



Texaco Refining
and Marketing Inc

108 Cutting Boulevard
Richmond CA 94804

ALCO
Hazard

7-15-94

July 15, 1994

Marion Katz

ENV-SERVICE STATIONS

3940 Castro Valley Boulevard
Castro Valley, CA

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health (ACDEH)
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Seery:

Texaco Environmental Services (TES) has reviewed the data for the above referenced site and based on this review, **TES requests site closure**. The site data is included in the following attachments to simplify your site review:

- Attachment 1: Site plans showing the former and present site configurations.
- Attachment 2: All known soil data summarized in tables from various assessment reports.
- Attachment 3: All groundwater monitoring and sampling data summarized in tables for the time period December 1987 through June 1994.
- Attachment 4: All soil boring logs and groundwater monitoring well construction diagrams.
- Attachment 5: A selection of groundwater gradient maps from quarterly monitoring and sampling reports for the time period 1990-1994.
- Attachment 6: A geologic cross section from the March 1992 Assessment report prepared by RESNA.

3940 Castro Valley Blvd.
Castro Valley, CA

ATTACHMENT 1

Mr. Scott Seery
July 15, 1994
Page 2

SUMMARY OF SOIL DATA:

The highest concentration of total petroleum hydrocarbons as gasoline (TPHG) found in soil sample at the site was 40 parts per million (ppm) TPHG in a soil sample MW-4E taken from a depth of 24.5-25 feet. Benzene has never been detected in any soil sample taken at the site. It is TES's opinion that analytical results of soil samples obtained from on- and off-site soil borings have demonstrated that petroleum hydrocarbon soil impaction found at the site is minimal to non-detect. TES believes that any nominal remaining petroleum hydrocarbons in the soil will continue to attenuate by natural biodegradation processes.

SUMMARY OF GROUNDWATER ANALYTICAL DATA:

The "Adopted Maximum Contaminant Levels in Drinking Water" (MCLs), California Department of Health Services (DHS) October 1990 are:

1.0 parts per billion (ppb) for benzene (B)
680 ppb ethylbenzene (E)
1,750 ppb xylenes (X)

The "Recommended Drinking Water Action Level" (DWAL), DHS October 1990 is 100 ppb for toluene (T).

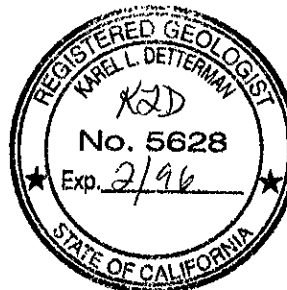
For last 4 consecutive quarters, BTEX concentrations were below MCLs and DWALs in all groundwater monitoring wells.

TES has discontinued quarterly groundwater monitoring and sampling of all wells unless notified otherwise by ACDEH. Upon notification of acceptance of site closure or no further action, TES will decommission all the wells. I can be reached at (510) 236-3611 for questions.

Sincerely,



Karel Detterman, R.G.
Project Coordinator
Texaco Environmental Services



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Mr. Scott Seery
July 15, 1994
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Attachments (6)


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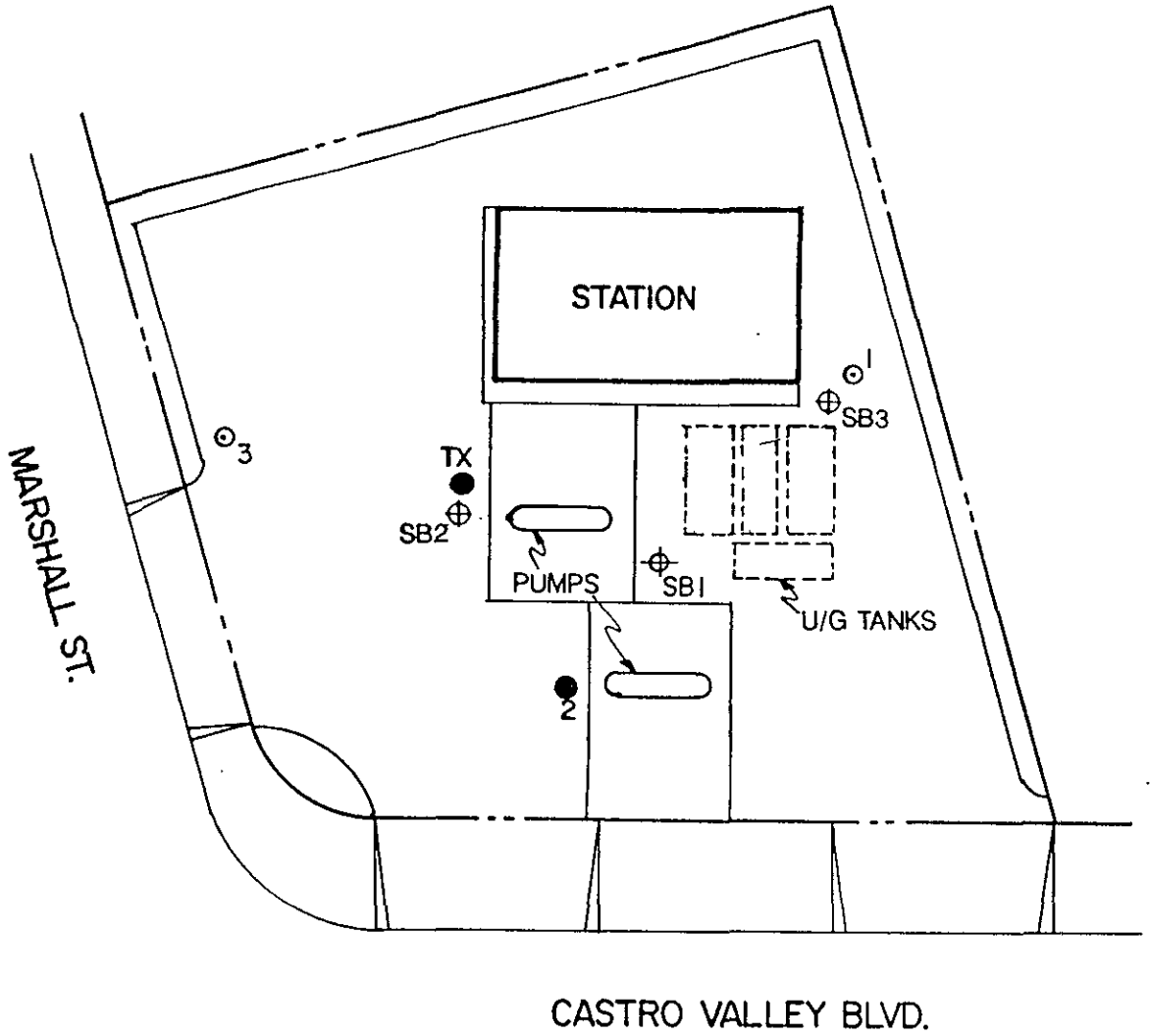
Mr. Rafat A. Shahid, Assistant Agency Director
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Gil Jensen, Alameda County District Attorney's Office
7677 Oakport Street, Suite 400
Oakland, CA 94621

Mr. Ed Laudani, Alameda County Fire Department
22341 Redwood Road
Castro Valley, CA 94546

Mr. Dave Daffern, Lakeshore Financial
21060 Redwood Road
Castro Valley, CA 94546

PR: 



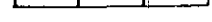
LEGEND

- ⊙ MONITORING WELL
- ⊕ SOIL BORING
- ABANDONED MONITORING WELL

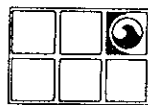
FIGURE 1
OLD SITE PLAN



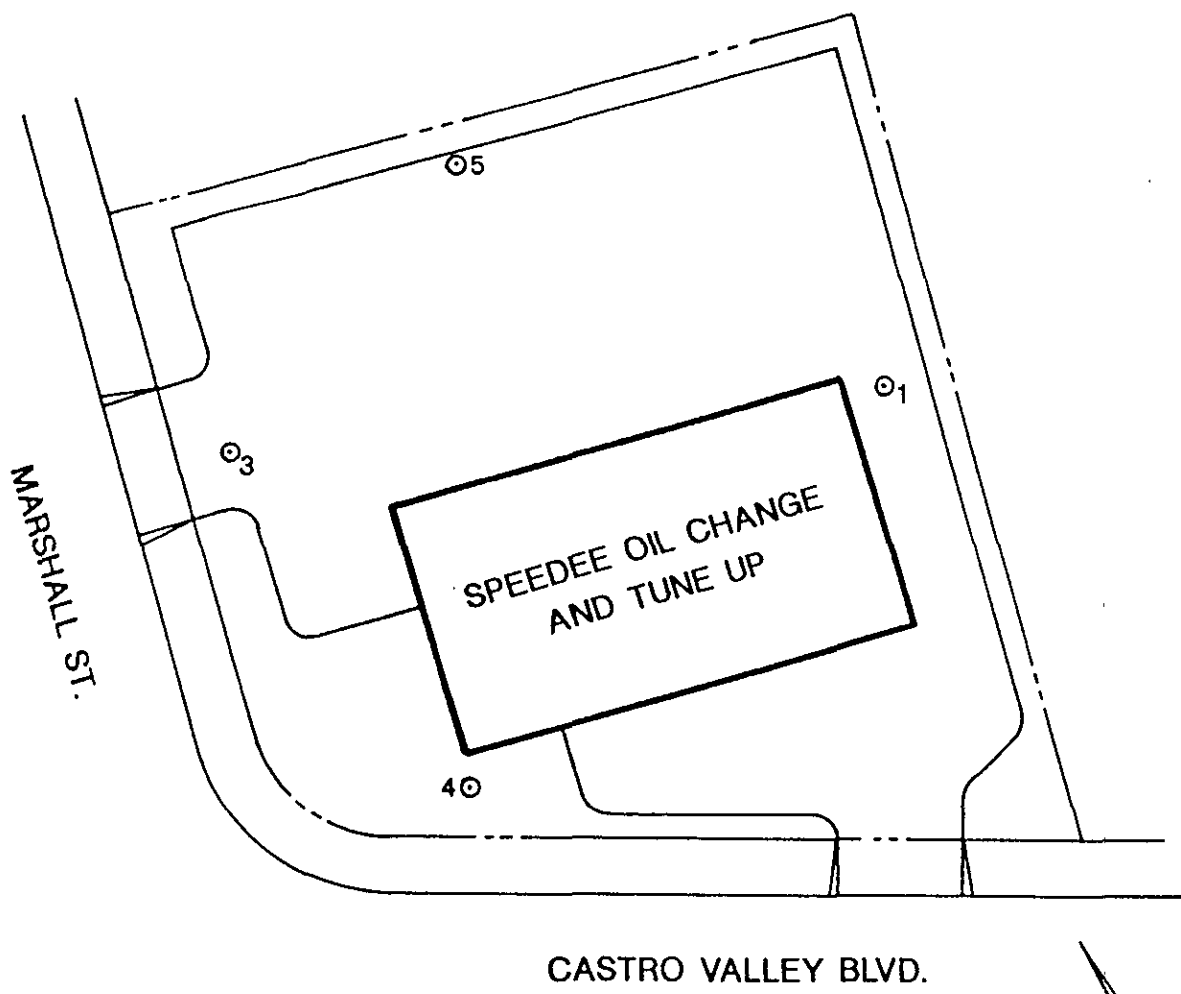
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TEXACO REFINING
& MARKETING INC.
CASTRO VALLEY, CALIFORNIA



GROUNDWATER
TECHNOLOGY, INC.



LEGEND
 ⊙ MONITORING WELL

FIGURE 2
 SITE PLAN

0 FEET 30

TEXACO REFINING
 & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA

GROUNDWATER
 TECHNOLOGY, INC.

ATTACHMENT 2

TABLE 1
HISTORICAL REVIEW OF DISSOLVED GASOLINE HYDROCARBON CONCENTRATIONS IN SOIL
in parts per million

December 1985 - April 1990

DATE	SAMPLE	DEPTH (FEET)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	LEAD	TOG	METHYLENE CHLORIDE	CHLOROFORM	TPH-AS-GASOLINE
12/10/85	164-20(TX)	20	--	--	--	--	--	--	--	--	ND
12/10/85	164-20(TX)	25	--	--	--	--	--	--	--	--	ND
11/21/87	SB 1 C	(14-14.5)	ND	ND	ND	ND	--	--	--	--	ND
11/21/87	SB 1 F	(29-29.5)	ND	ND ^{0.95}	ND	ND	--	ND	1.9	0.025	ND
11/21/87	SB 2 B	(9-9.5)	ND	ND	ND	ND	--	--	--	--	ND
11/21/87	SB 2 F	(29-29.5)	ND	ND	ND	ND	--	--	--	--	ND
11/21/87	SB 3 C	(14-14.5)	ND	ND	ND	ND	--	--	--	--	ND
11/21/87	SB 3 F	(29-29.5)	ND	ND	ND	ND	--	--	--	--	ND
12/15/87	MW 1 E	(24-24.5)	ND	ND	ND	ND	--	--	ND	ND	--
12/17/87	MW 2 E	(24-24.5)	ND	ND	ND	ND	--	--	--	--	ND
12/17/87	MW 3 E	(24-24.5)	ND	ND	ND	ND	--	--	--	--	ND
04/13/90	MW-4 B	(9.5-10)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	<PQL
04/13/90	MW-4 C	(14.5-15)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	<PQL
04/13/90	MW-4 D	(19.5-20)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	<PQL
04/13/90	MW-4 E	(24.5-25)	<PQL	<PQL	<PQL	<PQL	<PQL	--	--	--	<PQL
04/13/90	MW-5 B	(9.5-10)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	ND
04/13/90	MW-5 D	(19.5-20)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	<PQL
04/13/90	MW-5 F	(29.5-30)	<PQL	<PQL	<PQL	<PQL	--	--	--	--	<PQL

MW = Monitoring Well
ND = Non Detectable
<PQL = Less than Practical Quantitation levels,
per Federal Register, November 13, 1985, P. 46906

SB = Soil Boring
TOG = Total Oil-and-Grease
TPH = Total Petroleum Hydrocarbons

TABLE 1

ANALYTICAL LABORATORY RESULTS - SOIL SAMPLE:
[ppm]

SAMPLE	DEPTH (FT.)	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENE	BTEX	TOG	METHYLENE CHLORIDE	CHLOROFORM	MISC. HYDRO- CARBONS (C4-12)	TPH as GASOLINE
SB 1 C	(14-14.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND
SB 1 F	(29-29.5)	ND	ND	ND	ND	-	ND	1.9	0.025	ND	ND
SB 2 B	(9- 9.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND
SB 2 F	(29-29.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND
SB 3 C	(14-14.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND
SB 3 F	(29-29.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND
MW 1 E	(24-24.5)	ND	ND	ND	ND	-	-	-	-	ND	ND
MW 2 E	(24-24.5)	ND	ND	ND	ND	ND	-	ND	ND	-	-
MW 3 E	(24-24.5)	ND	ND	ND	ND	ND	-	-	-	ND	ND

ANALYTICAL LABORATORY RESULTS - WATER SAMPLES
[ppb]

SAMPLE	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENE	BTEX	MISC. HYDRO- CARBONS (C4-12)	TPH AS GASOLINE
SB 3	70	9	4	1,600	1,700	27,000	29,000
MW-1	15	12	3	190	220	1,900	2,100
MW-2	220	16	3	150	390	2,000	2,400
MW-3	ND	ND	ND	ND	ND	ND	ND

ND = Less than Practical Quantitation Levels as per EPA Federal Register
 TOG = Total Oil and Grease
 TPH = Total Petroleum Hydrocarbons
 BTEX = Total Benzene, Toluene, Ethylbenzene, Xylene

T4080A

HYDROGEOLOGY

The Castro Valley Groundwater Basin encompasses an area of approximately three and one-half square miles and is of minor importance as a source of groundwater. The Castro Valley water supply is primarily imported, although an emergency plan utilizing groundwater is under consideration. Depth to water in the on-site groundwater monitoring wells is approximately 20 feet. The depth to water encountered during drilling was approximately 30 to 33 feet below grade. Based on surface topography, the water beneath the site would be expected to flow towards the south.

ANALYTICAL RESULTS

Soil. The laboratory analytical results for the soil samples collected on April 3, 1990, and analyzed for the presence of BTEX and TPH are summarized in Table 1.

TABLE 1
SOIL SAMPLE ANALYSIS SUMMARY
4/3/90

SAMPLE I.D.	DEPTH (ft.)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	TPH-AS-GASOLINE
MW-4B	10	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4C	15	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4D	20	<PQL	<PQL	<PQL	<PQL	<PQL
MW-4E	25	<PQL	<PQL	<PQL	<PQL	<PQL
MW-5B	10	<PQL	<PQL	<PQL	<PQL	<PQL
MW-5D	20	<PQL	<PQL	<PQL	<PQL	<PQL
MW-5F	30	<PQL	<PQL	<PQL	<PQL	<PQL

TPH = Total Petroleum Hydrocarbons-as-gasoline
<PQL = Below Practical Quantitation Levels Concentrations in parts per million (ppm)

TABLE 2
SUMMARY OF SOIL ANALYSES DATA

Well Number	Date Sampled	Sample Depth (ft)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	TPHG (ppm)
MW-6-1	01/20/92	5	<0.005	<0.005	<0.005	<0.005	<1.0
MW-6-2	01/20/92	10-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-6-3	01/20/92	15-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-6-4	01/20/92	20-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-7-1	01/21/92	5-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-7-2	01/21/92	10	<0.005	<0.005	<0.005	<0.005	<1.0
MW-7-3	01/21/92	15-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-7-4	01/21/92	20-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-7-5	01/21/92	25	<0.005	<0.005	<0.005	<0.005	<1.0
MW-8-1	01/22/92	5-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-8-2	01/22/92	10-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-8-3	01/22/92	15-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-8-4	01/22/92	20-1/2	<0.005	<0.005	<0.005	<0.005	<1.0
MW-8-5	01/22/92	25-1/2	<0.005	<0.005	<0.005	<0.005	<1.0

TPHG Total petroleum hydrocarbons as gasoline
 ppm Parts per million
 < Not detected at or above the indicated method detection limit

ATTACHMENT 3

Table 1
Groundwater Elevation Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Gauged	Elevation of Wellhead (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)
TX	8/29/92	Well Destroyed		
MW-1	2/28/92	192.45	23.72	168.73
	3/30/92		23.25	169.20
	6/30/92		23.44	169.01
	10/5/92		23.96	168.49
	12/29/92	Flooded - Not Accessible		
	3/31/93		21.38	171.07
	6/22/93		21.49	170.96
	8/24/93		21.98	170.47
	11/16/93		22.64	169.81
	3/18/94		21.40	171.05
	6/23/94		21.50	170.95
MW-2	8/29/89	Well Destroyed		
MW-3	2/28/92	190.50	21.76	168.74
	3/30/92		21.49	169.18
	6/30/92		21.49	169.01
	10/5/92		22.15	168.35
	12/29/92		21.90	168.60
	3/31/93		19.50	171.00
	6/22/93		19.49	171.01
	8/24/93		19.92	170.58
	11/17/93		20.65	169.85
	3/18/94		19.48	171.02
	6/23/94		19.56	170.94
MW-4	1/28/92	191.64	23.79	167.85
	2/28/92		22.90	168.74
	3/30/92		22.46	169.18
	6/30/92		22.64	169.00
	10/5/92		23.90	167.74
	12/29/92	Flooded - Not Accessible		
	3/31/93		20.63	171.01
	6/22/93		20.63	171.01
	8/24/93		21.07	170.57
	11/16/93		21.78	169.86
	3/18/94		20.63	171.01
	6/23/94		20.67	170.97

