



### Harding Lawson Associates

Engineering and Environmental Services

1355 Willow Way, Suite 109, Concord, California 94520  
(510) 687-9660

569-4757

Addressee's Fax Phone #: \_\_\_\_\_ HLA Fax #: (510) 687-9673

To: Ms. Susan Hugo From: Jeanne Hudson

Subject: \_\_\_\_\_

500 Grand Avenue, Oakland / Decommission Wells

Date: May 13, 1992

HLA Job Number: 2251, 223.03

Non-chargeable: \_\_\_\_\_

Number of Pages (including this cover sheet): 14

- Circulate to: 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

Instructions/Remarks: Attached is the letter for proposed well decommissioning at 500 Grand Avenue. Hand copy mailed today. Feel free to call with questions or comments.  
JHudson

\* \* \* \* \*

**IF YOU DID NOT RECEIVE ALL PAGES**

**PLEASE CALL (510) 687-9660**



SECRET EMB: 13  
STID 1109

May 13, 1992

2251,223.03

Alameda County Health Agency  
Division of Hazardous Materials  
80 Swan Way, Room 350  
Oakland, California 94621

Attention: Ms. Susan Hugo

Dear Ms. Hugo:

Proposal to Decommission Monitoring Wells  
500 Grand Avenue  
Oakland, California

On behalf of Texaco Refining and Marketing, Inc. (Texaco), Harding Lawson Associates (HLA) wishes to inform you of our plan to decommission three monitoring wells at the subject location.

Between 1988 and late 1991, this site was occupied by a service station operated by Exxon Company U.S.A. (Exxon). Prior to 1988, the station was operated by Texaco. In December 1991, Exxon's lease from Texaco expired, and station operations were discontinued.

In April 1992, Zaccor, Inc. (Zaccor) was contracted by Texaco to demolish the building, and to remove three underground storage tanks, two dispenser islands, and associated piping. HLA was on-site to observe the operations and collect soil samples. Excavated pea gravel was disposed of at an appropriate facility and the tank excavation was backfilled with clean imported fill.

Zaccor resumed excavation at the site on May 5, 1992, and removed approximately 1000 cubic yards of hydrocarbon-bearing soil. This soil is stockpiled on site and excavation has temporarily ceased while we arrange for disposal of the soil. We anticipate that additional excavation will be necessary.

Three of the four on-site monitoring wells (MW-3E, MW-3A, and MW-3B) are in areas of probable soil contamination on the west side of the property (Plate 1). It will be more efficient and easier to excavate contaminated soil if the wells are removed prior to excavating. HLA has submitted permit applications for

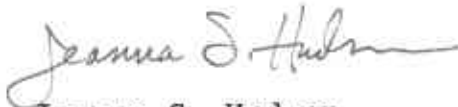
May 13, 1992  
2251,223.03  
Ms. Susan Hugo  
Alameda County Health Agency  
Page 2

destruction of these wells to the Alameda Flood Control District, Zone 7. We anticipated decommissioning the wells on April 14. However, it will be better logistically to wait until the stockpiled soil is removed from the site before we move a drilling rig on-site.

Soil boring logs, well construction details, and analytical data are attached. We recognize the importance of these on-site wells for monitoring groundwater conditions at the site, and we plan to install new wells when the excavation work is complete. Please feel free to contact us if you wish to discuss plans for decommissioning the wells and/or installing new wells.

Sincerely,

HARDING LAWSON ASSOCIATES



Jeanna S. Hudson  
Senior Geologist



Edward R. Close  
Principal Geologist

JSH/ERC/11t 033073P/L35

Table 1. (continued)

Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	TPH as Gasoline	TPH as Diesel	TPH Other <sup>2</sup>
MW-8E	10/25/88	1,400	510	2.9	420	--	--	--
	09/28/89	5,600	3,100	<500	<3,000	22,000	--	--
	11/29/89	4,900	2,600	<250	1,490	15,000	6,800	<50
	01/24/90	10,100	3,340	540	1,790	36,000	--	4,900
	04/26/90	11,000	5,700	840	2,900	48,000	1,400	<50
	07/26/90	15,000	6,200	520	4,700	56,000	<50	<50
	(10/18/90)	1,500	1,300	170	1,800	15,000	620	<50
	01/08/91	14,000	5,400	860	1,700	51,000	17,000	520 <sup>3</sup>
	04/23/91	19,000	6,100	750	4,100	50,000	4,800	<500
	07/23/91	16,000	5,400	1,100	4,000	47,000	3,500 <sup>4</sup>	<500
	10/24/91	19,000	6,100	1,100	4,900	40,000	9,400	<500
	01/23/92	3,800	2,800	610	4,800	38,000	9,800 <sup>4</sup>	--
MW-8F	04/14/89	<0.5	<1	<2	<1	--	--	--
	09/28/89	<0.5	<0.5	<0.5	<3	<50	--	--
	11/29/89	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	01/24/90	<0.5	<0.5	<0.5	<0.5	<100	--	<300
	04/26/90	<0.5	<0.5	<0.5	<0.5	<50	<50	110
	(07/26/90)	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	10/18/90	<0.5	<0.5	<0.5	<0.5	<50	360	<50
	01/08/91	<0.3	<0.3	<0.3	<0.3	<30	380	620 <sup>3</sup>
	04/23/91	5.9	3.1	<0.5	2.7	<50	1,400	3,200
	07/23/91	<0.5	0.8	<0.5	<0.5	<50	60	<500
	10/24/91	<0.5	<0.5	<0.5	<0.5	<50	<50	<500
	01/23/92	4.0	1.3	<0.5	1.9	<50	1,300 <sup>5</sup>	--
MW-8G	04/14/89	<0.5	<1	<2	<1	--	--	--
	09/28/89	<0.5	<0.5	<0.5	<3	<50	--	--
	11/29/89	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	01/24/90	<0.5	<0.5	<0.5	<0.5	<100	--	650
	04/26/90	<0.5	<0.5	<0.5	<0.5	<50	<50	120
	(07/26/90)	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	10/18/90	<0.5	<0.5	<0.5	<0.5	<50	460	<50
	01/08/91	<0.3	<0.3	<0.3	<0.3	<30	220	260 <sup>3</sup>
	04/23/91	0.9	0.9	<0.5	<0.5	<50	1,100	<500
	07/23/91	0.5	1.5	<0.5	3.0	<50	<50	<500
	10/24/91	0.6	<0.5	<0.5	<0.5	<50	--	--
	01/24/92	<0.5	<0.5	<0.5	<0.5	<50	980 <sup>5</sup>	--

Table 1. (continued)

<u>Well</u>	<u>Date</u> <u>Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-</u> <u>benzene</u>	<u>Xylenes</u>	<u>TPH as</u> <u>Gasoline</u>	<u>TPH as</u> <u>Diesel</u>	<u>TPH</u> <u>Other<sup>2</sup></u>
MW-8H	01/24/90	14.8	14.8	10.8	38.8	460	--	<300
	04/26/90	67	19	43	64	830	<50	820
	(07/26/90)	45	1.3	12	8.2	190	<50	<50
	10/18/90	17	2.5	14	8.5	300	<50	<50
	01/08/91	12	2.2	6.4	4.0	320	180	89 <sup>3</sup>
	04/23/91	1.5	<0.5	<0.5	<0.5	<50	730	<500
	07/23/91	21	1.8	9.7	2.6	270	<50	<500
	10/24/91	7.6	1.0	3.5	2.4	120	70	<500
01/23/92	7.2	1.2	4.7	3.2	110	60 <sup>5</sup>	--	
MW-8I	01/24/90	116	2.9	13	30.5	580	--	440
	04/26/90	2,400	100	230	350	4,400	<50	1,400
	(07/26/90)	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	10/18/90	92	4.1	37	21	530	<50	<50
	01/08/91	500	4.3	36	26	1,300	710	210 <sup>3</sup>
	04/23/91	1,600	17	100	86	1,500	1,100	900
	07/23/91	1,600	30	140	63	1,700	260	<500
	10/25/91	470	6.0	76	13	760	230	<500
01/23/92	420	7.2	27	20	820	210 <sup>4</sup>	--	
MW-8J	01/24/90	2.7	<0.5	1	2.6	<100	--	<300
	04/26/90	28	7.7	19	24	160	<50	320
	(07/26/90)	<0.5	<0.5	<0.5	<0.5	<50	<50	<50
	10/18/90	8.3	<0.5	2.6	1.5	<50	<50	<50
	01/08/91	0.41	<0.3	<0.3	0.52	71	<50	69 <sup>3</sup>
	04/23/91	16	2.2	9.3	4.6	300	550	<500
	07/23/91	4.6	<0.5	3.1	<0.5	<50	<50	<500
	10/24/91	0.8	<0.5	<0.5	<0.5	<50	<50	<500
01/23/92	0.8	<0.5	<0.5	<0.5	<50	<50	--	
OB-3	11/06/89	420	8	6	64	4,000	--	--
	04/26/90	160	19	5	8.6	1,000	3,200	<50
	(07/26/90)	<0.5	<0.5	<0.5	0.9	68	1,200	<50
	10/18/90	260	69	35	490	3,200	2,100	<50
	01/08/91	--	--	--	--	--	--	--
	04/23/91	--	--	--	--	--	--	--
	07/23/91	--	--	--	--	--	--	--
	10/24/91	--	--	--	--	--	--	--
01/23/92	--	--	--	--	--	--	--	

Table 1. (continued)

