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.

Owner's Name Cisco Lunsford

Mailing Address P O Box 239

City Loleta Ca. 95551 Telephone # _____

Installer _____

Assessor's Parcel No. 308-231-02

General Area Hawkins Hill Rd. off Table Bluff Rd.

Previous Application: New System [X] Repair [ ]

YES [ ] NO [X] Existing System [ ]

Installation will serve: Residence [ ] Commercial [X]

Multiple Housing [ ] Mobilehome Park [ ] Mobilehome [ ]

Other [ ] - Specify: _____

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Legal Conformance	Fee	Receipt No.	Permit No.
Jd 9 Dec 81	10.00	41290	A.P. # 308-231-02

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 Loleta exit, on Eel River Dr, right on Table Bluff Rd, left on Hawkins Hill Rd.

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

IMPORTANT: 24 HOUR NOTICE REQUIRED BEFORE FINAL INSPECTION

No. of Units	No. of Rooms Usable as Bedrooms	Garbage Disposal Unit	Septic Tank Size	No. of Lines	Length of Lines	Trench Depth
1	3	YES [ ] NO [ ]	1800	6	50'	3'

Water Supply: Private [X] Public [ ]

Lot Size: 873' X 600'

Layout Plan Prepared by _____ Date _____

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

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 11-10-81 Owner [X] Owner's Agent [ ]

HEALTH DEPARTMENT USE ONLY

Layout Plan Approved By James M. 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 COUNTY HEALTH DEPARTMENT
Division of Environmental Health
529 "I" St., Eureka, CA 95501 445-7613

SDS-1, Rev. 7/78

Name Lunsford, Cisco — Proj. Loc Alluvial Allow Over — Parcel No. 308-231-02
Address P.O. Box 234 Loleta, CA. — Type const — Phone 445-2273 — Date 11-4-81
In charge of constr Owner — Phone — Proposed use of bldg Commercial Greenhouses
Road to ✓ Private road name — Land use zone Ag/Timber Park — Fire zone — Occup. AEIH3RM (5)
Inspectors district 1 2 3 (4) 5 6 7 — Building area 8640 — No of stories — Est. Proj. Value $

License check...Clear ☒ ..Hold ☐	Garb disp.... ☐	Addition.... ☐	Erect.... ☒
Water source.....Public ☐ ..Prvt ☒	No bedrms.... ☐	Demolish.... ☐	Alter.... ☐
Sewage disp......Public ☐ ..Prvt ☒	Repair....... ☐	Relocate.... ☐	Other.... ☐

Occupancy change....... ☐
Grading or fill....... ☐
Mobile home........... ☐
Remarks
I attest to the above Cisco Lunsford — Recd. By VB
Applicants Signature

COUNTY OF HUMBOLDT

PERMIT APPLICATIO ITE INVESTIGATION FORM

Examine site for — Preconst — Grdg. Applic.
Field insp. req'd date — Completed Date

CONSTRUCTION:	POS.	NEG.
Site has obvious fill	No ☑	Yes ☐
Does material appear to be expansive	No ☑	Yes ☐
Site is on land with slope greater than 15%	No ☑	Yes ☐
Key map is required for locating site	No ☑	Yes ☐
Grd'g permit is req'd for proj. (est. Over 50 yds)	No ☑	Yes ☐
Site has natural water course	No ☑	Yes ☐
Site has good surface drainage	Yes ☑	No ☐
Contours 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 ☐

ROAD ENCROACHMENT: *DRIVE NOT SHOWN ON PLOT PLAN		
Access road complies with visibility ordinance	Yes ☐	? No ☐
Drop curb & gutter are existing	Yes ☐	No ☐
Gutter control may be needed	No ☐	Yes ☐
Details on plot plan are complete	Yes ☐	No ☑
Dr'wy access at co. rd. has (incline decline) over 10%	No ☑	? Yes ☐
Drive 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 ☐	N/A No ☐
Private drive requires grading permit	No ☑	Yes ☐

ENVIRONMENTAL HEALTH:		
Site has good drainfield location	Yes ☑	No ☐
Site has good reserve drainfield loc	Yes ☑	No ☐
Site has service pump access to septic tank	Yes ☑	No ☐
Perculation tests should be performed	No ☐	Yes ☑
Soil engineering is recommended	No ☐	Yes ☑
Water source is feasible	Yes ☐	? No ☐
Other problems exist (explain below)	No ☑	Yes ☐

ENVIRONMENTAL POLLUTION: N/A		
Atmospheric discharge	No ☐	Yes ☐
Industrial waste	No ☐	Yes ☐
Water discharge	No ☐	Yes ☐
Environmental impact	No ☐	Yes ☐

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PLANNING:		
Existing buildings not shown on plans	No ☑	Yes ☐
Site has private access only (existg) (new)	No ☑	Yes ☐
Does proj. fit exist'g general area land use	Yes ☐	No ☑
Is the proj. a change in exist'g site land use	No ☐	Yes ☑
Does the plot plan coincide with the site	Yes ☑	No ☐

GENERAL SITE DESCRIPTION: CURRENT USE IS OPEN PASTURE LAND WITH SLOPE OF 2-3%. * HIGH WIND AREA.
* IN COASTAL ZONE. 11-6-81 GA

NOTES:

PERMIT APPLICATION & SITE INVESTIGATION FORM

Owners Name Lunsford, Cisco Proj. Loc ... Rd. Parcel No. 308-231-
Owners address P.O. Box 239, Loleta, CA. Type const ______ Phone 445-2273 Date 2/10/82
Person in charge of constr Owner Phone ______ Proposed use of Bld'g Commerical ...
County road no ✓ Private road name ______ Land use zone ... Fire zone ______ Occup. ...
Inspectors district 1 2 3 (4) 5 6 7 Building area 16070 No of stories 1 Est. Proj. Value $ ______
Suspense check...Clear ☒ ..Hold ☐ Garb disp....☐ Addition....☐ Erect....☐ Occupancy change......
Water source.....Public ☐ ..Prvt ☒ No bedrms....☐ Demolish....☐ Alter....☐ Grading or fill......
Sewage disp......Public ☐ ..Prvt ☒ Repair.......☐ Relocate....☐ Other....☐ Mobile Home.........
Remarks Phase I & II I attest to the above X [signature] Recd. By DB
Applicants Signature

...ine site for ______ Preconst Grdg. Applic...☐
...d insp. req'd date ______ Completed Date ______

CONSTRUCTION:

- ...te has obvious fill..............................No ☐ ...Yes☐
- ...es material appear to be expansive....................No ☐ ...Yes☐
- ...te is on land with slope greater than 15%..............No ☐ ...Yes☐
- ...y map is required for locating site....................No ☐ ...Yes☐
- ...d'g permit is req'd for proj.(est. Over 50yds).........No ☐ ...Yes☐
- ...te has natural water course............................No ☐ ...Yes☐
- ...te has good surface drainage..........................Yes ☐ ....No☐
- ...ntours are required for clarification..................No ☐ ...Yes☐
- ...te req's engr. for the proj.(exp. below)...............No ☐ ...Yes☐
- ...proved road section at site is 40ft. or more..........Yes ☐ ....No☐
- ...her problems exist (explain below).....................No ☐ ...Yes☐

ENCROACHMENT:

- ...cess road complies with visibility ordinance..........Yes ☐ ....No☐
- ...op curb & gutter are existing..........................Yes ☐ ....No☐
- ...tter control may be needed.............................No ☐ ...Yes☐
- ...tails on plot plan are complete.......................Yes ☐ ....No☐
- ...'wy access at co. rd. has (incline decline) over 10%.....No ☐ ...Yes☐
- ...ive at road has a good radius.........................Yes ☐ ....No☐
- ...isting culvert is adequate............................Yes ☐ ....No☐
- ...cking for 5 vehicles on site..........................Yes ☐ ....No☐
- ... rd. at driveway access has a grade over 10%...........No ☐ ...Yes☐
- ... rd. at driveway access is paved......................Yes ☐ ....No☐
- ...isting private road is paved..........................Yes ☐ ....No☐
- ...ivate drive requires grading permit....................No ☐ ...Yes☐

...RONMENTAL HEALTH:

- ...te has an area 100 x 50' on a slope less than 30% ...ailable for leachfield and meets setback reqmts........Yes ☐ ....No☐
- ...infield area is located more than 100' from a ...l, stream, or spring.......................................Yes ☐ ....No☐
- ...posed drainfield is located in a marsh or wet area......No ☐ ...Yes☐
- ...s project should be referred to Health Dept.............No ☐ ...Yes☐
- ... sufficient water available............................Yes ☐ ....No☐

...ES:

...RONMENTAL POLLUTION:

- ...ospheric discharge.......................No ☐ ...Yes☐
- ...ustrial waste............................No ☐ ...Yes☐
- ...er discharge.............................No ☐ ...Yes☐
- ...ironmental impact........................No ☐ ...Yes☐

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...ING:

- ...sting buildings not shown on plans......................No ☐ ...Yes☐
- ...e has private access only...............................No ☐ ...Yes☐
- ...s project fit exist'g general area land use............Yes ☐ ....No☐
- ...the adjoining property use affected.....................No ☐ ...Yes☐
- ... there water courses on or off site within 100' of p/l..No ☐ ...Yes☐
- ...s the plot plan coincide with the site.................Yes ☐ ....No☐

...: ADDITIONAL PRE-SITE NOT REQUIRED 2-11-82 GH

JOB NO. [illegible]
DATE 17 Nov 81

SUMMARY
SOIL TEXTURE / SUITABILITY ANALYSIS

Client [illegible]
Address
Phone
Sampled By [illegible]
Sample Date 17 Nov 81
Water Table ?'

County Humboldt
A.P. No.
Water Supply ☒ Private ☐ Public
Tested By [illegible]
Test Date Start 17 Nov 81
Finish 18 Nov 81

LOT# / TEST SITE#	SAMPLE* DEPTH	MOTTLING [1]	PERCENT ▽ SAND	PERCENT ▽ SILT	PERCENT ▽ CLAY	USDA SOIL TEXTURE	BULK DEN. [2] ADJUSTMENT	SUITABILITY ZONE
1	~'	None	25.4%	36%	38.6%	Clay Loam		4
3	~'	None	27%	35.6%	37%	Clay Loam		4

[1] : Depth and Extent
[2] : > 1.7 gm/cc adjusted +15% in clay direction
≤ 1.7 gm/cc no adjustment
* In feet and inches
? Bouyoucous Improved Hydrometer Method

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CONSULTING ENGINEERS

JOB NO. 82-104-A

DATE. 18 Nov 81

WORK SHEET FOR SOIL TEXTURE

PROJECT LOCATION: TABLE BLUFF

A.P.#: _____ COUNTY: HUMBOLDT

	HOLE #1	HOLE #3		
Sample Number				
Depth	5'	5'		
A. Ovendry Weight (gm)	50	50		
B. Starting Time (hr:min:sec)	23:41.00	23:43.00		
C. Temp @ 40 sec. (°F)	67	67		
D. Hydrometer Reading @ 40 sec. (gm/1)	44	44		
E. Composite Correction (gm/1)	-6.7	-6.7		
F. True Density @ 40 sec. (gm/1)(D-E)	37.3	37.3		
G. Temp. @ 2 hrs. (°F)	67	67		
H. Hydrometer Reading @ 2 hrs. (gm/1)(H-I)	26	26.2		
I. Composite Correction (gm/1)	-6.7	-6.7		
J. True Density @ 2 hrs. (gm/1)(H-I)	19.3	19.5		
K. % Sand = 100 - [(F-A) x 100]	25.4%	25.4%		
L. % Clay = (J/A) x 100	38.6%	39%		
M. % Silt = 100 - (K+L)	36%	35.6%		
N. USDA Texture	CLAY LOAM	CLAY LOAM		
O. Soil Percolation Suitability Chart Zone	4	4		
P. Combined % Silt and Clay	74.6%	74.6%		

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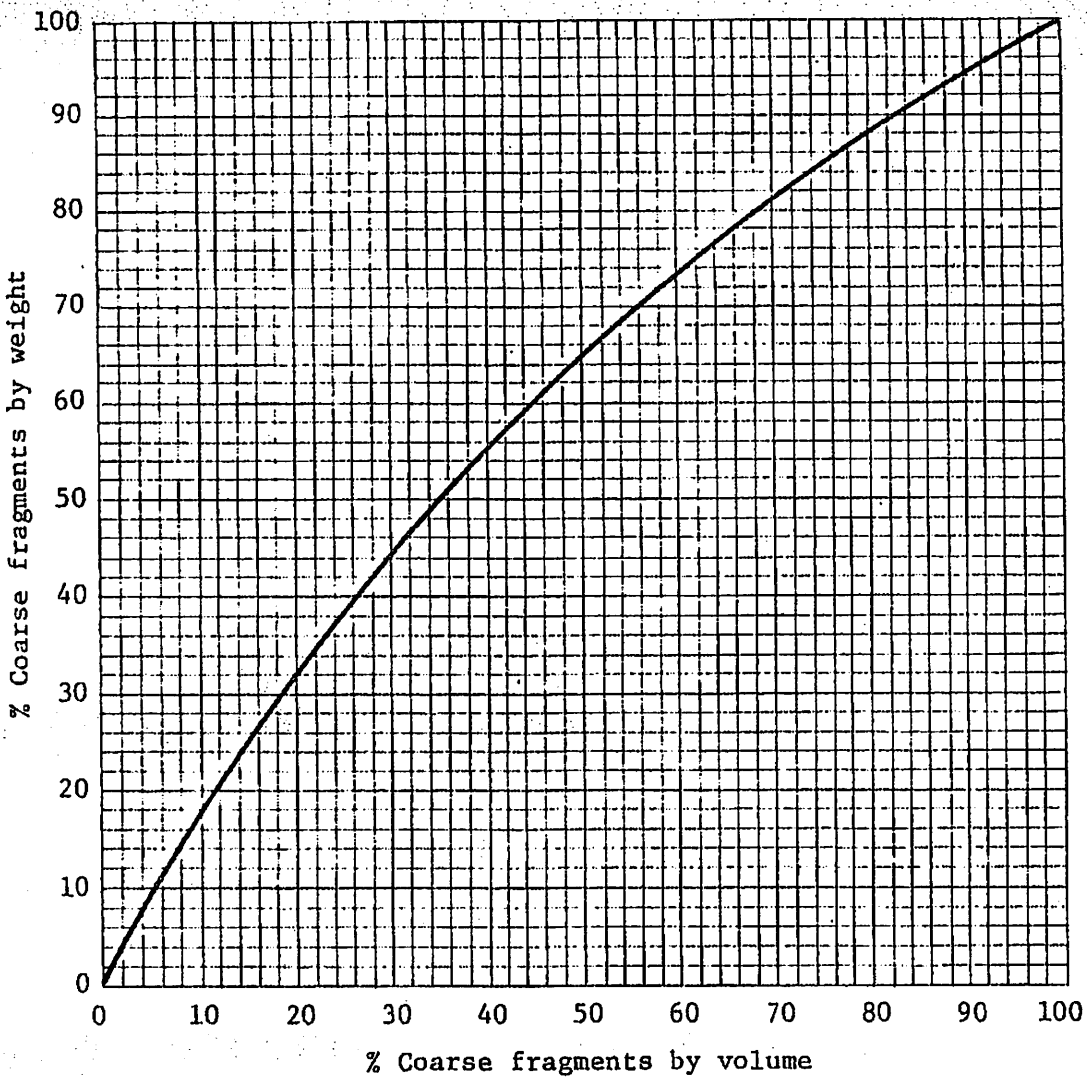
SAMPLE NO: 1-2
DATE 17 Nov 81

