</i> | Trench Depth<br><i>3'</i> |
|---------------------------------|--------------------------|-------------------------------|---------------------------|

Water Supply: Private  Public   
Lot Size: *873' x 600'*

Layout Plan Prepared by \_\_\_\_\_ Date \_\_\_\_\_

I agree to obtain inspection of installation prior to covering. I agree to construct this disposal system in accordance with all of the provisions of county and state law.

IMPORTANT: Any deviation in construction from the above plan must have prior approval in writing by the Health Department.

It is understood that the issuance of a permit in no way indicates that a guarantee of perfect and indefinite operation of this system is made by the Humboldt County Health Department.

HEALTH DEPARTMENT USE ONLY

Signature Cisco Lunsford

Layout Plan Approved By Jessie M. Clark Date 12-8-81

Date 11-11-81 Owner  Owner's Agent

Construction Approved By Richard A. Sherman RS Date 11/24/82

Expiration Date of Permit 9 Dec 82

HUMBOLDT COUNTY HEALTH DEPARTMENT  
Division of Environmental Health  
529 "I" St., Eureka, CA 95501 445-7613

WHEN VALIDATED, THIS IS YOUR PERMIT.

PERMIT APPLICATION FOR INVESTIGATION 1981

Prime site for  
 Proposed date  
 Pre-const Grd. Applic. ...  
 Completed Date

CONSTRUCTION:

|   | POS                                     | NEG                          |
|---|---|------------------------------|
| Site has obvious fill.....                              | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Does material appear to be expansive.....               | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Site is on land with slope greater than 15%.....        | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Key map is required for locating site.....              | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Grd'g permit is req'd for proj. (est. Over 50 yds)..... | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Site has natural water course.....                      | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Site has good surface drainage.....                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Contours are required for clarification.....            | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Site req's engr. for the proj. (exp. below).....        | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Improved road section at site is 40ft. or more.....     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Other problems exist (explain below).....               | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |

AD ENCROACHMENT: \*DRIVE NOT SHOWN ON PLOT PLAN

|   |  |  |
|---|--|--|
| Access road complies with visibility ordinance.....         | Yes <input type="checkbox"/>           | No <input checked="" type="checkbox"/> |
| Drop curb & gutter are existing.....                        | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Gutter control may be needed.....                           | No <input type="checkbox"/>            | Yes <input type="checkbox"/>           |
| Details on plot plan are complete.....                      | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Dr'wy access at co. rd. has (incline decline) over 10%..... | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/>           |
| Drive at road has a good radius.....                        | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Existing culvert is adequate.....                           | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Parking for 5 vehicles on site.....                         | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Co. rd. at driveway access has a grade over 10%.....        | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/>           |
| Co. rd. at driveway access is paved.....                    | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Existing private road is paved.....                         | Yes <input type="checkbox"/>           | No <input checked="" type="checkbox"/> |
| Private drive requires grading permit.....                  | No <input type="checkbox"/>            | Yes <input type="checkbox"/>           |

ENVIRONMENTAL HEALTH:

|  |   |                              |
|--|---|------------------------------|
| Site has good drainfield location.....           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Site has good reserve drainfield loc.....        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Site has service pump access to septic tank..... | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Percolation tests should be performed.....       | No <input type="checkbox"/>             | Yes <input type="checkbox"/> |
| Soil engineering is recommended.....             | No <input type="checkbox"/>             | Yes <input type="checkbox"/> |
| Water source is feasible.....                    | Yes <input type="checkbox"/>            | No <input type="checkbox"/>  |
| Other problems exist (explain below).....        | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |

ENVIRONMENTAL POLLUTION:

|                            |                             |                              |
|----------------------------|-----------------------------|------------------------------|
| Atmospheric discharge..... | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Industrial waste.....      | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Water discharge.....       | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Environmental impact.....  | No <input type="checkbox"/> | Yes <input type="checkbox"/> |

PLANNING:

|   |   |                              |
|---|---|------------------------------|
| Existing buildings not shown on plans.....          | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Site has private access only (existg) (new).....    | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/> |
| Does proj. fit exist'g general area land use.....   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |
| Is the proj. a change in exist'g site land use..... | No <input type="checkbox"/>             | Yes <input type="checkbox"/> |
| Does the plot plan coincide with the site.....      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>  |

GENERAL SITE DESCRIPTION: CURRENT USE IS OPEN PASTURE LAND WITH SLOPE OF 2-3%. \* HIGH WIND AREA.

NOTES: \* IN COASTAL ZONE. 11-6-81 GA

Project No. 3081 231021

Parcel No. 11-4-81

Date 11-4-81

Address RD. BOX 239

City SAVITA, CA

County HUMBOLDT

State CA

Proposed use of site Commercial

Fire zone 1

Est. Proj. Value \$ 1000

Occup. AEHSN (5)

Private road name DUMEX

Building area 8040

No of stories 1

Erect

Alter

Demolish

Other

Garb disp.

No bedrms.

Repair

Retpate

Occupancy change

Grading or fill

Mobile home

Recd. By GA

Applicant's Signature [Signature]

Public  Private  Hold  Prvt

Public  Prvt

Private road name DUMEX

Building area 8040

No of stories 1

Erect

Alter

Demolish

Other

Garb disp.

No bedrms.

Repair

Retpate

Occupancy change

Grading or fill

Mobile home

Recd. By GA

Applicant's Signature [Signature]

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FEB 18 1981

HUMBOLDT CO. HEALTH DEPT.

PERMIT APPLICATION & SITE INVESTIGATION FORM

*Handwritten initials/signature*

line site for \_\_\_\_\_ Preconst Grdg. Applic...   
 d insp. rec'd date \_\_\_\_\_ Completed Date \_\_\_\_\_

**CONSTRUCTION:**

site has obvious fill.....No  ... Yes

soils material appear to be expansive.....No  ... Yes

site is on land with slope greater than 15%.....No  ... Yes

topographic map is required for locating site.....No  ... Yes

grading permit is req'd for proj. (est. Over 50yds).....No  ... Yes

site has natural water course.....No  ... Yes

site has good surface drainage.....Yes  ... No

setbacks are required for clarification.....No  ... Yes

site req's engr. for the proj. (exp. below).....No  ... Yes

improved road section at site is 40ft. or more.....Yes  ... No

other problems exist (explain below).....No  ... Yes

**ENCROACHMENT:**

access road complies with visibility ordinance.....Yes  ... No

top curb & gutter are existing.....Yes  ... No

drainage control may be needed.....No  ... Yes

setbacks on plot plan are complete.....Yes  ... No

driveway access at co. rd. has (incline decline) over 10%.....No  ... Yes

driveway at road has a good radius.....Yes  ... No

existing culvert is adequate.....Yes  ... No

parking for 5 vehicles on site.....Yes  ... No

co. rd. at driveway access has a grade over 10%.....No  ... Yes

co. rd. at driveway access is paved.....Yes  ... No

existing private road is paved.....Yes  ... No

private drive requires grading permit.....No  ... Yes

**ENVIRONMENTAL HEALTH:**

site has an area 100 x 50' on a slope less than 30% available for leachfield and meets setback reqmts.....Yes  ... No

leachfield area is located more than 100' from a well, stream, or spring.....Yes  ... No

proposed drainfield is located in a marsh or wet area.....No  ... Yes

if this project should be referred to Health Dept.....No  ... Yes

sufficient water available.....Yes  ... No

Notes: \_\_\_\_\_

**ENVIRONMENTAL POLLUTION:**

atmospheric discharge.....No  ... Yes

industrial waste.....No  ... Yes

sewer discharge.....No  ... Yes

environmental impact.....No  ... Yes

**ADJACENT PROPERTY:**

existing buildings not shown on plans.....No  ... Yes

site has private access only.....No  ... Yes

does project fit exist'g general area land use.....Yes  ... No

will the adjoining property use be affected.....No  ... Yes

are there water courses on or off site within 100' of p/l.....No  ... Yes

do the plot plan coincide with the site.....Yes  ... No

ADDITIONAL PRE-SITE NOT REQUIRED 2-11-82 GJ

Owner name Burns, Clara Proj. Loc Parcel no. 308-231-02

County address PO Box 229 Quitman, GA Type const Commercial Phone 405-2273 Date 2/10/82

Person in charge of constr Owner Phone \_\_\_\_\_

County road no Private road name Building name \_\_\_\_\_

Inspectors district 1 2 3 4 5 6 7 Building area 16070 Land use zone Commercial No of stories 1 Est. Proj. Value \$ \_\_\_\_\_

Sense check... Clear  Hold  Addition...  Erect...  Occupancy change...

Water source... Public  Privt  No bedrms...  Demolish...  Alter...  Grading or fill...

Sewage disp... Public  Privt  Repair...  Relocate...  Other...  Mobile Home...  Recd. By JB

Remarks None I attest to the above Signature Applicant's Signature

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FEB 18 1982

HUMBOLDT CO. HEALTH DEPT.

# SUMMARY

## SOIL TEXTURE / SUITABILITY ANALYSIS

Client CINCO MOUNTAINS  
 Address \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Sampled By R. R. H. C.  
 Sample Date 17 Nov 81  
 Water Table ?