Table 1
Groundwater Elevation Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Gauged	Elevation of Wellhead (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)	
MW-5	2/28/92	191.56	22.80	168.76	
	3/30/92		22.35	168.21	
	6/30/92		22.54	169.02	
	10/5/92		23.05	168.51	
	12/29/92		22.53	169.03	
	3/31/93		20.55	171.01	
	6/22/93		20.63	170.93	
	8/24/93	Not monitored-inaccessible			
	11/16/93		21.50	170.06	
	3/18/94		20.50	171.06	
	6/23/94		22.58	168.98	
	MW-6	1/28/92	187.30	19.55	167.75
		2/28/92		18.62	168.68
3/30/92			18.20	168.10	
6/30/92			18.38	168.92	
10/5/92			19.02	168.28	
12/29/92			18.73	168.57	
3/31/93			16.45	170.85	
6/22/93			16.40	170.90	
8/24/93			16.85	170.45	
11/16/93			17.58	169.72	
3/18/94			16.38	170.92	
6/23/94			16.46	170.84	
MW-7		1/28/92	189.34	21.53	167.81
	2/28/92		20.61	168.73	
	3/30/92		20.17	169.17	
	6/30/92		20.37	168.97	
	10/5/92		21.00	168.34	
	12/29/92		20.65	168.69	
	3/31/93		18.35	170.99	
	6/22/93		18.35	170.99	
	8/24/93		18.81	170.53	
	11/16/93		19.53	169.81	
	3/18/94		18.36	170.98	
	6/23/94		18.42	170.92	

Table 1
Groundwater Elevation Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Gauged	Elevation of Wellhead (feet, MSL)	Depth to Water (feet, TOC)	Elevation of Groundwater (feet, MSL)
MW-8	1/28/92	193.62	25.77	167.85
	2/28/92		24.89	168.73
	3/30/92		24.42	169.20
	6/30/92		24.61	169.01
	10/5/92		25.20	168.42
	12/29/92		25.00	168.62
	3/31/93		22.63	170.99
	6/22/93		22.56	171.06
	8/24/93		23.01	170.61
	11/16/93		23.72	169.90
	3/18/94		22.60	171.02
	6/23/94		22.62	171.00
MSL = Mean Sea Level				
TOC = Top of Casing				

Fourth Quarter 1993 Quarterly Report
 Castro Valley Boulevard, Castro Valley, California

January 20, 1994
 62091.01

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING DATA
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 5)

Well	Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Floating Product
<u>TX</u>	11/19/87	—	Dry	—	—
	12/20/87		Dry	—	—
	12/30/87		Dry	—	—
	06/07/88		Dry	—	—
	12/13/88		Dry	—	—
	08/29/92		Well Destroyed		
<u>MW-1</u>	12/30/87	192.46	21.92	170.54	NR
	06/07/88		23.35	169.11	NR
	12/13/88		23.17	169.29	NR
	08/29/89		23.70	168.76	NR
	02/27/90		23.25	169.21	NR
	04/21/90		23.65	168.81	NR
	06/11/90		23.74	168.72	NR
	07/18/90		23.90	168.56	NR
	08/22/90		24.07	168.39	NR
	09/27/90		24.21	168.25	NR
	10/10/90		24.25	168.21	NR
	11/15/90		24.45	168.01	NR
	12/11/90		23.54	168.92	NR
	01/09/91		24.68	167.78	NR
	01/23/91		24.61	167.85	NR
	02/22/91		24.58	167.88	NR
	03/20/91		23.95	168.51	NR
	04/11/91		23.41	169.05	NR
	05/14/91		23.52	168.94	NR
	06/10/91		23.61	168.85	NR
	07/16/91		23.89	168.57	NR
	08/09/91		23.96	168.50	NR
	09/11/91		24.16	168.30	NR
	12/11/91		24.68	167.78	NR
	02/28/92	192.45	23.72	168.73	NR
	03/30/92		23.25	169.20	NR
	06/30/92		23.44	169.01	NR
RESNA	10/05/92		23.96	168.49	ND
	12/29/92		Flooded - Not Accessible		
	03/31/93		21.38	171.07	ND
	06/22/93		21.49	170.96	ND
	08/24/93		21.98	170.47	ND
	11/16/93		22.64	169.81	ND

See notes on page 5 of 5.

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING DATA
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
 (Page 2 of 5)

Well	Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Floating Product
<u>MW-2</u>	12/20/87	--	22.30	--	--
	06/07/88		23.83	--	--
	12/13/88		23.69	--	--
	08/29/89		Well Destroyed		
<u>MW-3</u>	12/30/87	190.48	22.60	167.88	NR
	06/07/88		20.90	169.58	NR
	12/13/88		20.92	169.56	NR
	08/29/89		21.48	169.00	NR
	02/27/90		21.58	168.90	NR
	04/12/90		21.70	168.78	NR
	06/11/90		21.79	168.69	NR
	07/18/90		21.96	168.52	NR
	08/22/90		22.10	168.38	NR
	09/27/90		22.24	168.24	NR
	10/10/90		22.28	168.20	NR
	11/15/90		22.50	167.98	NR
	12/11/90		24.54	165.94	NR
	01/09/91		22.71	167.77	NR
	01/23/91		22.65	167.83	NR
	02/22/91		22.68	167.80	NR
	03/20/91		24.96	168.52	NR
	04/11/91		21.14	169.34	NR
	05/14/91		21.54	168.94	NR
	06/10/91		21.64	168.84	NR
	07/16/91		21.93	168.55	NR
	08/09/91		21.99	168.49	NR
	09/11/91		22.22	168.26	NR
	12/11/91		22.67	167.81	NR
	02/28/92	190.50	21.76	168.74	NR
	03/30/92		21.49	169.18	NR
	06/30/92		21.49	169.01	NR
RESNA	10/05/92		22.15	168.35	ND
	12/29/92		21.90	168.60	ND
	03/31/93		19.50	171.00	ND
	06/22/93		19.49	171.01	ND
	08/24/93		19.92	170.58	ND
	11/17/93		20.65	169.85	ND

See notes on page 5 of 5.

Fourth Quarter 1993 Quarterly Report
 Castro Valley Boulevard, Castro Valley, California

January 20, 1994
 62091.01

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING DATA
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
 (Page 3 of 5)

Well	Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Floating Product
<u>MW-4</u>	04/12/90	191.63	22.84	168.79	NR
	06/11/90		21.82	169.81	NR
	07/18/90		23.09	168.54	NR
	08/22/90		23.24	168.39	NR
	09/27/90		23.38	168.25	NR
	10/10/90		24.43	167.20	NR
	11/15/90		21.64	167.99	NR
	12/11/90		23.69	167.94	NR
	01/09/91		23.84	167.79	NR
	01/23/91		23.79	167.84	NR
	02/22/91		23.77	167.86	NR
	03/20/91		23.11	168.52	NR
	04/11/91		22.60	169.03	NR
	05/14/91		22.68	168.95	NR
	06/10/91		22.79	168.84	NR
	07/16/91		23.06	168.57	NR
	08/09/91		23.14	168.49	NR
	09/11/91		23.36	168.27	NR
	10/11/91		23.75	167.88	NR
	11/12/91	23.87	167.76	NR	
	12/11/91	23.80	167.83	NR	
	01/28/92	191.64	23.79	167.85	NR
	02/28/92		22.90	168.74	NR
	03/30/92		22.46	169.18	NR
	06/30/92		22.64	169.00	NR
	RESNA 10/05/92		23.90	167.74	ND
	12/29/92		Flooded - Not Accessible		
03/31/93	20.63		171.01	ND	
06/22/93	20.63	171.01	ND		
08/24/93	21.07	170.57	ND		
11/16/93	21.78	169.86	ND		
<u>MW-5</u>	04/12/90	191.55	22.74	168.81	NR
	06/11/90		22.83	168.72	NR
	07/18/90		23.01	168.54	NR
	08/22/90		23.15	168.40	NR
	09/27/90		23.29	168.26	NR
	10/10/90		22.33	169.22	NR
	11/15/90		23.54	168.01	NR
	12/11/90		23.59	167.96	NR

See notes on page 5 of 5.

Fourth Quarter 1993 Quarterly Report
 Castro Valley Boulevard, Castro Valley, California

January 20, 1994
 62091.01

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING DATA
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
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Well	Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Floating Product
<u>MW-5 (cont.)</u>					
	01/09/91		23.75	167.80	NR
	01/23/91		23.69	167.86	NR
	02/22/91		23.66	167.89	NR
	03/20/91		23.01	168.54	NR
	04/11/91		22.50	169.05	NR
	05/14/91		22.57	168.98	NR
	06/10/91		22.68	168.87	NR
	07/16/91		22.95	168.60	NR
	08/09/91		23.01	168.54	NR
	09/11/91		23.26	168.29	NR
	12/11/91		23.70	167.85	NR
	02/28/92	191.56	22.80	168.76	NR
	03/30/92		22.35	168.21	NR
	06/30/92		22.54	169.02	NR
RESNA	10/05/92		23.05	168.51	ND
	12/29/92		22.53	169.03	ND
	03/31/93		20.55	171.01	ND
	06/22/93		20.63	170.93	ND
	08/24/93		Not monitored-inaccessible		
	11/16/93		21.50	170.06	ND
<u>MW-6</u>					
	01/28/92	187.30	19.55	167.75	NR
	02/28/92		18.62	168.68	NR
	03/30/92		18.20	168.10	NR
	06/30/92		18.38	168.92	NR
RESNA	10/05/92		19.02	168.28	ND
	12/29/92		18.73	168.57	ND
	03/31/93		16.45	170.85	ND
	06/22/93		16.40	170.90	ND
	08/24/93		16.85	170.45	ND
	11/16/93		17.58	169.72	ND
<u>MW-7</u>					
	01/28/92	189.34	21.53	167.81	NR
	02/28/92		20.61	168.73	NR
	03/30/92		20.17	169.17	NR
	06/30/92		20.37	168.97	NR
RESNA	10/05/92		21.00	168.34	ND
	12/29/92		20.65	168.69	ND
	03/31/93		18.35	170.99	ND

See notes on page 5 of 5.

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING DATA
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
 (Page 5 of 5)

Well	Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Floating Product
<u>MW-7 (cont.)</u>					
	06/22/93	189.34	18.35	170.99	ND
	08/24/93		18.81	170.53	ND
	11/16/93		19.53	169.81	ND
<u>MW-8</u>					
	01/28/92	193.62	25.77	167.85	NR
	02/28/92		24.89	168.73	NR
	03/30/92		24.42	169.20	NR
	06/30/92		24.61	169.01	NR
RESNA	10/05/92		25.20	168.42	ND
	12/29/92		25.00	168.62	ND
	03/31/93		22.63	170.99	ND
	06/22/93		22.56	171.06	ND
	08/24/93		23.01	170.61	ND
	11/16/93		23.72	169.90	ND

Measurements in feet and Datum Mean Sea Level (MSL)

Depth to water measured in feet below top of casing.

NR : No Record
 ND : None Detected
 — : Not Applicable

RESNA : RESNA Industries Inc., began monitoring

RESNA assumes all wells are screened in the same hydrostratigraphic unit as identified by previous environmental consultant.

TABLE 3
GROUNDWATER MONITORING DATA
NOVEMBER 1987 - NOVEMBER 1990

WELL ELEV.	TX	MW-1 192.46	MW-2	MW-3 190.48	MW-4 191.63	MW-5 191.55
11/19/87 DTW Water Elev.	20.90	NM	NM	NM		
12/20/87 DTW Water Elev.	NM	21.92 170.54	22.30	22.60 167.88		
06/07/88 DTW Water Elev.	21.51	23.35 169.11	23.83	20.90 169.58		
12/13/88 DTW Water Elev.	NM	23.17 169.29	23.69	20.92 169.56		
08/29/89 DTW Water Elev.	Abandoned	23.70 168.76	Abandoned	21.48 169.00		
02/27/90 DTW Water Elev.		23.25 169.21		21.58 168.90		
04/12/90 DTW Water Elev.		23.65 168.81		21.70 168.78	22.48 168.79	22.74 168.81
06/11/90 DTW Water Elev.		23.74 168.72		21.79 168.69	21.82 169.81	22.83 168.72
07/18/90 DTW Water Elev.		23.90 168.56		21.96 168.52	23.09 168.54	23.01 168.54
08/22/90 DTW Water Elev.		24.07 168.39		22.10 168.38	23.24 168.39	23.15 168.40
09/27/90 DTW Water Elev.		24.21 168.25		22.24 168.24	23.38 168.25	23.29 168.26
10/10/90 DTW Water Elev.		24.25 168.21		22.28 168.20	24.25 167.38	22.33 169.22
11/15/90 DTW Water Elev.		24.45 168.01		22.50 167.98	23.64 167.99	23.54 168.01

DTW = Depth to Water
 MW = Monitoring Well
 NM = Not Measured

Surveyed to Alameda County Datum on April 23, 1990

Table 2
Groundwater Analytical Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	
TX	8/29/89	Well Abandoned					
MW-1	1/28/92	NA	NA	NA	NA	NA	
	2/28/92	NA	NA	NA	NA	NA	
	3/31/92	67	<0.5	<0.5	<0.5	1.3	
	6/30/92	67	0.3	<0.5	<0.5	<0.5	
	10/5/92	<50	<0.5	<0.5	<0.5	<0.5	
	12/29/92	NA	NA	NA	NA	NA	
	3/31/93	<50	0.0	<0.5	<0.5	<0.5	
	6/23/93	<50	<0.5	<0.5	<0.5	<0.5	
	8/25/93	<50	<0.5	<0.5	<0.5	<0.5	
	11/17/93	<50	<0.5	<0.5	<0.5	1.2	
	3/18/94	<50	<0.5	<0.5	<0.5	<0.5	
	6/23/94	<50	<0.5	<0.5	<0.5	<0.5	
	MW-2	8/29/89	Well Abandoned				
MW-3	1/28/92	NA	NA	NA	NA	NA	
	2/2/92	NA	NA	NA	NA	NA	
	3/31/92	<50	<0.5	<0.5	<0.5	0.7	
	6/30/92	<50	<0.5	<0.5	<0.5	<0.5	
	10/5/92	<50	<0.5	<0.5	<0.5	<0.5	
	12/29/92	260	6.2	<0.5	<0.5	<0.5	
	3/31/93	64	0.6	<0.5	<0.5	<0.5	
	6/23/93	900	220	160	29	160	
	8/24/93	<50	<0.5	<0.5	<0.5	1.0	
	11/17/93	<50	<0.5	<0.5	<0.5	1.0	
	3/18/94	<50	<0.5	<0.5	<0.5	<0.5	
	6/23/94	<50	<0.5	<0.5	<0.5	<0.5	
	MW-4	1/28/92	200	26	0.8	28	2.0
2/28/92		400	68	5.3	68	2.0	
3/31/92		360	<0.5	<0.5	3.2	1.1	
6/30/92		76	2.4	<0.5	3.3	<0.5	
10/5/92		<50	1.5	<0.5	<0.5	<0.5	
12/29/92		NA	NA	NA	NA	NA	
3/31/93		<50	<0.5	<0.5	<0.5	<0.5	
6/23/93		<50	<0.5	<0.5	<0.5	<0.5	
8/25/93		<50	0.7	0.8	<0.5	2.2	
11/16/93		<50	0.5	<0.5	<0.5	1.6	
3/18/94		<50	<0.5	<0.5	<0.5	<0.5	
6/23/94		<50	<0.5	<0.5	<0.5	0.59	

Table 2
Groundwater Analytical Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	
MW-5	1/28/92	NA	NA	NA	NA	NA	
	2/28/92	NA	NA	NA	NA	NA	
	3/31/92	<50	<0.5	<0.5	<0.5	<0.5	
	6/30/90	<50	<0.5	<0.5	<0.5	<0.5	
	10/5/92	<50	<0.5	<0.5	<0.5	<0.5	
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5	
	3/31/93	<50	<0.5	<0.5	<0.5	<0.5	
	6/23/93	<50	<0.5	<0.5	<0.5	<0.5	
	8/24/93	Not sampled-inaccessible					
	11/17/93	<50	<0.5	<0.5	<0.5	1.2	
	3/18/94	<50	<0.5	<0.5	<0.5	<0.5	
	6/23/94	<50	<0.5	<0.5	<0.5	<0.5	
	MW-6	1/28/92	<50	<0.5	<0.5	<0.5	<0.5
2/28/92		280	<0.5	0.9	<0.5	5.1	
3/31/92		<50	<0.5	<0.5	<0.5	<0.5	
6/30/92		<50	<0.5	<0.5	<0.5	<0.5	
10/5/92		<50	<0.5	<0.5	<0.5	<0.5	
12/29/92		<50	0.7	0.5	0.7	1.3	
3/31/93		<50	<0.5	<0.5	<0.5	<0.5	
6/23/93		<50	<0.5	<0.5	<0.5	<0.5	
8/24/93		<50	<0.5	<0.5	<0.5	<0.5	
11/16/93		<50	0.6	0.5	<0.5	2.2	
3/18/94		<50	<0.5	<0.5	<0.5	<0.5	
6/23/94		<50	<0.5	<0.5	<0.5	<0.5	
MW-7		1/28/92	<50	<0.5	<0.5	<0.5	<0.5
	2/28/92	<50	<0.5	0.6	<0.5	1.8	
	3/31/92	<50	<0.5	<0.5	<0.5	<0.5	
	6/30/92	<50	<0.5	<0.5	<0.5	<0.5	
	10/5/92	<50	<0.5	<0.5	<0.5	<0.5	
	12/29/92	<50	0.5	<0.5	0.6	3.0	
	3/31/93	60	0.8	<0.5	<0.5	<0.5	
	6/22/93	<50	<0.5	<0.5	<0.5	<0.5	
	8/24/93	<50	0.5	<0.5	<0.5	2.6	
	11/16/93	<50	<0.5	<0.5	<0.5	1.6	
	3/18/94	<50	<0.5	<0.5	<0.5	<0.5	
	6/23/94	<50	<0.5	<0.5	<0.5	<0.5	

Table 2
Groundwater Analytical Data
3940 Castro Valley Boulevard, Castro Valley, CA

Well Number	Date Sampled	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
MW-8	1/28/92	<50	<0.5	<0.5	<0.5	<0.5
	2/28/92	69	<0.5	<0.5	<0.5	0.9
	3/31/92	62	<0.5	<0.5	<0.5	4.3
	6/30/92	<50	<0.5	<0.5	<0.5	<0.5
	10/5/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5
	3/31/93	<50	<0.5	<0.5	<0.5	<0.5
	6/23/93	<50	<0.5	<0.5	<0.5	<0.5
	8/24/93	<50	<0.5	<0.5	<0.5	2.3
	11/16/93	<50	<0.5	<0.5	<0.5	0.9
	3/18/94	<50	<0.5	<0.5	<0.5	<0.5
	6/23/94	<50	<0.5	<0.5	<0.5	<0.5
	MCLs:	-	1.0	-	680	1,750
	DWAL:	-	-	100	-	-
ppb = parts per billion						
NA = Not Analyzed						
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA method 5030/602.						
BTEX analyzed by EPA method 5030/602.						
< = Less than the detection limit for the specified method of analysis.						
- = Not Available						
MCLs = Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990)						
DWAL = Recommended Drinking Water Action Level, DHS (October 1990)						

TABLE 2
HISTORICAL REVIEW OF DISSOLVED
GASOLINE HYDROCARBON CONCENTRATIONS IN WATER
DECEMBER 1987 - AUGUST 1990

parts per billion

DATE	CONSTITUENT	MW-1	MW-2	MW-3	MW-4	MW-5	TX
12/30/87	BTEX TPH-G	220 2,100	389 2,400	<MDL <MDL			DRY
06/07/88	BTEX TPH-G	54 290	266 1,200	<PQL <PQL			DRY
12/13/88	BTEX TPH-G	30 370	893 4,000	<PQL <PQL			DRY
08/29/89	BTEX TPH-G	6 160	ABANDONED	<PQL <PQL			ABANDONED
02/27/90	BTEX TPH-G	<PQL <PQL		<PQL <PQL			
04/12/90	BTEX TPH-G	NS		NS	229 1,500	<MDL <MDL	
06/11/90	BTEX TPH-G	18 190		<MDL <MDL	19 110	<MDL <MDL	
08/22/90	BTEX TPH-G	0.3 19		<MDL <MDL	5 50	<MDL <MDL	
9/12/90	BTEX TPH-G	12 92		<MDL <MDL	8 49	<MDL <MDL	
10/10/90	BTEX TPH-G	4 40		<MDL <MDL	4 77	<MDL <MDL	
11/15/90	BTEX TPH-G	0.8 18		<MDL <MDL	2 49	<MDL <MDL	

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
 <MDL = Less the Method Detection Limits
 NS = Not Sampled
 <PQL = Less than Practical Quantitation Levels per EPA Federal Register,
 November 13, 1985, P. 46906
 TPH-G = Total Petroleum Hydrocarbons-as-gasoline

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TABLE 2
 CUMULATIVE RESULTS OF LABORATORY ANALYSES
 OF GROUNDWATER SAMPLES
 Former Texaco Service Station
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Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
<u>TX</u>	12/30/87	--	--	--	--	--
	06/07/88	--	--	--	--	--
	12/13/88	--	--	--	--	--
	08/29/89			Well Abandoned		
<u>MW-1</u>	12/30/87	2,100	15	12	3	190
	06/07/88	290	12	<PQL	<PQL	17
	12/13/88	370	3	<PQL	<PQL	<PQL
	08/29/89	160	6	<PQL	<PQL	<PQL
	03/07/90	<PQL	<PQL	<PQL	<PQL	<PQL
	04/16/90	NA	NA	NA	NA	NA
	06/11/90	39	14	1	1	2
	08/22/90	130	0.3	<MDL	<MDL	<MDL
	09/12/90	92	7	<MDL	2	3
	10/10/90	40	2	<MDL	0.6	1
	11/15/90	18	0.8	<MDL	<MDL	<MDL
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	01/09/91	33	0.7	<MDL	<MDL	<MDL
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL
	05/14/91	17	1	<0.3	0.4	0.8
	09/11/91	<10	<0.3	<0.3	<0.3	<0.6
	10/11/91	NA	NA	NA	NA	NA
	11/12/91	NA	NA	NA	NA	NA
	12/11/91	<50	<0.5	<0.5	<0.5	<0.5
	01/28/92	NA	NA	NA	NA	NA
	02/28/92	NA	NA	NA	NA	NA
	03/31/92	280	<0.5	<0.5	<0.5	1.3
	06/30/92	67	1.3	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	NA	NA	NA	NA	NA
	03/31/93	<50	1.0	<0.5	<0.5	<0.5
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/25/93	<50	<0.5	<0.5	<0.5	<0.5
	11/17/93	<50	<0.5	<0.5	<0.5	1.3
<u>MW-2</u>	12/30/87	2,400	220	16	3	150
	06/07/88	1,200	220	<PQL	32	46
	12/13/88	4,000	640	23	120	110
	08/29/89			Well Abandoned		

See notes on page 5 of 5.