COARSE FRAGMENT WEIGHT TO VOLUME CONVERSION CURVE



A. Total Sample Weight 10000 GM.
B. Weight >2mm Coarse Fragment 5 GM.
C. % Coarse Fragment by Weight <1%
D. % Coarse Frag. by Volume ~1%

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.

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Conversion curve based on the formula:

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

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Sheet 1 of 2

SOILS PERCOLATION TEST DATA

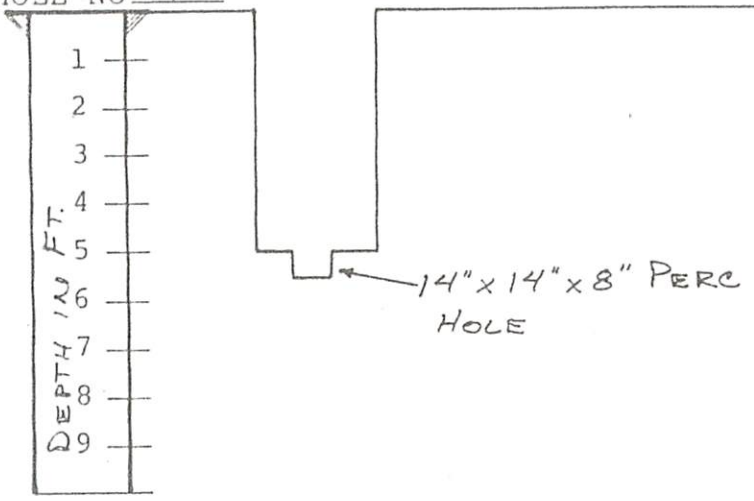
Job No. 82-104-A

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

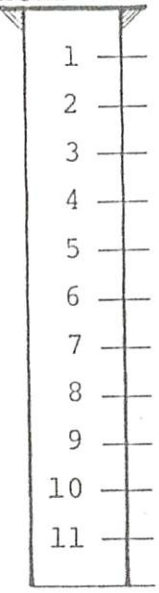
Made by RBM/D.R. Date 27Nov81 Checked by _____ Approved by _____

NOTE: PRESOAK STARTED 0700, 26Nov81 TEST STARTED 0815, 27Nov81

PERC HOLE NO 1 — DESCRIPTION



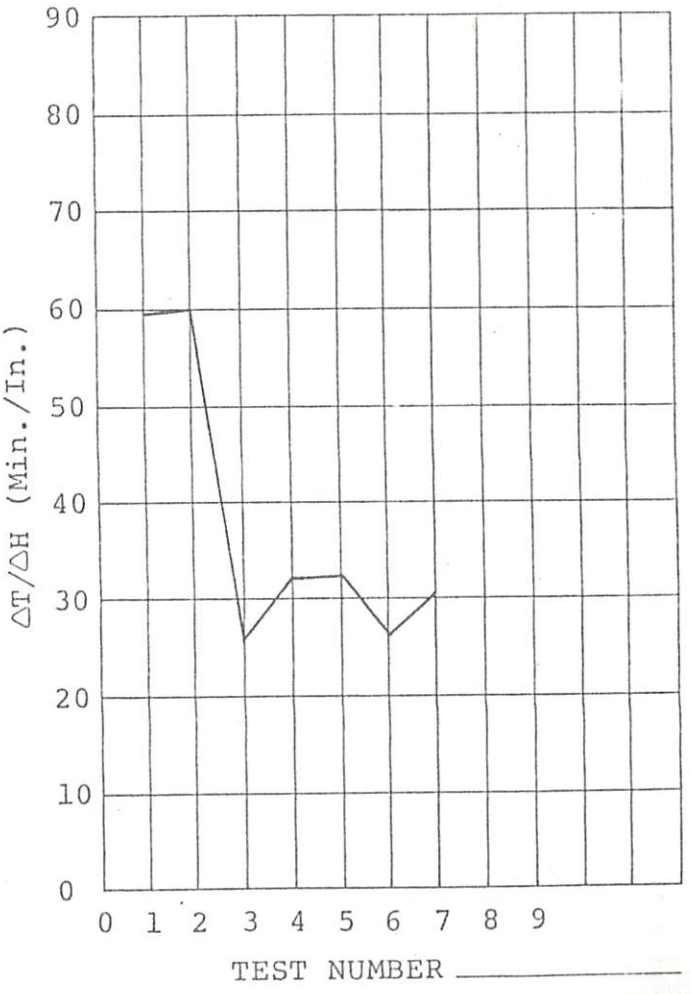
SOIL PROFILE HOLE NO _____ — DESCRIPTION



SEE HOLE EXPLORATION LOG OF 17Nov81

1st test not stable

Test No.	Water Depth	Time	ΔH	ΔT	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. Hannum - T. Wistrom

