

April 8, 1997

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Ms. Susan Hugo
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: Abandoning and Sealing Four Ground-Water Monitoring Wells, Broadway Webster Medical Plaza, 3300 Webster Street, Oakland, California

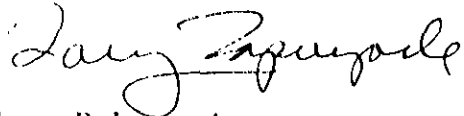
Dear Ms. Hugo:

This letter describes work performed on March 12 and 13, 1997, to abandon and seal four shallow ground-water monitoring wells formerly located at the Broadway Webster Medical Plaza, 3300 Webster Street, Oakland, California ("the Site"; Figure 1). These wells were no longer required based on the Alameda County Department of Environmental Health's (ACEHD), and the Regional Water Quality Control Board's (RWQCB's) approval of case closure for the Site on December 11, 1996. The four wells (LF-1 through LF-4) were abandoned and sealed according to guidelines in the State of California Department of Water Resources Bulletin 74-90, dated June 1991, and under a permit obtained from Alameda County Zone 7 Water Agency, (well abandonment permit number 97121). The wells were abandoned and sealed by Gregg Drilling, a licensed drilling contractor, as directed by a Levine Fricke Recon geologist. Copies of field logs of well construction and lithology for the wells are attached.

The shallow 2-inch diameter wells LF-1 (32 feet deep), LF-2 (35 feet deep), LF-3 (27 feet deep), and LF-4 (30 feet deep), were abandoned by drilling out the existing cement grout seal and filter pack to the total depth of each well using a truck-mounted drilling rig, equipped with 8-inch diameter hollow-stem augers. The polyvinyl chloride (PVC) casing of each well and remaining well materials and soils were then withdrawn from the borehole through the hollow stem augers, and as the augers were withdrawn from the borehole. The boreholes were grouted from the bottom to approximately 1 foot bgs with neat cement grout containing approximately 5 percent bentonite. The grout was pumped into the borehole through a tremie hose set at the base of the borehole and the borehole was filled with grout to within one foot of the ground surface. The well boxes were removed and soil was placed in the remaining hole to ground surface. Soil removed from the borings as part of the well abandonment procedure was placed in seven 55-gallon drums and temporarily stored on-site. Soil samples were collected from each drum for chemical analysis for disposal purposes. Pending analytical results, the drums of soil will be disposed of at an appropriate disposal facility.

If you have any questions or comments regarding this letter, please call me or Kimberly Brandt.

Sincerely,



Larry P. Laphyade
Project Hydrogeologist

Attachments

cc: Mr. Don Savage, Brighton Pacific
Mr. Wyman Hong, Zone 7 Water Agency
Mr. John Barnard, Esq.