County HUMBOLDT  
 A.P. No. \_\_\_\_\_  
 Water Supply  Private  
                    Public  
 Tested By R. R. H. C.  
 Test Date Start 17 Nov 81  
                   Finish 18 Nov 81

| LOT# | TEST SITE# | SAMPLE DEPTH | MOTTLING <sup>1</sup> | PERCENT <sup>2</sup> |       |       | USDA SOIL TEXTURE | BULK DEN. ADJUSTMENT <sup>2</sup> | SUITABILITY ZONE |
|------|------------|--------------|-----------------------|----------------------|-------|-------|-------------------|-----------------------------------|------------------|
|      |            |              |                       | SAND                 | SILT  | CLAY  |                   |                                   |                  |
|      | 1          | 5'           | None                  | 25.4%                | 36%   | 38.6% | CLAY LOAM         |                                   | 4                |
|      | 3          | 5'           | None                  | 27.9%                | 35.6% | 36.5% | CLAY LOAM         |                                   | 4                |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |

<sup>1</sup> : Depth and Extent  
<sup>2</sup> : > 1.7 gm/cc adjusted +15% in clay direction  
       ≤ 1.7 gm/cc no adjustment  
 \* In feet and inches  
<sup>2</sup> Bouyoucos Improved Hydrometer Method

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 HUMBOLDT CO. HEALTH DEPT.  
**WINZLER & KELLY**  
 CONSULTING ENGINEERS

JOB NO. 83-104-A

DATE: 13 Nov 81

WORK SHEET FOR SOIL TEXTURE

PROJECT LOCATION: TABLE BLUFF

A.P.#: \_\_\_\_\_ COUNTY: HUMBOLDT

Sample Number

Depth

A. Oven-dry Weight (gm)

B. Starting Time (hr:min:sec)

C. Temp @ 40 sec. (°F)

D. Hydrometer Reading @ 40 sec. (gm/l)

E. Composite Correction (gm/l)

F. True Density @ 40 sec. (gm/l) (D-E)

G. Temp. @ 2 hrs. (°F)

H. Hydrometer Reading @ 2 hrs. (gm/l) (H-I)

I. Composite Correction (gm/l)

J. True Density @ 2 hrs. (gm/l) (H-I)

K. % Sand =  $100 - [(F-A) \times 100]$

L. % Clay =  $(J/A) \times 100$

M. % Silt =  $100 - (K+L)$

N. USDA Texture

O. Soil Percolation Suitability Chart Zone

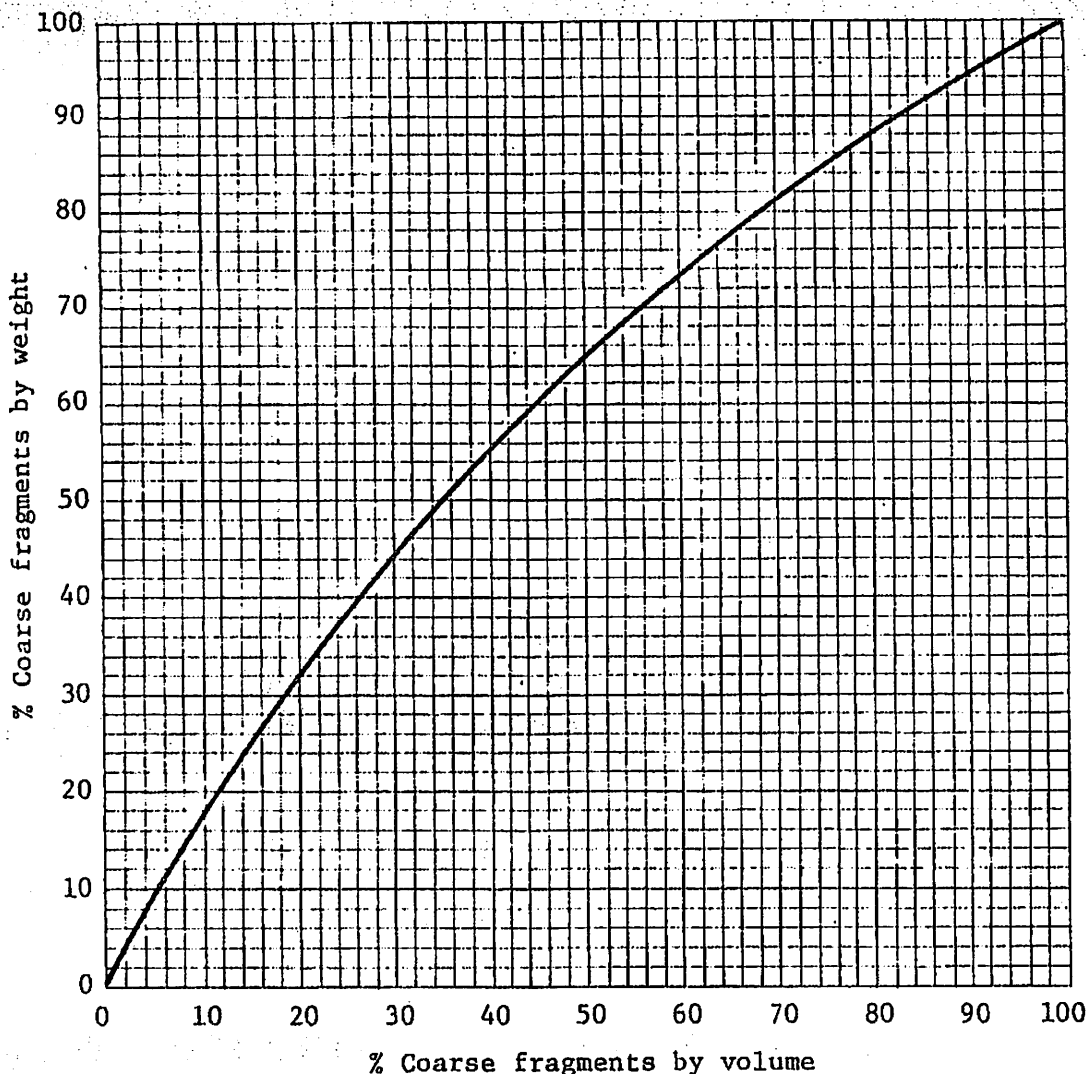
P. Combined % Silt and Clay

| HOLE #1      | HOLE #3      |  |  |
|--------------|--------------|--|--|
| 5'           | 5'           |  |  |
| 50           | 50           |  |  |
| 03:41:00     | 03:43:00     |  |  |
| 67           | 67           |  |  |
| 44           | 44           |  |  |
| -6.7         | -6.7         |  |  |
| 37.3         | 37.3         |  |  |
| 67           | 67           |  |  |
| 26           | 26.2         |  |  |
| -6.7         | -6.7         |  |  |
| 19.3         | 19.5         |  |  |
| 25.4%        | 25.4%        |  |  |
| 38.6%        | 39%          |  |  |
| 36%          | 35.6%        |  |  |
| CLAY<br>LOAM | CLAY<br>LOAM |  |  |
| 4            | 4            |  |  |
| 74.6%        | 74.6%        |  |  |

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COARSE FRAGMENT WEIGHT TO VOLUME  
 CONVERSION CURVE



- A. Total Sample Weight 1000 GM.
- B. Weight >2mm Coarse Fragment 50 GM.
- C. % Coarse Fragment by Weight 5%
- D. % Coarse Frag. by Volume 21%

To convert the amount of coarse fragments from a weight to a volume percentage;

1. Locate the percent, by weight, on the vertical axis.
2. Move horizontally to the right and intersect the conversion curve.
3. Move straight down to the horizontal axis and read percent by volume.

Conversion curve based on the formula:

$$W = \frac{2.7V}{1.5(100-V) + (2.7)} \text{ where}$$

- W= percent coarse fragments, by weight
- V= percent coarse fragments, by volume
- 2.7= average specific gravity of coarse fragments
- 1.5= average bulk-density of soil without coarse fragments