<u>Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Xylenes</u>	<u>TPH as Gasoline</u>	<u>TPH as Diesel</u>	<u>TPH Other<sup>2</sup></u>
08-4	11/06/89	500	11	10	24	4,000	--	--
	04/26/90	360	10	10	18	460	3,900	<50
	(07/26/90)	23	3.7	1.6	5.9	200	1,600	<50
	10/18/90	600	540	83	840	4,300	330	<50
	01/08/91	--	--	--	--	--	--	--
	04/23/91	--	--	--	--	--	--	--
	07/23/91	--	--	--	--	--	--	--
	10/24/91	--	--	--	--	--	--	--
	01/23/92	--	--	--	--	--	--	--
DWAL			1.0	680	100	1,750		

DWAL Drinking water action levels, State of California Department of Health Services (April, 1989).

- 1 <0.5 indicates that concentrations are below the reporting limit of 0.5  $\mu\text{g}/\text{l}$ .
- 2 "Heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil.
- 3 TPH as motor oil analyses; analyst did not feel that motor oil was indicated on the chromatogram.
- 4 Petroleum hydrocarbons quantified as diesel appear to be light hydrocarbons
- 5 Petroleum hydrocarbons quantified as diesel appear to be heavier hydrocarbons than diesel.

(07/26/90) Sample not analyzed for BTEX and TPH as gasoline within 14-day holding time

-- Samples not collected/not analyzed for compound

EUCLID AVENUE

NOTE:  
Gas lines and cable TV  
under sidewalk/landscaping



EXPLANATION

- Monitoring Well
- Observation Well
- Soil Boring
- Decommissioned Monitoring Well
- Ground-Water flow direction
- Bench Mark (HLA datum el. = 100 Feet)

UTILITIES

- Electrical
- Telephone
- Gas
- Sanitary
- Water
- Air
- Approximate location of vent lines
- Anode line

8-inch  
sewer main

GRAND AVENUE

Unknown  
utility

MW-8H

MW-8A

B-5

B-10

B-8

B-9

B-12

MW-8B

Apartments

Sidewalk

Landscaping

Office

Canopy

Dispensers

B-3

B-13

MW-8I

B-7

Service Area

Former waste  
oil tank

OB-4

OB-1

B-11

B-2

Property  
Boundary

MW-8F

B-14

MW-8J

B-1

B-14

MW-8D

OB-2

B-11

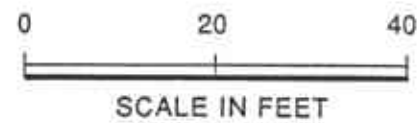
Concrete  
Retaining  
Wall

MW-8G

MW-8C

B-4

B-8K



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Engineering and  
Environmental Services

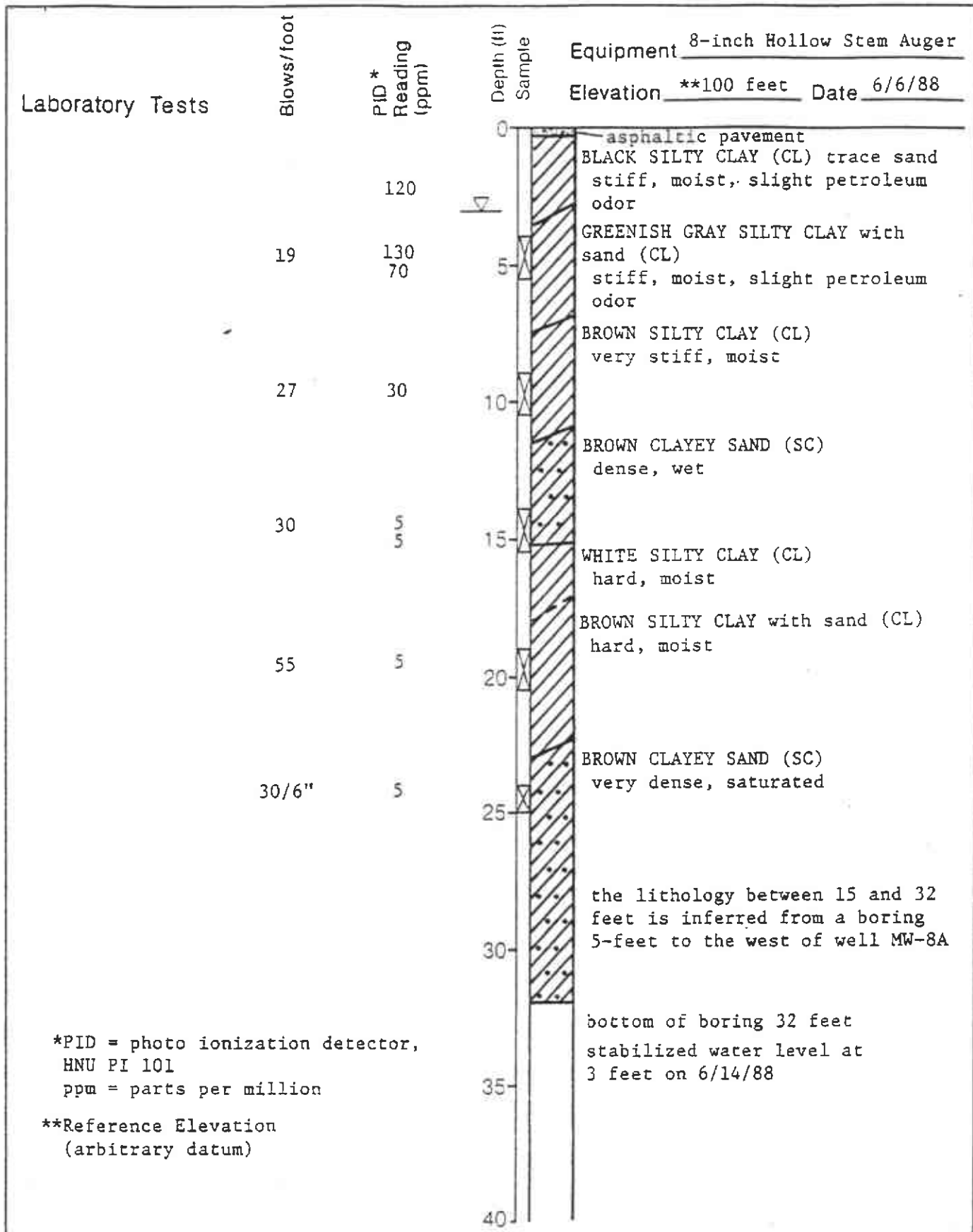
**Site Plan Showing Utilities**  
Former Texaco Station  
500 Grand Avenue  
Oakland, California

