

## Detterman, Mark, Env. Health

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**From:** Detterman, Mark, Env. Health  
**Sent:** Friday, February 06, 2015 2:42 PM  
**To:** 'James Gribi'  
**Subject:** RE: 3800 San Pablo Ave  
**Attachments:** RO2520\_Signed\_DWR & ACPWA Well Survey Forms.pdf

Jim,  
Thanks for the information on the well destruction. Also, interesting that the rains infiltrated so quickly and groundwater was observed in the vapor wells.

Here are the signed forms; I didn't change the 1,000 ft distance.

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
*Fax: 510.337.9335*  
*Email: [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org)*

*PDF copies of case files can be downloaded at:*

*<http://www.acgov.org/aceh/lop/ust.htm>*

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**From:** James Gribi [<mailto:jgribi@gribiassociates.com>]  
**Sent:** Friday, February 06, 2015 11:55 AM  
**To:** Detterman, Mark, Env. Health  
**Subject:** 3800 San Pablo Ave

Hi Mark

To follow up on my email yesterday re the well survey for 3800 San Pablo Ave, the well shown on the Ambassador Cleaners well survey at 1016 MacArthur is likely an old monitoring well that was decommissioned as part of regulatory closure of the 1016 MacArthur site (see attachments).

Thanks  
Jim

**James E. Gribi, PG**  
Principal / Senior Geologist  
Gribi Associates  
1090 Adams Street, Suite K  
Benicia, CA 94510

Phone: 707-748-7743  
Cell: 707-631-1505

## DEPARTMENT OF WATER RESOURCES

NORTHERN REGION  
2440 Main Street  
Red Bluff, CA 96080  
(530) 529-7300  
(530) 529-7322 (Fax)

NORTH CENTRAL REGION  
3500 Industrial Blvd.  
West Sacramento, CA 95691  
(916) 376-9612  
(916) 376-9676 (Fax)

SOUTH CENTRAL REGION  
3374 E. Shields Ave Ste A7  
Fresno, CA 93726  
(559) 230-3300  
(559) 230-3301 (Fax)

SOUTHERN REGION  
770 Fairmont Avenue  
Glendale, CA 91203  
(818) 500-1645 ext. 233  
(818) 543-4604 (Fax)

**WELL COMPLETION REPORT RELEASE REQUEST AND CONFIDENTIALITY AGREEMENT  
REGULATORY-RELATED ENVIRONMENTAL CLEANUP STUDY**

Well Completion Reports associated with wells located within two miles of an area affected or potentially affected by a known unauthorized release of a contaminant will be made available upon request to any person performing an environmental cleanup study associated with the unauthorized release, if the study is conducted pursuant to a regulatory agency order (Water Code Section 13752).

Requests must be made on the form below, signed and submitted to the appropriate DWR District Office. Please provide the township, range, and section of the property where the study is to be conducted. Attach a map or a sketch with a north arrow, and provide as much identifying information requested below as possible; additional paper may be attached if necessary.

By signing below, the requester acknowledges and agrees that, in compliance with Section 13752, the information obtained from these reports will be kept confidential and will not be disseminated, published, or made available for inspection by the public. Copies obtained must be stamped **CONFIDENTIAL** and kept in a restricted file accessible only to authorized personnel. These reports must not be used for any purpose other than for the purpose of conducting the environmental cleanup study.

Project Name: Maz Glass County: Alameda

Street Address: 3800 San Pablo Avenue City: Emeryville

Township, Range, and Section: Sec. 22, 23; T1S; R4W Radius: 1,000 feet  
(Include entire study area and a map that shows the area of interest.) (maximum 2 miles)

Gribi Associates  
Requester's Company

James E. Gribi, PG  
Requester's Name (please print)

1090 Adams Street, Suite K  
Address

Benicia, CA 94510  
City, State, and Zip Code

Signature: 

Title: Principal / Senior Geologist

Telephone: ( 707 ) 748-7743

FAX: ( 707 ) 748-7763

Date: January 30, 2015

E-mail: kgribi@gribiassociates.com

Alameda County Enviro Health  
Regulatory Agency Name

Mark Determan  
Agency Contact Name (please print)

1131 Harbor Bay Parkway  
Address

Alameda CA 94502  
City, State, and Zip Code

Signature: 

Title: Senior Hazard Mat'l Spent

Telephone: ( ) 510/581 567-6876

FAX: ( )

Date: 2/6/2015

E-mail: mark.determan@acgov.org





Public Works Agency  
Alameda County

COUNTY OF ALAMEDA  
PUBLIC WORKS AGENCY  
WATER RESOURCES SECTION  
399 Elmhurst Street, Hayward, CA 94544-1307  
James Yoo PH: (510) 670-6633 FAX: (510) 782-1939  
FOR GENERAL DRILLING PERMIT INFO:  
[www.acgov.org/pwa/wells](http://www.acgov.org/pwa/wells)

WELL COMPLETION REPORT RELEASE AGREEMENT—AGENCY  
(Government and Regulatory Agencies and their Authorized Agents)

Project No./Site Address 3800 SAN PABLO AVENUE City EMERYVILLE/OAKLAND  
Township, Range, and Section Sec 22,23, Township 1 S, Range 4 W. Radius 1,000 feet  
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy. Well Completion Reports filed pursuant to Section 13751 to (check one):

- Make a study, or,
- Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

James E. Gribi  
Authorized Agent  
1090 Adams Street, Suite K  
Address  
Benicia, CA 94510  
City, State, and Zip Code  
  
Signature  
Principal / Senior Geologist  
Title  
Telephone ( ) 707-748-7743  
Fax ( ) 707-748-7763  
January 30, 2015  
Date  
jgribi@gribiassociates.com  
E-mail

Alameda County Enviro. Health  
Government or Regulatory Agency  
1131 Harbor Bay Parkway  
Address  
Alameda CA 94502  
City, State, and Zip Code  
  
Signature  
Senior Eng. Mat'l Specialist  
Title  
Telephone ( ) 510/567-6876  
Fax ( )  
2/6/2015  
Date  
mark.deTeunou@acgov.org  
E-mail



Subsurface Consultants, Inc.

R. William Rudoiph, P.E.  
President

August 5, 1997  
SCI 955.002

Mr. Andreas Godfrey  
Alameda County Public Works

Re: Well Destruction  
Blazic Industrial Balancing  
1016 West MacArthur Boulevard  
Oakland, California

Dear Mr. Godfrey:

This letter transmits permits to abandon one groundwater monitoring well at 1016 West MacArthur Boulevard Oakland, California. The well was installed as part of a site investigation required by the Alameda County Health Care Services Agency (ACHCSA). The attached letter from Ms. Susan Hugo of the ACHCSA, dated July 23, 1997, stated that no further action was required at the site. Accordingly, Blazic Industrial balancing has requested that Subsurface Consultants, Inc. (SCI) coordinate the abandonment of the well.

As shown on the attached site plan, one monitoring well is situated in the western edge of the property. The test boring logs with well construction detail are attached for your review. SCI requests to abandon the monitoring well by pressure grouting methods. The well would be grouted by tremie, until the water was displaced and then grout will be applied at a minimum of 10 pounds per inch for a minimum of 10 minutes. The well head will be removed from the site and the hole will be filled with grout to grade. This method is in accord with the ACHCSA guidelines.

If you have any questions, please call.

Very truly yours,

Subsurface Consultants, Inc.