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 CONSULTING ENGINEERS

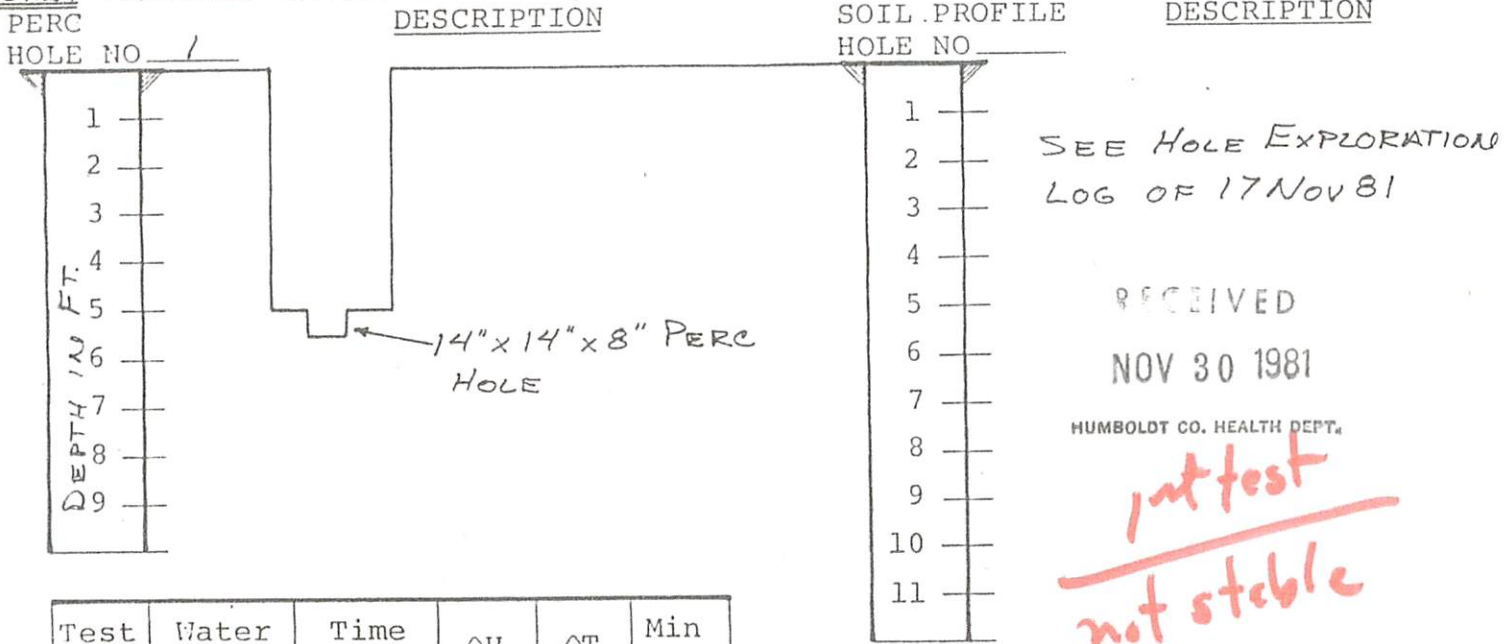
**SOILS PERCOLATION TEST DATA**

Job No. 82-104-A

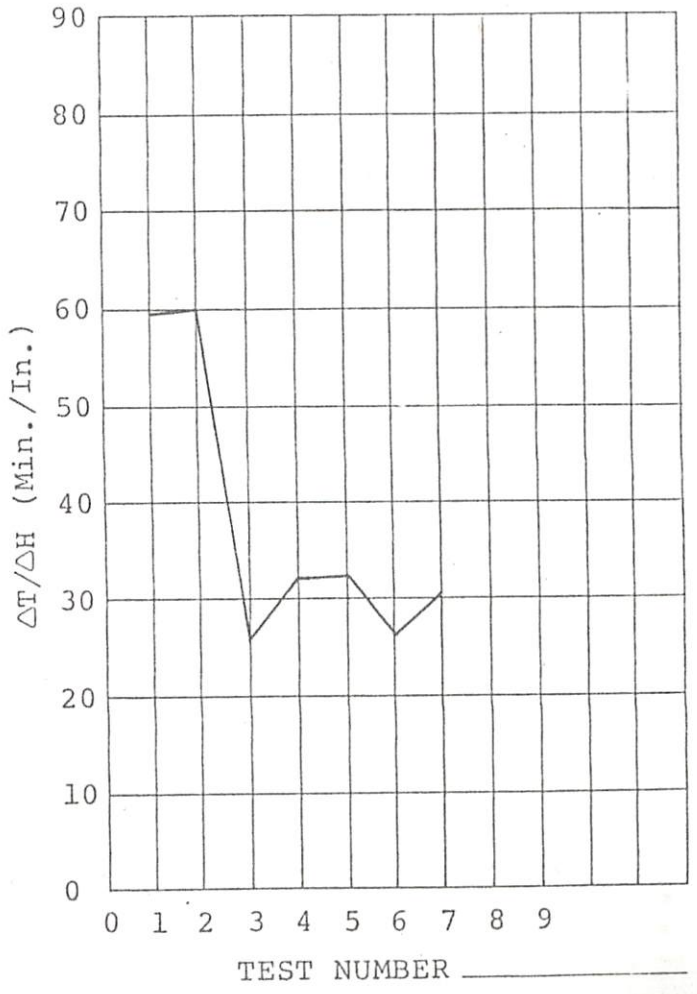
Subject LUNDSFORD PERC TEST A.P. # 308-231-02

Made by RBM/DR. Date 27 Nov 81 Checked by \_\_\_\_\_ Approved by \_\_\_\_\_

NOTE: PRESOAK STARTED 0700, 26 Nov 81 TEST STARTED 0815, 27 Nov 81



| Test No. | Water Depth     | Time     | $\Delta H$ | $\Delta T$ | Min In. |
|----------|-----------------|----------|------------|------------|---------|
| 1        | 6"              | 08:15:07 |            |            |         |
|          | 5.75"           | 08:30:00 | 0.25"      | 00:14:53   | 59.5    |
| 2        | 6"              | 08:30:20 |            |            |         |
|          | 5.75"           | 08:45:20 | 0.25"      | 00:15:00   | 60      |
| 3        | 8"              | 08:46:26 |            |            |         |
|          | 7.5"            | 08:59:20 | 0.5"       | 00:12:54   | 25.8    |
| 4        | 8"              | 08:59:50 |            |            |         |
|          | 7.5"            | 09:15:49 | 0.5"       | 00:15:59   | 31.9    |
| 5        | 8"              | 09:16:09 |            |            |         |
|          | 7.5"            | 09:32:15 | 0.5"       | 00:16:06   | 32.2    |
| 6        | 8"              | 09:32:30 |            |            |         |
|          | 7.5"            | 09:45:29 | 0.5"       | 00:12:59   | 26.0    |
| 7        | 8"              | 09:46:00 |            |            |         |
|          | 7.5"            | 10:01:10 | 0.5"       | 00:15:10   | 30.3    |
| 8        | TEST TERMINATED |          |            |            |         |
| 9        |                 |          |            |            |         |
| 10       |                 |          |            |            |         |





HE PHONED   
I PHONED   
OFFICE VISIT

P. # 308-231-02

ME J. Hanson - T. Wiström

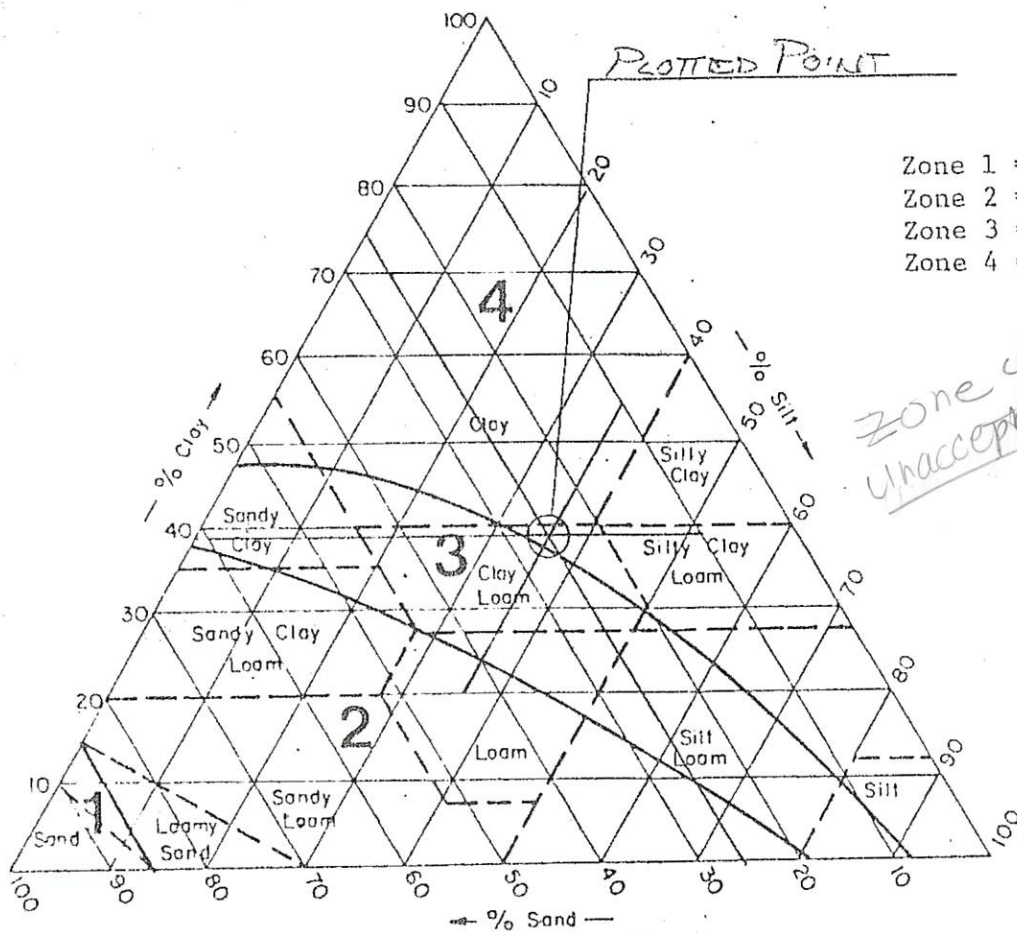
ONE NUMBER \_\_\_\_\_

TE 12/2/81 TIME 0945

a meeting was held in my office  
to review the percolation test results  
submitted on this parcel - the  
variations from our procedures <sup>were</sup>  
discussed including hole size,  
leaking test, measurement  
method. Also reviewed the  
skewed results on hole #4.  
Reviewed profiles, texture  
analysis and observed  
sample of soil. Clark had  
collected. Discussed type of  
soil and location of  
project. The conclusion  
was that the percolation  
tests were not properly  
conducted and should  
be repeated.

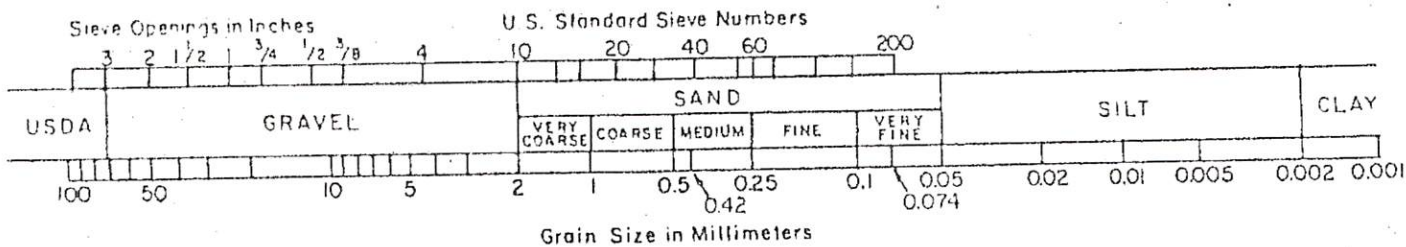


SOIL PERCOLATION SUITABILITY CHART



Zone 1 = Coarse  
 Zone 2 = Acceptable  
 Zone 3 = Marginal  
 Zone 4 = Unacceptable

*Zone 4 Unacceptable*



INSTRUCTIONS

1. Plot texture on triangle based on percent sand, silt, and clay as determined by hydrometer analysis.
2. Adjust for coarse fragments by moving the plotted point in the sand direction an additional 2% for each 10% (by volume) of fragments greater than 2mm in diameter.
3. Adjust for compactness of soil by moving the plotted point in the clay direction an additional 15% for soils having a bulk-density greater than 1.7 gm/cc.