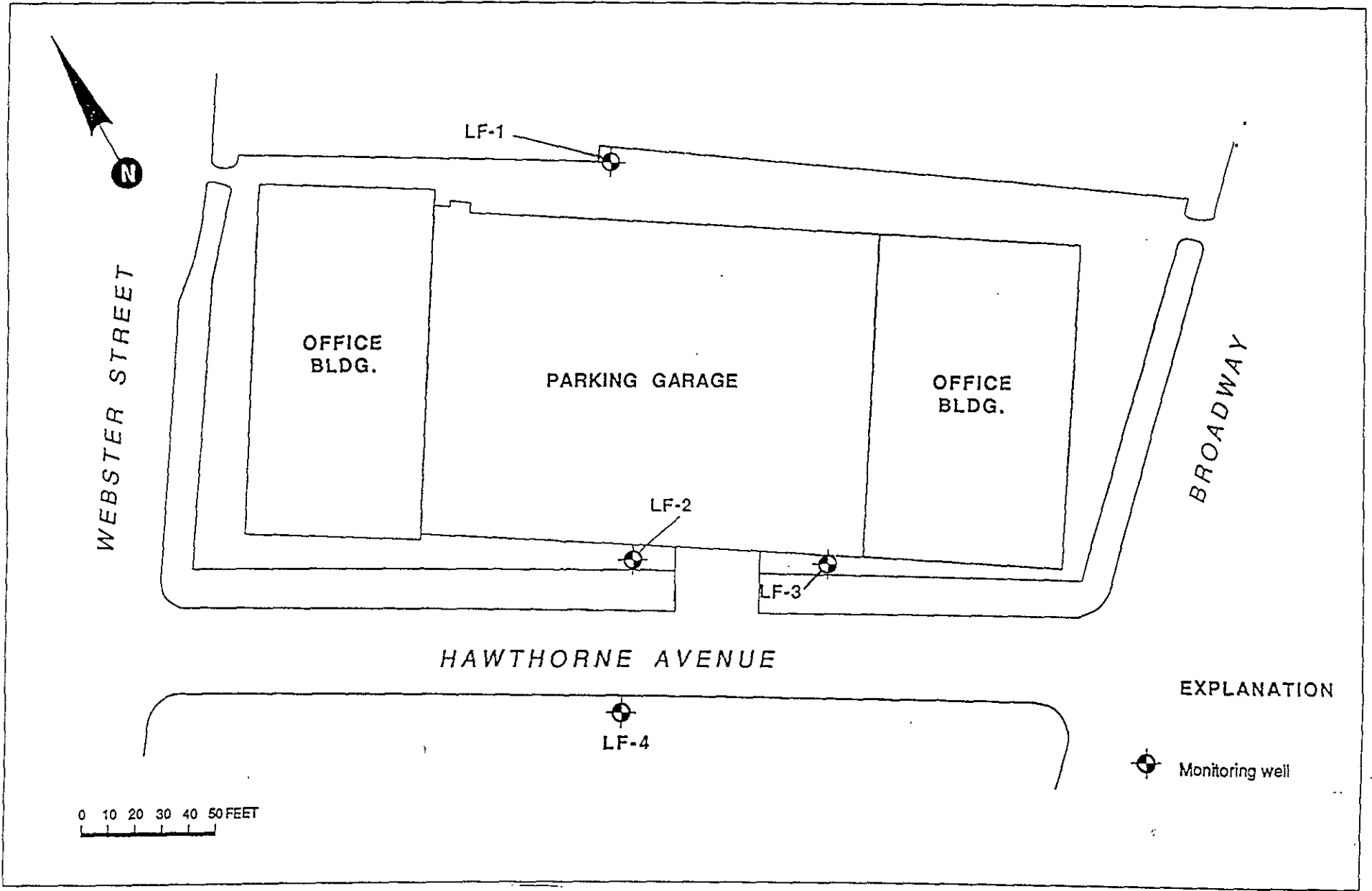