TABLE 2
 CUMULATIVE RESULTS OF LABORATORY ANALYSES
 OF GROUNDWATER SAMPLES
 Former Texaco Service Station
 3940 Castro Valley Boulevard
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Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
<u>MW-3</u>	12/30/87	<MDL	<MDL	<MDL	<MDL	<MDL
	06/07/88	<PQL	<PQL	<PQL	<PQL	<PQL
	12/13/88	<PQL	<PQL	<PQL	<PQL	<PQL
	08/29/89	<PQL	<PQL	<PQL	<PQL	<PQL
	03/07/90	<PQL	<PQL	<PQL	<PQL	<PQL
	04/16/90	NA	NA	NA	NA	NA
	06/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	08/22/90	<MDL	<MDL	<MDL	<MDL	<MDL
	09/12/90	<MDL	<MDL	<MDL	<MDL	<MDL
	10/10/90	<MDL	<MDL	<MDL	<MDL	<MDL
	11/15/90	<MDL	<MDL	<MDL	<MDL	<MDL
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	01/09/91	<MDL	<MDL	<MDL	<MDL	<MDL
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL
	05/14/91	<10	<0.3	<0.3	<0.3	<0.6
	09/11/91	<10	<0.3	<0.3	<0.3	<0.6
	10/11/91	NA	NA	NA	NA	NA
	11/12/90	NA	NA	NA	NA	NA
	12/11/90	<50	<0.5	<0.5	<0.5	<0.5
	01/28/92	NA	NA	NA	NA	NA
	02/02/92	NA	NA	NA	NA	NA
	03/31/92	<50	<0.5	<0.5	<0.5	1.0
	06/30/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	260	6.2	<0.5	<0.5	<0.5
	03/31/93	64	5.6	<0.5	<0.5	<0.5
	06/23/93	1,900	220	160	29	160
	08/24/93	<50	<0.5	<0.5	<0.5	2.0
	11/17/93	<50	<0.5	<0.5	<0.5	1.0
<u>MW-4</u>	04/16/90	1,500	97	1	11	120
	06/11/90	110	18	<MDL	<MDL	0.7
	08/22/90	50	4	<MDL	<MDL	1
	09/12/90	49	6	<MDL	<MDL	1
	10/10/90	77	4	<MDL	<MDL	<MDL
	11/15/90	49	2	<MDL	0.4	<MDL
	12/11/90	79	6	<MDL	1	<MDL
	01/19/91	120	6	<MDL	3	<MDL
	02/22/91	120	1	<MDL	<MDL	<MDL
	05/14/91	370	29	<0.3	9	1

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TABLE 2
 CUMULATIVE RESULTS OF LABORATORY ANALYSES
 OF GROUNDWATER SAMPLES
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Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
<u>MW-4 (cont.)</u>						
	09/11/91	22	0.8	<0.3	1	<0.6
	10/11/91	<50	1.0	<0.5	1.5	<0.5
	11/12/91	<50	1.6	<0.5	1.3	<0.5
	12/11/91	<50	0.8	<0.5	0.9	<0.5
	01/28/92	1,200	26	0.8	28	2.0
	02/28/92	9,400	68	5.3	68	240
	03/31/92	360	<0.5	<0.5	3.2	1.1
	06/30/92	76	2.4	<0.5	3.3	<0.5
RESNA	10/05/92	<50	1.5	<0.5	<0.5	<0.5
	12/29/92	NA	NA	NA	NA	NA
	03/31/93	<50	<0.5	<0.5	<0.5	<0.5
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/25/93	<50	0.7	0.5	<0.5	3.2
	11/16/93	<50	0.5	<0.5	<0.5	1.6
<u>MW-5</u>						
	04/16/90	<MDL	<MDL	<MDL	<MDL	<MDL
	06/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	08/22/90	<MDL	<MDL	<MDL	<MDL	<MDL
	09/12/90	<MDL	<MDL	<MDL	<MDL	<MDL
	10/10/90	<MDL	<MDL	<MDL	<MDL	<MDL
	11/15/90	<MDL	<MDL	<MDL	<MDL	<MDL
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	01/09/91	<MDL	<MDL	<MDL	<MDL	<MDL
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL
	05/14/91	<10	<0.3	<0.3	<0.3	<0.6
	09/11/91	<10	<0.3	<0.3	<0.3	<0.6
	10/11/91	NA	NA	NA	NA	NA
	11/12/91	NA	NA	NA	NA	NA
	12/11/91	<50	<0.5	<0.5	<0.5	<0.5
	01/28/92	NA	NA	NA	NA	NA
	02/28/92	NA	NA	NA	NA	NA
	03/31/92	<50	<0.5	<0.5	<0.5	1.2
	06/30/90	<50	<0.5	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5
	03/31/93	<50	<0.5	<0.5	<0.5	<0.5
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/24/93		Not sampled-inaccessible			
	11/17/93	<50	<0.5	<0.5	<0.5	1.2

See notes on page 5 of 5.

Fourth Quarter 1993 Quarterly Report
 Castro Valley Boulevard, Castro Valley, California

January 20, 1994
 62091.01

TABLE 2
 CUMULATIVE RESULTS OF LABORATORY ANALYSES
 OF GROUNDWATER SAMPLES
 Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California
 (Page 4 of 5)

Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
<u>MW-6</u>						
	01/28/92	<50	<0.5	<0.5	<0.5	<0.5
	02/28/92	280	<0.5	0.3	<0.5	5.1
	03/31/92	<50	<0.5	<0.5	<0.5	<0.5
	06/30/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	<50	0.7	0.5	0.7	3.3
	03/31/93	<50	<0.5	<0.5	<0.5	<0.5
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/24/93	<50	<0.5	<0.5	<0.5	<0.5
	11/16/93	<50	0.6	0.5	<0.5	2.2
<u>MW-7</u>						
	01/28/92	<50	<0.5	<0.5	<0.5	<0.5
	02/28/92	<50	<0.5	0.6	<0.5	1.8
	03/31/92	<50	<0.5	<0.5	<0.5	<0.5
	06/30/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	<50	0.5	<0.5	0.6	3.0
	03/31/93	60	0.8	<0.5	<0.5	<0.5
	06/22/93	<50	<0.5	<0.5	<0.5	<0.5
	08/24/93	<50	0.5	<0.5	<0.5	2.6
	11/16/93	<50	<0.5	<0.5	<0.5	1.6
<u>MW-8</u>						
	01/28/92	<50	<0.5	<0.5	<0.5	<0.5
	02/28/92	69	<0.5	<0.5	<0.5	0.9
	03/31/92	62	<0.5	<0.5	<0.5	4.3
	06/30/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	10/05/92	<50	<0.5	<0.5	<0.5	<0.5
	12/29/92	<50	<0.5	<0.5	<0.5	<0.5

See notes on page 5 of 5.



Working to Restore Nature

Fourth Quarter 1993 Quarterly Report
Castro Valley Boulevard, Castro Valley, California

January 20, 1994
62091.01

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Texaco Service Station
3940 Castro Valley Boulevard
Castro Valley, California
(Page 5 of 5)

Well	Date	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
<u>MW-8 (cont.)</u>						
	03/31/93	<50	<0.5	<0.5	<0.5	<0.5
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/24/93	<50	<0.5	<0.5	<0.5	2.3
	11/16/93	<50	<0.5	<0.5	<0.5	0.9
	MCLs:	-	1.0	-	680	1,750
	DWAL:	-	-	100	-	--

Results in parts per billion (ppb).

- NA : Not Analyzed
- FQL : Practical quantitative level
- MDL : Method detection limit
- TPHg : Total petroleum hydrocarbons as gasoline analyzed by EPA method 5030/602.
- BTEX : Analyzed by EPA method 5030/602.
- < : Less than the detection limit for the specified method of analysis.
- MCLs : Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990)
- DWAL : Recommended Drinking Water Action Level, DHS (October 1990)
- RESNA : RESNA Industries Inc. began sampling.

TABLE 4
SUMMARY OF GROUNDWATER ANALYSES RESULTS

WELL I.D.	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TPH-AS-GASOLINE
MW-1	12/30/87	15	12	3	190	2,100
	06/07/88	12	<PQL	<PQL	17	290
	12/13/88	3	<PQL	<PQL	<PQL	370
	08/29/89	6	<PQL	<PQL	<PQL	160
	03/07/90	<PQL	<PQL	<PQL	<PQL	<PQL
	04/16/90	NOT SAMPLED				
	06/11/90	14	1	1	2	39
	08/22/90	0.3	<MDL	<MDL	<MDL	130
	09/12/90	7	<MDL	2	3	92
	10/10/90	2	<MDL	0.6	1	40
	11/15/90	0.8	<MDL	<MDL	<MDL	18
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	01/09/91	0.7	<MDL	<MDL	<MDL	33
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL
	05/14/91	1	<0.3	0.4	0.8	17
MW-2	12/30/87	220	16	3	150	2,400
	06/07/88	220	<PQL	32	46	1,200
	12/13/88	640	23	120	110	4,000
	08/29/89	WELL ABANDONED				

TABLE 4
SUMMARY OF GROUNDWATER ANALYSES RESULTS

WELL I.D.	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TPH-A\$-GASOLINE	
MW-3	12/30/87	<MDL	<MDL	<MDL	<MDL	<MDL	
	06/07/88	<PQL	<PQL	<PQL	<PQL	<PQL	
	12/13/88	<PQL	<PQL	<PQL	<PQL	<PQL	
	08/29/89	<PQL	<PQL	<PQL	<PQL	<PQL	
	03/07/90	<PQL	<PQL	<PQL	<PQL	<PQL	
	04/16/90	NOT SAMPLED					
	6/11/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	08/22/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	09/12/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	10/10/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	11/15/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL	
	01/09/91	<MDL	<MDL	<MDL	<MDL	<MDL	
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL	
05/14/91	<0.3	<0.3	<0.3	<0.6	<10		
MW-4	04/16/90	97	1	11	120	1,500	
	06/11/90	18	<MDL	<MDL	0.7	110	
	08/22/90	4	<MDL	<MDL	1	50	
	09/12/90	6	<MDL	0.5	1	49	
	10/10/90	4	<MDL	<MDL	<MDL	77	
	11/15/90	2	<MDL	0.4	<MDL	49	
	12/11/90	6	<MDL	1	<MDL	79	
	01/09/91	6	<MDL	3	<MDL	120	
	02/22/91	1	<MDL	<MDL	<MDL	120	
	05/14/91	29	<0.3	9	1	870	

TABLE 4
SUMMARY OF GROUNDWATER ANALYSES RESULTS

WELL I.D.	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	TPH-AS-GASOLINE
MW-5	04/16/90	<MDL	<MDL	<MDL	<MDL	<MDL
	06/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	08/22/90	<MDL	<MDL	<MDL	<MDL	<MDL
	09/12/90	<MDL	<MDL	<MDL	<MDL	<MDL
	10/10/90	<MDL	<MDL	<MDL	<MDL	<MDL
	11/15/90	<MDL	<MDL	<MDL	<MDL	<MDL
	12/11/90	<MDL	<MDL	<MDL	<MDL	<MDL
	01/09/91	<MDL	<MDL	<MDL	<MDL	<MDL
	02/22/91	<MDL	<MDL	<MDL	<MDL	<MDL
	05/14/91	<0.3	<0.3	<0.3	<0.6	<10

Concentrations shown in parts per billion

TPH-as-gasoline = Total petroleum hydrocarbons-as-gasoline

MW = Monitoring well

MDL = Method detection limit

PQL = Practical quantitation level

ATTACHMENT 4



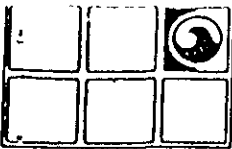
Project Texaco Castro Valley Owner Texaco Refin. & Market
 Location Castro Valley Project Number 203 150 4080
 Date Drilled 11/20/87 Total Depth of Hole 35 ft. Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial 31 ft. 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
 Driller Todd Byard Log by Jan Prasil

Sketch Map

See Site Plan

Notes

Depth (Feet)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification
0					2 inches asphalt over 5 inches base course
2					Gray sandy clay (medium stiff, dry, no product odor)
4		0	A 4 5 8	CL	Yellow, sandy clay (medium stiff, dry, no product odor)
6					(grades yellow-brown, soft)
8		0	B 1 2 3	CL	
10					(grades medium stiff)
12					(grades sandy)
14		0	C 4 6 8	CL	
16					Brown, clayey, medium sand (medium stiff, dry, no product odor)
18		0	D 5 8 13	SC	(grades moist)
20					
22					
24		0	E 11 17 27	SC	



Depth (Feet)	Well Construction	PID (ppm)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
-26					Brown, clayey, medium sand (cont'd)
-28			F	SC	(grades very moist)
-30		0	8 10 12		
-32					▼ Encountered water 11/20/87 (1055 hours) (grades more clayey)
-34				CL	Brown, sandy clay (medium stiff, wet, no product odor)
-36					End of boring, backfilled with concrete
-38					
-40					
-42					
-44					
-46					
-48					
-50					
-52					
-54					
-56					
-58					



Soil Boring 2

Drilling Log

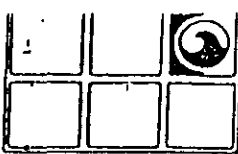
Project Texaco Castro Valley Owner Texaco Refin. & Market.
 Location Castro Valley Project Number 203 150 4080
 Date Drilled 11/20/87 Total Depth of Hole 35 ft. Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial 31 ft. 24-hrs _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
 Driller Todd Byard Log by Jan Prasil

Sketch Map

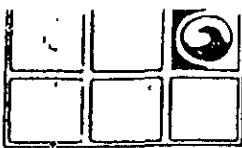
See Site Plan

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
0					2 inches Asphalt over 5 inches base course
2				CL	Gray, sandy clay (medium stiff, dry, no product odor)
4			A 4 9 14	CL	Brown, silty clay (stiff, dry, no product odor)
6				CL	(grades sandy)
8			B 5 8 10	SC	Light brown clayey sand (medium dense, dry, no product odor)
10				SC	(grades more clayey)
12				CL	Light brown, silty clay (stiff, dry, no product odor)
14			C 6 12 15	CL	(grades sandy, medium stiff)
16				CL	Brown, sandy clay (medium stiff, dry, no product odor)
18			D 8 6 4	CL	(grades sandy, medium stiff)
20				CL	Brown, sandy clay (medium stiff, dry, no product odor)
22				CL	(grades sandy, medium stiff)
24			E 8 6 10	CL	(grades stiff)



Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
26					Brown, sandy clay (cont'd)
28			F	CL	(grades more sandy)
30			10 15 22		
32					▼ Encountered water 11/20/87 (1230 hours)
34			G	SP	Brown, coarse sand (loose, wet, no product odor)
36			4 3 4		End of boring, backfilled with concrete
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					



Soil Boring 3

Drilling Log

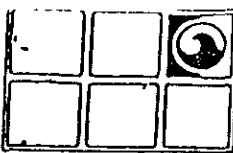
Project Texaco Castro Valley Owner Texaco Refin. & Market.
 Location Castro Valley Project Number 203 150 4080
 Date Drilled 11/20/87 Total Depth of Hole 35 ft. Diameter 7.5 in.
 Surface Elevation _____ Water Level, Initial _____ 24-hrs _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company Sierra Pacific Drilling Method Hollow Stem Auger
 Driller Todd Byard Log by Jan Prasil

Sketch Map

See Site Map

Notes

Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification
0					2 inches asphalt over 5 inches base course
2				CL	Gray, sandy clay (medium stiff, dry, no product odor)
4			A 10 18 28	CL	Light brown, silty clay (very stiff, dry, no product odor) (grades sandy, less silty)
6					Light brown, sandy clay (medium stiff, dry, no product odor)
8			B 5 8		
10					
12					(grades gray-green, silty)
14			C 8 15 21	CL	(grades very stiff)
16					
18			D 5 6 7		Light brown, clayey, medium sand (medium dense, dry, no product odor) (grades brown)
20					
22				SC	
24			E 8 10 12		(grades more clayey)



Depth (Feet)	Well Construction	Notes	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
26					Light brown, clayey medium sand (cont'd)
28			F		(grades moist)
30			10 15 21	SC	
32					▼ Encountered water 11/20/87 (1520 hours)
34				CL	Brown sandy clay (medium stiff, wet, no product odor)
36					End of boring, backfilled with concrete
38					
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					



GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 1

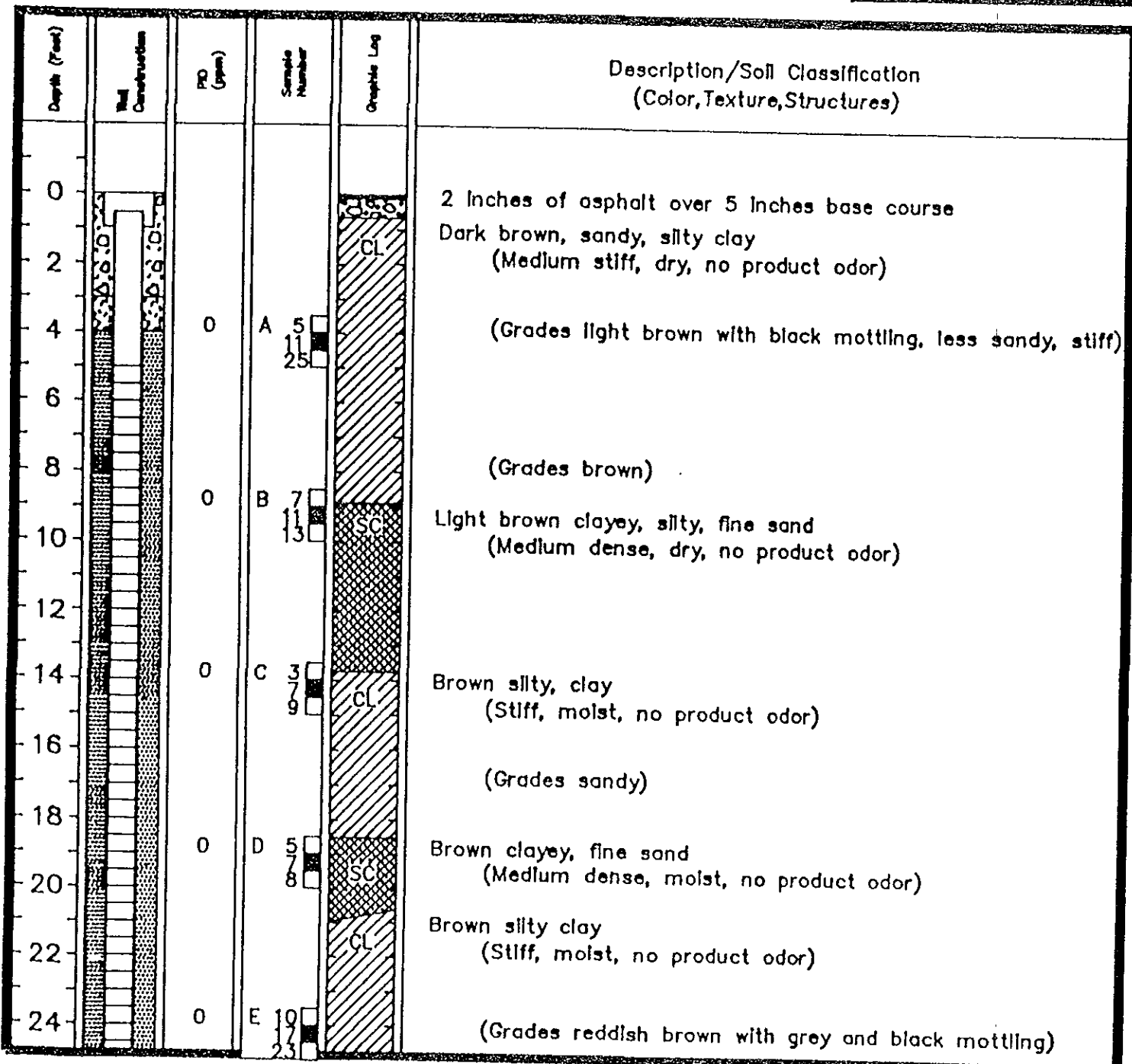
Drilling Log

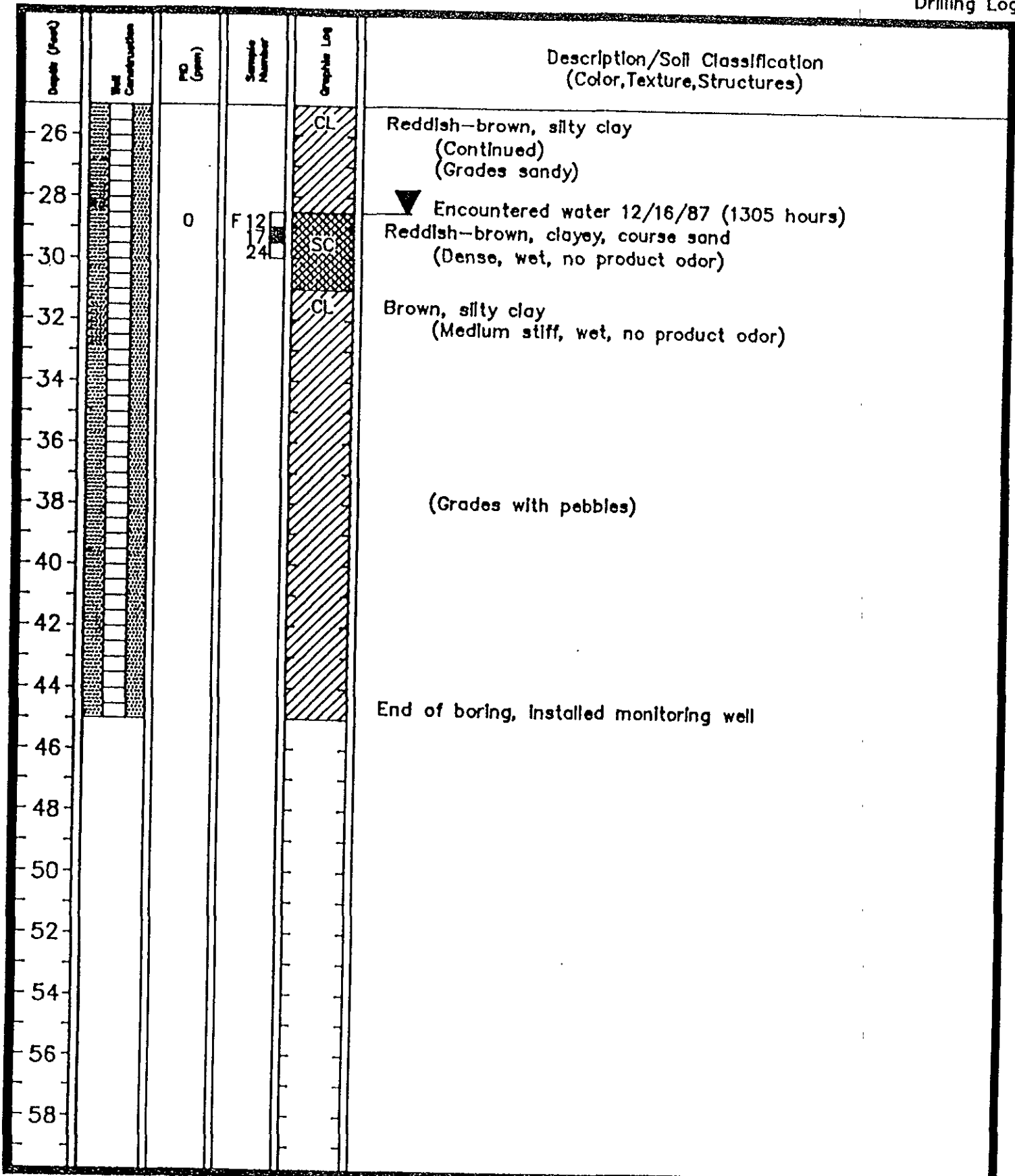
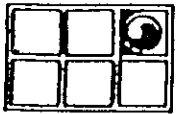
Project TEXACO CASTRO VALLEY Owner TEXACO REF. AND MARK. INC.
 Location CASTRO VALLEY, CA Project Number 203-150-4080
 Date Drilled 12/16/87 Total Depth of Hole 45 FT Diameter 10.5 IN.
 Surface Elevation _____ Water Level Initial 28 FT 24-hour _____
 Screen: Dia. 4 IN. Length 40 FT Slot Size .020 IN.
 Casing: Dia. 4 IN. Length 5 FT Type PVC
 Drilling Company SIERRA PACIFIC Drilling Method HOLLOW STEM AUGER
 Driller TODD BYARD Log by JAN PRASIL
 Geologist / Engineer _____ License No. _____

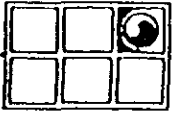
Sketch Map

SEE SITE PLAN

Notes







GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 2

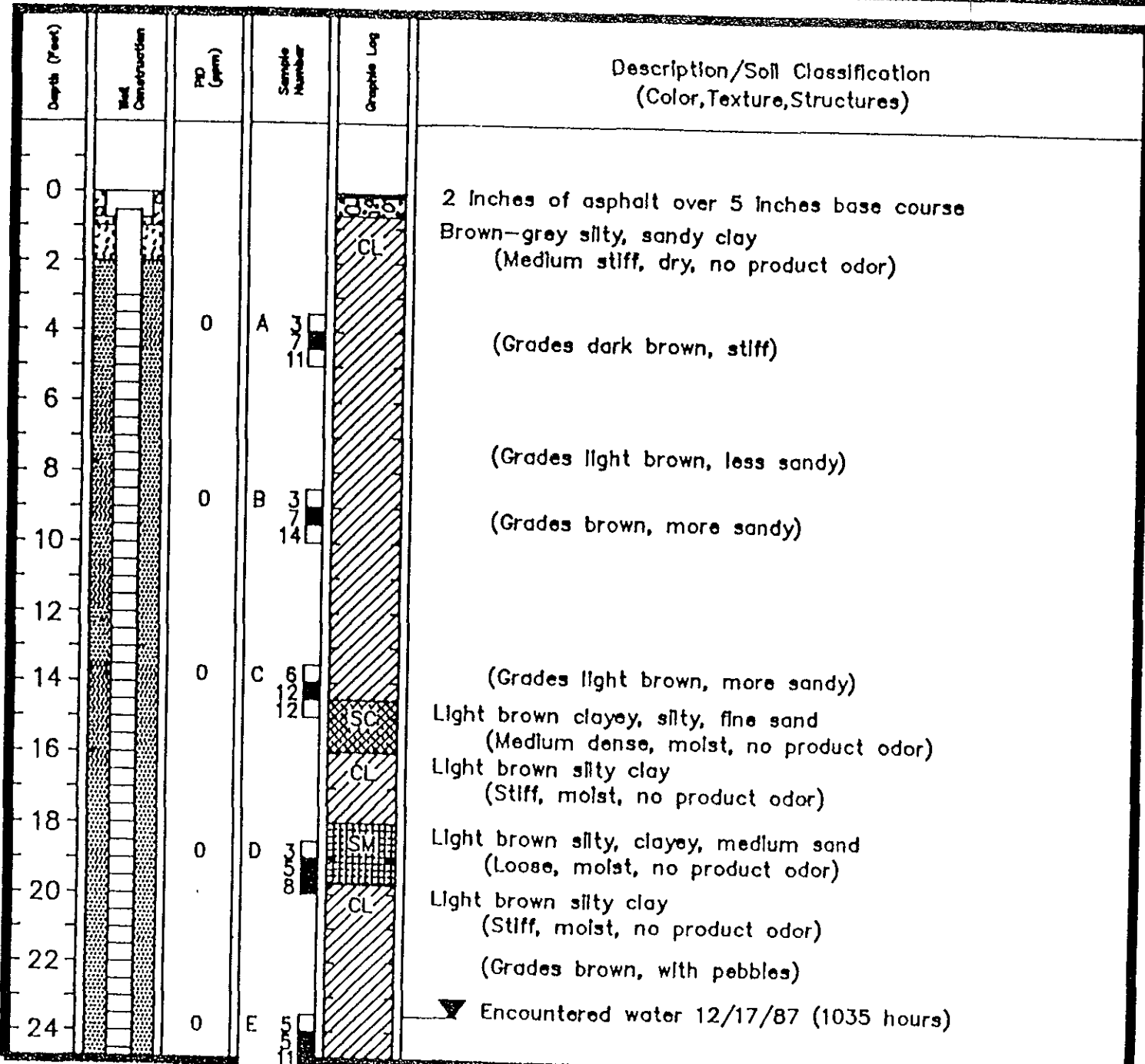
Drilling Log

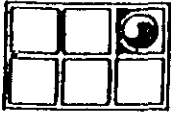
Project TEXACO CASTRO VALLEY Owner TEXACO REF. AND MARK. INC.
 Location CASTRO VALLEY, CA Project Number 203-150-4080
 Date Drilled 12/17/87 Total Depth of Hole 38 FT Diameter 10.5 IN.
 Surface Elevation _____ Water Level Initial 23.5 FT 24-hour _____
 Screen: Dia. 4 IN. Length 35 FT Slot Size .020 IN.
 Casing: Dia. 4 IN. Length 3 FT Type PVC
 Drilling Company SIERRA PACIFIC Drilling Method HOLLOW STEM AUGER
 Driller TODD BYARD Log by JAN PRASIL
 Geologist / Engineer _____ License No. _____

Sketch Map

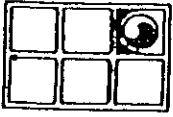
SEE SITE PLAN

Notes





Depth (ft)	Well Construction	R (ft)	Sample Number	Graphic Log	Description/Soil Classification (Color, Texture, Structures)
26		0			Brown silty clay with pebbles (Continued) (Grades light brown)
28					
30					
32		0			Brown fine sandy clay (Stiff, wet, no product odor)
34					
36					
38					End of drilling, Installed monitoring well
40					
42					
44					
46					
48					
50					
52					
54					
56					
58					



GROUNDWATER TECHNOLOGY, INC.

Monitoring Well 3

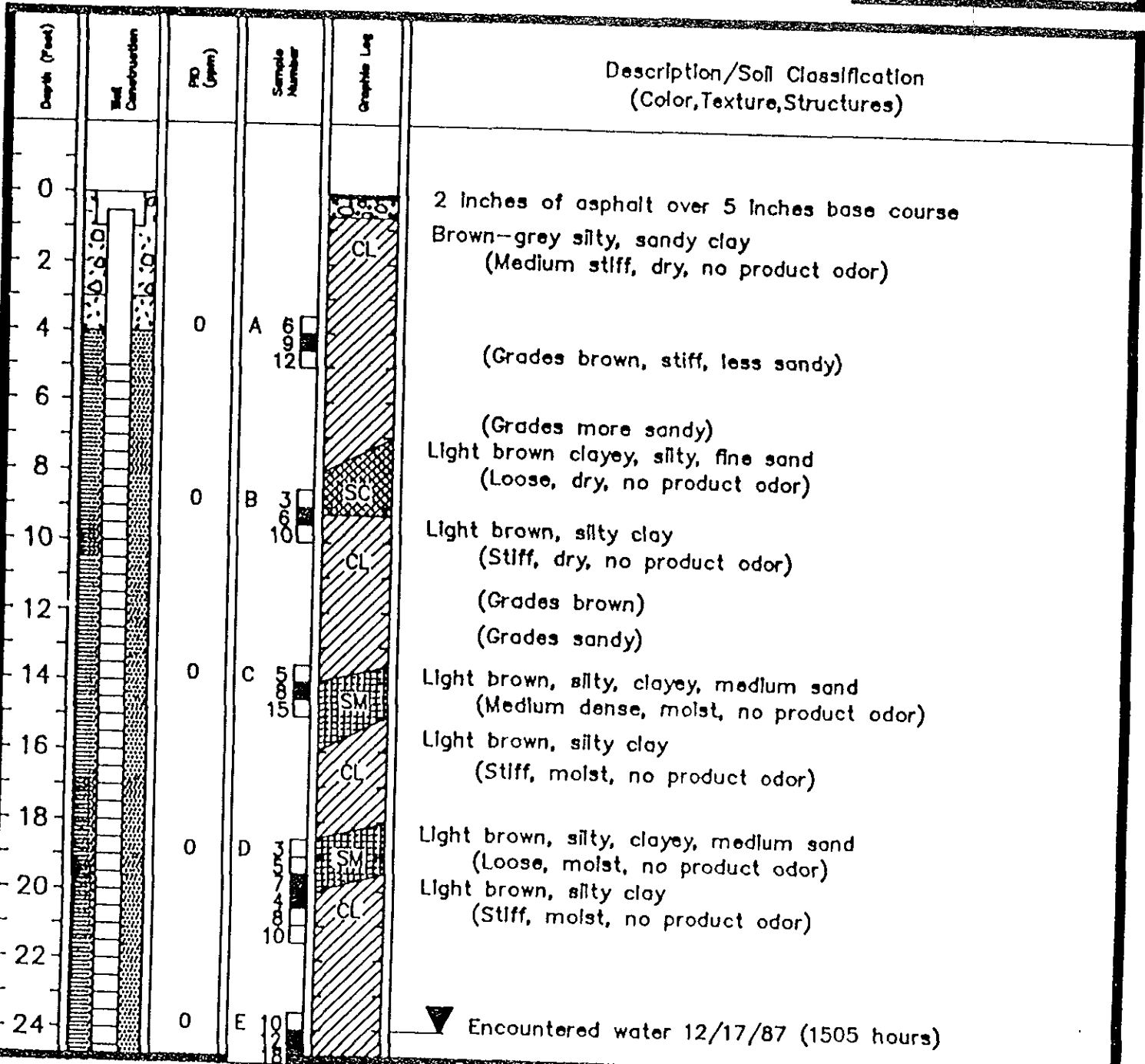
Drilling Log

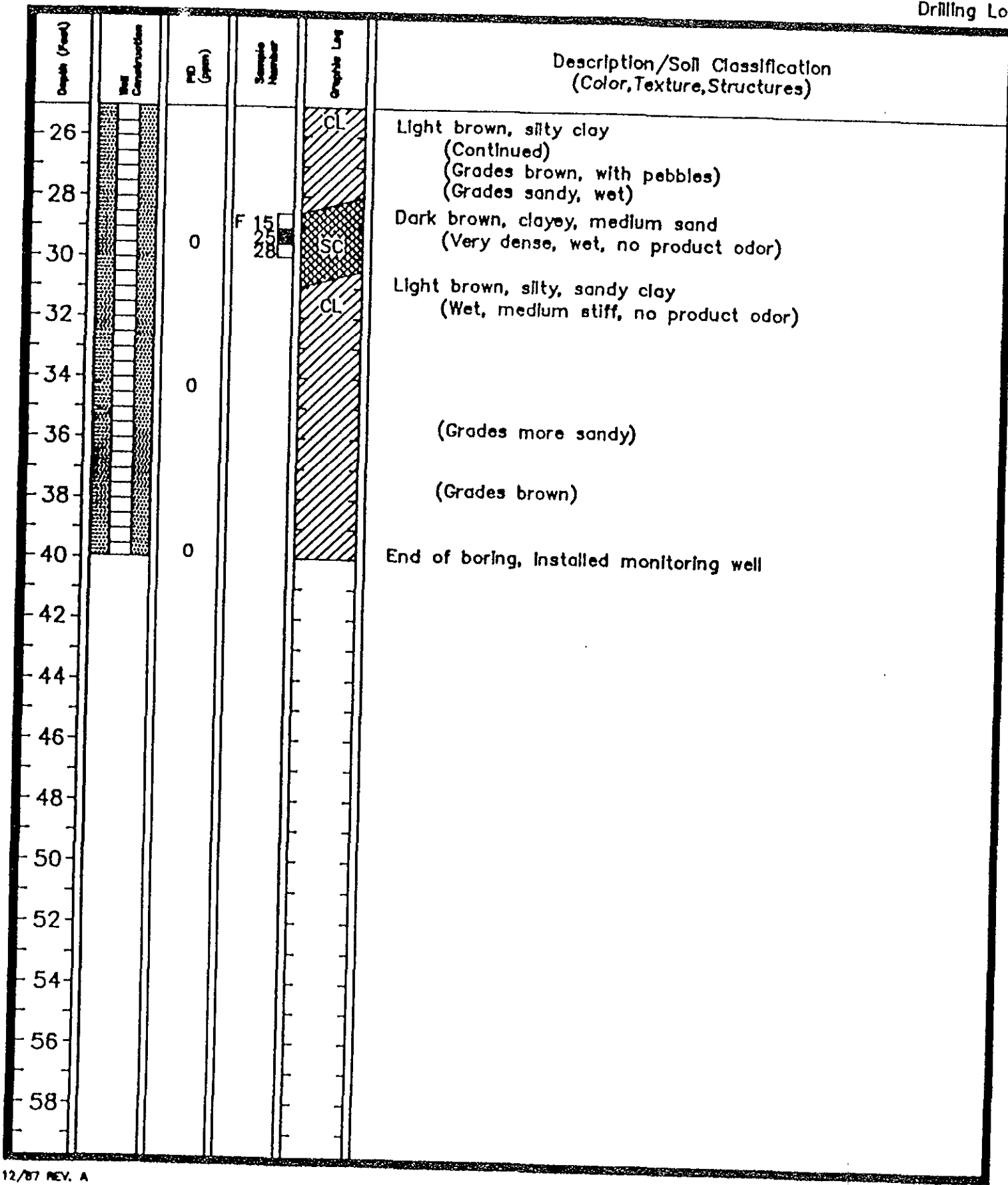
Project TEXACO CASTRO VALLEY Owner TEXACO REF. AND MARK. INC.
 Location CASTRO VALLEY, CA Project Number 203-150-4080
 Date Drilled 12/17/87 Total Depth of Hole 40 FT Diameter 10.5 IN.
 Surface Elevation _____ Water Level Initial 24 FT 24-hour _____
 Screen: Dia. 4 IN. Length 35 FT Slot Size .020 IN.
 Casing: Dia. 4 IN. Length 5 FT Type PVC
 Drilling Company SIERRA PACIFIC Drilling Method HOLLOW STEM AUGER
 Driller TODD BYARD Log by JAN PRASIL
 Geologist / Engineer _____ License No. _____

Sketch Map

SEE SITE PLAN

Notes





Monitoring Well 4 Drilling Log

Project Texaco/Castro Valley Owner Texaco Refining and Marketing
 Location Castro Valley Rd. Project Number 203 150 4080
 Date Drilled 4/03/90 Total Depth of Hole 45 ft. Diameter 10.5 in.
 Surface Elevation _____ Water Level Initial 30 ft. 24-hour _____
 Screen: Dia 4 in. Length 20 ft. Slot Size 0.020 in.
 Casing: Dia 4 in. Length 25 ft. Type PVC
 Filter Pack Material Lonestar #22 Sand Pack
 Drilling Company Sierra Pacific Drilling Drilling Method Hollow Stem Auger
 Driller Derald Harris Log by Steve Kranyak
 Geologist/Engineer Allen B. Storm License No RG. 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0						Brown silty clay (moist, medium stiff, no odor)
2						
4			A	8 21 28		(grades w/ fine sand)
6						
8					CL	
10			B	10 10 18		(grades w/ some fine sand)
12						
14			C	15 20 21		(grades w/ minor fine sand)
16						
18						Tan clean fine sand (slightly moist, loose, slight odor)
20			D	6 20 6	SP	
22						Brown silty fine sandy clay (moist, medium stiff, odor)
24			E	10 20 25	CL	
26						

Monitoring Well 4

Drilling Log

Project Texaco/Castro Valley

Owner Texaco Refining and Marketing

Location Castro Valley Rd.