*James R. Helge*  
James R. Helge  
Project Environmental Scientist

JRH:MM:

Mr. Andreas Godfrey  
Alameda County Public Works  
1016 West MacArthur Boulevard  
July 31, 1997  
Page 2

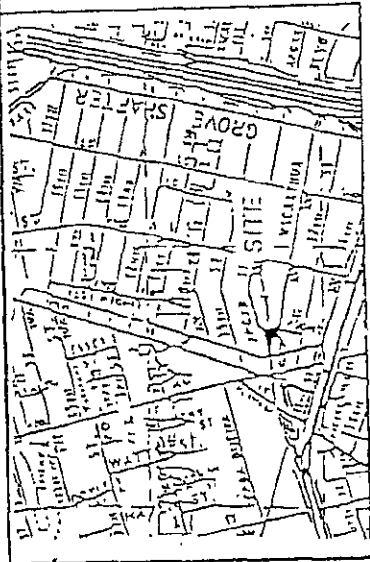
Subsurface Consultants, Inc.

Attachments: Permit Application  
ACHCSA letter  
Site Plan  
Well Log

cc: Mr. Albert Blazic  
Blazic industrial balancing

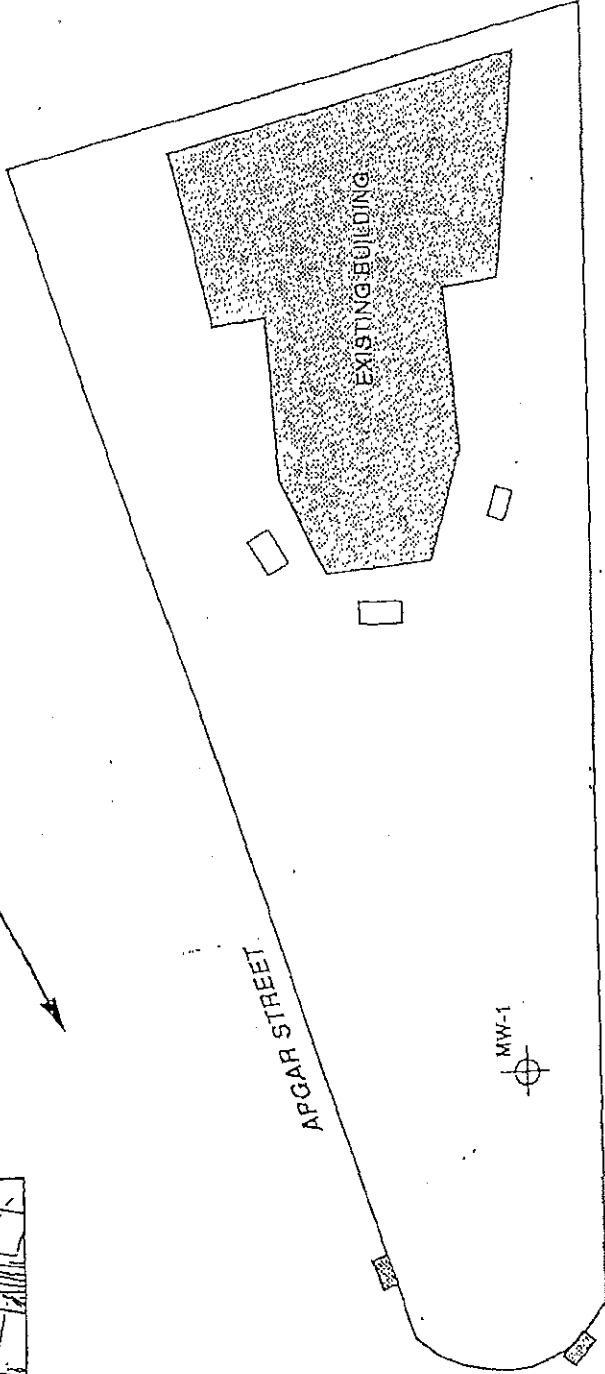
✓ Ms. Susan Hugo  
Alameda County Health Care Services Agency



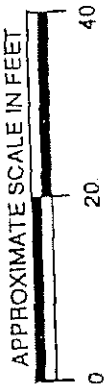
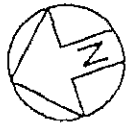


VICINITY MAP

ESTIMATED DIRECTION OF GROUNDWATER FLOW



	MONITORING WELL LOCATION
	FORMER TANK LOCATION
	STORM DRAIN



SITE PLAN	
BLAZIC INDUSTRIAL BALANCING OAKLAND, CALIFORNIA	PLATE <b>1</b>
JOB NUMBER 955.002	DATE 5/14/95
	APPROVED

# Subsurface Consultants

# LOG OF TEST BORING MW-1

EQUIPMENT 8-1" Dia. Hollow Stem Auger

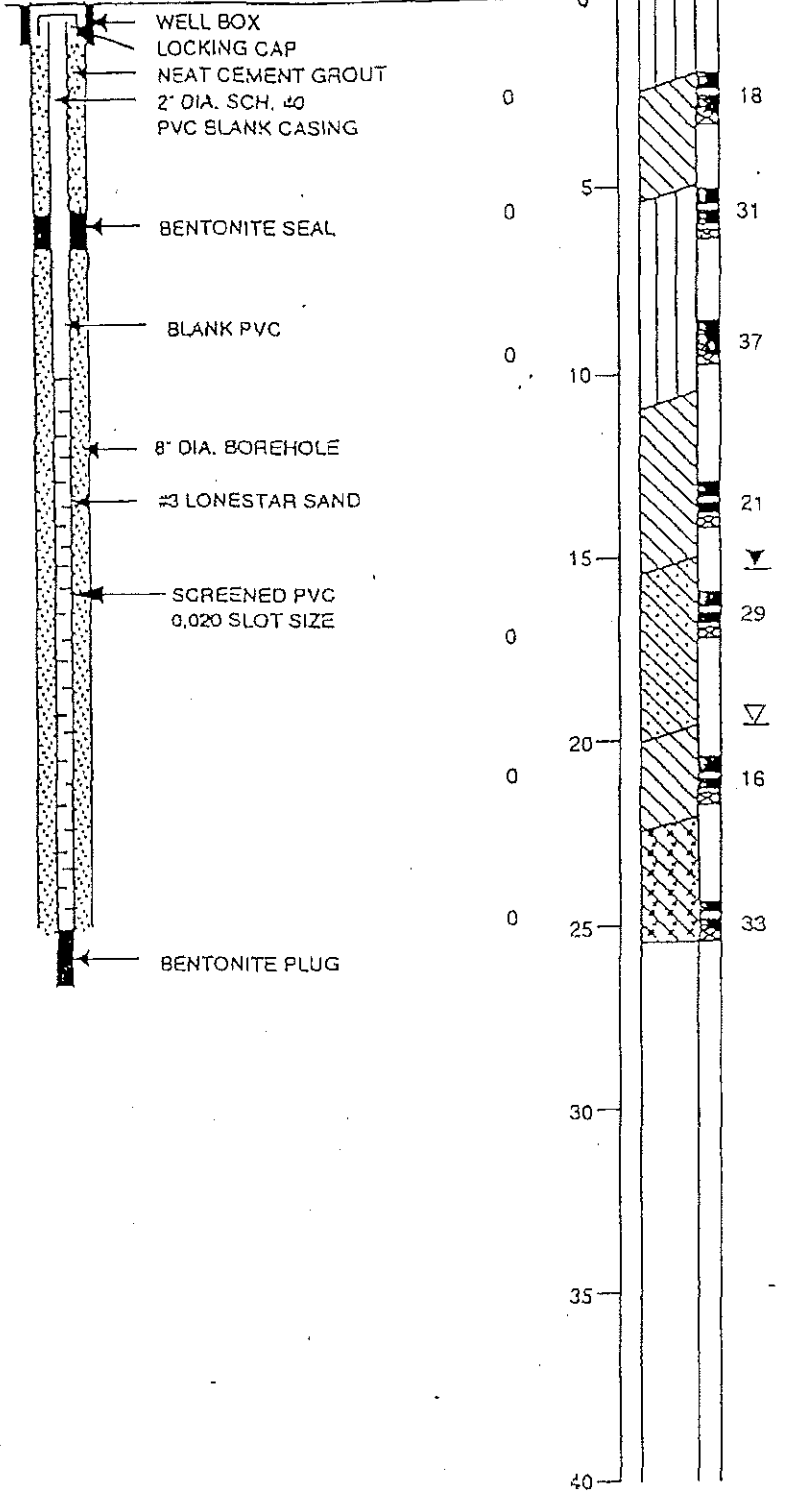
DATE DRILLED 6/18/96

ELEVATION \_\_\_\_\_

MOISTURE  
CONTENT %  
DRY  
DENSITY  
(pcf)  
OVR  
(ppm)