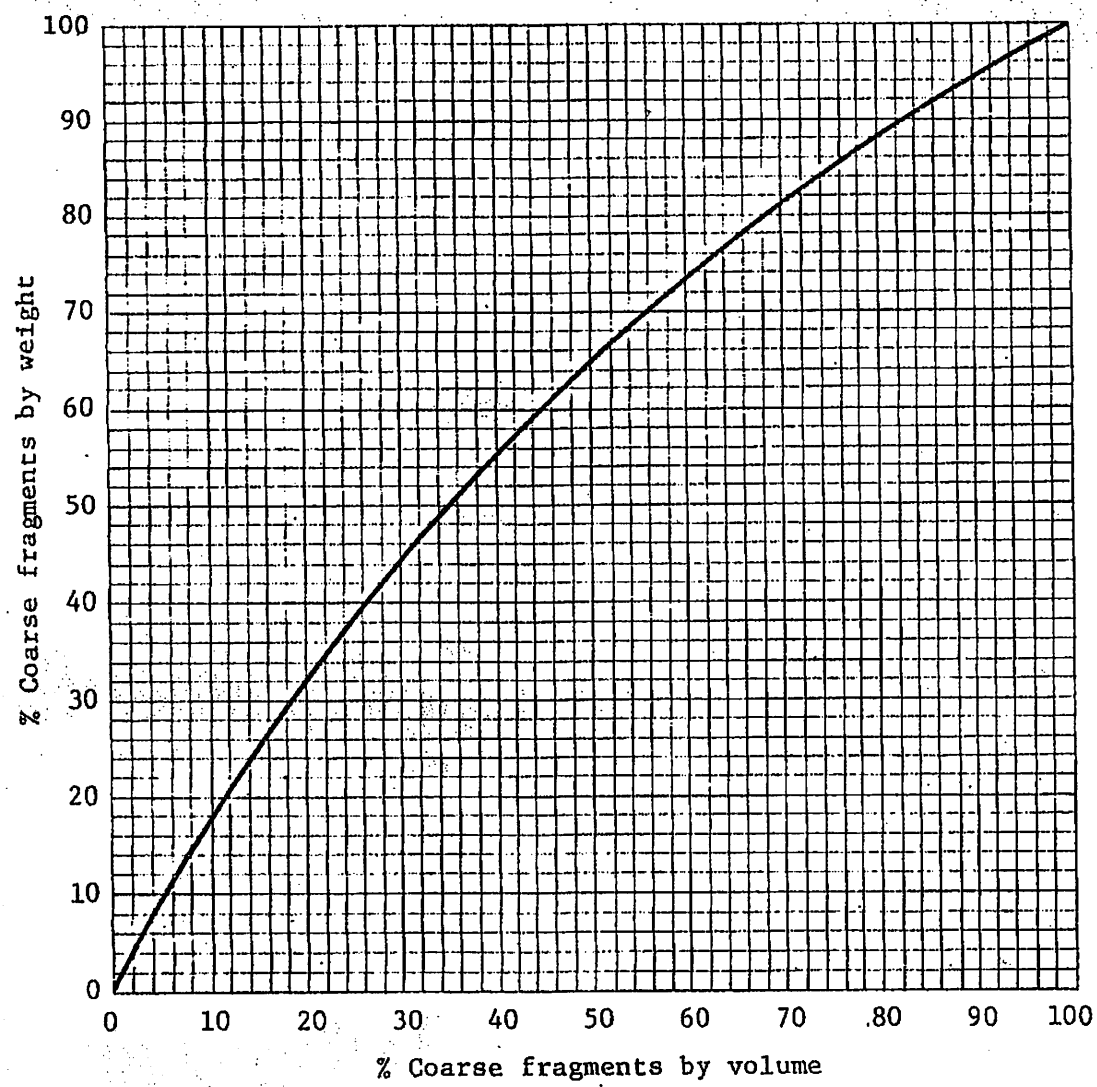
NOTE: FOR SOILS PLOTTING IN SAND, LOAMY SAND OR SANDY LOAM CLASSIFICATIONS BULK DENSITY WILL GENERALLY NOT AFFECT SUITABILITY AND THEREFORE BULK DENSITY ANALYSIS FOR SAMPLES OF THESE USDA TEXTURES WILL NOT BE REQUIRED.

NOV 25 1981

HUMBOLDT CO. HEALTH DEPT.

WINZLER & KELLY  
 CONSULTING ENGINEERS

COARSE FRAGMENT WEIGHT TO VOLUME  
 CONVERSION CURVE



- A. Total Sample Weight 100.5 GM.
- B. Weight >2mm Coarse Fragment 2 GM.
- C. % Coarse Fragment by Weight 2.1%
- D. % Coarse Frag. by Volume 1.2%

To convert the amount of coarse fragments from a weight to a volume percentage;

1. Locate the percent, by weight, on the vertical axis.
2. Move horizontally to the right and intersect the conversion curve.
3. Move straight down to the horizontal axis and read percent by volume.

Conversion curve based on the formula:

$$W = \frac{2.7V}{1.5(100-V) + (2.7)} \text{ where}$$

- W= percent coarse fragments, by weight
- V= percent coarse fragments, by volume
- 2.7= average specific gravity of coarse fragments
- 1.5= average bulk-density of soil without coarse fragments

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WINZLER & KELLY  
 CONSULTING ENGINEERS

# COUNTY OF HUMBOLDT

## PERMIT APPLICATION & SITE INVESTIGATION FORM

*Health*

Examine site for field insp. rec'd date \_\_\_\_\_ Preconst Grdg. Applic. ...  
Completed Date \_\_\_\_\_

**RE-CONSTRUCTION:**

|   |   |                                   |
|---|---|-----------------------------------|
| Site has obvious fill.....                              | POS. No <input checked="" type="checkbox"/> | NEG. Yes <input type="checkbox"/> |
| Does material appear to be expansive.....               | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Site is on land with slope greater than 15%.....        | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Key map is required for locating site.....              | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Grd'g permit is req'd for proj. (est. Over 50 yds)..... | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Site has natural water course.....                      | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Site has good surface drainage.....                     | Yes <input checked="" type="checkbox"/>     | No <input type="checkbox"/>       |
| Contours are required for clarification.....            | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Site req's engr. for the proj. (exp. below).....        | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |
| Improved road section at site is 40ft. or more.....     | Yes <input checked="" type="checkbox"/>     | No <input type="checkbox"/>       |
| Other problems exist (explain below).....               | No <input checked="" type="checkbox"/>      | Yes <input type="checkbox"/>      |

**ROAD ENCROACHMENT: \*DRIVE NOT SHOWN ON PLOT PLAN**

|   |  |  |
|---|--|--|
| Access road complies with visibility ordinance.....         | Yes <input type="checkbox"/>           | No <input checked="" type="checkbox"/> |
| Drop curb & gutter are existing.....                        | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Gutter control may be needed.....                           | No <input type="checkbox"/>            | Yes <input type="checkbox"/>           |
| Details on plot plan are complete.....                      | Yes <input type="checkbox"/>           | No <input checked="" type="checkbox"/> |
| Dr'wy access at co. rd. has (incline decline) over 10%..... | No <input checked="" type="checkbox"/> | Yes <input type="checkbox"/>           |
| Drive at road has a good radius.....                        | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Existing culvert is adequate.....                           | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Parking for 5 vehicles on site.....                         | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Co. rd. at driveway access has a grade over 10%.....        | No <input type="checkbox"/>            | Yes <input type="checkbox"/>           |
| Co. rd. at driveway access is paved.....                    | Yes <input type="checkbox"/>           | No <input type="checkbox"/>            |
| Existing private road is paved.....                         | Yes <input type="checkbox"/>           | No <input checked="" type="checkbox"/> |
| Private drive requires grading permit.....                  | No <input type="checkbox"/>            | Yes <input type="checkbox"/>           |

**VIRONMENTAL HEALTH:**

|  |   |   |
|--|---|---|
| Site has good drainfield location.....           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |
| Site has good reserve drainfield loc.....        | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |
| Site has service pump access to septic tank..... | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |
| Percolation tests should be performed.....       | No <input type="checkbox"/>             | Yes <input checked="" type="checkbox"/> |
| Soil engineering is recommended.....             | No <input type="checkbox"/>             | Yes <input checked="" type="checkbox"/> |
| Water source is feasible.....                    | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/>  |
| Other problems exist (explain below).....        | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/>            |

**VIRONMENTAL POLLUTION:**

|                            |                             |                              |
|----------------------------|-----------------------------|------------------------------|
| Atmospheric discharge..... | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Industrial waste.....      | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Water discharge.....       | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Environmental impact.....  | No <input type="checkbox"/> | Yes <input type="checkbox"/> |

**ANNING:**

|   |   |   |
|---|---|---|
| Existing buildings not shown on plans.....          | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/>            |
| Site has private access only (existg) (new).....    | No <input checked="" type="checkbox"/>  | Yes <input type="checkbox"/>            |
| Does proj. fit exist'g general area land use.....   | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/>  |
| Is the proj. a change in exist'g site land use..... | No <input type="checkbox"/>             | Yes <input checked="" type="checkbox"/> |
| Does the plot plan coincide with the site.....      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |

**GENERAL SITE DESCRIPTION:** *CURRENT USE IS OPEN PASTURE LAND WITH SLOPE OF -3%. \* HIGH WIND AREA. \* INCOASTAL ZONE. 11-6-81 GA*

Project address: *40140 83rd Avenue*  
 Parcel No.: *3081 9210*  
 Date: *11-4-81*  
 Proposed use of property: *COMMERCIAL USE*  
 Building name: *BOARD*  
 Building area: *8040*  
 No. of stories: \_\_\_\_\_  
 Addition:  Erect...  Alter...  
 Demolish:  Other:   
 Land use zone: \_\_\_\_\_  
 Fire zone: \_\_\_\_\_  
 Occupancy change: \_\_\_\_\_  
 Grading or fill: \_\_\_\_\_  
 Mobile home: \_\_\_\_\_  
 Recd. By: *[Signature]*

Applicant's Signature: *[Signature]*

RECEIVED NOV 10 1981 HUMBOLDT CO. HEALTH DEPT.

Jeff

This is very interesting  
why when 8" depth was  
used per note dropped

I wonder how many holes  
8" deep could influence note  
Maybe 8" is not better when  
air soil interface is near  
testing level

# WINZLER & KELLY

633 Third Street/P.O. Box 1345/Eureka, CA 95501/707-443-8326

Refer to: 82-104-A

November 30, 1981

Jeff Arnold  
Humboldt County Public  
Health Department  
Environmental Health  
529 I Street  
Eureka, California 95501

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NOV 30 1981

HUMBOLDT CO. HEALTH DEPT.

Subject: Percolation Test for Cisco Lundsford - A.P.# 308-231-02

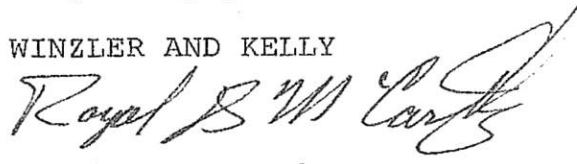
Dear Jeff:

On Friday, November 27, 1981 I conducted a percolation test on A.P.# 308-231-02, a parcel of land on Table Bluff. The holes were not perked under wet weather requirements as per our discussion on November 25, 1981. The test holes were continuously presoaked for 25 hours prior to the start of the test. Hole number one perked at a stabilized rate of 32 min/in. Hole number two perked at a stabilized rate of 31 min/in. Copies of the tests are included.

If you have any questions about the test, please call.