ONE NUMBER

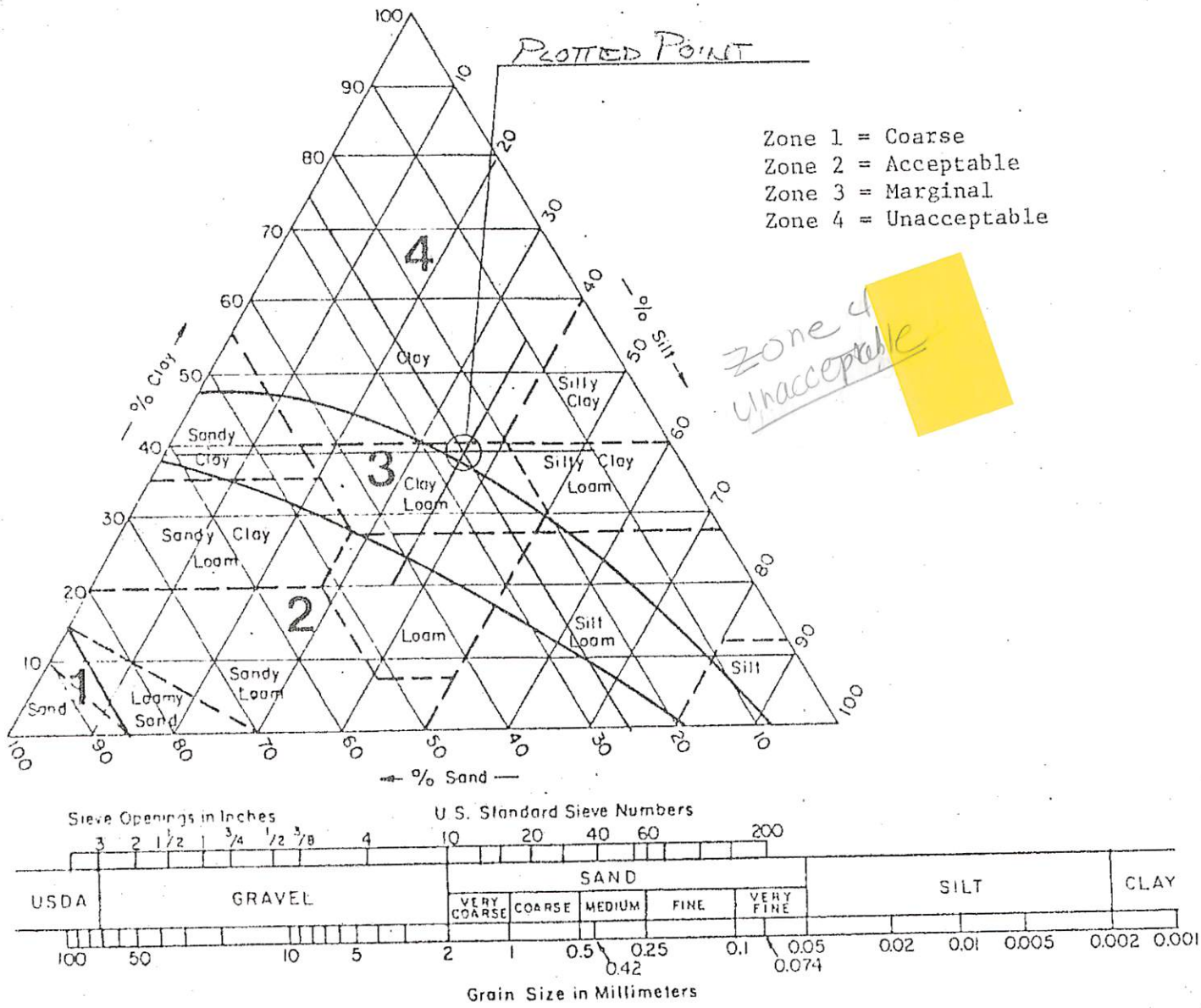
TE 12/2/81 TIME 0945

a meeting was held in my office
o review the percolation testing
ubmitted on this parcel - the
eviations from our procedures were
iscussed including hole size,
oping test, measurement
method. Also reviewed the
observed results on hole #1.
Reviewed profiles, texture
d analysis and observed
samples of soil J. 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.

SAMPLE NO. 3-25

DATE 10/30/81

SOIL PERCOLATION SUITABILITY CHART



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.

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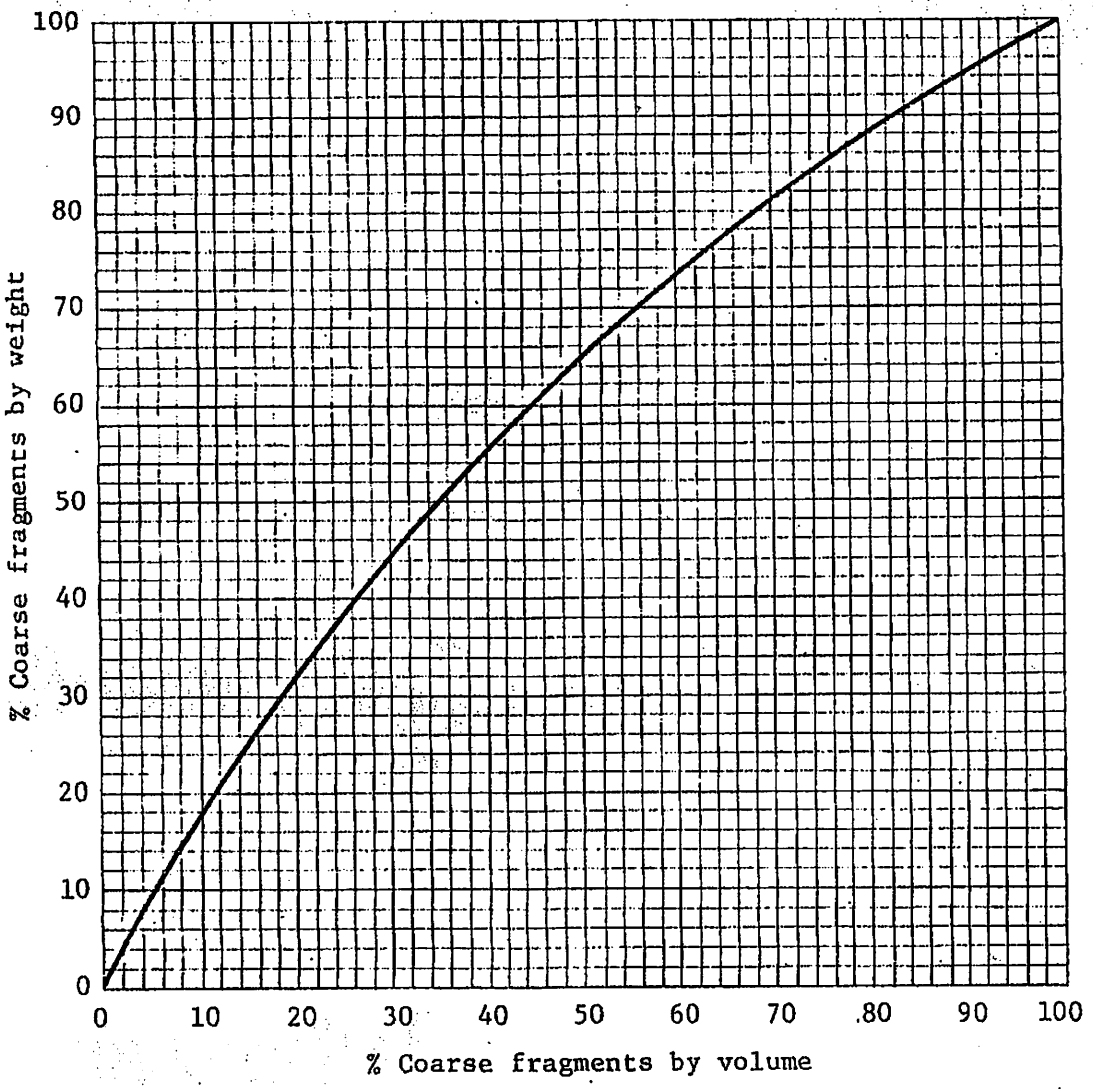
JOB NO. [illegible]
SAMPLE NO. 3D-
DATE 17 Nov 81

COARSE FRAGMENT WEIGHT TO VOLUME CONVERSION CURVE



A. Total Sample Weight 1000 GM.
B. Weight >2mm Coarse Fragment 2 GM.
C. % Coarse Fragment by Weight <1%
D. % Coarse Frag. by Volume <1%

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:

$$W = \frac{2.7V}{1.5(100-V)+(2.7)}$$ 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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COUNTY OF HUMBOLDT

PERMIT APPLICATION & SITE INVESTIGATION FORM — *Health*

Examine site for ______ Preconst ____ Grdg. Applic. [ ]
Field insp. req'd date ______ Completed Date ______

PRE-CONSTRUCTION: (POS. / NEG.)