PLATE

**1**

DRAWN SP/RHC  
JOB NUMBER 2251.114.03

APPROVED  
DATE 11/09/90  
REVISED DATE 01/30/91



\*PID = photo ionization detector,  
HNU PI 101  
ppm = parts per million

\*\*Reference Elevation  
(arbitrary datum)



**Harding Lawson Associates**  
Engineers, Geologists  
& Geophysicists

### Log of Boring MW-8A

Texaco Station - 62488000235  
500 Grand Avenue  
Oakland, California

PLATE

**2**

DRAWN  
RS

JOB NUMBER  
2251,054.04

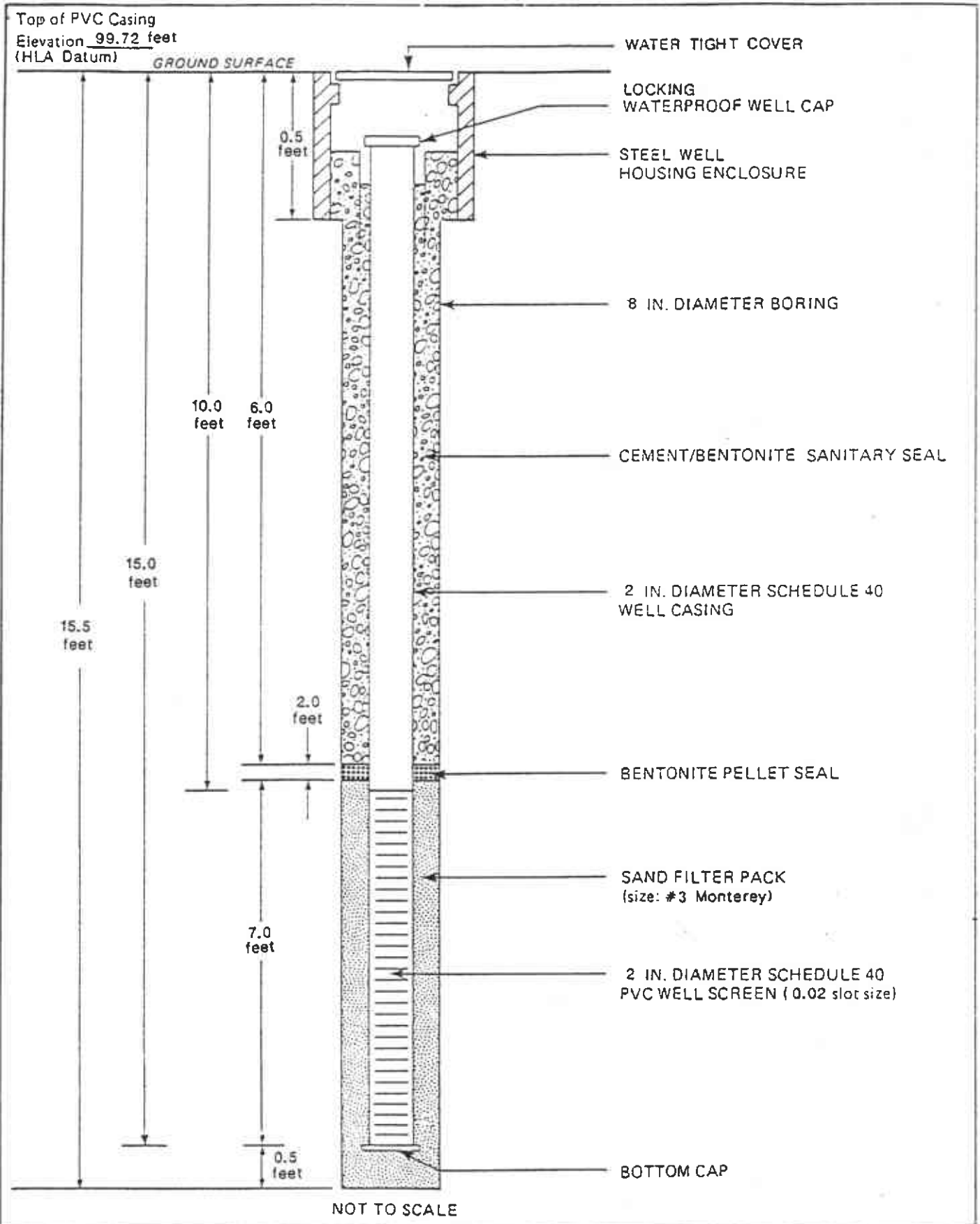
APPROVED  
40

DATE  
7/88

REVISED