DEPTH  
(feet)

SAMPLE  
BLOWS  
PER  
FOOT



DEPTH (feet)	SAMPLE BLOWS PER FOOT	SOIL DESCRIPTION
0		BLACK SANDY SILT (ML) dry, stiff
0	18	OLIVE SILTY CLAY (CL) moist, stiff
0	31	BROWN OLIVE CLAYEY SILT (ML) very stiff, dry, with gravel to 1/4-inch Lenses of sand and gravel to 1.5-inch
0	37	MOTTLED GREEN-BROWN SANDY CLAY (CL) stiff, moist
0	21	GROUNDWATER LEVEL DURING WELL INSTALLATION
0	29	GREEN CLAYEY GRAVELLY SAND (SC) wet, dense GROUNDWATER LEVEL DURING DRILLING
0	16	BROWN SANDY CLAY (CL) stiff, wet, with gravel to 1/2-inch BROWN CLAYEY SANDY GRAVEL (GC) dense, wet
0	33	

Subsurface Consultants

BLAZIC INDUSTRIAL BALANCING - OAKLAND, CA  
 JOB NUMBER 955.002  
 DATE 6/28/96  
 APPROVED

PLATE  
**2**



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



July 23, 1997  
STID# 4575

Mr. Albert Blazic  
12 Altamount Drive  
Orinda, California 94563

RE: Case Closure - Blazic Industrial Balancing  
1016 West MacArthur Blvd., Oakland, California 94608

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

Dear Mr. Blazic:

The Alameda County Department of Environmental Health, Environmental Protection Division has recently received concurrence from the Regional Water Quality Control Board regarding this office determination that no further action is required concerning the removal of three 550 gallon gasoline underground storage tanks (USTs) at the above referenced site.

Please be advised that the groundwater monitoring well (MW-1) at the site must be properly decommissioned before our agency will issue the "Remedial Action Completion Certification" (closure letter) for the subject site. A report must be submitted documenting the abandonment of the monitoring wells. Additionally, you will need to notify this office 72 hours in advance of the well abandonment field activities.

If you have any questions concerning this letter, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo  
Senior Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health  
Gordon Coleman, Chief, Environmental Protection Division  
Kevin Graves, San Francisco Bay RWQCB  
SH/ files



COUNTY OF ALAMEDA  
**Assessor's Office**

**Property Value System**

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Parcel Number: **96-131-1-4**   Inactive: **N**   Lien Date: **01/01/2014**   Owner: **KENNY KEVIN D & ALLISON A**  
 Property Address: **KILKARE RD, SUNOL, CA 94586**  
 Current Mailing Address as of 08/20/2009: **KENNY KEVIN D & ALLISON A, 1411 KILKARE RD , SUNOL, CA 94586-9429**

[Parcel History](#)

Mailing Name		Historical Mailing Address	Document Date	Document Number	Value From Trans Tax	Parcel Count	Use
KENNY KEVIN D & ALLISON A	<a href="#">List Owners</a>	PO BOX 210 , SUNOL, CA 94586-0210	05/30/1997	1997-133652		1	<u>5100</u>
KENNY KEVIN D	<a href="#">List Owners</a>	PO BOX 601 , SUNOL, CA 94586-0601	12/14/1993	1993-435828		1	<u>5100</u>
KENNY KEVIN D & JILL M	<a href="#">List Owners</a>	PO BOX 601 , SUNOL, CA 94586-0601	10/03/1990	1990-263921		1	<u>5100</u>
KENNY KEVIN D & JILL M	<a href="#">List Owners</a>	1411 KILKARE RD , SUNOL, CA 94586-9429	06/29/1990	1990-178723	\$112,000	1	<u>5100</u>
YOUD JAMES C & FRANCES Q	<a href="#">List Owners</a>	1691 GREENWOOD RD , PLEASANTON, CA 94566-5509	07/23/1984	1984-148264	\$51,000	1	<u>5100</u>
COMPLETE NEW CREATION	<a href="#">List Owners</a>	329 HOWARD DR , SANTA CLARA, CA 95051-5812	04/13/1977	1977-68017	\$51,000	1	<u>5100</u>
BERLIND JAMES L	<a href="#">List Owners</a>	KILKARE RD , SUNOL, CA 94586	04/13/1972	1972-47800		1	<u>5100</u>

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

The Alameda County Intranet site is best viewed in Internet Explorer Version 5.5 or later.  
 Click [here](#) for more information regarding supported browsers.

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ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

August 28, 1997

Mr. Albert Blazic  
12 Altamount Drive  
Orinda, California 94563

**RE: STID # 4575 Blazic Industrial Balancing  
1016 West MacArthur Blvd., Oakland, California 94608**

Dear Mr. Blazic:


This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721 (e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung, Director

- c: Gordon Coleman, Chief, Environmental Protection Division
- Kevin Graves, San Francisco Bay RWQCB
- Dave Deaner, SWRCB, UST Cleanup Fund Program (with enclosure)
- Leroy Griffin, Oakland Fire Department
- William Rudolph, SCI, 171 - 12th Street, Suite 205, Oakland, California 94607
- Susan Hugo (3 copies of letter only)

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

August 28, 1997

Mr. Albert Blazic  
12 Altamount Drive  
Orinda, California 94563

**RE: Fuel Leak Site Case Closure - Blazic Industrial Balancing (STID# 4575)  
1016 West MacArthur Boulevard, Oakland, California 94609**

Dear Mr. Blazic:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 ( Article 4, Section 25299.37 [h] ). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health Services, Local Oversight Program is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

**Site Investigation and Cleanup Summary:**

Please be advised that the following conditions exist at the site:

- \* One thousand nine hundred parts per million (ppm) Total Petroleum Hydrocarbon as Gasoline, 1.6 ppm benzene, 5.2 ppm toluene, 31 ppm ethylbenzene and 120 ppm xylene remain in the soil at the site near the former tank area.

If you have any questions, please contact me at (510) 567-6780. Thank you

Sincerely,

A handwritten signature in cursive script that reads "Susan L. Hugo".