- Site has obvious fill .... No [✓] ... Yes [ ]
- Does material appear to be expansive .... No [✓] ... Yes [ ]
- Site is on land with slope greater than 15% .... No [✓] ... Yes [ ]
- Key map is required for locating site .... No [✓] ... Yes [ ]
- Grd'g permit is req'd for proj. (est. Over 50 yds) .... No [✓] ... Yes [ ]
- Site has natural water course .... No [✓] ... Yes [ ]
- Site has good surface drainage .... Yes [✓] ... No [ ]
- Contours 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 [ ]

[illegible]

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

- Access road complies with visibility ordinance .... Yes [ ] ?... No [ ]
- Drop curb & gutter are existing .... Yes [ ] ... No [ ]
- Gutter control may be needed .... No [ ] ... Yes [ ]
- Details on plot plan are complete .... Yes [ ] ... No [✓]
- Dr'wy access at co. rd. has (incline decline) over 10% .... No [✓] ... Yes [ ]
- Drive 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 [ ] *N.A.* ... No [ ]
- Private drive requires grading permit .... No [✓] ... Yes [ ]

ENVIRONMENTAL HEALTH:

- Site has good drainfield location .... Yes [✓] ... No [ ]
- Site has good reserve drainfield loc .... Yes [✓] ... No [ ]
- Site has service pump access to septic tank .... Yes [✓] ... No [ ]
- Perculation tests should be performed .... No [ ] ... Yes [✓]
- Soil engineering is recommended .... No [ ] ... Yes [✓]
- Water source is feasible .... Yes [ ] ?... No [ ]
- Other problems exist (explain below) .... No [✓] ... Yes [ ]

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ENVIRONMENTAL POLLUTION: *N/A*

- Atmospheric discharge .... No [ ] ... Yes [ ]
- Industrial waste .... No [ ] ... Yes [ ]
- Water discharge .... No [ ] ... Yes [ ]
- Environmental impact .... No [ ] ... Yes [ ]

PLANNING:

- Existing buildings not shown on plans .... No [✓] ... Yes [ ]
- Site has private access only (existg) (new) .... No [✓] ... Yes [ ]
- Does proj. fit exist'g general area land use .... Yes [ ] ... No [✓]
- Is the proj. a change in exist'g site land use .... No [ ] ... Yes [✓]
- Does the plot plan coincide with the site .... Yes [✓] ... No [ ]

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

NOTES: *✱ IN COASTAL ZONE.   11-6-81 GH*

Owners Name *[illegible]* Proj. Loc *[illegible]*
Owners address *[illegible] Arcata, CA.* Phone ______
Person in charge of constr *Owner* Phone *445-3273* Date *11-4-81*
Owner / road to ✓ Private road name ______ Proposed use of bldg *Commercial [illegible]*
Fire districts district 1 2 3 (4) 5 6 7 Building area *8640* Land use zone ______ Fire zone ______ Occup. ______
Subdivision check ... Clear [X] .. Hold [ ] Garb disp .... [ ] No of stories ______ Est. Proj. Value $ ______
Water source .... Public [ ] .. Prvt [X] No bedrms .... [ ] Addition .... [ ] Erect .... [X] Occupancy change ....
Sewage disp .... Public [ ] .. Prvt [X] Repair .... [ ] Demolish .... [ ] Alter .... [ ] Grading or fill ....
Remarks Relocate .... [ ] Other .... [ ] Mobile home ....
I attest to the above *[signature]* Applicant's Signature Recd. By *[illegible]*
Parcel No. *[illegible]*

Jeff

This is very interesting
why when 8" depth was
used perc rate dropped.
I wonder if leaving test hole
8" deep could influence rate
maybe H_2O moves 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

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NOV 30 1981
HUMBOLDT CO. HEALTH DEPT.

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 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

CONSULTING ENGINEERS

Sheet 2 of 2

SOILS PERCOLATION TEST DATA

Job No. 82-104-A

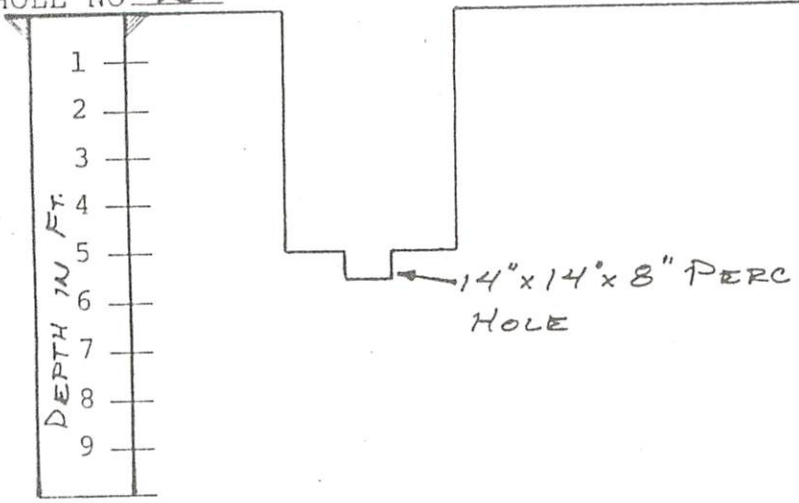
Subject LUNDSFORD PERC TEST A.P.# 308-231-02

Made by RBM/D.R. Date 27Nov81 Checked by _____ Approved by _____

NOTE: PRESOAK STARTED 0700, 26NOV81 TEST STARTED 0816, 27NOV81

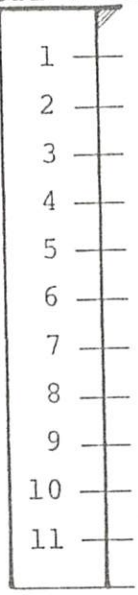
PERC HOLE NO 2

DESCRIPTION



SOIL PROFILE HOLE NO _____

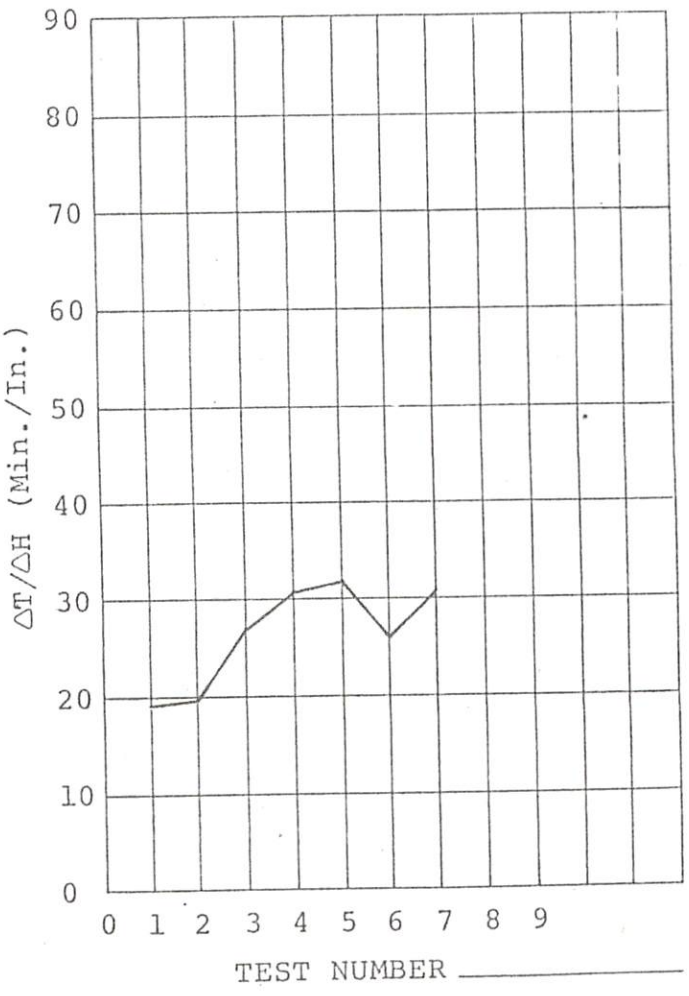
DESCRIPTION



SEE HOLE #3 EXPLORATION LOG OF 17NOV81

1st test not stable

Test No.	Water Depth	Time	ΔH	ΔT	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"	00:14:48	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					



Off 101 on Yoletta exit, on Eel River Dr., left on Tawa Bluff Rd, left on Hawkes Field Rd.