CHECKED





**Harding Lawson Associates**  
Engineers, Geologists  
& Geophysicists

**Monitoring Well MW-8A  
Completion Detail**  
Texaco Station - 62488000235  
500 Grand Avenue  
Oakland, California

PLATE  
**3**

DRAWN  
RS

JOB NUMBER  
2251,054.04

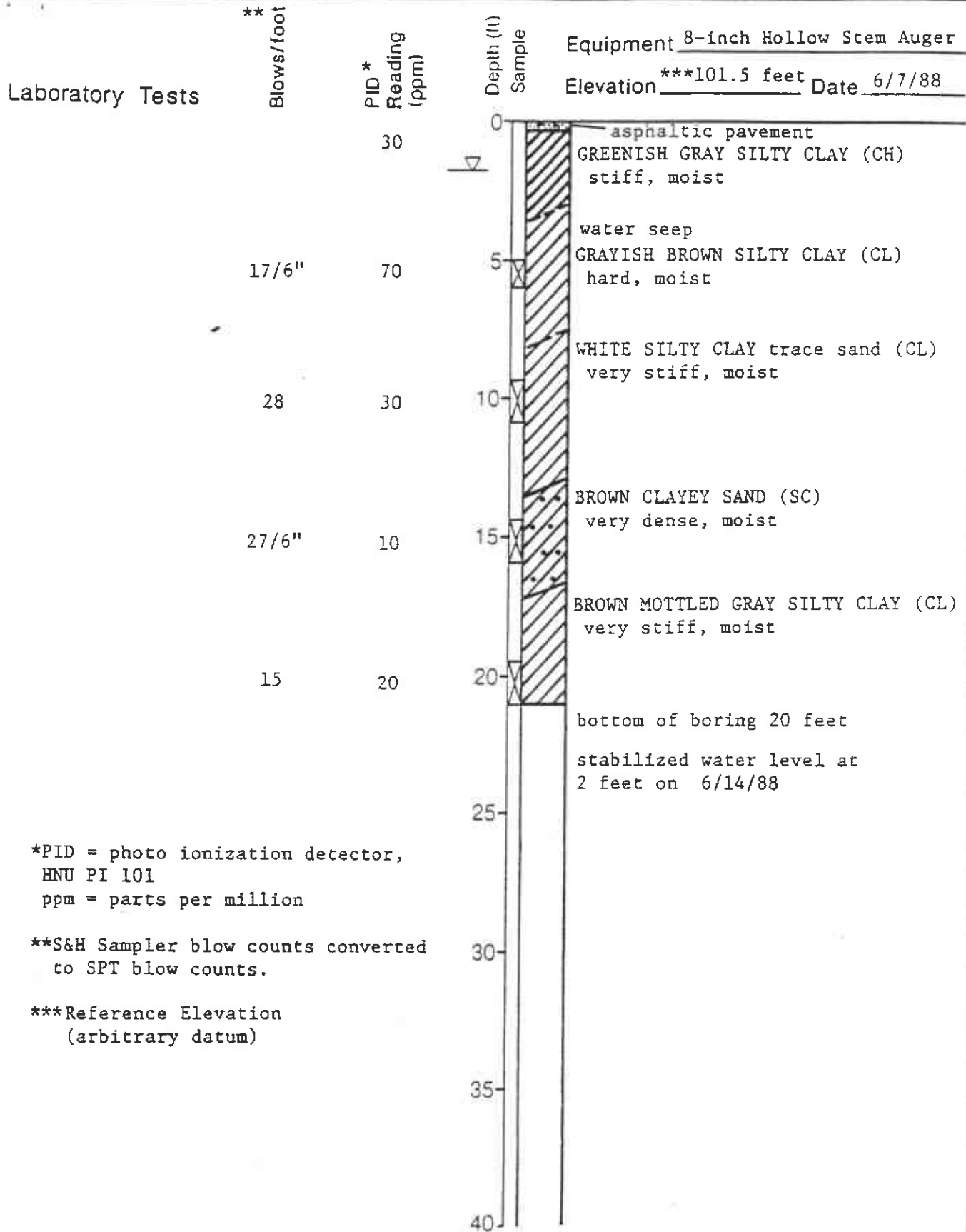
APPROVED  
DO

DATE  
7/88

REVISED

DATE

FORM GW3



\*PID = photo ionization detector,  
HNU PI 101  
ppm = parts per million

\*\*S&H Sampler blow counts converted  
to SPT blow counts.

\*\*\*Reference Elevation  
(arbitrary datum)