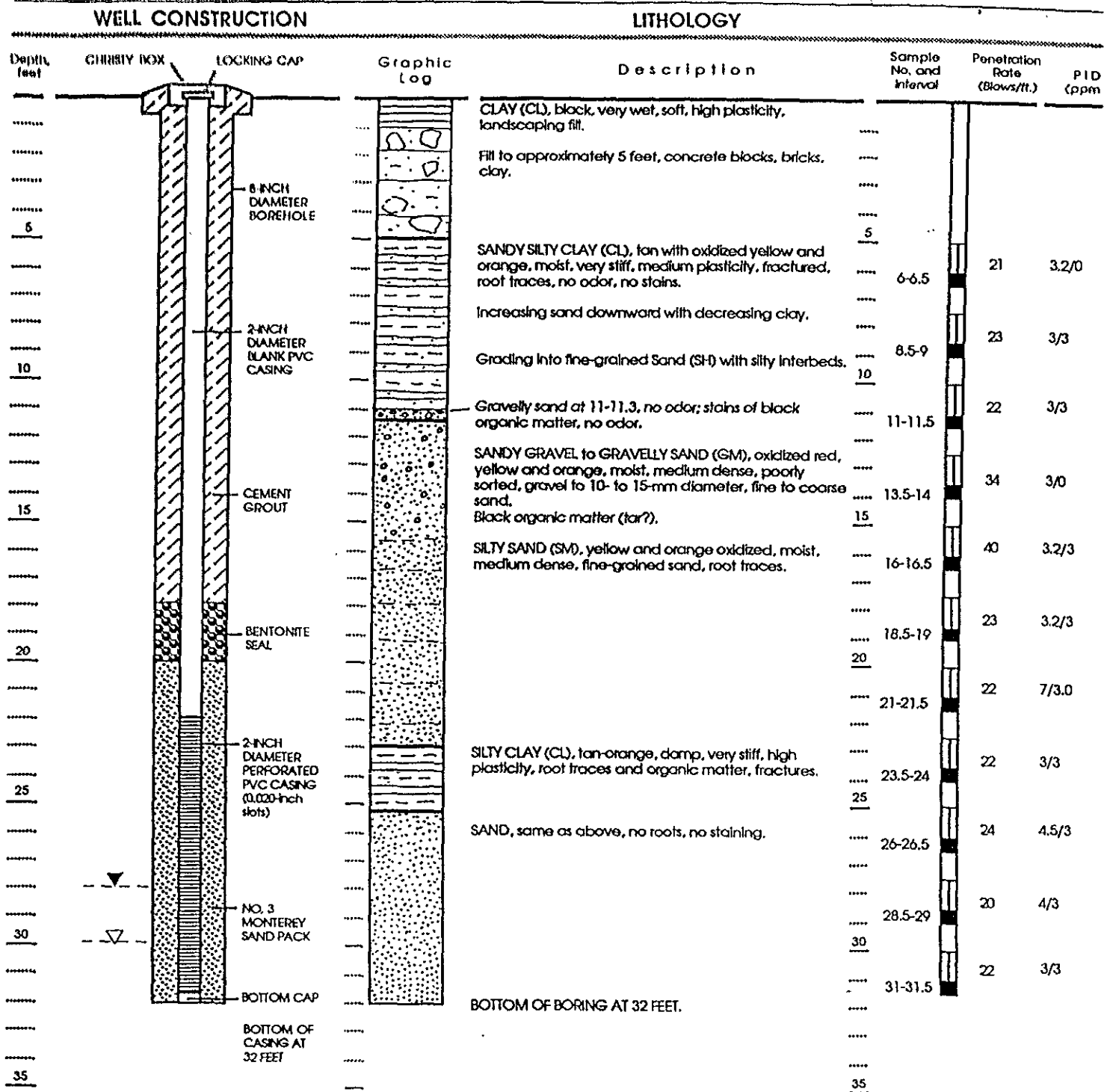