Project Number 203 150 4080

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)		
26					CP	(grades more fine sand)		
28						Tan fine sand (wet, loose, ? odor)		
30					NR	50	SP	Encountered water 4/03/90 (1630 hours).
32								(grades w/ gravels + silts)
34								Brown silty clayey fine sandy gravel (wet, medium dense, no odor)
36								
38								
40								
42								
44								
46						Bottom of boring. Installed monitor well.		
48								
50								
52								
54								
56								
58								

Monitoring Well 5 Drilling Log

Project Texaco/Castro Valley Owner Texaco Refining and Marketing
 Location Castro Valley Rd. Project Number 203 150 4080
 Date Drilled 4/03/90 Total Depth of Hole 45 ft. Diameter 10.5 in.
 Surface Elevation _____ Water Level Initial 33 ft. 24-hour _____
 Screen: Dia 4 in. Length 17 ft. Slot Size 0.020 in.
 Casing: Dia 4 in. Length 28 ft. Type PVC
 Filter Pack Material Lonestar #22 Sand Pack
 Drilling Company Sierra Pacific Drilling Drilling Method Hollow Stem Auger
 Driller Derald Harris Log by Steve Kranyak
 Geologist/Engineer Allen B. Storm License No AG. 4394

See Site Map
For Boring Location

NOTES:

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)
0				[Hatched pattern]		5" Asphalt over 7" base course.
2				[Diagonal hatching]	CL	Dark grey silty clay (moist, medium stiff, no odor) (grades light brown)
4			A	[Diagonal hatching]		
6				[Horizontal hatching]	SM	Tan silty fine sand
8				[Diagonal hatching]	CL	Light brown silty clay (moist, medium stiff, no odor).
10			B	[Vertical hatching]		Tan silty fine sand (slightly moist, loose, no odor).
12				[Vertical hatching]		
14			C	[Vertical hatching]		
16				[Vertical hatching]	SM	(grades to no silt)
18				[Vertical hatching]		
20			D	[Vertical hatching]		(grades w/ some silt)
22				[Vertical hatching]		
24			E	[Dotted pattern]	SW	Tan fine to coarse sand (moist, loose, no odor)
26				[Dotted pattern]		

Monitoring Well 5

Drilling Log

Project Texaco/Castro Valley

Owner Texaco Refining and Marketing

Location Castro Valley Rd.

Project Number 203 150 4080

Depth (feet)	Well Completion	PID (ppm)	Sample	Graphic Log	Soil Class	Description (Color, Texture, Structure)					
26					SW	(grades w/ silts, clays. + gravel)					
28										(grades more dense)	
30						F					
32											
34											Encountered water 4/03/90 (0945 hours).
36						G					
38											
40						H					(as above)
42											
44						NR					
46						Bottom of boring. Installed monitor well.					
48											
50											
52											
54											
56											
58											

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-6

Date Drilled: 1/20/91

Project Number: 3-30091-31

Logged By: N.L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
1				4" Asphalt, 8" Aggregate Base		
2			CL	SILTY CLAY, possible artificial fill, olive brown (2.5Y 4/4), silt ≈ 20%, sand ≈ 15%, stiff, moist		
3						
4			CL	SILTY CLAY, yellowish brown (10YR 4/5), silt ≈ 20%, sand 5-10%, medium stiff, moist		
5	6-1					
6						
7						
8						
9						
10						
11	6-2	9	MI/CL	CLAYEY SILT, yellowish brown (10YR 4/5), clay ≈ 20%, sand ≈ 10-15%		3.1
12						
13						
14						
15						
16	6-3	11		increasing silt, pockets of silty sand		2.4
17						
18						
19						
20			SW	SAND, dark yellowish brown, (10YR 4/4), ≈ 10-15% silt, well graded, medium dense, saturated (small perched zone)		
21	6-4	13	CH/CL	CLAY, brown (10YR 5/3), ≈ 10% silt, ≈ 5% sand, very stiff, moist	▼	

REVIEWED BY R.G./C.E.G.

[Handwritten Signature]

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-6

Date Drilled: 1/20/91

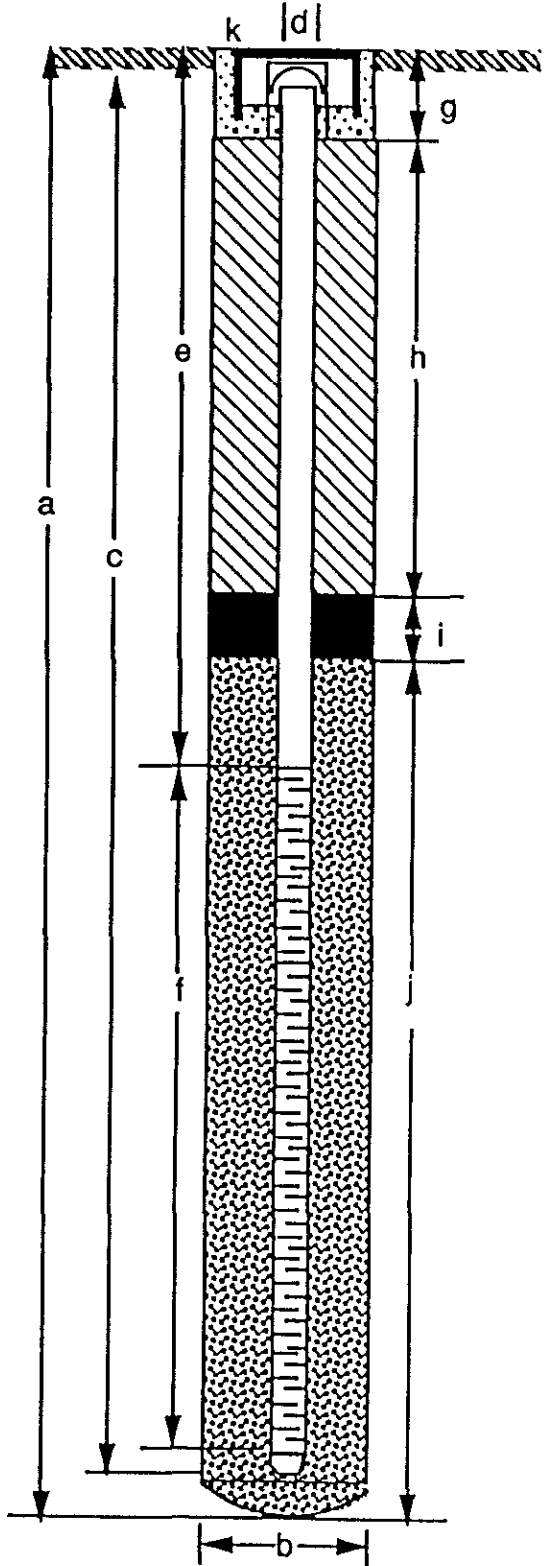
Project Number: 3-30091-31

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
22				CLAY, continued		
23						
24						
25						
26		18		Becoming gravelly		3.0
27						
28						
29						
30					▽	
31		30	GP	GRAVEL, brown to yellowish brown (10YR 4/3 to 10YR 5/8), sand ≈25-30%, gravel poorly graded, subangular to subrounded, <1/2-inch diameter, medium dense, saturated		2.8
32						
33						
34			SP	SAND, brown (10YR 4/3), poorly graded, silt ≈15%, flowing, loose, saturated		
35						
36						
37			GP	GRAVEL, brown to yellowish brown (10YR 4/3 - 10YR 5/8), sand ≈25-30%; gravel poorly graded, includes shale, sandstone, medium dense, saturated		
38						
39				Bottom of boring: 38 feet		
40				Groundwater encountered: 29 feet		
41						
42						

MONITORING WELL DETAIL

Project Number	<u>3-30091-31</u>	Boring/Well No.	<u>MW-6</u>
Project Name	<u>Former Texaco Service Station</u>	Top of Casing Elev.	<u>187.30</u>
County	<u>Alameda</u>	Ground Surface Elev.	<u>187.50</u>
Well Permit No.	<u>91685</u>	Datum	<u>Mean Sea Level</u>



EXPLORATORY BORING

a. Total depth 38 ft.
 b. Diameter 12 in.
 Drilling method Hollow stem auger

WELL CONSTRUCTION

c. Casing length 38 ft.
 Material Schedule 40 PVC
 d. Diameter 4 in.
 e. Depth to top perforations 26 ft.
 f. Perforated length 12 ft.
 Perforated interval from 38 to 26 ft.
 Perforation type Slot
 Perforation size 0.02 in.
 g. Surface seal 2 ft.
 Seal material Concrete
 h. Backfill 21 ft.
 Backfill material Neat Cement
 i. Seal 2 ft.
 Seal material Bentonite
 j. Gravel pack 13 ft.
 Pack material 2/12 sand
 k. 12" diameter traffic-rated vault box,
locking expansion cap

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-7

Date Drilled: 1/21/92

Project Number: 3-30091-31

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
1				6" Concrete, 8" Base		
2			CL	SILTY CLAY, possible artificial fill, dark grayish brown (2.5Y 4/2), silt ≈20%, sand ≈20%, stiff, moist		
3						
4						
5						
6	7-1	21	CL	CLAY, brownish yellow (10YR 5/4), sand ≈30-40%, pockets of clayey sand, very stiff, damp		4.0
7						
8						
9			SC	CLAYEY SAND brownish yellow (10YR 5/4), clay ≈30%, medium dense, moist		
10						
11	7-2	15	ML	SILT, light yellowish brown (10YR 6/4) clay ≈10%, sand ≈15%, friable, rootholes, microlayers, medium stiff, moist		3.2
12						
13						
14						
15				-increasing moisture, sand		
16	7-3	22	SM	SILTY SAND, yellowish brown (10YR 5/4), silt ≈20-30%, fine-grained, trace coarse gravels, medium dense, damp		
17						
18						
19						
20						4.0
21	7-4	23	CL/CH	CLAY, brown (10YR 5/3), silt ≈15%, sand ≈5-10%, medium to high plasticity, stiff, moist		

REVIEWED BY R.G./C.E.G.

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-7

Date Drilled: 1/21/92

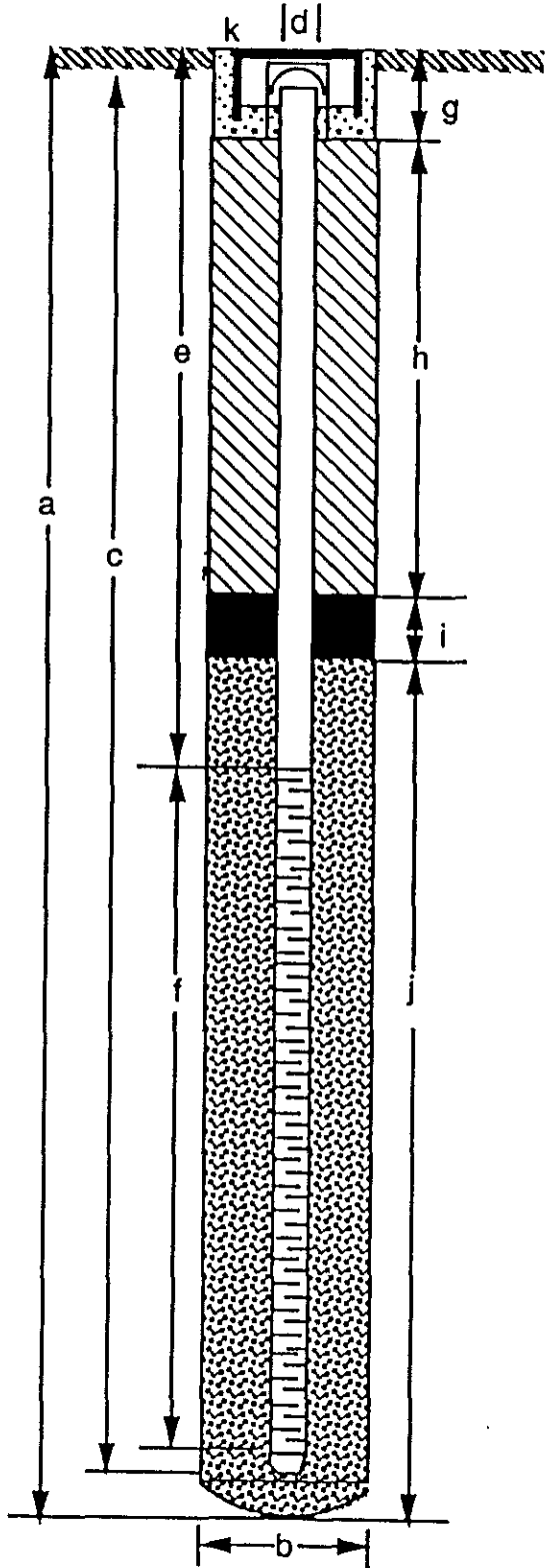
Project Number: 3-30091-31

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
22			CL	CLAY, continued		
23			CL	SILTY CLAY, yellowish brown (10YR 5/4), silt ≈20-30%, very stiff, moist	▼	
24						
25	7-5	28	SP	SAND, yellowish brown (10YR 5/4) poorly graded, silt ≈10%, medium dense, saturated, small perched zone		6.5
26			CL	SILTY CLAY, yellowish brown (10YR 5/4), silt ≈20-30%, stiff, moist		
27						
28		15	ML	SILT, yellowish brown (10YR 5/4), fractured, stiff, moist	▽	
29						
30						
31		36	SC	CLAYEY SAND, yellowish brown (10YR 5/4), clay ≈10-20%, gravel ≈5%, dense, saturated		2.8
32						
33						
34				-increasing sand and gravels, flowing		
35			GC	CLAYEY GRAVEL, brown to yellowish brown (10YR 4/3 to 10YR 5/8), clay ≈20%, gravel subrounded, ≤ 2" diameter, dense, saturated		
36						
37				-sample from drill bit		
38						
39						
40						
41				Bottom of boring: 40 feet		
42				Groundwater encountered: 30 feet		

MONITORING WELL DETAIL

Project Number	<u>3-30091-31</u>	Boring/Well No.	<u>MW-7</u>
Project Name	<u>Former Texaco Service Station</u>	Top of Casing Elev.	<u>189.34</u>
County	<u>3940 Castro Valley Boulevard</u>	Ground Surface Elev.	<u>189.53</u>
Well Permit No.	<u>91685</u>	Datum	<u>Mean Sea Level</u>



EXPLORATORY BORING

a. Total depth 40 ft.
 b. Diameter 12 in.
 Drilling method Hollow Stem Auger

WELL CONSTRUCTION

c. Casing length 38 ft.
 Material Schedule 40 PVC
 d. Diameter 4 in.
 e. Depth to top perforations 28 ft.
 f. Perforated length 10 ft.
 Perforated interval from 38 to 28 ft.
 Perforation type Slot
 Perforation size 0.02 in.
 g. Surface seal 2 ft.
 Seal material Concrete
 h. Backfill 23-1/2 ft.
 Backfill material Neat Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack 11.5 ft.
 Pack material 2/12 sand
 k. 12-inch diameter traffic-rated vault box
locking expansion cap

NOTE: Hole caved bottom two feet due to flowing sand.

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-8

Date Drilled: 1/22/92

Project Number: 3-30091-31

Logged By: N.L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
1				3" Asphalt, 8" Aggregate Base		
2			CL	SILTY CLAY, possible fill, very dark grayish brown (2.5Y 3/2), silt ≈20-30% sand ≈20%, soft, moist		
3						
4			CL	SILTY CLAY, yellowish brown (10YR 5/4), silt ≈30%, sand ≈20%, medium stiff, moist		5.5
5						
6	8-1	12				
7						
8						
9						
10			SM	SILTY SAND, brown (10YR 5/3), silt ≈30-40%, fine grained with pockets of sandy silt, medium dense, damp		9.2
11	8-2	13				
12						
13						
14						
15						
16	8-3	33		-interbedded/lensed sandy silt, sand, silty sand, very stiff to dense, damp		7.6
17						
18						
19						
20						
21	8-4	13	CL/CH	CLAY, dark grayish brown (10YR 4/2), silt ≈5%, sand ≈10%, medium to high plasticity, stiff, moist		8.2

REVIEWED BY R.G./C.E.G.