Susan L. Hugo  
Hazardous Materials Specialist

**Enclosures:**

1. Case Closure Letter
2. Case Closure Summary

cc: Gordon Coleman, Chief, Environmental Protection Division  
Leroy Griffin, Oakland Fire Department  
William Rudolph, SCI, 171 -12th Street, Suite 205, Oakland, California 94607  
SH ( 3 copies of letter only)

01-1747

ENVIRONMENTAL  
**CASE CLOSURE SUMMARY**  
Leaking Underground Fuel Storage Tank Program  
97 JUL 22 PM 4: 11

**I. AGENCY INFORMATION**                      **Date: June 14, 1997**

Agency Name: **Alameda County-HazMat**    Address: **1131 Harbor Bay Parkway**  
City/State/ Zip: **Alameda, CA 94502**      Phone: **(510) 567-6700**  
Responsible Staff Person: **Susan L. Hugo**    Title: **Senior Hazardous Materials Specialist**

**II. CASE INFORMATION**

Site Facility Name: **Blazic Industrial Balancing**  
Site Facility Address: **1016 West MacArthur Blvd., Oakland, CA 94608**  
RB LUSTIS Case No. : **N/A**                      Local Case No./ LOP Case No. **4575**  
URF Filing Date: **2/8/94**                      SWEEPS No.: **N/A**

**Responsible Parties:                      Addresses:                      Phone Numbers:**

**Mr. Albert Blazic                      12 Altamount Drive**  
**Orinda, California 94563**

Tank No.	Size in gal.	Contents:	Closed in-place or removed?:	Date:
1	550	Gasoline	Removed	8/23/93
2	550	Gasoline	Removed	8/23/93
3	550	Gasoline	Removed	8/23/93

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: **Tanks leaked, holes found in the USTs**  
Site characterization complete: **YES**  
Date approved by oversight agency: **3/30/95**  
Monitoring wells installed ? **YES**                      Number: **One (1)**  
Proper screened interval ? **YES (10' to 25' )**  
Highest GW depth below ground surface: **13.5' (12/6/96)**  
Lowest depth: **15.0' (6/19/96)**    Flow direction: **Generally to the west towards the SF. Bay.**  
Most sensitive current use: **Commercial**  
Are drinking water wells affected ? **NO**                      Aquifer Name: **N/A**  
Is surface water affected ? **NO**                      Nearest affected SW name: **N/A**  
Off-site beneficial use impacts (address / location): **Unknown**  
Report (s) on file ? **YES**  
Where is report (s) filed ? **Alameda County, 1131 Harbor Bay Parkway, Alameda, CA 94502**

**Treatment and Disposal of Affected Materials:**

<b>Materials</b>	<b>Amount (Include Units)</b>	<b>Action (Treatment / or Disposal w/ Destination)</b>	<b>Date</b>
Tank	Three - 550 gallon	Disposed at H & H Ship Service Co. 220 China Basin St., San Francisco, CA	8/23/93
Soil	Approx. 40 yards	Redwood Landfill, Novato, CA	2/7/94

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

<b>Contaminant</b>	<b>Soil (ppm)</b>		<b>Water (ppb)</b>	
	<b>Before*</b>	<b>After**</b>	<b>Before***</b>	<b>After****</b>
TPH gasoline	250	1,900	7,800	ND
Benzene	0.05	1.6	29	ND
Toluene	0.33	5.2	23	ND
Ethylbenzene	1.4	31.0	130	ND
Xylene	3.6	120	210	ND
Lead	8.9	-	4.5	ND
MTBE	-	-	-	ND

\* Soil samples collected from the bottom of the excavation at 10 ft bgs. following the UST removals on 8/23/93.

\*\* Soil samples collected from the bottom of the north tank at 15 ft. bgs following limited overexcavation on 12/20/93.

\*\*\* Groundwater samples collected from borings B1 & B2 on 4/20/95.

\*\*\*\* Groundwater sample collected from monitoring well MW-1 on 12/6/96.

**Comments (Depth of Remediation, etc.):** See "Additional Comments" section.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan ? **Undetermined**

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan ? **Undetermined**

Does corrective action protect public health for current land use ? **YES**  
Site management requirements: **NA**



Should corrective action be reviewed if land use changes ? **YES**

Monitoring wells Decommissioned : **No, waiting for RWQCB signoff**

Number Decommissioned: **None**      Number Retained: **One (1)**

List enforcement actions taken: **NA**

List enforcement actions rescinded: **NA**

#### **V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: **Susan L. Hugo**      Title: **Senior Hazardous Materials Specialist**

Signature: *Susan L. Hugo*      Date: **7-9-97**

**Reviewed by:**

Name: **Kevin Tinsley**      Title: **Hazardous Materials Specialist**

Signature: *Kevin Tinsley*      Date: **7-9-97**

Name: **Thomas Peacock**      Title: **Manager, LOP Program**

Signature: *Thomas Peacock*      Date: **7-8-97**

#### **VI. RWQCB NOTIFICATION**

Date Submitted to RB: **7-9-97**      RB Response: *Approved*

RWQCB Staff Name: **Kevin Graves**      Title: **Water Resources Control Engineer**

Signature: *Kevin Graves*      Date: **7-18-97**

#### **VII. ADDITIONAL COMMENTS, DATA, ETC.**

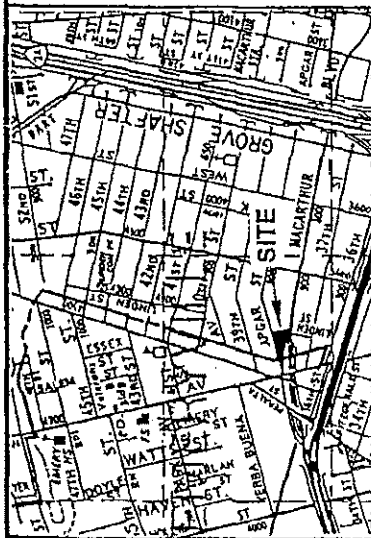
Three 550-gallon underground storage tanks (USTs) were removed from the site on August 23, 1993. The former tanks were reportedly filled with sand in the early 1970's with the approval from the Oakland Fire Department and had been out of service for about 35 years. Soil samples collected from the bottom of the tank excavations at approximately 10 feet below ground surface (bgs), showed petroleum hydrocarbon contamination at concentrations listed in Table 1.

Limited overexcavation was conducted on December 20, 1993 and confirmation sidewall and bottom samples indicated the presence of petroleum hydrocarbon at concentrations listed in the Table 1. On April 20, 1995, additional investigation was conducted to evaluate the presence of petroleum hydrocarbons and lead near the former USTs. Four borings were drilled and soil samples collected at 15 feet to 18 feet found petroleum hydrocarbon contamination (see Table 1). Grab groundwater samples were also collected from borings B1 and B2. The groundwater samples identified the presence of dissolved petroleum hydrocarbon contamination at the site.

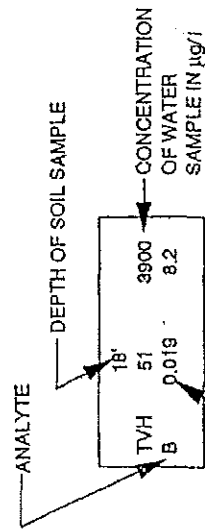
On 6/19/96, further site characterization was conducted by installing a groundwater monitoring well (MW-1) within 50 feet southwest of the former tank area, in the estimated downgradient direction. The well was completed to a depth of 25 feet with a screen interval from 10 to 25 feet bgs. One soil sample was collected at 16 feet bgs and found no detectable concentration of TPH gasoline, BTEX and MTBE ( see Table 1). The groundwater sample collected from the well also found non detectable concentration of TPH gasoline, BTEX and MTBE ( see Table 2). Two quarters of groundwater monitoring were conducted at the site. Groundwater sampling conducted on 9/6/96 found low levels of contamination but the last sampling event conducted on 12/6/96 found no detectable concentration of TPH gasoline, BTEX and MTBE.