**Harding Lawson Associates**  
Engineers, Geologists  
& Geophysicists

**Log of Boring MW-8B**

Texaco Station - 62488000235  
500 Grand Avenue  
Oakland, California

PLATE

**4**

DRAWN  
RS

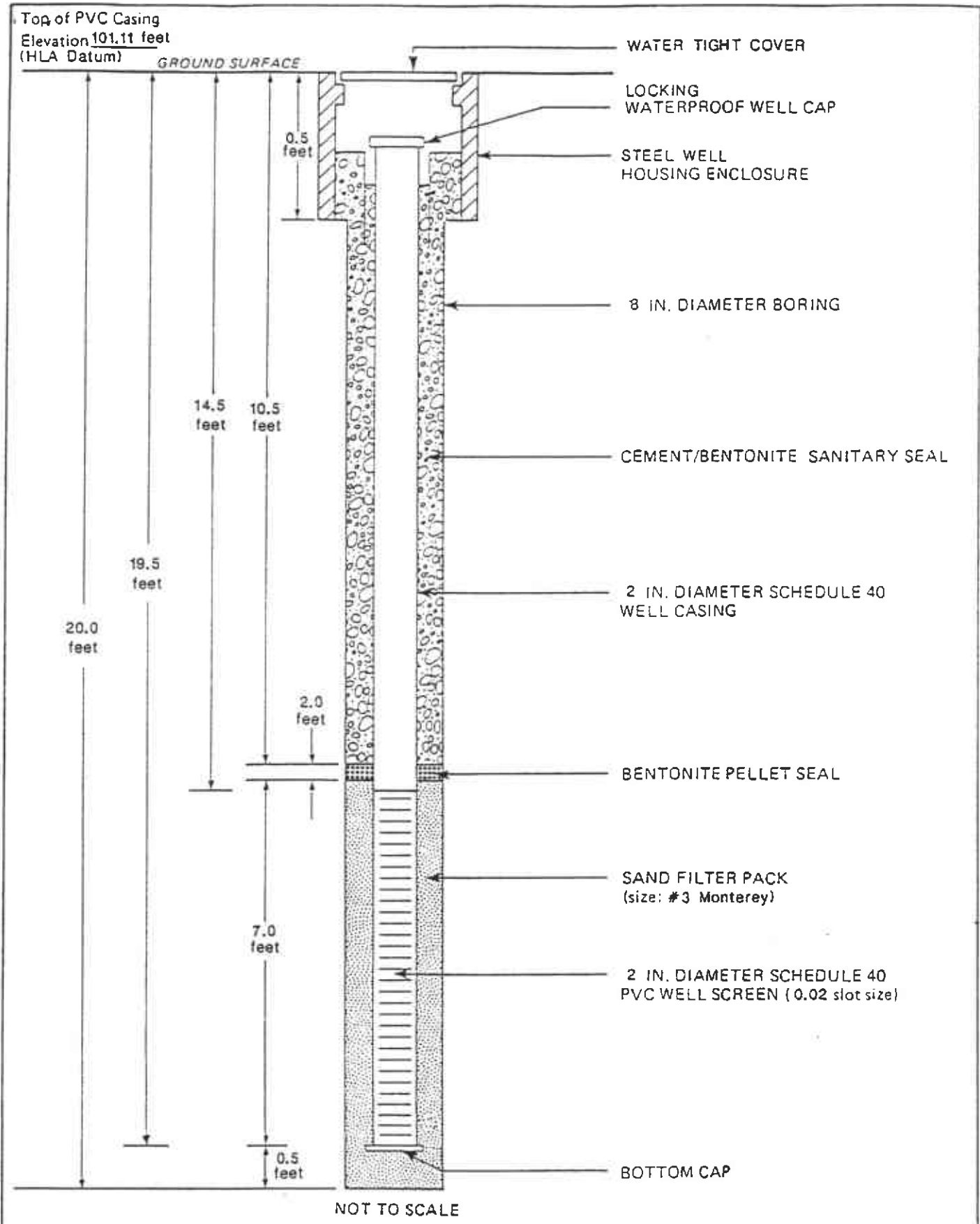
JOB NUMBER  
2251,054.04

APPROVED  
LO

DATE  
7/88

REVISED

DATE

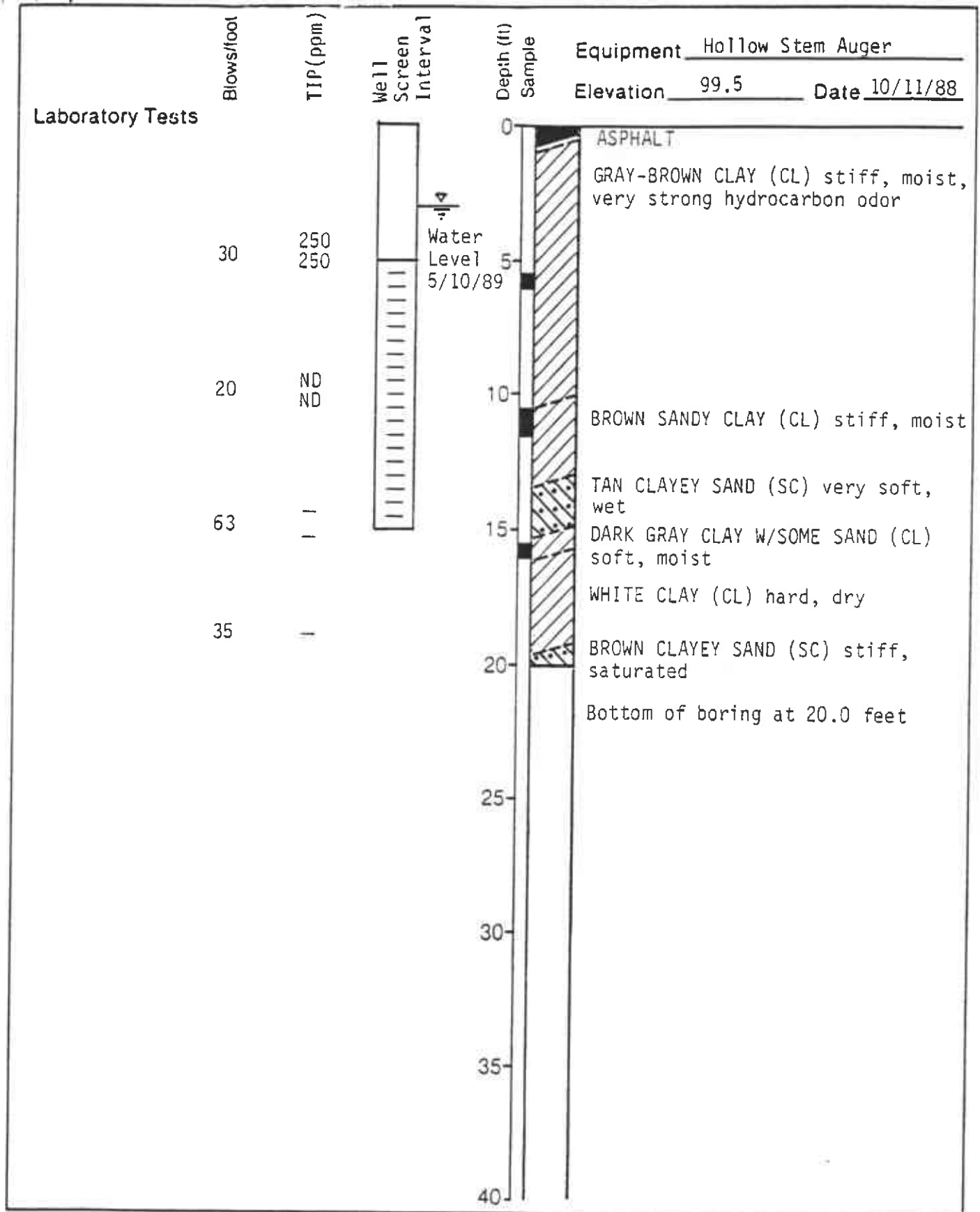


**Harding Lawson Associates**  
Engineers, Geologists  
& Geophysicists

**Monitoring Well MW-8B  
Completion Detail**  
Texaco Station - 62488000235  
500 Grand Avenue  
Oakland, California

PLATE  
**5**

DRAWN RS	JOB NUMBER 2251,054.04	APPROVED 40	DATE 7/88	REVISION	DATE
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**Harding Lawson Associates**  
Engineers, Geologists  
& Geophysicists