Figure 1 : BASE MAP GROUND-WATER MONITORING WELL LOCATIONS



Well Permit No. 89155
 Date well drilled: 28 March 1989
 Date water level measured: 28 March 1989
 Well elevation: 99.57 feet
 Hammer weight: 140 lbs
 LF Geologist: Don T. Bradshaw

EXPLANATION

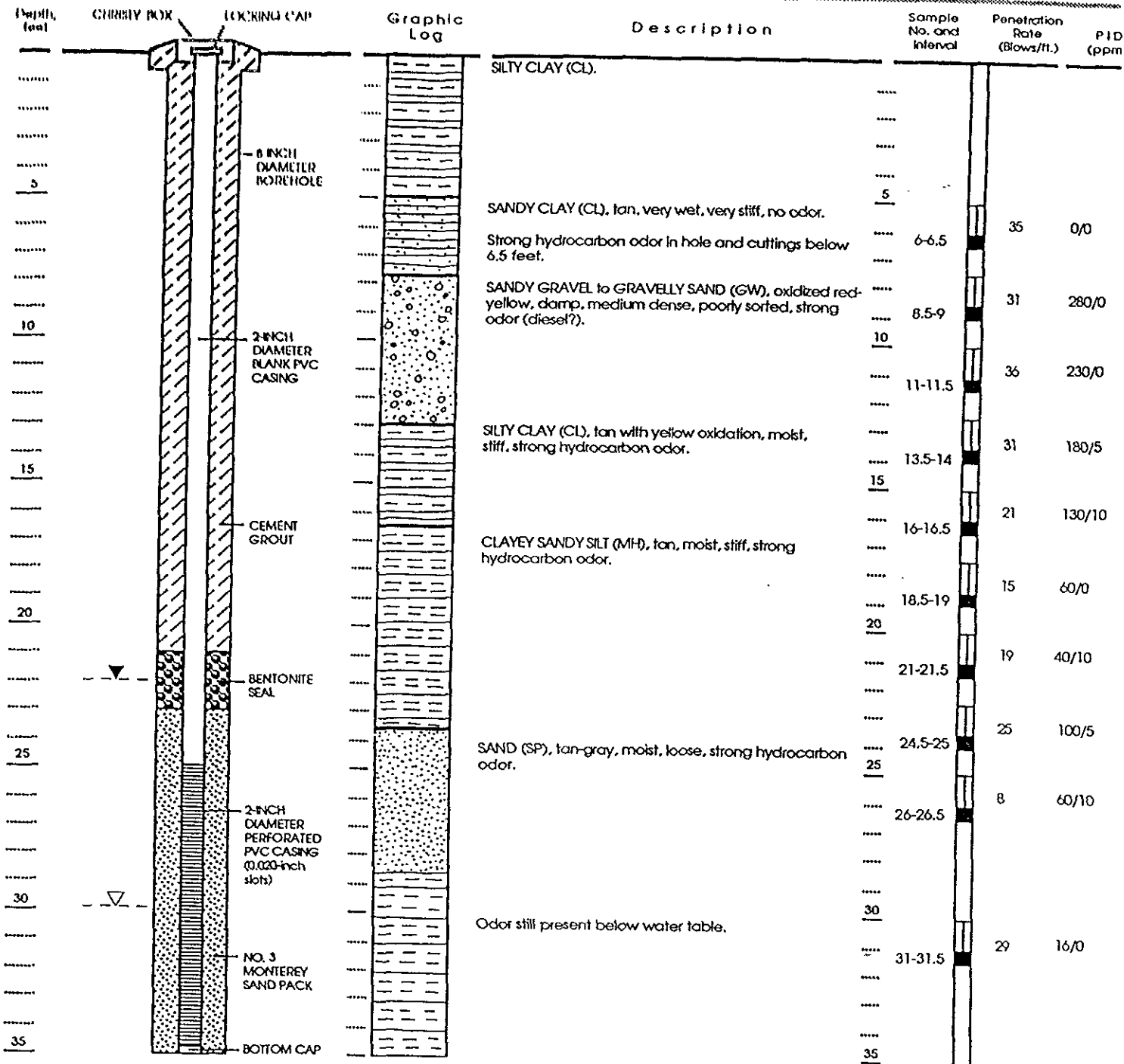
	Clay		Split Spoon Sampler
	Silt		Sample retained for analysis
	Sand		Water level at time of drilling
	Gravel		Water level 1/2 hour after drilling
	PID		Photoionization detector

Approved by: *[Signature]* RG5300

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-1 (SB-7)

WELL CONSTRUCTION

LITHOLOGY



BOTTOM OF CASING AT 35 FEET

Well Permit No. 89155
 Date well drilled: 29 March 1989
 Date water level measured: 30 March 1989
 Well elevation: 91.19 feet
 Hammer weight: 140 lbs
 LF Geologist: Don T. Bradshaw