Very truly yours,

WINZLER AND KELLY

  
Royal B. McCarthy

RBM:ls



GROUP CONSULTING ENGINEERS

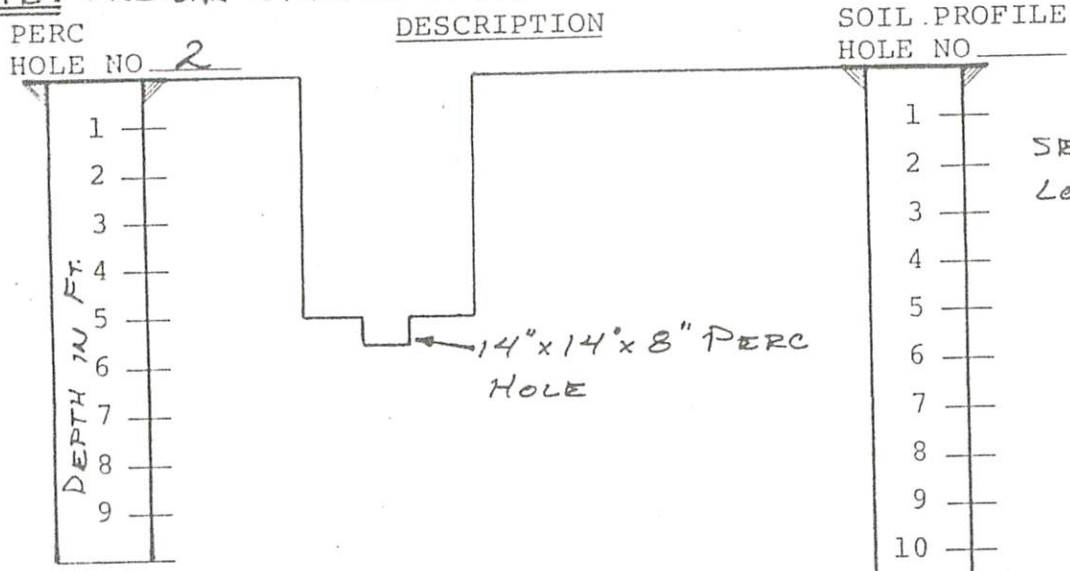
SOILS PERCOLATION TEST DATA

Job No. 82-104-A

Subject LUNDSFORD PERC TEST A.P.# 308-231-02

Made by RBM/D.R. Date 27 Nov 81 Checked by \_\_\_\_\_ Approved by \_\_\_\_\_

NOTE: PRESOAK STARTED 0700, 26 Nov 81 TEST STARTED 0816, 27 Nov 81

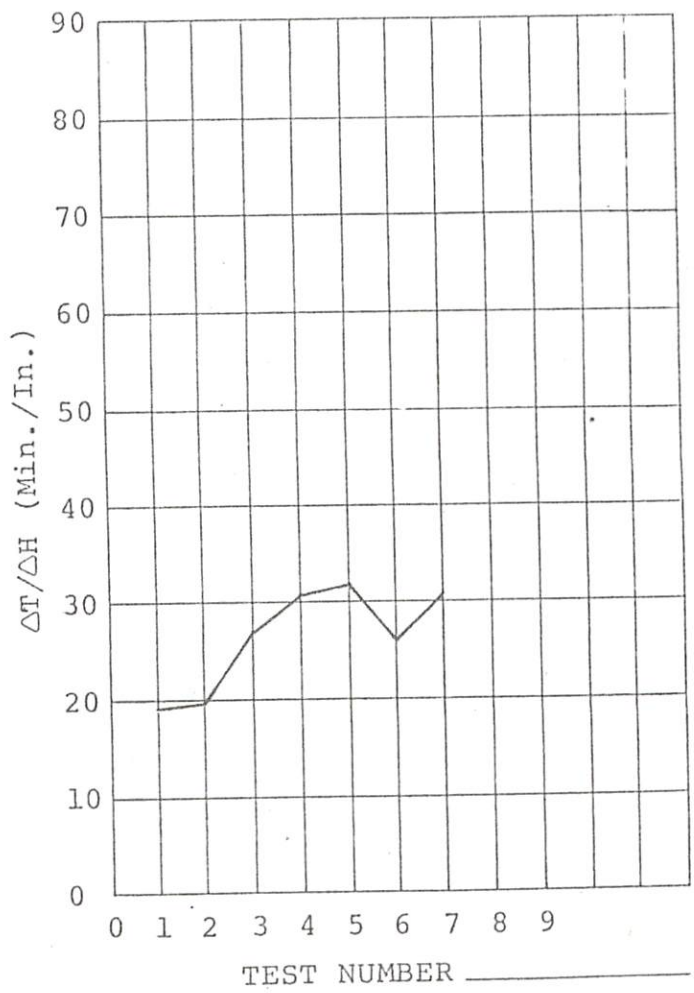


SEE HOLE #3 EXPLORATION LOG OF 17 Nov 81

RECEIVED  
NOV 30 1981  
HUMBOLDT CO. HEALTH DEPT.

*1st test not stable*

| Test No. | Water Depth     | Time     | $\Delta H$ | $\Delta T$ | Min In. |
|----------|-----------------|----------|------------|------------|---------|
| 1        | 8"              | 08:16:30 |            |            |         |
|          | 7.25"           | 08:30:40 | 0.75"      | 00:14:10   | 18.9    |
| 2        | 8"              | 08:31:18 |            |            |         |
|          | 7.25"           | 08:46:15 | 0.75"      | 00:14:58   | 19.7    |
| 3        | 8"              | 08:46:30 |            |            |         |
|          | 7.5"            | 09:00:00 | 0.5"       | 00:13:30   | 27.0    |
| 4        | 8"              | 09:01:00 |            |            |         |
|          | 7.5"            | 09:16:20 | 0.5"       | 00:15:20   | 30.7    |
| 5        | 8"              | 09:16:59 |            |            |         |
|          | 7.5"            | 09:32:50 | 0.5"       | 00:15:51   | 31.7    |
| 6        | 8"              | 09:33:00 |            |            |         |
|          | 7.5"            | 09:46:00 | 0.5"       | 00:13:00   | 26.0    |
| 7        | 8"              | 09:46:40 |            |            |         |
|          | 7.5"            | 10:01:50 | 0.5"       | 00:15:10   | 30.3    |
| 8        | TEST TERMINATED |          |            |            |         |
| 9        |                 |          |            |            |         |
| 10       |                 |          |            |            |         |



44 101 an Yaceta EXLT, an  
Elle KURT DR, RT an  
TAMM, Bluff Rd, left  
an HAWKES ROAD Rd.

RECEIVED

NOV 10 1981

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EXPLORATION HOLE LOG

PROJECT NAME LUNDSTORF TUNNEL PROJECT NO 82-104A DATE 17 Nov 81  
 COUNTY HUMBOLDT AP# 309-231-02 SLOPE <3% ASPECT \_\_\_\_\_  
 HOLE # 1 HOLE DIAMETER \_\_\_\_\_ DRILL RIG BACK HOE SAMPLER HAND  
 HOLE ELEV \_\_\_\_\_ GROUNDWATER LEVEL 9' QUANTITY \_\_\_\_\_ LOGGED BY RJH/HC

| SOIL DESCRIPTION              |       |                |                      | SOIL TYPE | DEPTH         | JARS | SACKS | SAMPLES |             |       |            |  |
|-------------------------------|-------|----------------|----------------------|-----------|---------------|------|-------|---------|-------------|-------|------------|--|
| DESCRIPTION AND REMARKS       | COLOR | MOIST          | CONSIST              |           |               |      |       | NO.     | SPLIT SPOON | SHELB | BLOWS/ FT. |  |
| <u>DARK BROWN TOPSOIL</u>     |       | <u>DAMP</u>    | <u>FUFFY</u>         |           | <u>1'</u>     |      |       |         |             |       |            |  |
| <u>RED BROWN CLAY LOAM</u>    |       | <u>DAMP</u>    | <u>CRUMBLY</u>       |           | <u>2'</u>     |      |       |         |             |       |            |  |
|                               |       |                |                      |           | <u>3'</u>     |      |       |         |             |       |            |  |
|                               |       |                |                      |           | <u>4'</u>     |      |       |         |             |       |            |  |
|                               |       |                |                      |           | <u>5'</u>     |      |       |         |             |       |            |  |
|                               |       |                |                      |           | <u>6'</u>     |      |       |         |             |       |            |  |
| <u>ORANGE BROWN CLAY LOAM</u> |       | <u>MOIST</u>   | <u>COR-SOLIDATED</u> |           | <u>7'</u>     |      |       |         |             |       |            |  |
|                               |       | <u>MOTTLED</u> |                      |           | <u>8'</u>     |      |       |         |             |       |            |  |
|                               |       | <u>WET</u>     |                      |           | <u>9'</u>     |      |       |         |             |       |            |  |
|                               |       |                |                      |           | <u>9 1/2'</u> |      |       |         |             |       |            |  |
| <u>HOLE TERMINATED</u>        |       |                |                      |           |               |      |       |         |             |       |            |  |



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EXPLORATION HOLE LOG

PROJECT NAME LUNDSTROM TOILS PROJECT NO 82-104-A DATE 17 Nov 81  
 COUNTY HUMBOLDT AP# 308-231-02 SLOPE < 3% ASPECT \_\_\_\_\_  
 HOLE # 3 HOLE DIAMETER \_\_\_\_\_ DRILL RIG BackHoe SAMPLER HAND  
 HOLE ELEV \_\_\_\_\_ GROUNDWATER LEVEL 8'-9' QUANTITY \_\_\_\_\_ LOGGED BY R. Mill

| SOIL DESCRIPTION             |       |              |                       | SOIL TYPE | DEPTH                    | JARS | SACKS | SAMPLES |             |       |               |
|------------------------------|-------|--------------|-----------------------|-----------|--------------------------|------|-------|---------|-------------|-------|---------------|
| DESCRIPTION AND REMARKS      | COLOR | MOIST        | CONSIST               |           |                          |      |       | NO.     | SPLIT SPOON | SHELB | BLOWS/<br>FT. |
| <u>DARK BROWN TOPSOIL</u>    |       | <u>DAMP</u>  | <u>FUFFY</u>          |           | <u>1</u><br><del>X</del> |      |       |         |             |       |               |
|                              |       |              |                       |           | <u>2</u>                 |      |       |         |             |       |               |
|                              |       |              |                       |           | <u>3</u>                 |      |       |         |             |       |               |
| <u>BROWN CLAY LOAM</u>       |       | <u>DAMP</u>  | <u>CRUMBLY</u>        |           | <u>4</u>                 |      |       |         |             |       |               |
|                              |       |              |                       |           | <u>5</u>                 |      |       |         | X           |       |               |
|                              |       |              |                       |           | <u>6</u>                 |      |       |         |             |       |               |
|                              |       |              |                       |           | <u>7</u>                 |      |       |         |             |       |               |
| <u>BROWN SANDY CLAY LOAM</u> |       | <u>MOIST</u> | <u>CONS-SOLIDATED</u> |           | <u>8</u>                 |      |       |         |             |       |               |
|                              |       |              |                       |           | <u>9</u>                 |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |
|                              |       |              |                       |           |                          |      |       |         |             |       |               |

WATER SEEPAGE →

WET

HOLE TERMINATED

3' ↑  
 water unless  
 water unusable

←  
 water

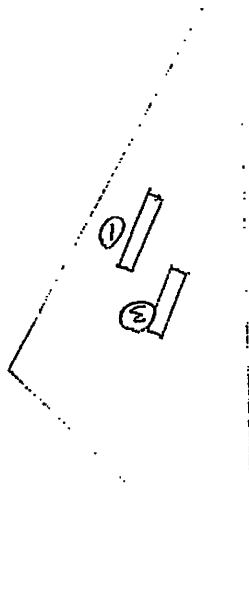
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 HUMBOLDT CO. HEALTH DEPT.