This site is a low risk groundwater case. The rationale for recommending case closure for the subject site are as follows:

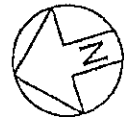
- 1) Aggressive source removal has occurred at the site. The USTs were removed in 1993. Limited overexcavation was conducted around the former tank area and confirmation samples showed low levels of residual soil contamination left at the site. The source area and ongoing sources have been removed to the extent feasible. In addition, the USTs have not been used for approximately 35 years.
- 2) The site has been adequately characterized. The residual soil contamination appeared to be limited in the former tank area. The extent of soil and groundwater contamination is adequately defined.
- 3) No water wells, deeper drinking water wells, surface water or other sensitive receptors are likely to be impacted. Petroleum hydrocarbon contamination appears to be localized in the vicinity of the former tank area.
- 4) The site does not appear to present a significant risk to human health and the environment. Confirmation soil samples collected after overexcavation of the tank area revealed no detectable benzene concentration with the exception of one sample collected at 15 feet bgs with 1.6 ppm benzene. This concentration does not exceed the ASTM RBCA CA- modified Tier 1 RBSL value (13.25 ppm) for a 1E-04 (1 in 10,000) excess cancer risk for the exposure pathway "Soil -Volatilization to Outdoor Air", for a commercial / industrial receptor scenario. In addition, benzene was not detected in the groundwater during the entire monitoring period (6/19/96 to 12/6/96).



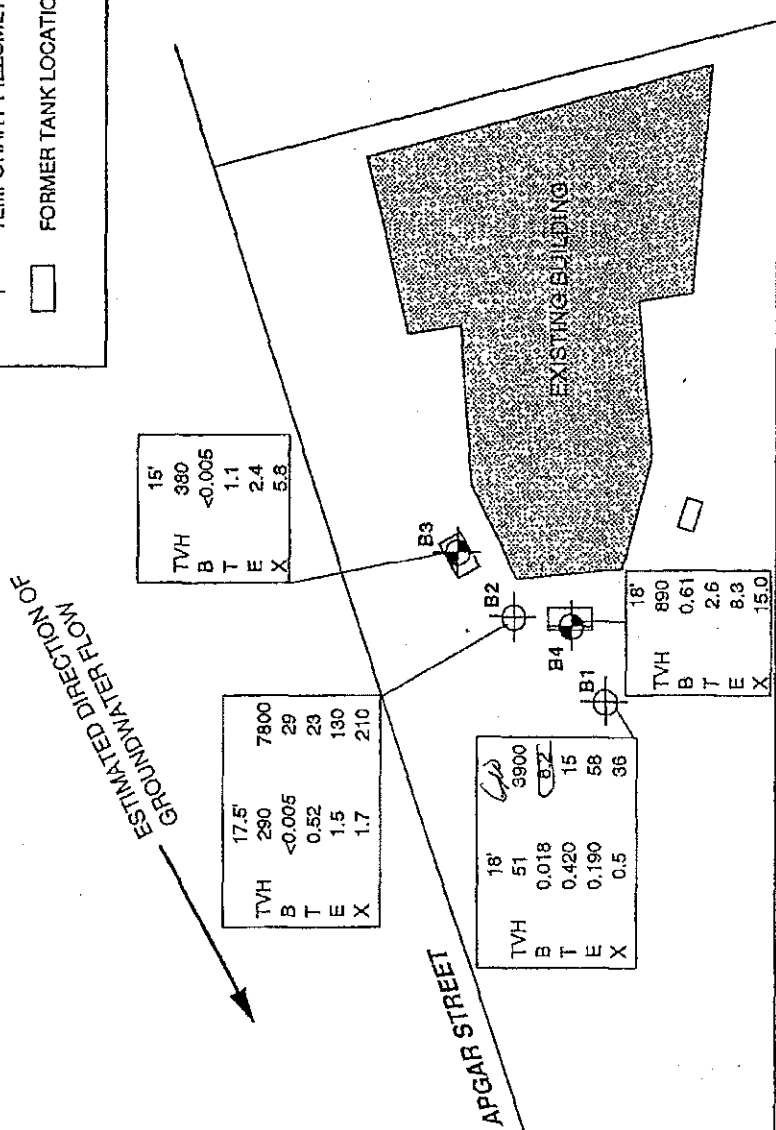
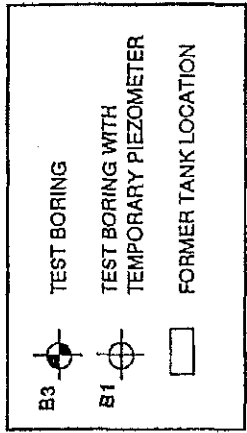
VICINITY MAP



TVH = TOTAL VOLATILE HYDROCARBONS  
 B = BENZENE  
 T = TOLUENE  
 E = ETHYLBENZENE  
 X = TOTAL XYLENES



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15'

TVH	380
B	<0.005
T	1.1
E	2.4
X	5.8

TVH	17.5	7800
B	290	29
T	<0.005	23
E	0.52	130
X	1.5	210

18'

TVH	51	3900
B	0.018	15
E	0.420	58
X	0.5	36

18'

TVH	890
B	0.61
T	2.6
E	8.3
X	15.0

SITE PLAN

BLAZIC INDUSTRIAL BALANCING OAKLAND, CALIFORNIA		PLATE
JOB NUMBER	DATE	APPROVED
955.001	5/14/95	TZ
		1

**Table 1.**  
**Analytical Results - Soil Samples**

<u>Sample Location and Depth (feet)</u>	<u>Date Sampled</u>	<u>TVH (mg/kg)</u>	<u>Benzene (ug/kg)</u>	<u>Toluene (ug/kg)</u>	<u>Ethylbenzene (ug/kg)</u>	<u>Total Xylenes (ug/kg)</u>	<u>Lead (mg/kg)</u>	<u>MTBE (ug/kg)</u>
MW-1 @ 16	6/19/96	>1	>5	>5	>5	>5	--	>70

**SCI Test Borings Investigation April 1995**

B1 @ 15.5	4/20/95	1.5	<5.0	<5.0	9.1	<5.0	10	--
B1 @ 18.0	4/20/95	51	18*	420*	190	500	13	--
B2 @ 9.0	4/20/95	<1.0	<5.0	<5.0	<5.0	<5.0	13	--
B2 @ 17.5	4/20/95	290**	<5.0	520	1,500	1,700	16	--
B3 @ 15.0	4/20/95	380	<5.0	1,100	2,400	5,800	5.1	--
B3 @ 17.0	4/20/95	22	<5.0	82	410	620	5.2	--
B4 @ 15.0	4/20/95	230	<5.0	<5.0	2,900	16,000	14	--
B4 @ 18.0	4/20/95	890	610*	2,600	8,300	15,000	13	--

**Studies by Others**

NT Bottom @ 15'	12/20/93	1,900	1,600	5,200	31,000	120,000	NA	--
NT N. Wall @ 13'	12/20/93	6	<5	7	12	73	NA	--
NT S. Wall @ 13'	12/20/93	45	<25	30	120	240	NA	--
NT W. Wall @ 1	12/20/93	<1	<5	<5	<5	<5	NA	--
NT E. Wall @ 13'	12/20/93	<1	<5	<5	<5	<5	NA	--
MT Bottom @ 14'	12/20/93	230	<50	180	620	1,200	NA	--
MT N. Wall @ 12	12/20/93	2	<5	5	<5	30	NA	--
MT S. Wall @ 12'	12/20/93	<1	<5	<5	<5	<5	NA	--
MT W. Wall @ 1	12/20/93	3	<5	5	<5	6	NA	--
MT E. Wall @ 12	12/20/93	<1	<5	<5	<5	<5	NA	--
NT @ 10'	8/23/93	170	<48	<52	1,400	3,600	6.6	--
MT @ 10'	8/23/93	250	52	330	<55	3,300	8.9	--
ST @ 10'	8/23/93	<0.5	<5	<5	<5	19	11	--