RESNA EXPLORATORY BORING LOG

Project Name: Former Texaco Service Station
 3940 Castro Valley Boulevard
 Castro Valley, California

Boring No. MW-8

Date Drilled: 1/22/92

Project Number: 3-30091-31

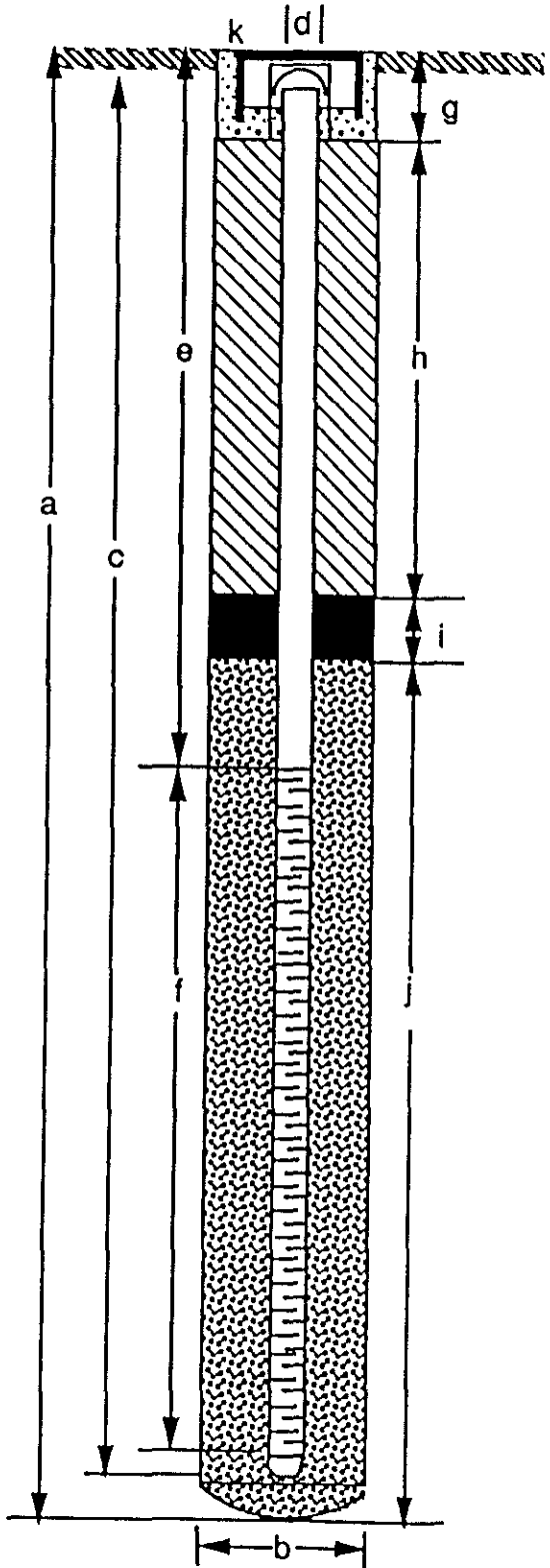
Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
22				CLAY, continued		
23			CH	CLAY, mottled dark yellowish brown (10YR 4/6), silt ≈10%, sand ≈15%, highly plastic, trace gravel in shoe, very stiff, moist		
24						
25						
26	8-5	33				6.4
27						
28			GP	GRAVEL, mottled yellowish brown (10YR 5/4), silt ≈10%, sand ≈30%, gravel ~ 2-1/2 diameter, poorly graded, subangular, includes sandstone, cherts, dense, saturated	▽	
29						
30						
31		36				23.4
32						
33						
34						
35			SW	SAND, mottled yellowish brown (10YR 5/4), well graded, gravel ≈15%, coarse grained, with pockets of clayey sand, dense, saturated		5.7
36		42				
37						
38						
39				-flowing -sample from drill bit		
40						
41				Bottom of boring: 40 feet		
42				Groundwater encountered: 29 feet		

REVIEWED BY R.G./C.E.G.

MONITORING WELL DETAIL

Project Number	<u>3-30091-31</u>	Boring/Well No.	<u>MW-8</u>
Project Name	<u>Former Texaco Service Station</u>	Top of Casing Elev.	<u>193.62</u>
County	<u>Alameda</u>	Ground Surface Elev.	<u>193.85</u>
Well Permit No.	<u>91685</u>	Datum	<u>Mean Sea Level</u>



EXPLORATORY BORING

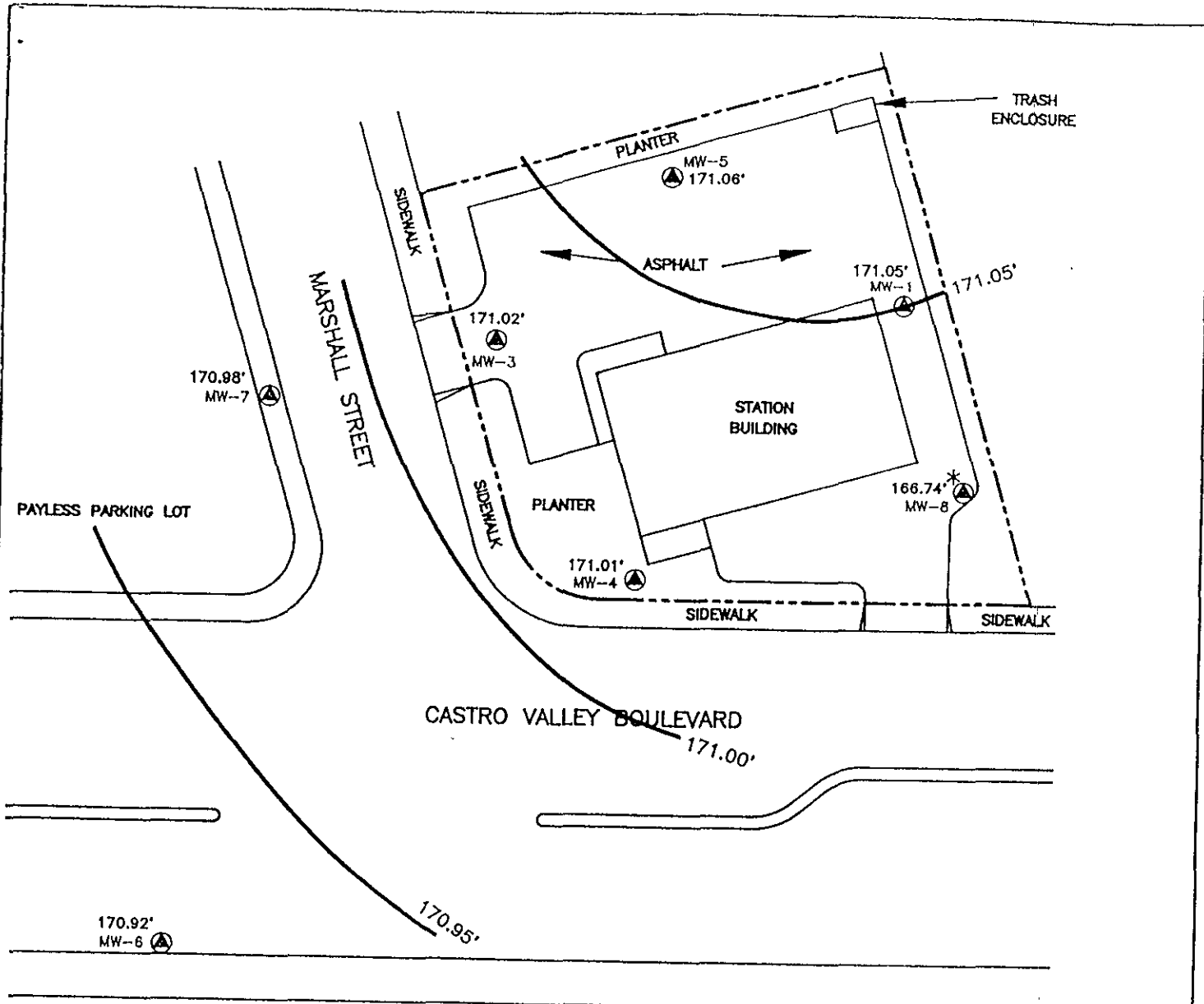
a. Total depth 40 ft.
 b. Diameter 12 in.
 Drilling method Hollow Stem Auger

WELL CONSTRUCTION

c. Casing length 40 ft.
 Material Schedule 40 PVC
 d. Diameter 4 in.
 e. Depth to top perforations 24-1/2 ft.
 f. Perforated length 15 ft.
 Perforated interval from 39-1/2 to 24-1/2 ft.
 Perforation type Slot
 Perforation size 0.02 in.
 g. Surface seal 2 ft.
 Seal material Concrete
 h. Backfill 20.5 ft.
 Backfill material Cement
 i. Seal 1 ft.
 Seal material Bentonite
 j. Gravel pack 16 ft.
 Pack material 2/12 sand
 k. 12-inch diameter traffic-rated vault box,
locking expansion cap



NOTE: Hole caved 1/2-foot with flowing sands

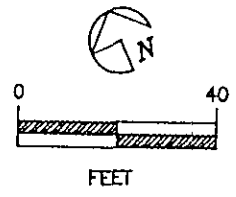
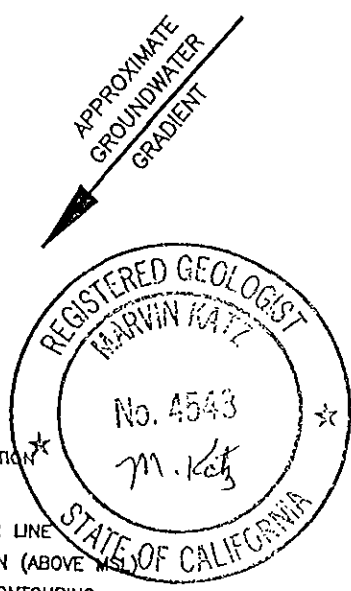
ATTACHMENT 5




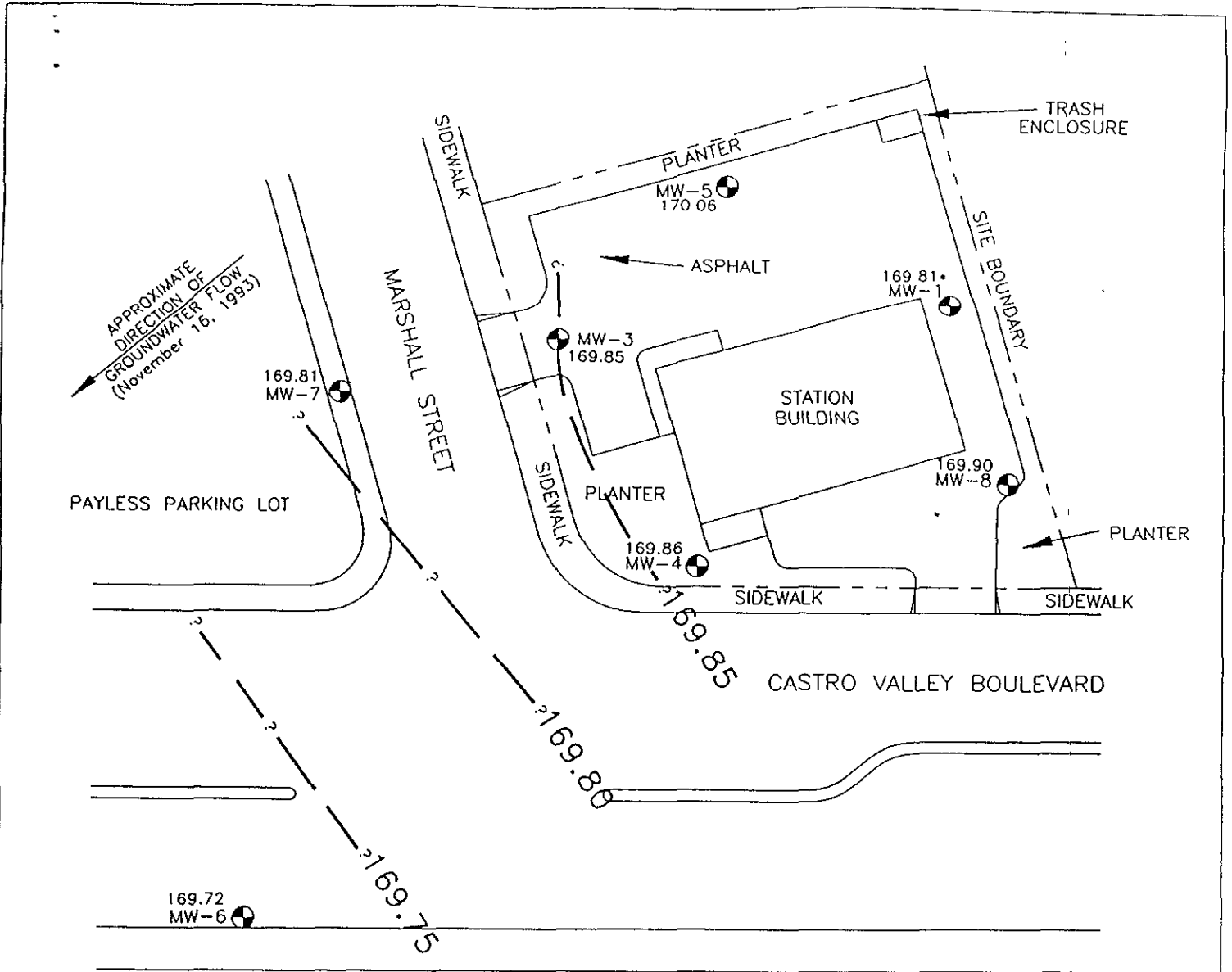
SOURCE : MODIFIED FROM
RESNA DWG.

LEGEND :

-  MW-1 MONITORING WELL LOCATION AND WELL NUMBER
-  GROUNDWATER CONTOUR LINE
- 171.05' GROUNDWATER ELEVATION (ABOVE MSL)
- * WELL NOT USED FOR CONTOURING

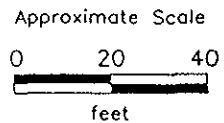
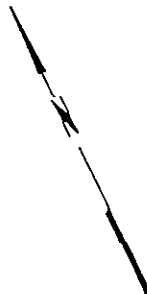


 TEXACO REFINING AND MARKETING, INC. TEXACO ENVIRONMENTAL SERVICES			
PLATE 2 : GROUNDWATER GRADIENT MAP (03/18/1994)			
TEXACO SERVICE STATION 3940 CASTRO VALLEY BLVD. / MARSHALL ST., CASTRO VALLEY, CALIFORNIA			
SCALE	1" = 40'-0"	LOCATION #	62-488-0089
DRAWN BY	AMA	DATE	05/01/1994
CHECKED BY	JKD	DATE	5/9/94
DRAWING NO. (CASTRO VALLEY) CV-MA-CV.DWG			



EXPLANATION

- MW-8 = Monitoring Well
- 169.85 — = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 170.06 = Elevation of groundwater in feet above MSL, November 16, 1993
- = Not used in gradient interpretation



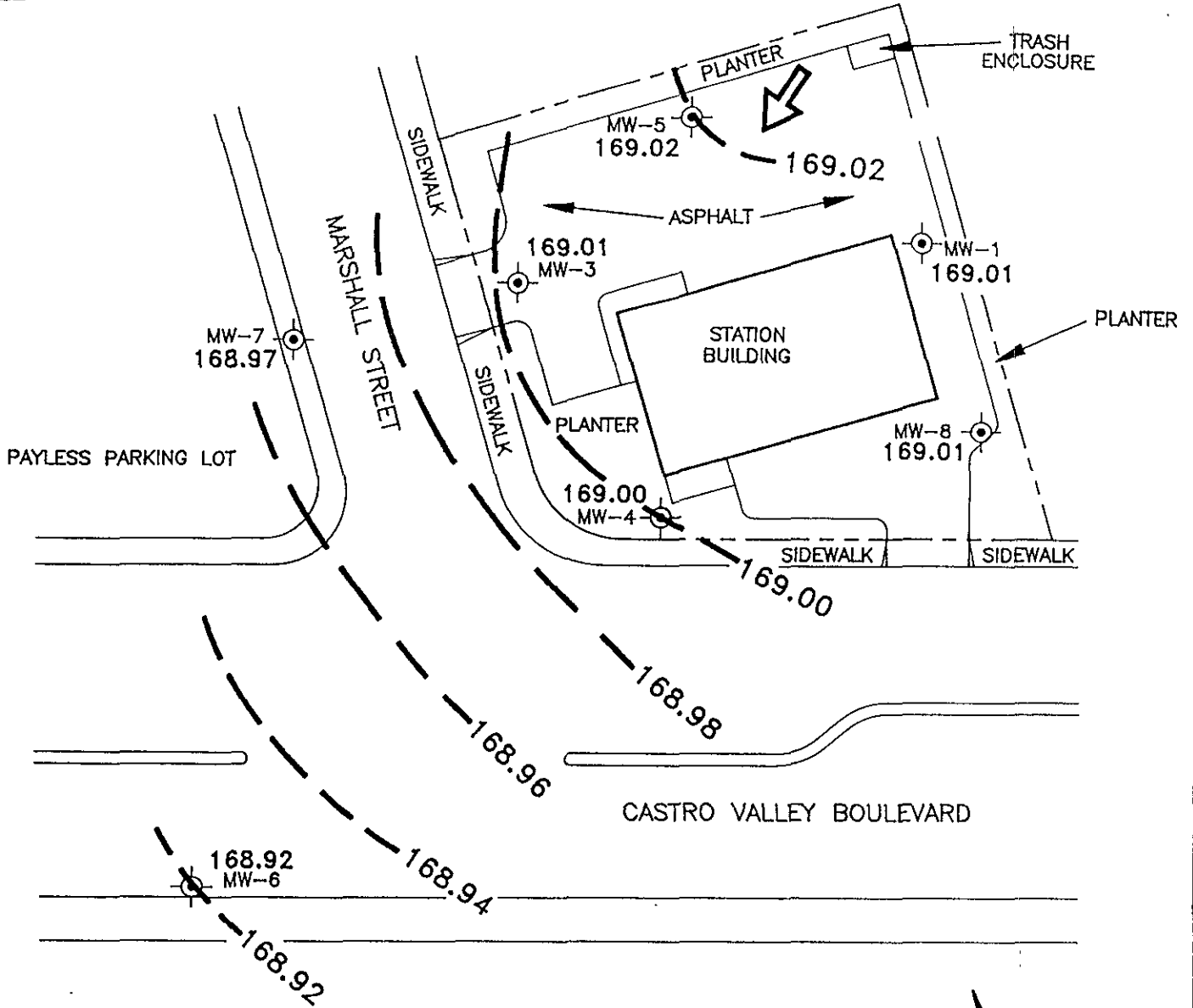
BASE MAP SURVEYED BY RON ARCHER
CIVIL ENGINEER, INC.



GROUNDWATER GRADIENT MAP
Former Texaco Station
3940 Castro Valley Boulevard
Castro Valley, California

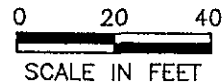
PLATE
2

PROJECT 62091.01



LEGEND

- MW-8 GROUNDWATER MONITORING WELL
- SITE BOUNDARY
- BUILDING
- 169.02 GROUNDWATER ELEVATION (FEET)
- 169.02 GROUNDWATER ELEVATION CONTOUR LINE
CONTOUR INTERVAL: 0.02
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW



BASE MAP: SURVEYED BY RON ARCHER
CIVIL ENGINEER, INC.

NOTE: CONTOURS ARE BASED ON INTERPRETATION
OF AVAILABLE DATA, AND ARE NOT
INTENDED TO IMPLY CERTAINTY.