EXPLANATION

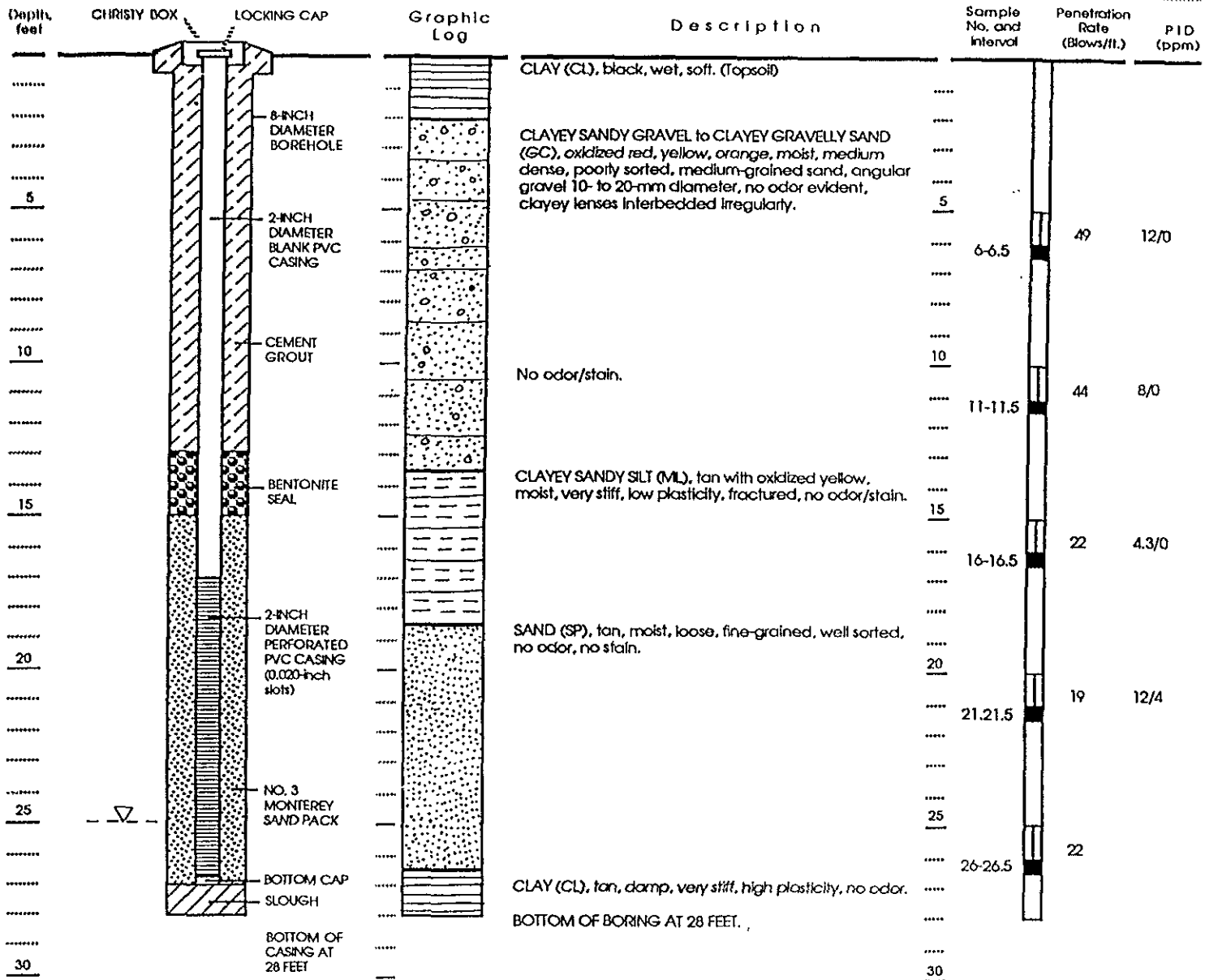
- Clay
- Silt
- Sand
- Gravel
- Split Spoon Sampler
- Sample retained for analysis
- Water level at time of drilling
- Water level hours after drilling
- PID Photoionization detector in parts per million (ppm)

Approved by: *Don T. Bradshaw* RG-5300

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-2 (SB-11)

WELL CONSTRUCTION

LITHOLOGY



Well Permit No. 89155
 Date well drilled: 30 March 1989
 Date water level measured: 31 March 1989
 Well elevation: 89.09 feet
 Hammer weight: 140 lbs
 LF Geologist: Don T. Bradshaw