**Notes:**

TVH = Total volatile hydrocarbons

mg/kg = Milligrams per kilogram

ug/kg = Micrograms per kilogram

<5.0 = Analyte not reported above the detection limit stated

\* = Presence of this compound confirmed by second column; however the confirmation concentration differed from the reported result by more than a factor of two

\*\* = Sample chromatogram does not resemble the gasoline standard pattern

NA = Not analyzed

NT = North tank

ST = South Tank

MT = Middle Tank

**Table 2**  
**Analytical Results - Groundwater Samples**

DTW

Boring Number	Date Sampled	TVH (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Lead (ug/l)	MTBE (ug/l)
B1	4/20/95	3,900	8.2	15*	58	36	4.5	--
B2	4/20/95	7,800	29	23*	130	210	<3.0	--
MW-1	6/19/96	<50	<0.5	<0.5	<0.5	<0.5	--	<2.0
	9/6/96	59 z	<0.5	1.3	<0.5	1.1	--	<2.0
	12/6/96	<50	<0.5	<0.5	<0.5	<0.5	--	<2.0

15.00  
 14.04 ft  
 13.5 ft

Notes:

TVH = Total volatile hydrocarbons

ug/l = micrograms per liter

MTBE = Methly tertiary butyl ether

<0.5 = Analyte not detected above the stated laboratory reporting limit

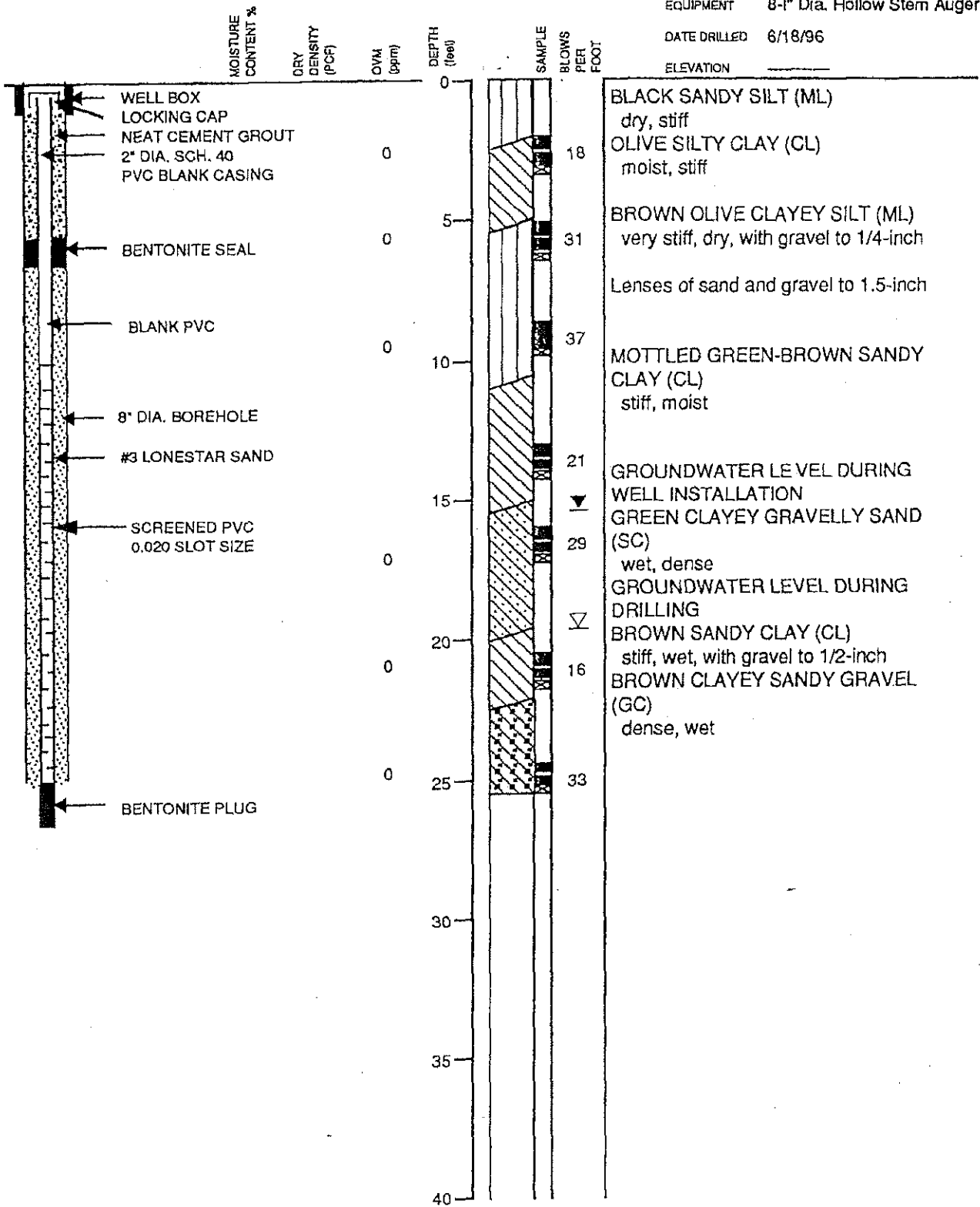
z = Sample exhibits unknown single peak or peaks

\* = Presence of this compound confirmed by second column; however the confirmation concentration differed from the reported result by more than a factor of two

-- = Not Tested

# LOG OF TEST BORING MW-1

EQUIPMENT 8-1" Dia. Hollow Stem Auger  
 DATE DRILLED 6/18/96  
 ELEVATION \_\_\_\_\_



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BLAZIC INDUSTRIAL BALANCING - OAKLAND, CA