RUSSELBOLDT CO. HEALTH DEPT.

NOV 25 1981

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8 Dec 81  
Locations noted on  
plot plus  
absorptions  
gd



APPLICATION FOR INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT

Application is hereby made to the Humboldt County Health Officer for a permit to construct or repair a sewage disposal system as described below in compliance with the laws and standards of Humboldt County and the State of California.

Owner's Name CISCO Lunsford

Mailing Address P O Box 239

City Holota, Ca. 95551 Telephone # \_\_\_\_\_

Installer \_\_\_\_\_

Assessor's Parcel No. 308-231-02

General Area Hawkas Hill Rd. off  
Tavern Bluff Rd.

Previous Application: New System  Repair   
YES  NO  Existing System

Installation will serve: Residence  Commercial   
Multiple Housing  Mobilehome Park  Mobilehome

Other  - Specify: \_\_\_\_\_

|              |   |                                 |   |                       |                              |                             |                  |      |              |   |                 |     |              |    |
|--------------|---|---------------------------------|---|-----------------------|------------------------------|-----------------------------|------------------|------|--------------|---|-----------------|-----|--------------|----|
| No. of Units | 1 | No. of Rooms Usable as Bedrooms | 3 | Garbage Disposal Unit | YES <input type="checkbox"/> | NO <input type="checkbox"/> | Septic Tank Size | 1800 | No. of Lines | 6 | Length of Lines | 50' | Trench Depth | 3' |
|--------------|---|---------------------------------|---|-----------------------|------------------------------|-----------------------------|------------------|------|--------------|---|-----------------|-----|--------------|----|

Water Supply: Lot Size:  
Private  Public  873' X 600'

I agree to obtain inspection of installation prior to covering.  
 I agree to construct this disposal system in accordance with all of the provisions of county and state law.

It is understood that the issuance of a permit in no way indicates that a guarantee of perfect and indefinite operation of this system is made by the Humboldt County Health Department.

Signature Cisco Lunsford

Date 11-4-81 Owner  Owner's Agent

HUMBOLDT COUNTY HEALTH DEPARTMENT  
 Division of Environmental Health  
 529 "I" St., Eureka, CA 95501 445-7613

|                    |              |              |                          |
|--------------------|--------------|--------------|--------------------------|
| Legal Conformance  | Fee          | Receipt No.  | Permit No.               |
| <u>gd 9 Dec 81</u> | <u>10.00</u> | <u>41290</u> | A.P. # <u>308-231-02</u> |

On attached sheet, applicant is to draw TO SCALE the appropriate septic tank system, location on property, and all pertinent setbacks.

DETAILED DIRECTIONS TO PARCEL: off 101 on Holota exit, on  
Ell River Dr, right on Tavern Bluff  
Rd, left on Hawkas Hill Rd.

NOTE: WAIVER GRANTED TO START OF WINTER TIME PERCOLATION TESTING PERIOD, TESTS DONE PRIOR TO 1 January 1982

RECEIVED  
NOV 10 1981  
HUMBOLDT CO. HEALTH DEPT.

**IMPORTANT: 24 HOUR NOTICE REQUIRED BEFORE FINAL INSPECTION**

Layout Plan Prepared by \_\_\_\_\_ Date \_\_\_\_\_

**IMPORTANT:** Any deviation in construction from the above plan must have prior approval in writing by the Health Department.

HEALTH DEPARTMENT USE ONLY

Layout Plan Approved By James W. Clark Date 12-8-81

Construction Approved By Richard A. Sherman RS Date 11/24/82

Expiration Date of Permit 9 Dec 82

**WHEN VALIDATED, THIS IS YOUR PERMIT.**



HUMBOLDT-DEL NORTE COUNTY  
DEPARTMENT OF PUBLIC HEALTH



727 CEDAR STREET  
GARBERVILLE, CA. 95440  
923-2779

MAIN OFFICE  
529 I STREET  
EUREKA, CA. 95501  
445-7584

909 HWY. 101, NORTH  
CRESCENT CITY, CA. 95531  
464-7478

December 24, 1981

Ms. Teresa Wistrom  
North Coast Regional Water Quality Control Board  
1000 Coddington Center  
Santa Rosa, CA 95401

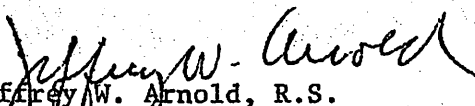
RE: Lunsford A.P. #308-231-02

Dear Teresa,

Attached please find the results of the soil texture analysis you recently requested for the referenced project. Please contact me if you have any questions.

Sincerely,

Paul W. Anderson, M.D., M.P.H.  
Director and Health Officer

  
Jeffrey W. Arnold, R.S.  
Director of Environmental Health

JWA/jf

Enc.

# SOIL TEXTURE / SUITABILITY ANALYSIS

Client CRS CONSULTANTS

Address \_\_\_\_\_

Phone \_\_\_\_\_

Sampled By J.M.H.

Sample Date 17 Nov 81

Water Table 9'

County HUMBOLDT

A.P. No. \_\_\_\_\_

Water Supply  Private

Public

Tested By R.B.H.

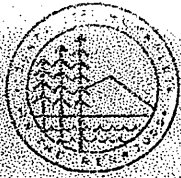
Test Date Start 17 Nov 81

Finish 18 Nov 81

| LOT# | TEST SITE# | SAMPLE DEPTH | MOTTLING <sup>1</sup> | PERCENT <sup>∇</sup> |       |       | USDA SOIL TEXTURE | BULK DEN. ADJUSTMENT <sup>2</sup> | SUITABILITY ZONE |
|------|------------|--------------|-----------------------|----------------------|-------|-------|-------------------|-----------------------------------|------------------|
|      |            |              |                       | SAND                 | SILT  | CLAY  |                   |                                   |                  |
|      | 1          | 5'           | None                  | 25.4%                | 36%   | 38.6% | CLAY LOAM         |                                   | 4                |
|      | 3          | 5'           | None                  | 25.4%                | 35.6% | 39%   | CLAY LOAM         |                                   | 4                |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |
|      |            |              |                       |                      |       |       |                   |                                   |                  |

<sup>1</sup> : Depth and Extent  
<sup>2</sup> : > 1.7 gm/cc adjusted +15% in clay direction  
       ≤ 1.7 gm/cc no. adjustment  
 \* In feet and inches  
<sup>∇</sup> Bouyoucos Improved Hydrometer Method

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**NOV 25 1981**  
 HUMBOLDT CO. HEALTH DEPT.  
**WINZLER & KELL**  
 CONSULTING ENGINEER.



HUMBOLDT-DEL NORTE COUNTY  
DEPARTMENT OF PUBLIC HEALTH



727 CEDAR STREET  
GARBERVILLE, CA. 95440  
923-3112

MAIN OFFICE  
529 I STREET  
EUREKA, CA. 95501  
445-7584

909 HWY. 101, NORTH  
CRESCENT CITY, CA. 95531  
464-4011

December 15, 1981

Ms. Teresa Wistrom  
North Coast Regional Water Quality Control Board  
1000 Coddington Center  
Santa Rosa, CA 95401

RE: 308-231-02, Lunsford

Dear Teresa,

A waiver of the wet weather testing requirement for the referenced project was granted by this office. The waiver was granted after determining that water quality would not be impaired or public health threatened. The factors leading to this determination were the amount of rainfall that has fallen this season combined with a continuous twenty-four hour pre-soak of the holes to be tested. Testing procedures as well as the results of the percolation tests are on the attached sheets.

Should you have any questions, please contact the undersigned.

Sincerely,

Paul W. Anderson, M.D., M.P.H.  
Director and Health Officer

  
Jeffrey W. Arnold, R.S.  
Director of Environmental Health

JWA/jf

Enc.

HUMBOLDT COUNTY HEALTH DEPARTMENT  
SEWAGE DISPOSAL SYSTEM APPLICATION CHECK LIST

Sanitarian gd  
Date 8 Dec 81

NAME Lunsford AP# 308-231-02  
LOCATION table bluff CONSULTANT w/k- Reed

Check if yes

Sewered area  Moratorium  Waiver Prohibition area  Winter Water   
table area

Slopes 5-10 % Building 5+ Ft  
Perennial Stream n/a ft Property line 50+ Ft put well  
Ephemeral Stream n/a ft Swimming Pool n/a Ft  
Cut Banks n/a Ft (Mark N/A if not applicable)

Soil Profiles

bottom of profiles - 17 Nov 81 11.33 total Rainfall  
Depth of soil below/trench 3+ ft (Must be 5' on ground greater than 20% Slope  
3' on ground less than 20% slope)  
Actual Water Observed Yes  No  Depth of Water 8 Ft \*3  
Mottling observed Yes  No  Depth of Mottling 8 Ft \*1

Soils Analysis

note: total depth of trench - 5'

Primary Field

waiver to water unless water unusable  
9 Dec 81 - 92 sec water unusable  
94

| Hole #                   | Depth | Bulk den | Sample depth | Result | %Clay | %Silt | %Sand |
|--------------------------|-------|----------|--------------|--------|-------|-------|-------|
| 1                        | 9.5   | not done | 5            | 4      | 38.6  | 36    | 25.4  |
|                          |       |          |              |        |       |       |       |
|                          |       |          |              |        |       |       |       |
| soils Logged 9 Dec 81/gd |       |          |              |        |       |       |       |
| Reserve Field            |       |          |              |        |       |       |       |
| 3                        | 9     | not done | 5            | 4      | 39.0  | 35.6  | 25.4  |
|                          |       |          |              |        |       |       |       |
|                          |       |          |              |        |       |       |       |

Percolation tests

25hr Presoak + saturation - Dec 4/81 - tests Dec 5/81

Primary Field

| Hole # | Depth | Rate |
|--------|-------|------|
| 1      | 4     | 10.9 |
|        |       |      |

Reserve Area

| Hole # | Depth | Rate  |
|--------|-------|-------|
| 3      | 4     | 26.64 |
|        |       |       |

waiver granted to 1 Jan 82 wint. test start.