**Log of Monitoring Well MW-8E**  
Former Texaco Service Station  
500 Grand Avenue  
Oakland, California

PLATE

**6**

DRAWN  
YC

JOB NUMBER  
2251,081.03

APPROVED  
SJD

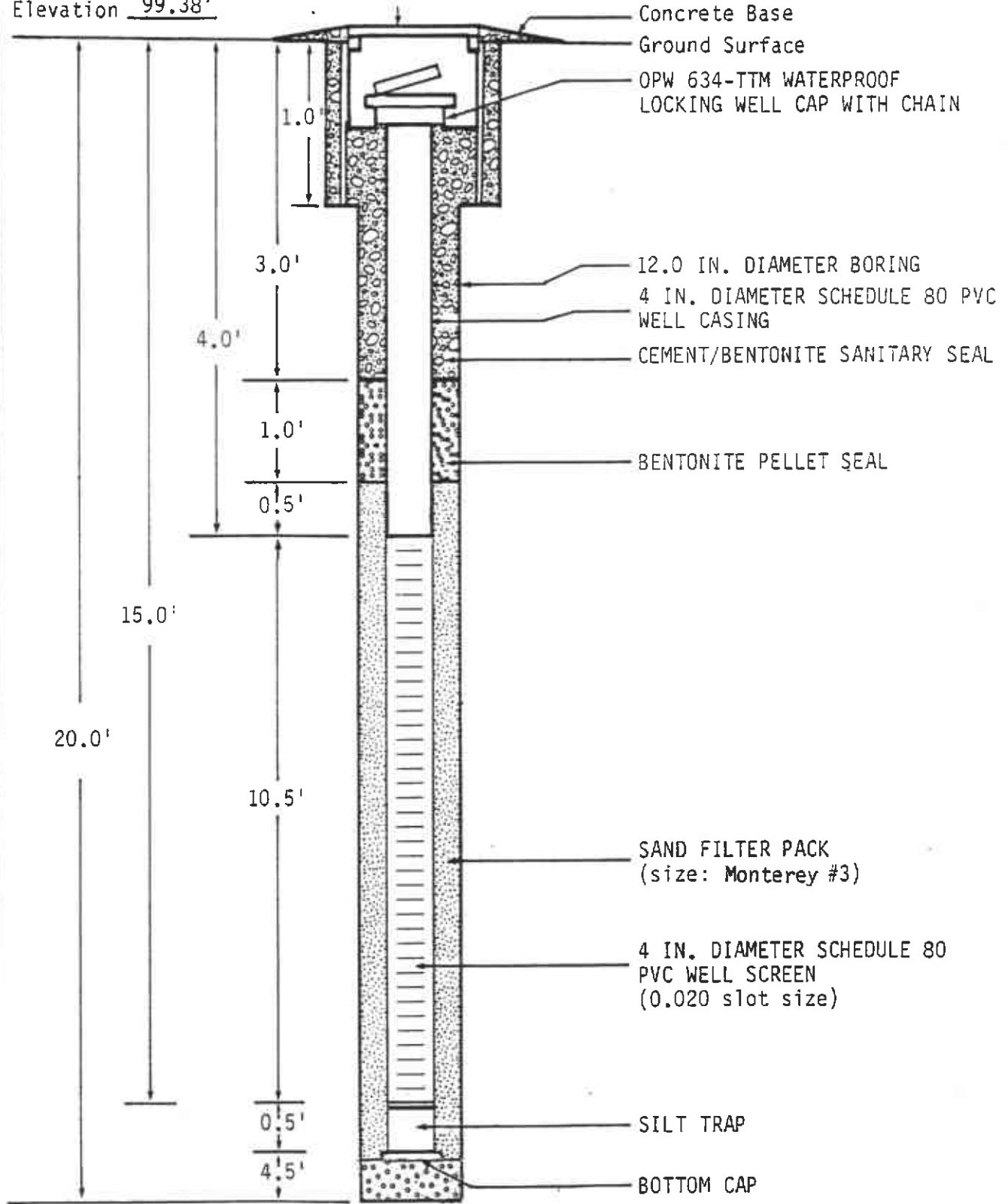
DATE  
11/88

REVISED

DATE

Top of PVC Casing  
Elevation 99.38'

12" EMCO WHEATON A-721 MANHOLE  
WITH WATERPROOF COVER



NOT TO SCALE



**Harding Lawson Associates**  
Engineers and Geoscientists

**Well Construction Diagram MW-8E**  
Former Texaco Service Station  
500 Grand Avenue  
Oakland, California

PLATE

**7**

DRAWN  
YC

JOB NUMBER  
2251,081.03

APPROVED  
SJD

DATE  
12/88

REVISED

DATE