PLATE

JOB NUMBER  
955.002

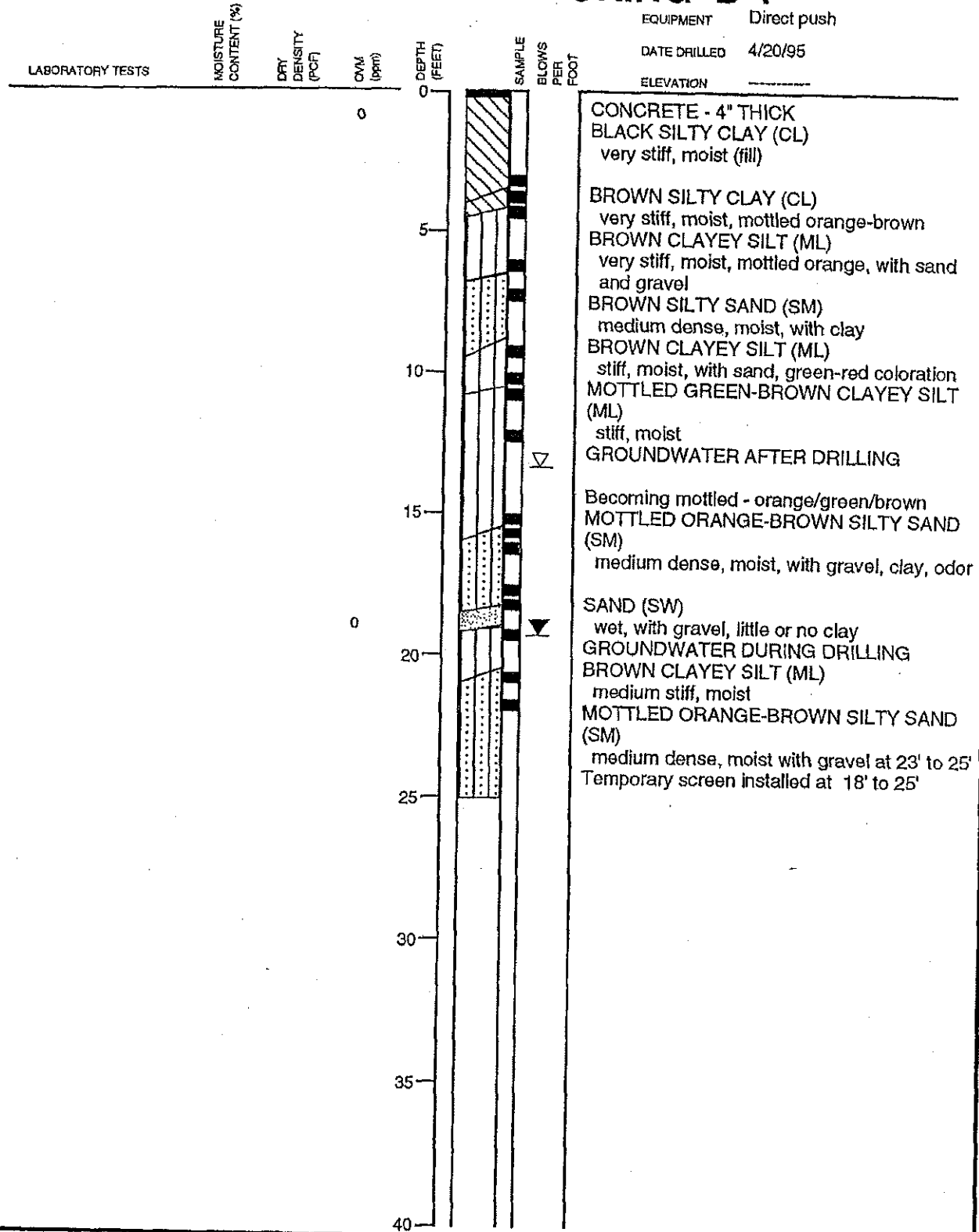
DATE  
6/28/96

APPROVED

2



# LOG OF TEST BORING B-1



CONCRETE - 4" THICK  
 BLACK SILTY CLAY (CL)  
 very stiff, moist (fill)

BROWN SILTY CLAY (CL)  
 very stiff, moist, mottled orange-brown

BROWN CLAYEY SILT (ML)  
 very stiff, moist, mottled orange, with sand and gravel

BROWN SILTY SAND (SM)  
 medium dense, moist, with clay

BROWN CLAYEY SILT (ML)  
 stiff, moist, with sand, green-red coloration

MOTTLED GREEN-BROWN CLAYEY SILT (ML)  
 stiff, moist

GROUNDWATER AFTER DRILLING

Becoming mottled - orange/green/brown

MOTTLED ORANGE-BROWN SILTY SAND (SM)  
 medium dense, moist, with gravel, clay, odor

SAND (SW)  
 wet, with gravel, little or no clay

GROUNDWATER DURING DRILLING

BROWN CLAYEY SILT (ML)  
 medium stiff, moist

MOTTLED ORANGE-BROWN SILTY SAND (SM)  
 medium dense, moist with gravel at 23' to 25'

Temporary screen installed at 18' to 25'

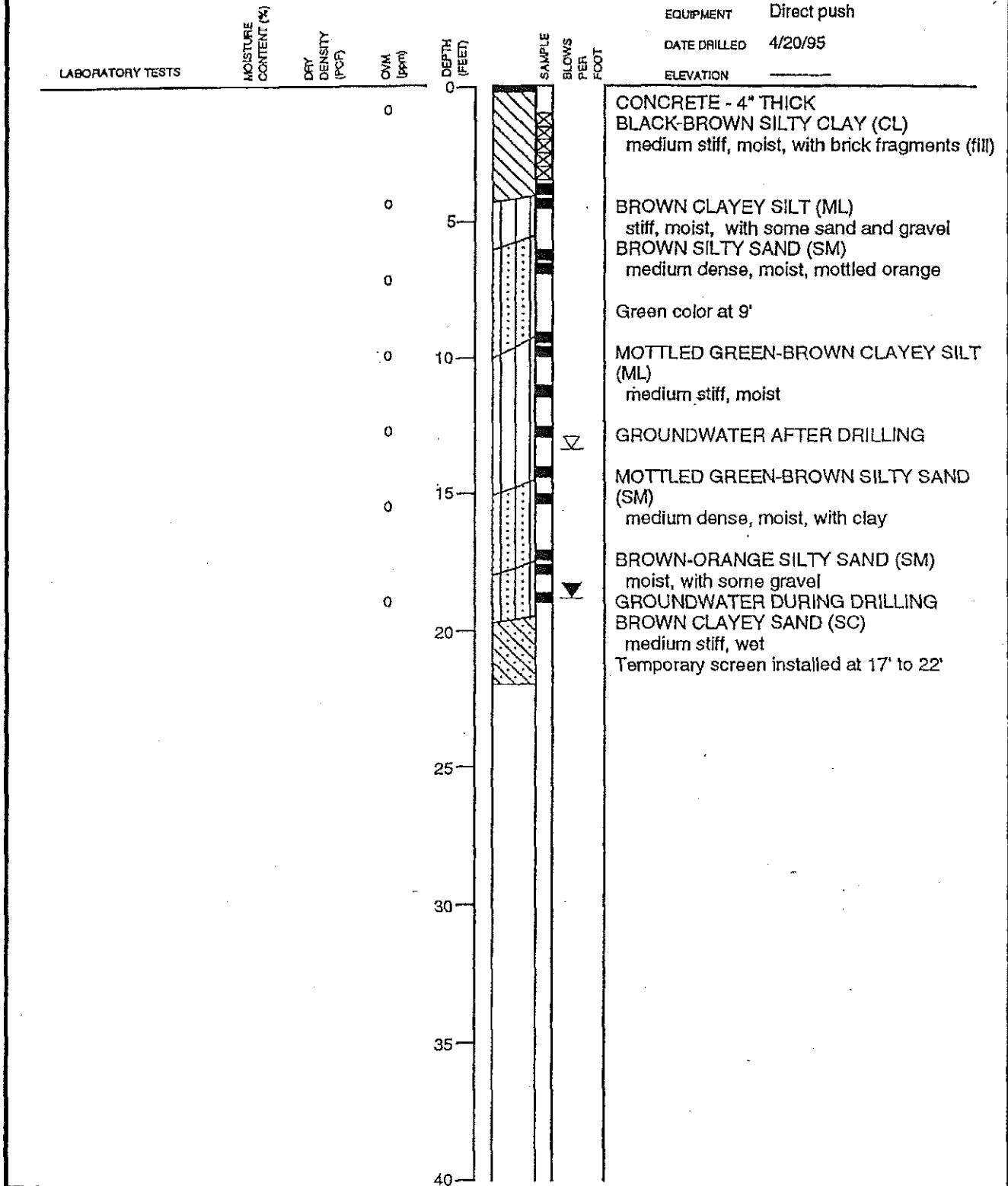
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JOB NUMBER: 955.001      DATE: 5/17/95      APPROVED: T2