# WINZLER & KELLY

633 Third Street/P.O. Box 1345/Eureka, CA 95501/707-443-8326

Refer to: 82-104-A

December 7, 1981

Jeff Arnold  
Humboldt County Public  
Health Department  
Environmental Health  
529 I Street  
Eureka, California 95501

Subject: Percolation Test for Cisco Lundsford - A.P.# 308-231-02

Dear Jeff:

On Saturday, December 5, 1981, I conducted a percolation test on A.P.# 308-231-02, a parcel of land on Table Bluff. The holes were not perked under wet weather requirements as per our discussion on November 25, 1981. The test holes were continuously presoaked for 25 hours prior to the start of the test. Hole number one perked at a stabilized rate of 11 min/in. Hole number three perked at a stabilized rate of 27 min/in. Copies of the tests are included.

If you have any questions about the test, please call.

Very truly yours,

WINZLER AND KELLY

  
Royal B. McCarthy

RBM:bl

RECEIVED  
DEC 08 1981  
HUMBOLDT CO. HEALTH DEPT.

 GROUP CONSULTING ENGINEERS

**SOILS PERCOLATION TEST DATA**

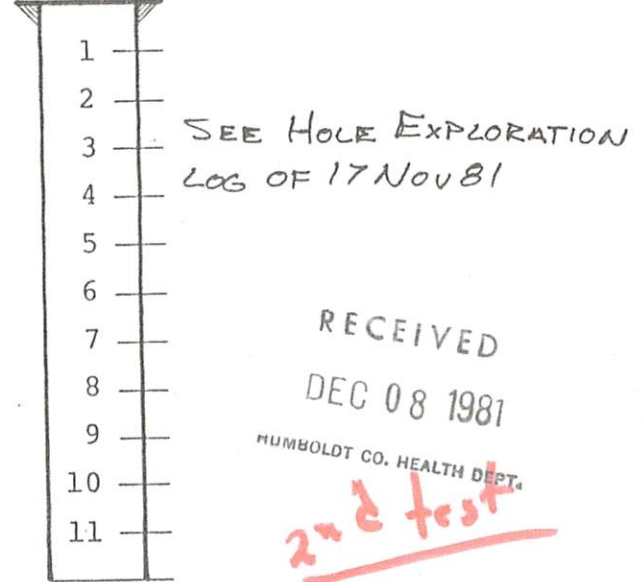
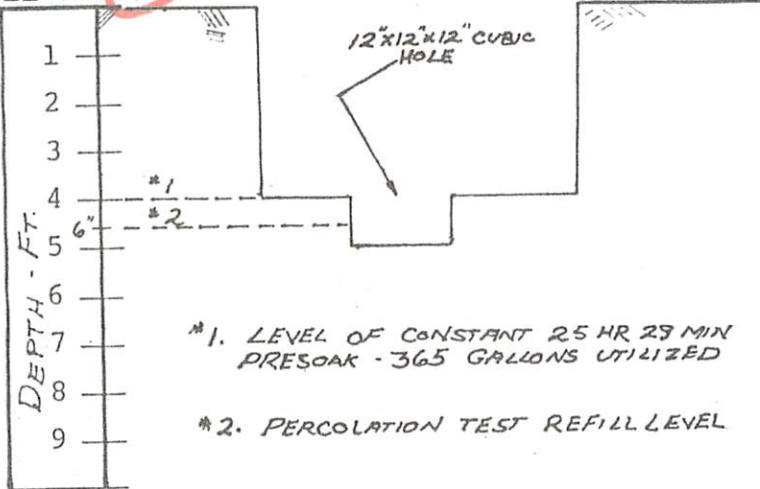
Subject UNDEVELOPED PERCOLATION TESTS AP# 308-231-02

Made by RBME/DCP Date 5 DEC 81 Checked by RBME Approved by DCP

NOTE: PRESOAK STARTED 0650, 4 DEC 81 TEST STARTED: 0819, 5 DEC 81

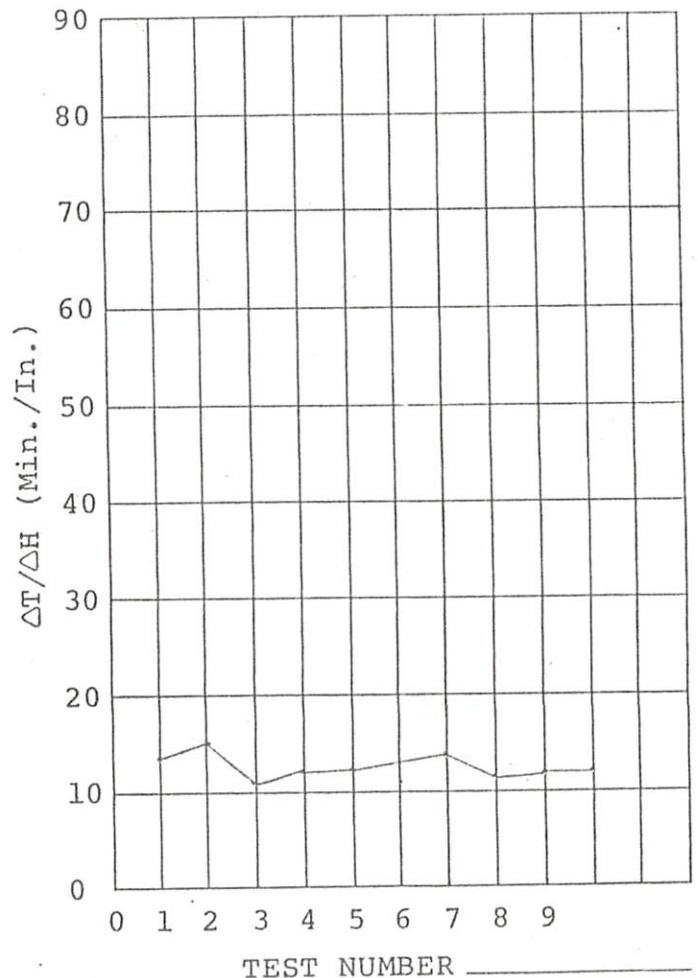
PERC HOLE NO. 1 DESCRIPTION

SOIL PROFILE HOLE NO. DESCRIPTION



| Test No. | Water Depth (Inches) | Time (H:MM) | $\Delta H$ (In.) | $\Delta T$ (Min) | Min In. |
|----------|----------------------|-------------|------------------|------------------|---------|
| 1        | 6"                   | 0819        |                  |                  |         |
|          | 4 7/8                | 34          | 1.125            | 15               | 13.33   |
| 2        | 4 7/8                | 34          |                  |                  |         |
|          | 3 7/8                | 49          | 1.000            | 15               | 15.00   |
| 3        | 6"                   | 49          |                  |                  |         |
|          | 4 5/8                | 04          | 1.375            | 15               | 10.91   |
| 4        | 4 5/8                | 04          |                  |                  |         |
|          | 3 3/4                | 19          | 1.250            | 15               | 12.00   |
| 5        | 6"                   | 19          |                  |                  |         |
|          | 4 3/4                | 34          | 1.250            | 15               | 12.00   |
| 6        | 4 3/4                | 34          |                  |                  |         |
|          | 3 3/4                | 49          | 1.375            | 15               | 10.91   |
| 7        | 6"                   | 49          |                  |                  |         |
|          | 4 1/2                | 1004        | 1.188            | 15               | 12.63   |
| 8        | 4 1/2                | 04          |                  |                  |         |
|          | 3 1/2                | 19          | 1.313            | 15               | 11.42   |
| 9        | 6"                   | 19          |                  |                  |         |
|          | 4 5/8                | 34          | 1.375            | 15               | 10.91   |
| 10       | 4 5/8                | 34          |                  |                  |         |
|          | 3 1/4                | 49          | 1.375            | 15               | 10.91   |

☑ INDICATES REFILL



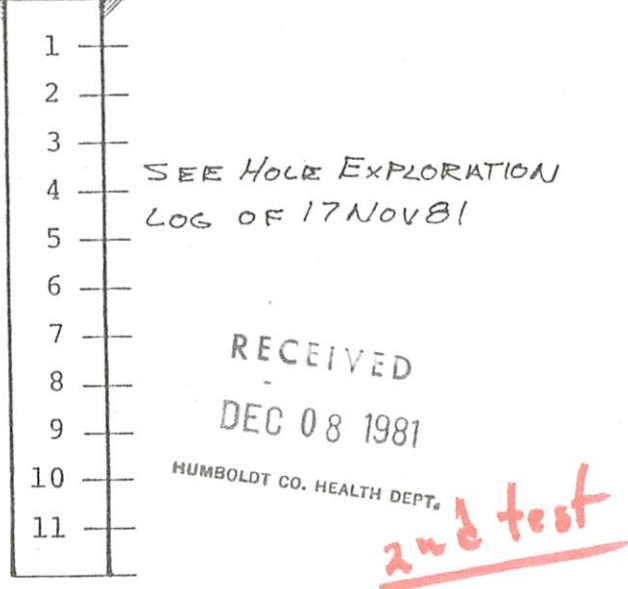
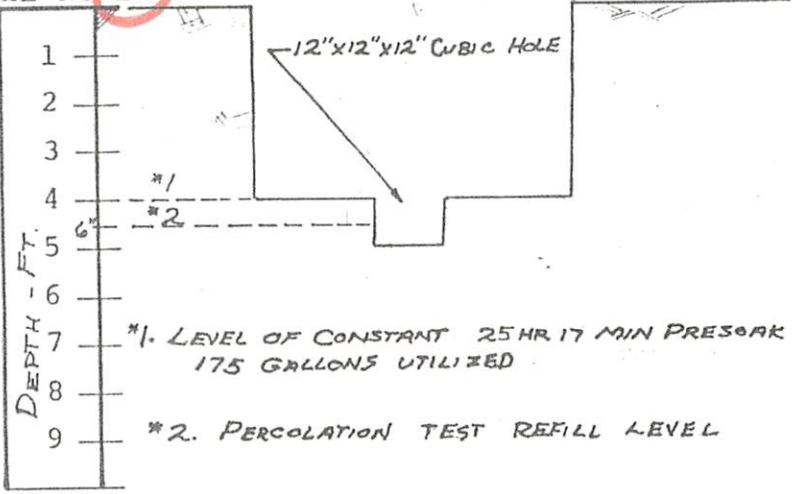
**SOILS PERCOLATION TEST DATA**