EXPLORATION HOLE LOG

PROJECT NAME Lundstrom Subd. 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 RSmc

SOIL DESCRIPTION				SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES			BLOWS/FT.
DESCRIPTION AND REMARKS	COLOR	MOIST	CONSIST					NO.	SPLIT SPOON	SHELB	
Dark Brown Topsoil		Damp	Fluffy		1'						
					2'						
Brown Clay Loam		Damp	Crumbly		3'						
					4'						
					5'			X			
					6'						
Orange Brown Clay Loam		Moist	Consolidated		7'						
		Mottling			8'						
					9'						
		Wet			9½'						
Hole Terminated											

3' - Waiving unless water unusable

Assume water table a Sat. soils

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CONSULTING ENGINEERS

EXPLORATION HOLE LOG

PROJECT NAME Lundsford Soils PROJECT NO 82-104-A DATE 17Nov81

COUNTY Humboldt AP# 308-231-02 SLOPE < 3% ASPECT

HOLE # 3 HOLE DIAMETER DRILL RIG Back Hoe SAMPLER Hand

HOLE ELEV GROUNDWATER LEVEL 8'-9' QUANTITY LOGGED BY RBW

SOIL DESCRIPTION				SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES			BLOWS/FT.
DESCRIPTION AND REMARKS	COLOR	MOIST	CONSIST					NO.	SPLIT SPOON	SHELB	
Dark Brown Topsoil		Damp	Fluffy		1						
					2						
Brown Clay Loam		Damp	Crumbly		3						
					4						
					5			X			
					6		3'				
Brown Sandy Clay Loam		Moist	Consolidated		7						
	Water Seepage →				8						
		Wet			9						
Hole Terminated											

Water unless water unusable

Water

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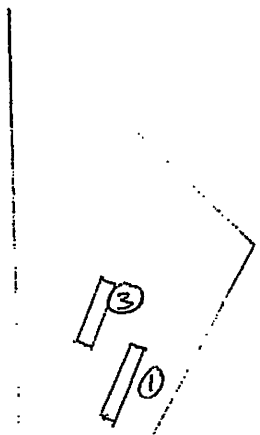
CONSULTING ENGINEERS



8 Dec 81

Locations noted on plot plan clark observations

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 Loleta, Ca. 95551 Telephone # _____

Installer _____

Assessor's Parcel No. 308-231-02

General Area Hawkes Hill Rd. off Table Bluff Rd.

Previous Application: New System [X] Repair [ ]

YES [ ] NO [X] Existing System [ ]

Installation will serve: Residence [ ] Commercial [X]

Multiple Housing [ ] Mobilehome Park [ ] Mobilehome [ ]

Other [ ] - Specify: _____

Legal Conformance	Fee	Receipt No.	Permit No.
Jd 9 Dec 81	10.00	41290	A.P. # 308-231-02

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 Loleta exit, on Eel River Dr, right on Table Bluff Rd, left on Hawkes Hill Rd.

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

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IMPORTANT: 24 HOUR NOTICE REQUIRED BEFORE FINAL INSPECTION

No. of Units	No. of Rooms Usable as Bedrooms	Garbage Disposal Unit	Septic Tank Size	No. of Lines	Length of Lines	Trench Depth
1	3	YES [ ] NO [ ]	1800	6	50'	3'

Water Supply: Private [X] Public [ ]

Lot Size: 873' X 600'

Layout Plan Prepared by _____ Date _____

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

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 [X] Owner's Agent [ ]

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

SDS-1, Rev. 7/78

HEALTH DEPARTMENT USE ONLY

Layout Plan Approved By James W. Clarke 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 Coddingtown Center
Santa Rosa, CA 95401

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

Dear Teresa,

Attached please find the results of the soil texutre 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 [redacted]XTURE / SUITABILITY [redacted]ALYSIS

Client [redacted]

Address

Phone

Sampled By RBHC

Sample Date 17 Nov 81

Water Table 9'

County HUMBOLDT

A.P. No.

Water Supply ☑ Private ☐ Public

Tested By RBHC

Test Date Start 17 Nov 81

Finish 18 Nov 81

LOT# / TEST SITE#	SAMPLE* DEPTH	MOTTLING [1]	PERCENT ▽ SAND	SILT	CLAY	USDA SOIL TEXTURE	BULK DEN. [2] ADJUSTMENT	SUITABIL ZONE
1	5'	NONE	25%	36%	39%	CLAY LOAM		4
3	5'	NONE	25%	36%	39%	CLAY LOAM		4

[1] : Depth and Extent
[2] : > 1.7 gm/cc adjusted +15% in clay direction
≤ 1.7 gm/cc no adjustment
* In feet and inches
▽ Bouyoucous Improved Hydrometer Method

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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 Coddingtown 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 0-10 %

Perennial Stream n/a ft

Ephemeral Stream n/a ft

Cut Banks n/a Ft

Building 5 + Ft

Property line 50 + Ft putwell

Swimming Pool n/a Ft

(Mark N/A if not applicable)

Soil Profiles

Profiles - 17 Nov 81 11.33 total Rainfall

Depth of soil below/trench bottom of 3 + ft (Must be 5' on ground greater than 20% Slope 3' on ground less than 20% slope)

Actual Water Observed Yes [X] No [ ] Depth of Water 8 Ft #3

Mottling observed Yes [X] No [ ] Depth of Mottling 8 Ft #1

note: total depth of trench - 5'

Waiver to Wat unless water unusable 9 Dec 81 - gd sez water unusable gd

Soils Analysis

Primary Field

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

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GROUP CONSULTING ENGINEERS

WINZLER & KELLY
CONSULTING ENGINEERS

Sheet 1 of 2

SOILS PERCOLATION TEST DATA

Job No. 35-104

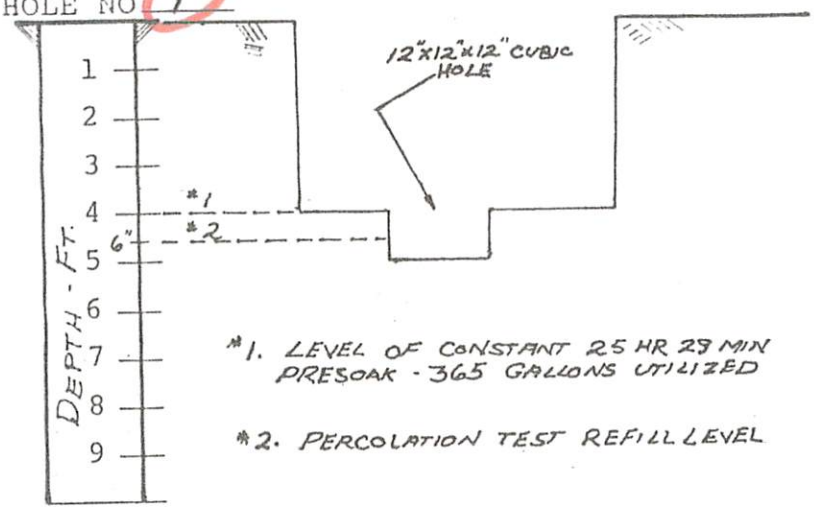
Subject UNOSCORD Percolation Tests AP# 308-231-02

Made by RBM/DCE Date 5 Dec 81 Checked by RBM Approved by DCE

NOTE: Presoak Started 0650, 4 Dec 81 Test Started: 0819, 5 Dec 81.