RESNA

GROUNDWATER ELEVATION MAP (6/30/92)

PLATE

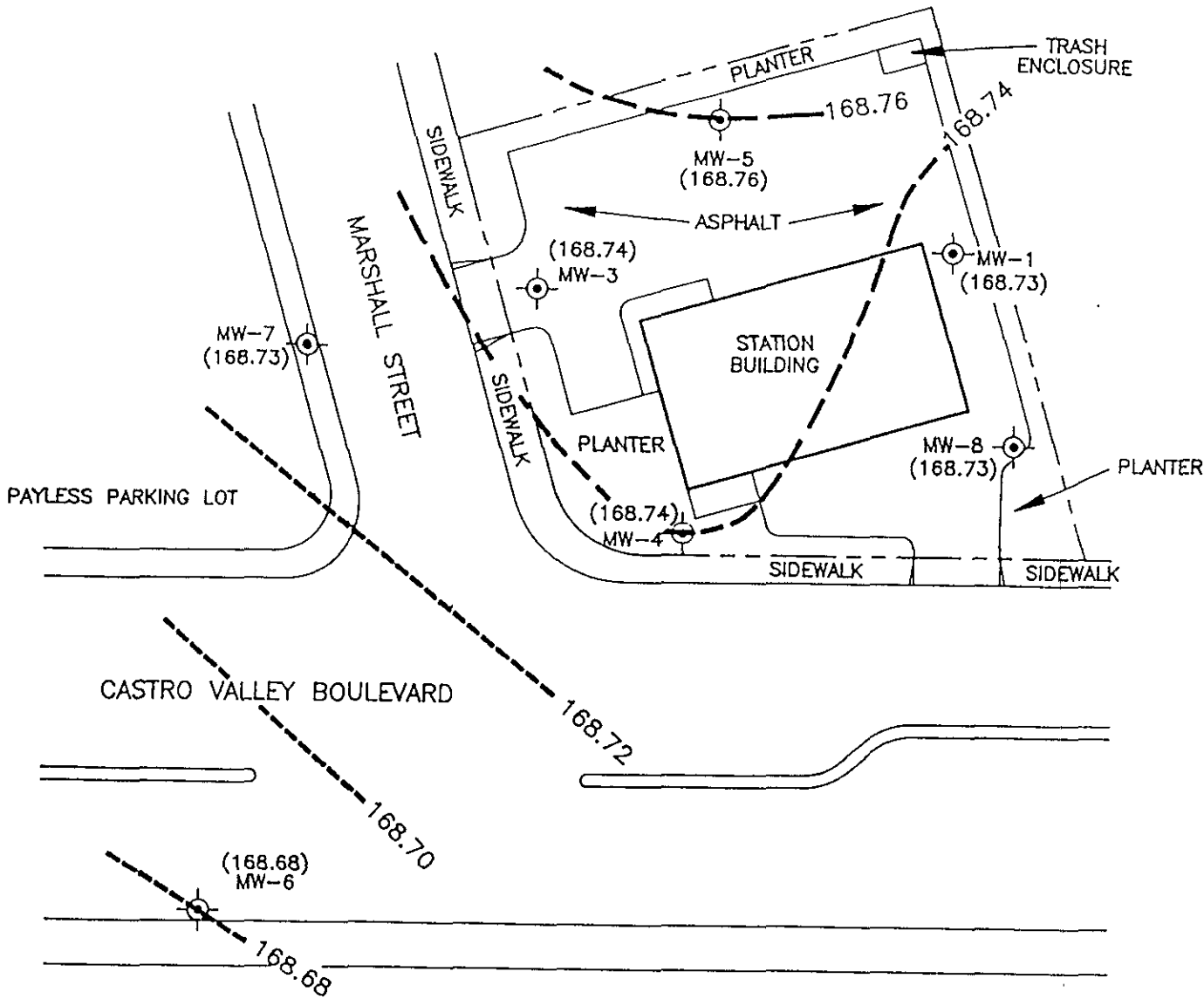
FORMER TEXACO SERVICE STATION

3940 CASTRO VALLEY BOULEVARD

3

PROJECT NO. F3091.32

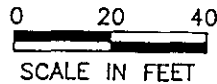
CASTRO VALLEY, CALIFORNIA



LEGEND

- MW-8 GROUNDWATER MONITORING WELL
- SITE BOUNDARY
- BUILDING
- (168.76) GROUNDWATER ELEVATION (FEET)
- 168.76 GROUNDWATER ELEVATION CONTOUR LINE

CONTOUR INTERVAL: 0.02



BASE MAP: SURVEYED BY RON ARCHER
CIVIL ENGINEER, INC.

REVIEWED BY:

Handwritten signature

GROUNDWATER ELEVATION MAP (2/28/92)

FORMER TEXACO SERVICE STATION



APPROVED BY:

Handwritten signature

3940 CASTRO VALLEY BOULEVARD

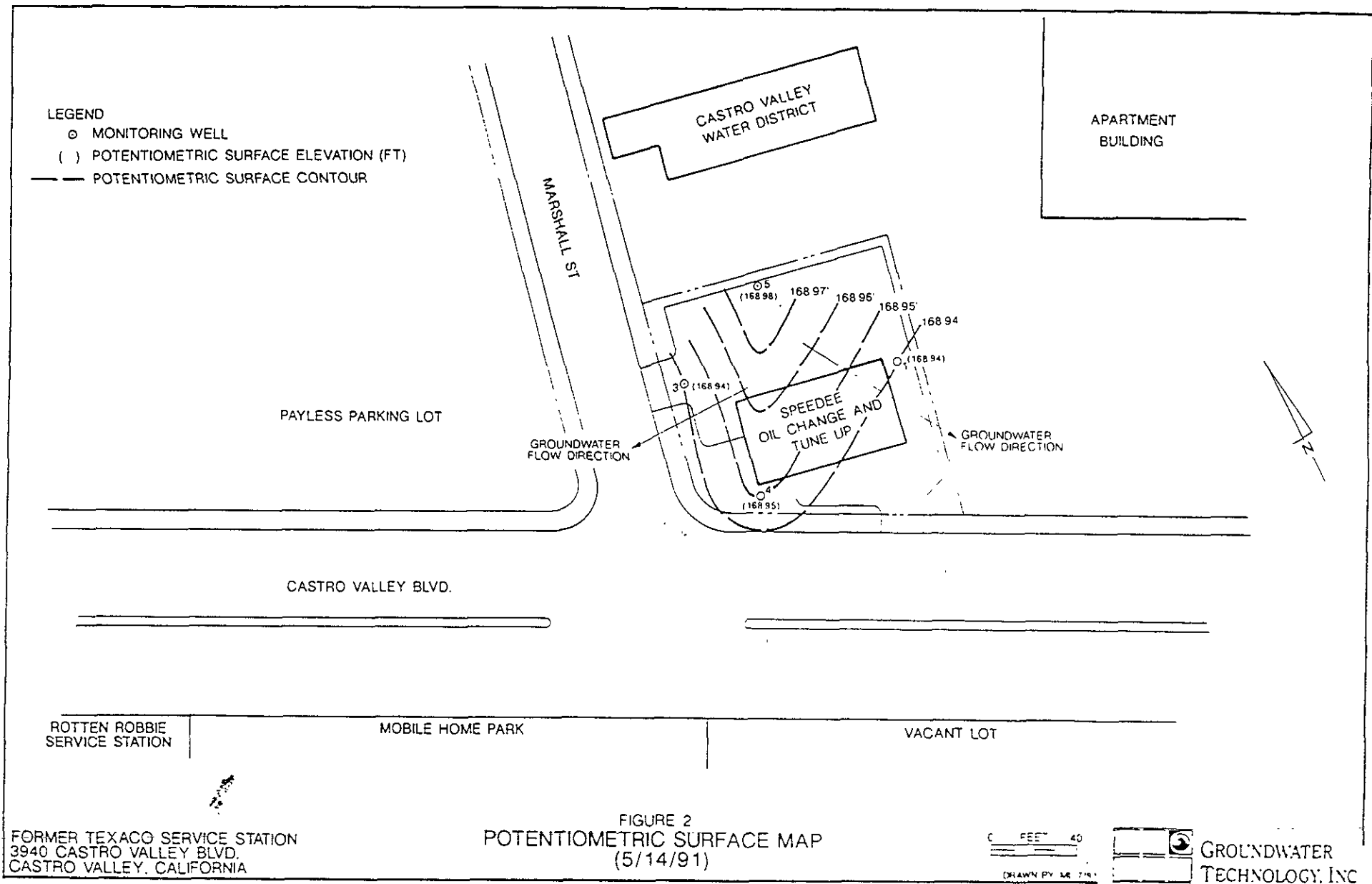
CASTRO VALLEY, CALIFORNIA

JOB #:
3-30091-32

DATE:
3/5/92

DRAWN BY:
J.D.S.

DRAWING #:
FIG. 4



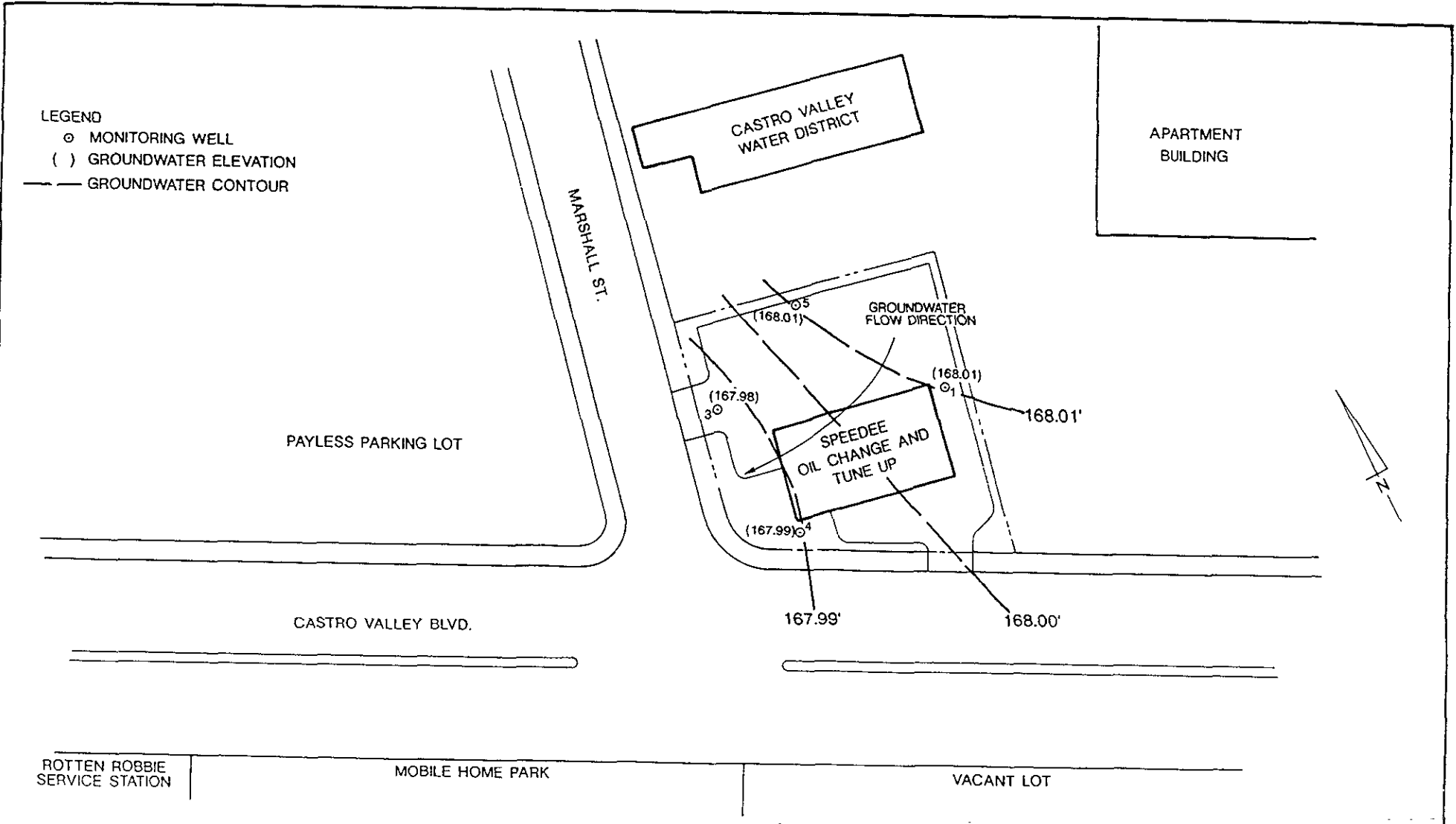


FIGURE 9
 POTENTIOMETRIC SURFACE MAP
 (11/15/90)

TEXACO REFINING
 & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA

GROUNDWATER
 TECHNOLOGY, INC.

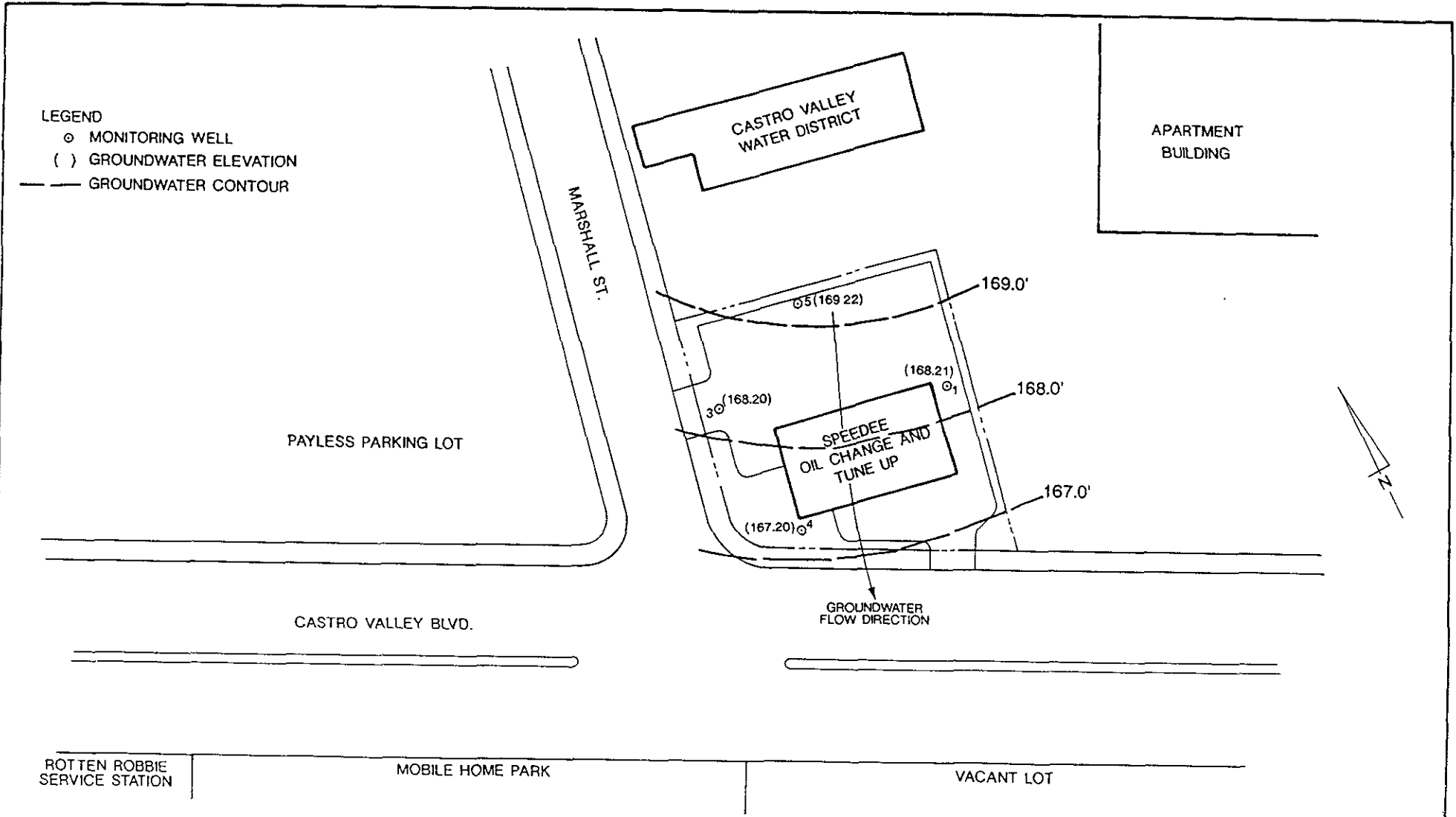


FIGURE 8
 POTENTIOMETRIC SURFACE MAP
 (10/10/90)

TEXACO REFINING & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA



GROUNDWATER TECHNOLOGY, INC.

ML 12/90

LEGEND

- ⊙ MONITORING WELL
- () GROUNDWATER ELEVATION (FT)
- GROUNDWATER CONTOUR

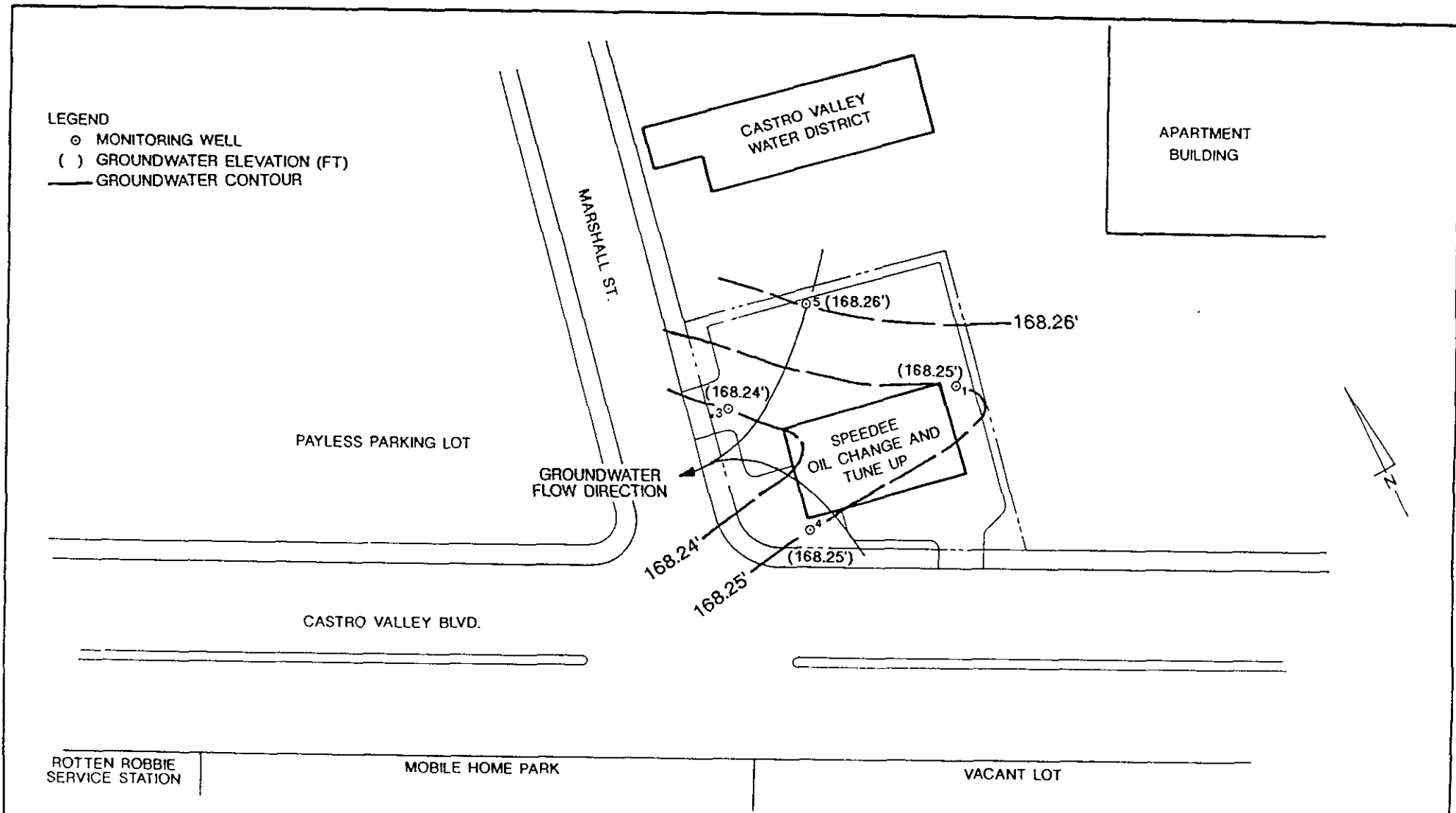
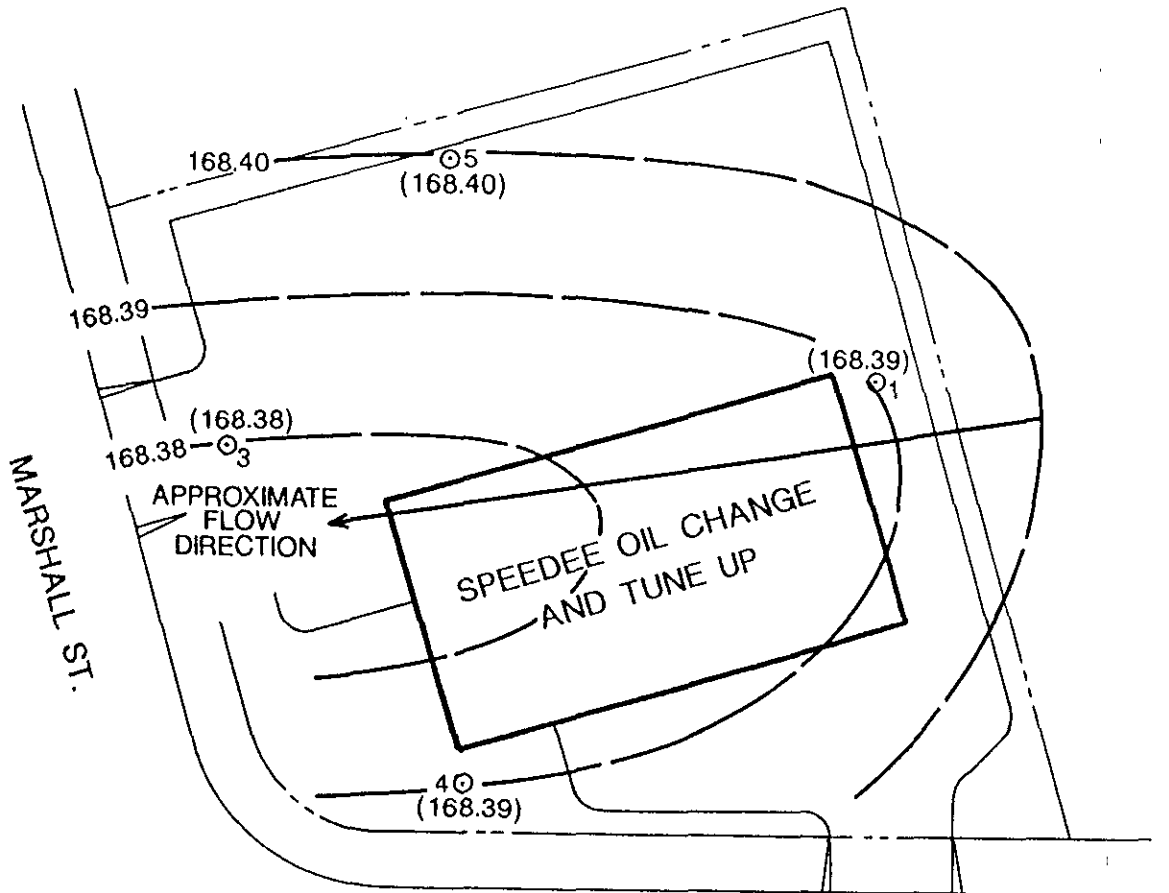