PLATE  
**2**

# LOG OF TEST BORING B-2



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PLATE

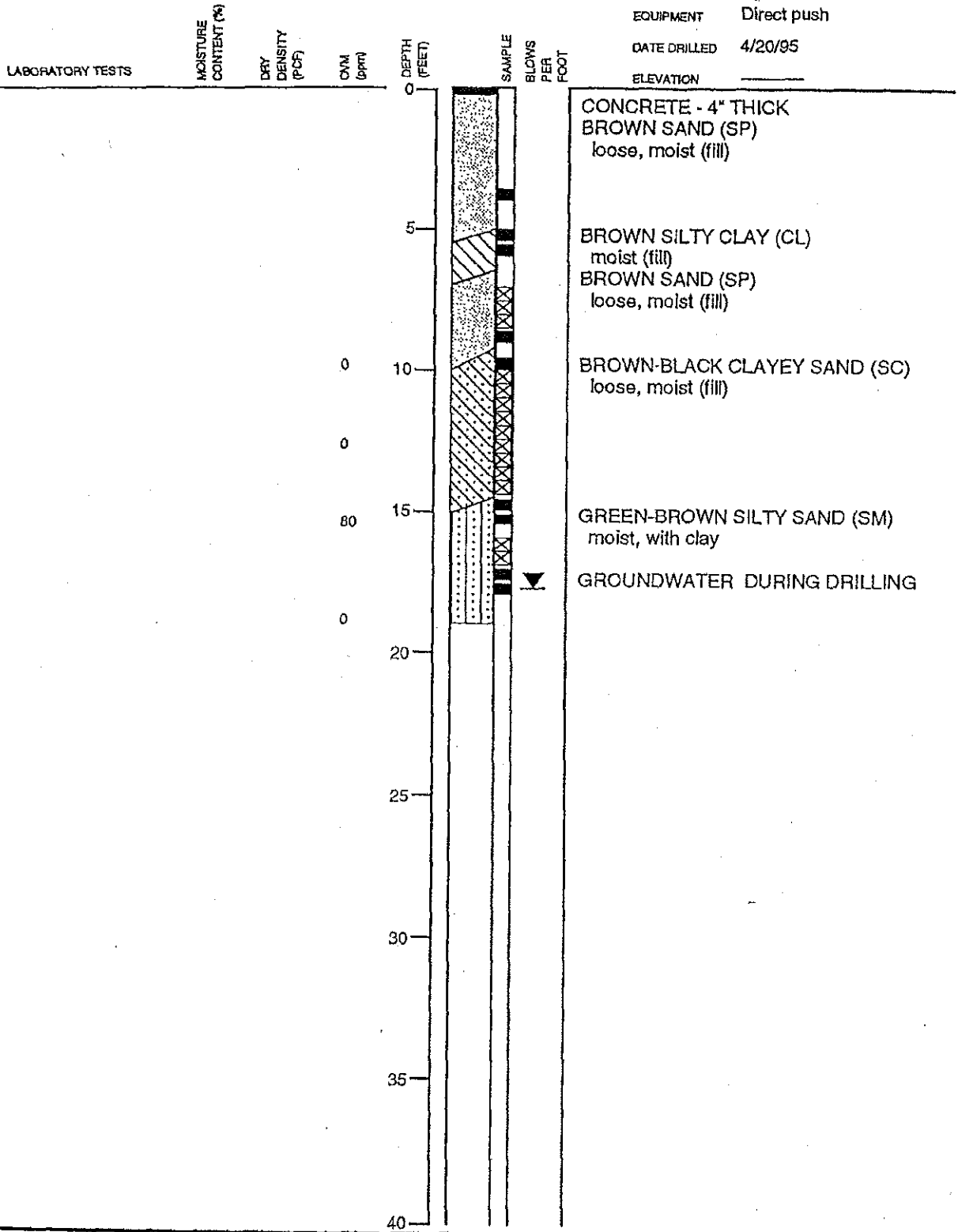
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DATE  
5/17/95

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*TZ*

3

# LOG OF TEST BORING B-3



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PLATE

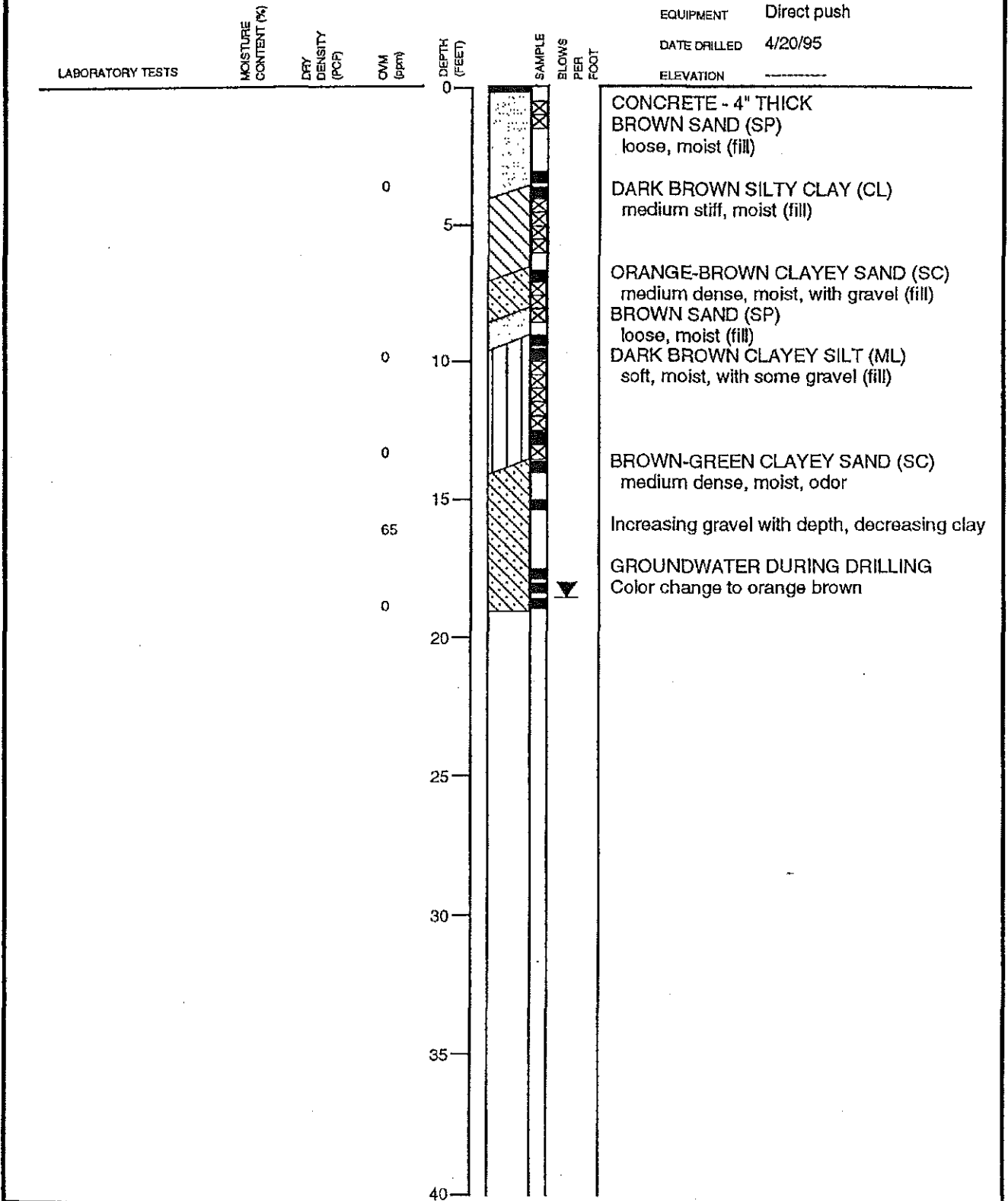
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5/17/95

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# LOG OF TEST BORING B-4



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JOB NUMBER  
955.001

DATE  
5/17/95

APPROVED  
*TJ*

PLATE

5