PERC HOLE NO 1

DESCRIPTION

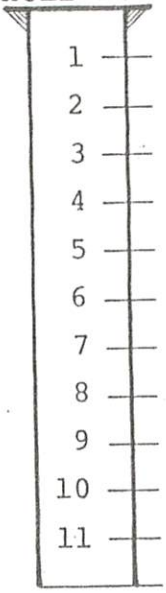


#1. Level of constant 25 hr 29 min presoak - 365 gallons utilized

#2. Percolation test refill level

SOIL PROFILE HOLE NO

DESCRIPTION



See Hole Exploration Log of 17 Nov 81

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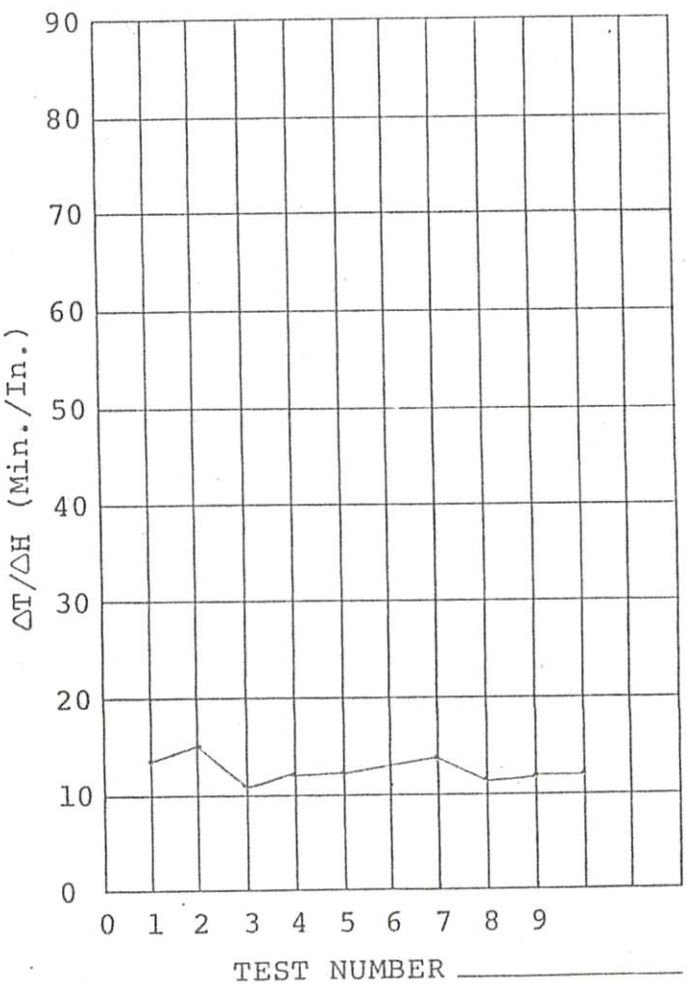
2nd test

Test No.	Water Depth (Inches)	Time HHMM	ΔH"	ΔT (Min)	Min In.
1	F 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	F 6"	49			
	4 5/8	04	1.375	15	10.91
4	4 5/8	04			
	3 3/8	19	1.250	15	12.00
5	F 6	19			
	4 3/8	34	1.250	15	12.00
6	4 3/8	34			
	3 3/8	49	1.375	15	10.91
7	F 6	49			
	4 1/8	04	1.188	15	12.63
8	4 1/8	04			
	2 7/8	19	1.313	15	11.42
9	F 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

F INDICATES REFILL



WINZLER & KELLY
CONSULTING ENGINEERS

Sheet 2 of 2

SOILS PERCOLATION TEST DATA

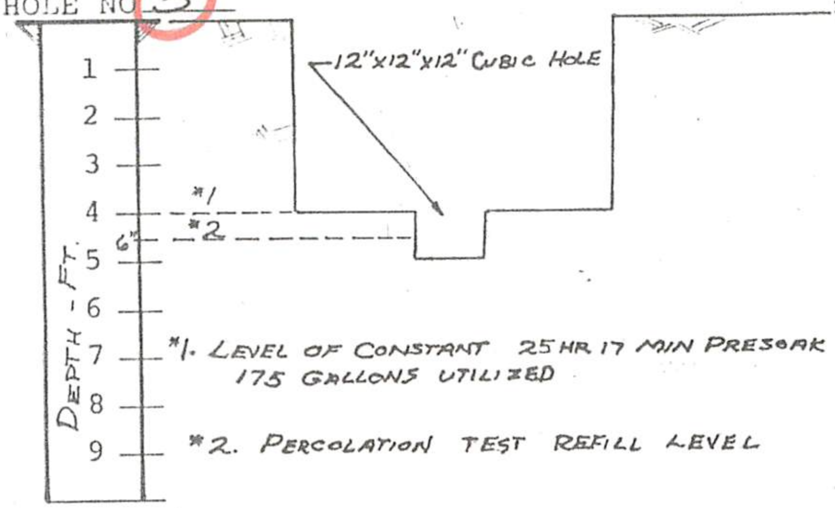
Job No. 82-104

Subject [illegible] Tests AP# 308-231-02

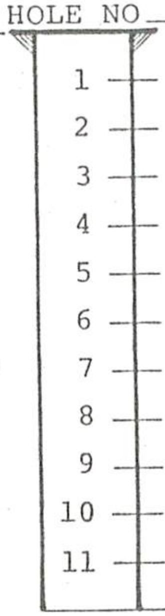
Made by [illegible] Date 5 Dec 81 Checked by RBMc Approved by [illegible]