FIGURE 7
POTENTIOMETRIC SURFACE MAP
(9/27/90)

TEXACO REFINING
& MARKETING INC.
CASTRO VALLEY, CALIFORNIA

0 FEET 40
ML 10/90

GROUNDWATER
TECHNOLOGY, INC.



CASTRO VALLEY BLVD.

LEGEND

- ⊙ MONITORING WELL
- () GROUNDWATER ELEVATION (FT.)
- GROUNDWATER CONTOUR

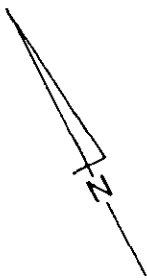
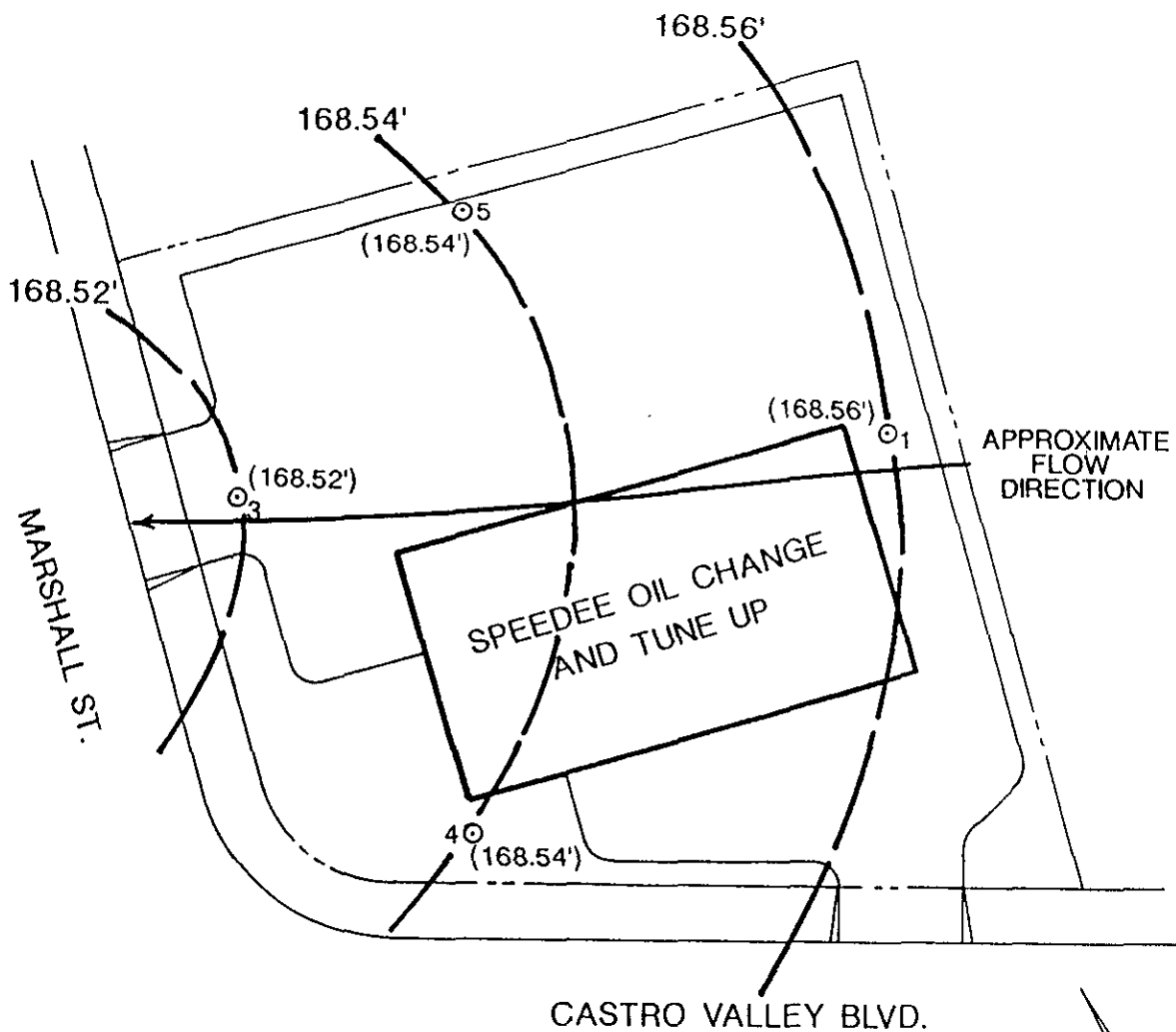


FIGURE 6
 POTENTIOMETRIC SURFACE MAP
 (8/22/90)



TEXACO REFINING
 & MARKETING INC.
 CASTRO VALLEY, CALIFORNIA

 GROUNDWATER
 TECHNOLOGY, INC.



LEGEND

- ⊙ MONITORING WELL
- () GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR

FIGURE 5
 POTENTIOMETRIC SURFACE MAP
 (7/18/90)

0 FEET 30



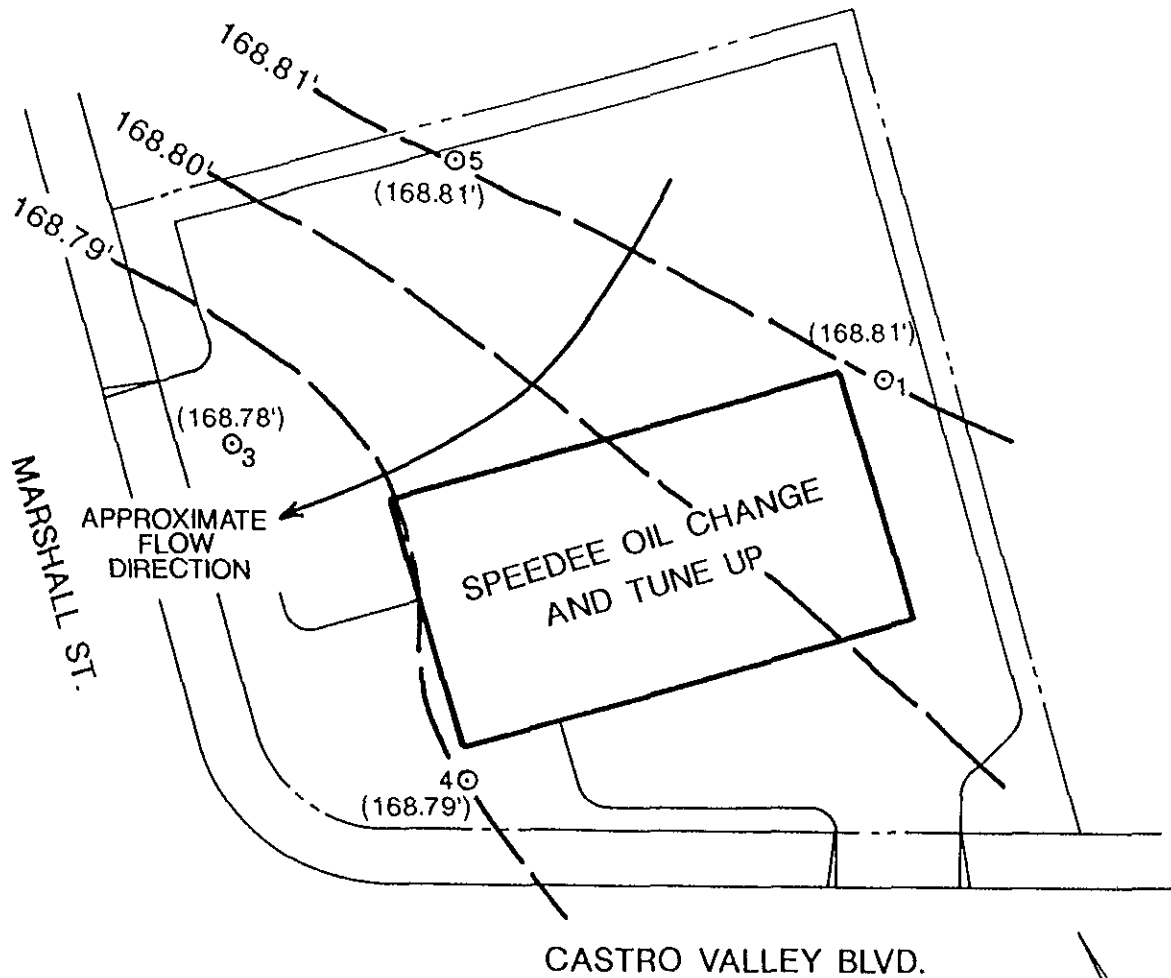


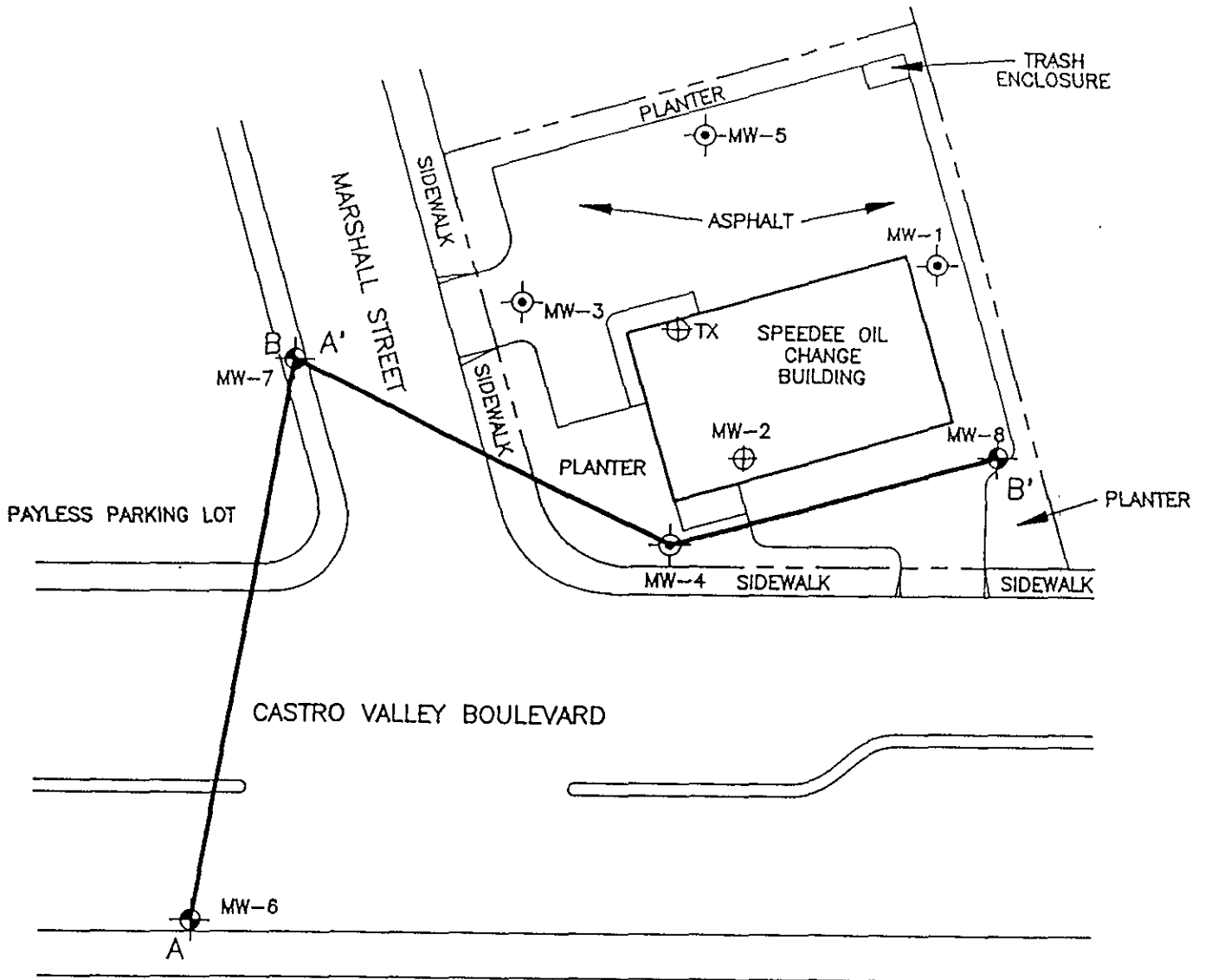
FIGURE 4
 POTENTIOMETRIC SURFACE MAP
 (4/12/90)

LEGEND




- ⊙ MONITORING WELL
- () GROUNDWATER ELEVATION
- GROUNDWATER CONTOUR



ATTACHMENT 6

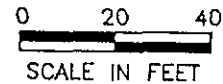


LEGEND

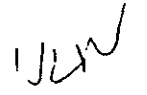

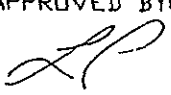
- MW-5  GROUNDWATER MONITORING WELL (GTI)
- MW-8  GROUNDWATER MONITORING WELL (RESNA)
- MW-2  DESTROYED GROUNDWATER MONITORING WELL

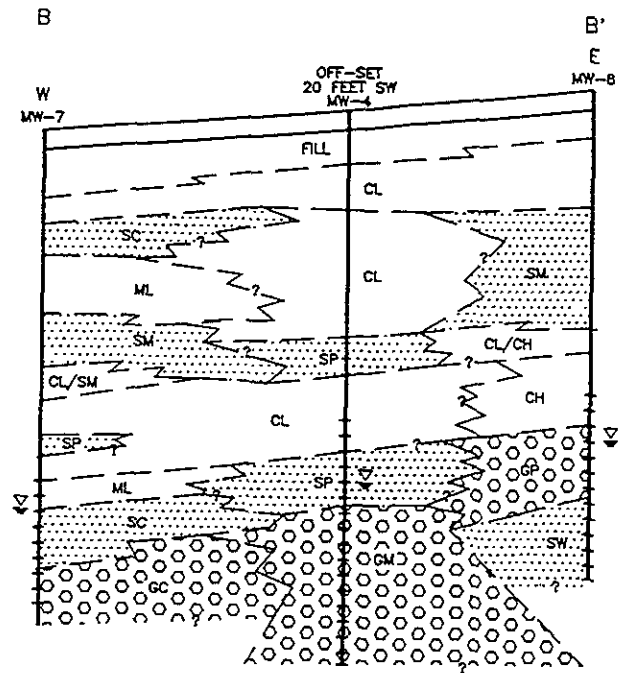
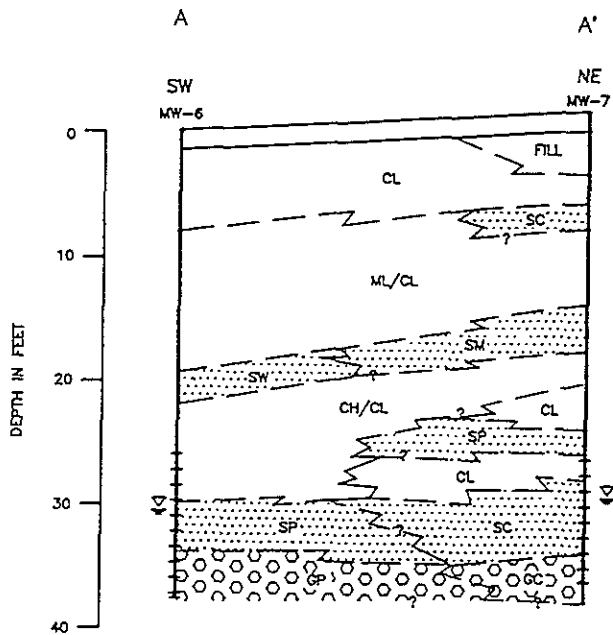
--- SITE BOUNDARY

A --- B' LINE OF CROSS SECTION



BASE MAP: SURVEYED BY RON ARCHER
CIVIL ENGINEER, INC.

REVIEWED BY: 	SITE PLAN			
	FORMER TEXACO SERVICE STATION			
APPROVED BY: 	3940 CASTRO VALLEY BOULEVARD		JOB #: 3-30091-31	DRAWN BY: E.C.
	CASTRO VALLEY, CALIFORNIA		DATE: 3/11/92	DRAWING #: FIG. 2



LEGEND

- CH CLAYS, HIGHLY PLASTIC
- CL CLAYS, LOW TO MODERATELY PLASTIC
- GC CLAYEY GRAVEL
- GM SILTY GRAVEL
- GP POORLY GRADED GRAVEL
- ML SILT
- SC CLAYEY SAND
- SM SILTY SAND
- SP POORLY GRADED SAND
- SW WELL GRADED SAND

- WELL CASING
- WELL SCREEN
- FIRST ENCOUNTERED WATER
- STATIC WATER LEVEL 12/9/91
- TOTAL DEPTH
- SOIL SAMPLE

0 20 40
 APPROXIMATE HORIZONTAL
 SCALE IN FEET

REVIEWED BY:

NLN

APPROVED BY:

LP

GEOLOGIC CROSS SECTIONS

FORMER TEXACO SERVICE STATION

3940 CASTRO VALLEY BOULEVARD

CASTRO VALLEY, CALIFORNIA

RESNA

JOB #:
 3-30091-31
 DATE:
 3/11/92

DRAWN BY:
 E.C.
 DRAWING #:
 FIG. 3