Job No. 82-104

Subject Lundsgaard TESTS AP# 308-231-02

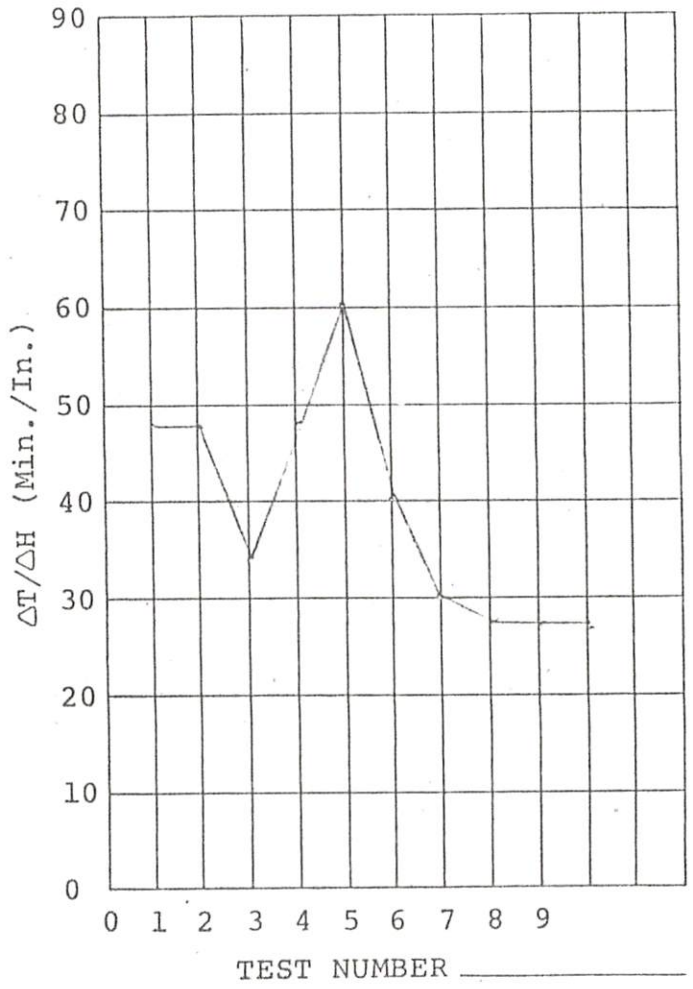
Made by RRM/PCR Date 5 DEC 81 Checked by RRM Approved by PCR

NOTE: PRESOAK STARTED 0656, 4 DEC 81 TEST STARTED 0813, 5 DEC 81  
PERC DESCRIPTION SOIL PROFILE DESCRIPTION  
HOLE NO. 3 HOLE NO.



| Test No. | Water Depth | Time  | $\Delta H$ | $\Delta T$ | Min In. |
|----------|-------------|-------|------------|------------|---------|
| 1        | P/G         | 0813  |            |            |         |
|          | 5 1/8       | 23    | 0.313      | 15         | 47.92   |
| 2        | 5 1/8       | 23    |            |            |         |
|          | 5 3/8       | 42    | 0.313      | 15         | 47.92   |
| 3        | 5 3/8       | 43    |            |            |         |
|          | 1 1/8       | 52    | 0.438      | 15         | 34.25   |
| 4        | 4 1/8       | 58    |            |            |         |
|          | 1 1/8       | 2912  | 0.313      | 15         | 47.92   |
| 5        | 4 3/8       | 13    |            |            |         |
|          | 4 3/8       | 28    | 0.250      | 15         | 60.00   |
| 6        | P/G         | 28    |            |            |         |
|          | 5 3/8       | 43    | 0.375      | 15         | 40.00   |
| 7        | 5 1/8       | 43    |            |            |         |
|          | 5 1/8       | 58    | 0.500      | 15         | 30.00   |
| 8        | 5 1/8       | 58    |            |            |         |
|          | 4 3/8       | 10 13 | 0.563      | 15         | 26.67   |
| 9        | 1 3/8       | 13    |            |            |         |
|          | 2.0         | 22    | 0.563      | 15         | 26.67   |
| 10       | 2.0         | 22    |            |            |         |
|          | 3 7/16      | 42    | 0.563      | 15         | 26.67   |

P/G INDICATES REFILL



AP# 308-231-02

SA RIAN J. Clark

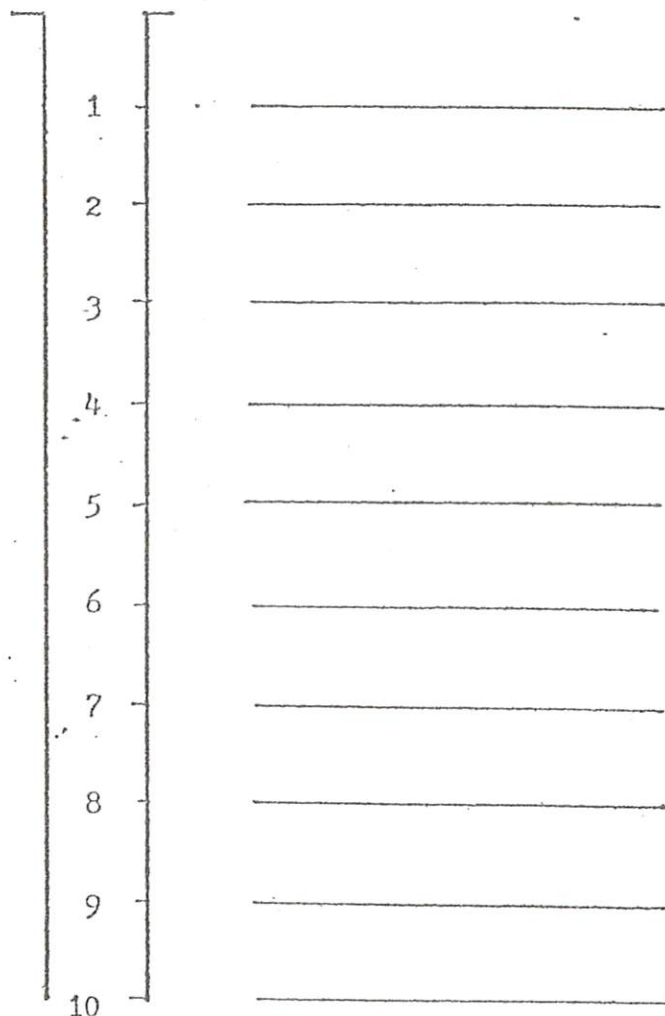
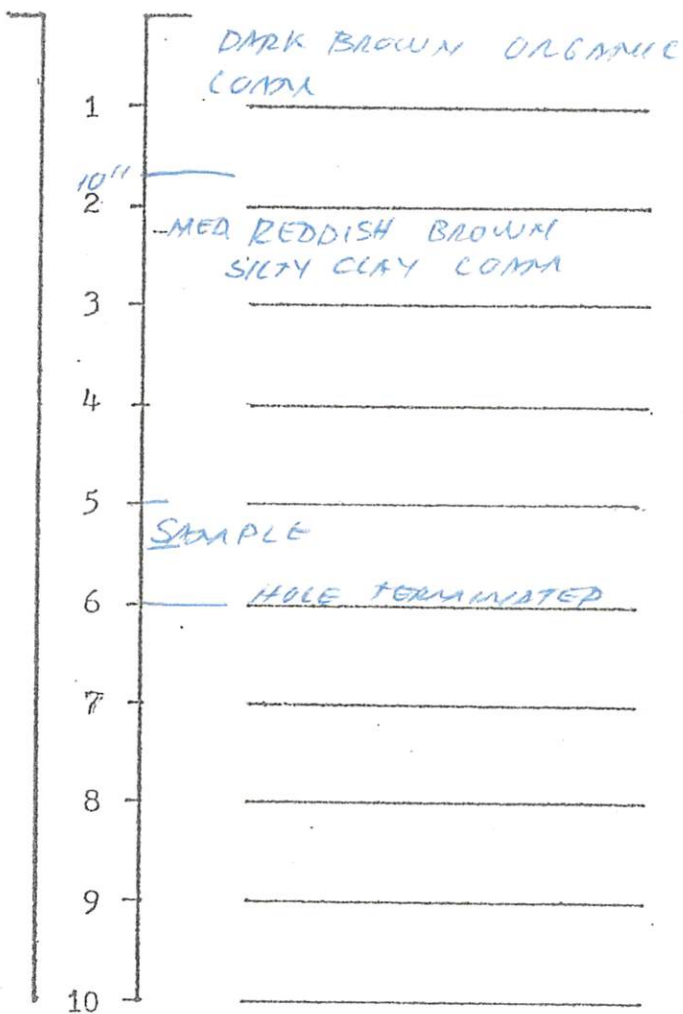
LOCATION TABLE BLUFF

DATE 12-1-81

PROJECT DESCRIPTION C.U.P. S.D.S. LUXMDFORD

HOLE # AUGER #1

HOLE # \_\_\_\_\_



Text. Anal. Yes- \_\_\_\_\_ NO \_\_\_\_\_

Text. Anal. YES \_\_\_\_\_ NO \_\_\_\_\_

Depth of Samples 5-5 1/2 FOOT

DEPTH OF SAMPLES \_\_\_\_\_

COMMENTS AUGER HOLE "CLOSED IN AT ABOUT 4 FT LEVEL  
REQUIRING TERMINATION OF HOLE AT ± 6' DEEP. PENE-  
TRATION BY AUGER WAS VERY EASY.



Waiver

1. Review procedure

2.

1. hole filled to greater than 8" for 25<sup>th</sup> hours
2. used 4 55 gallon drums & float valve  
D. had a note pushing
3. used 8" depth rather than 6" - unsure as to why
4. Water 75 gallons/hole -
5. Not sure that of why the variation occurred between 6" & 8" on the 2<sup>nd</sup> reading on Hole # 1.
6. D.M.R. feels that pressure was sufficient
7. " " reported that they did a preliminary test - results 45 min/in -