NOTE: PRESOAK STARTED 0656, 4 DEC 81 TEST STARTED 0813, 5 DEC 81

PERC HOLE NO 3 — DESCRIPTION



SOIL PROFILE HOLE NO ____ — DESCRIPTION



SEE HOLE EXPLORATION LOG OF 17NOV81

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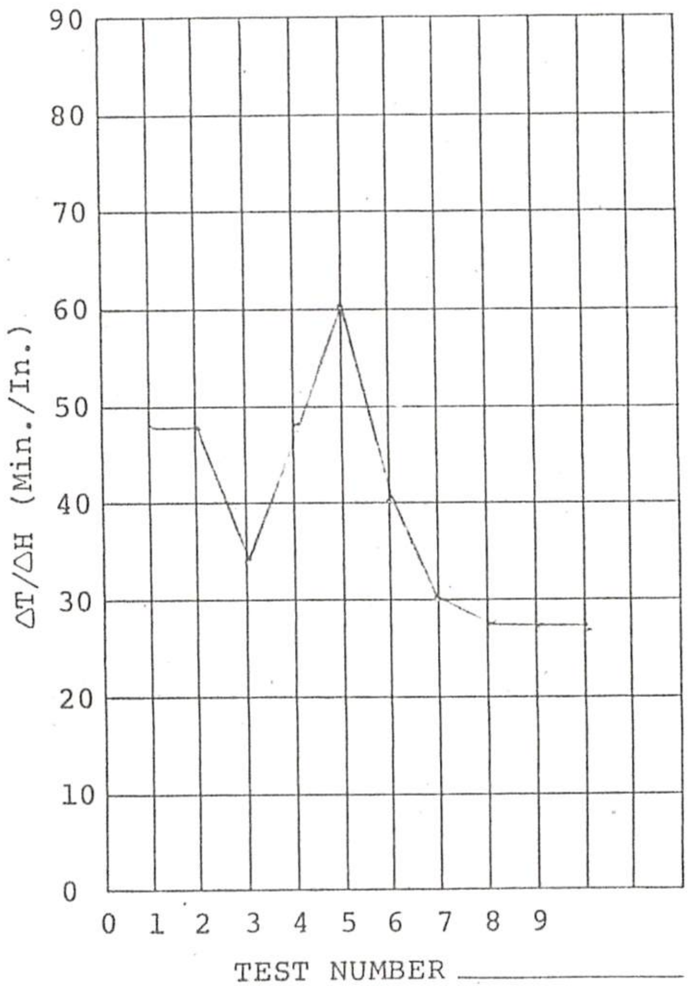
HUMBOLDT CO. HEALTH DEPT.

2nd test

Test No.	Water Depth	Time	ΔH	ΔT	Min In.
1	R/ 6	0813			
	5 11/16	28	0.313	15	47.92
2	5 11/16	28			
	5 3/8	43	0.312	15	47.92
3	5 3/8	43			
	4 15/16	58	0.438	15	34.25
4	4 15/16	58			
	4 5/8	0913	0.313	15	47.92
5	4 5/8	13			
	4 3/8	28	0.250	15	60.00
6	R/ 6	28			
	5 5/8	43	0.375	15	40.00
7	5 5/8	43			
	5 1/8	58	0.500	15	30.00
8	5 1/8	58			
	4 9/16	10 13	0.563	15	26.64
9	4 9/16	13			
	4.0	28	0.563	15	26.64
10	4.0	28			
	3 7/16	43	0.563	15	26.64

R/ INDICATES REFILL

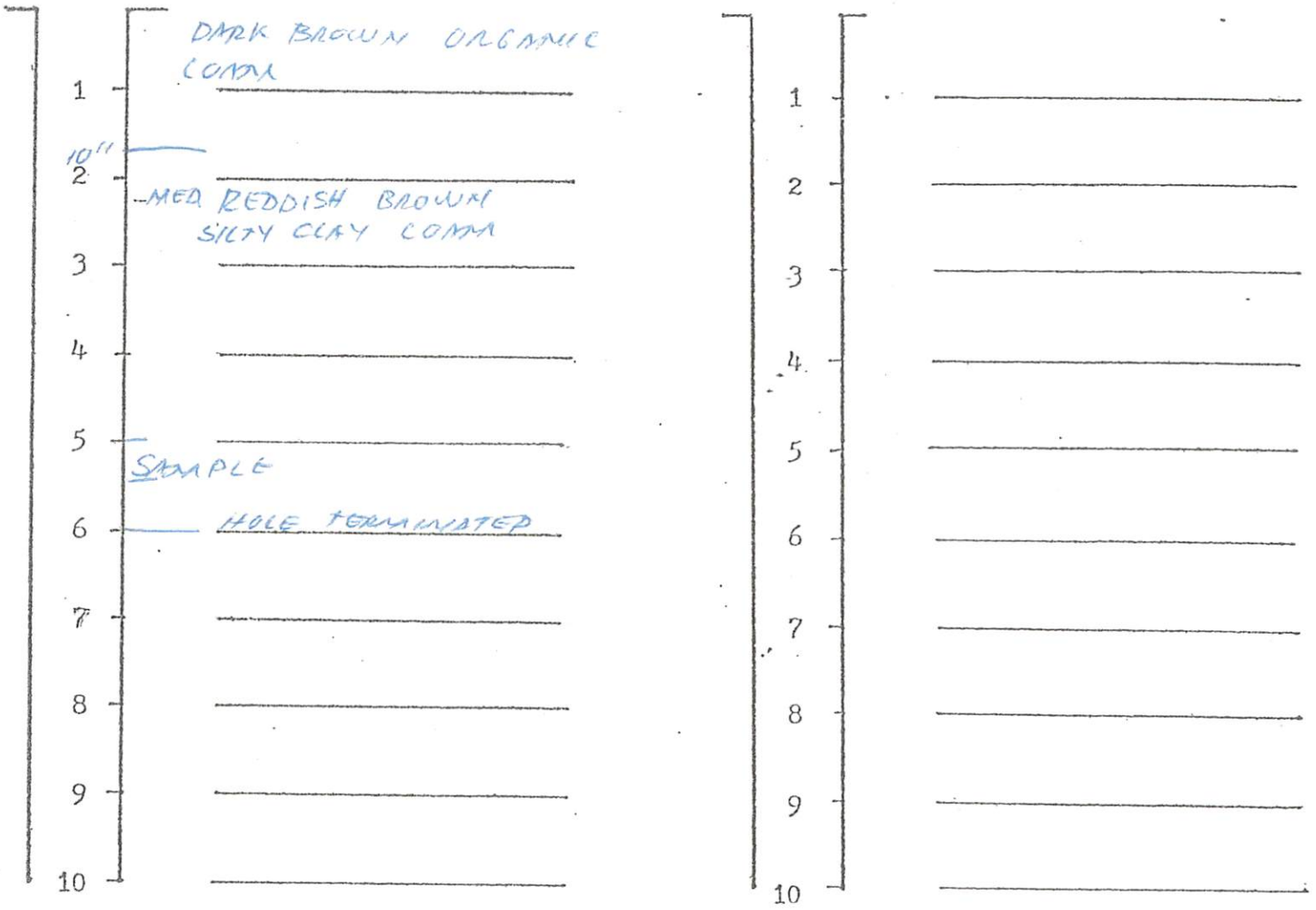


AP# 308-231-02 SA RIAN J. Clark

LOCATION TABLE BLUFF DATE 12-1-81

PROJECT DESCRIPTION C.U.P. SD.S LUMPSFORD

HOLE # AUGER #1 HOLE #



Text. Anal. Yes— NO Text. Anal. YES NO

Depth of Samples 5 - 5½ FOOT DEPTH OF SAMPLES

COMMENTS AUGER HOLE "CLOSED IN" AT ABOUT 4 FT LEVEL REQUIRING FORMINATION OF HOLE AT ± 6' DEEP. PENETRATION BY AUGER WAS VERY EASY.

Waiver

1. Review procedure

2.

1. hole filled to grades then 8" for 25 hours
2. used 4 55 gallon drums & float valve
3. used 8" depth rather than 6" - unsure as to why
4. Water 75 gallons / hole -
5. Not sure that & why the variation occured between 6" & 8" on the 2nd reading on Well # 1.
6. Driller feels that pressure was sufficient
7. " " reported that they did a preliminary test - results 45 min/in -