EXPLANATION

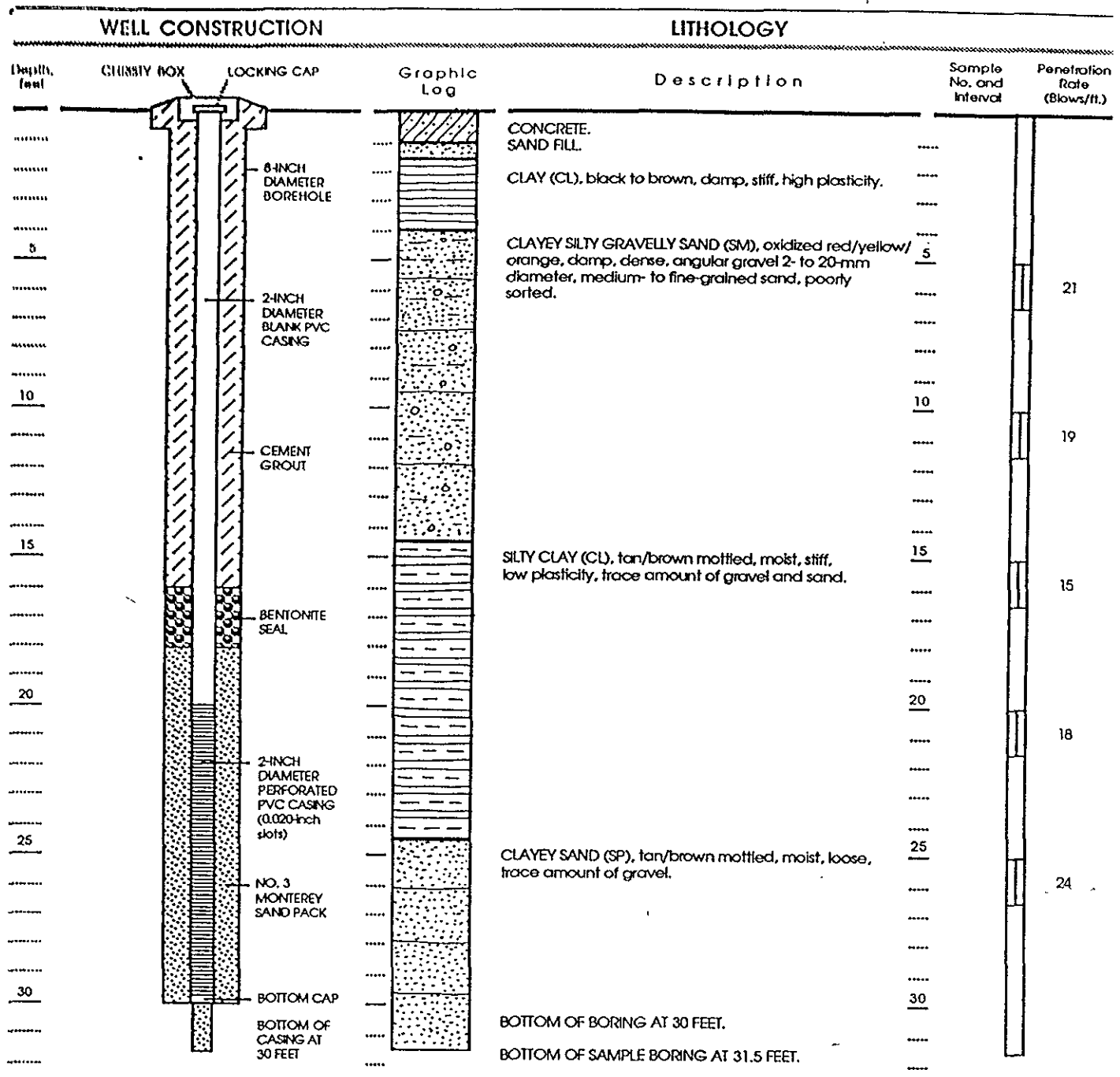
- Clay
- Silt
- Sand
- Gravel
- Split Spoon Sampler
- Sample retained for analysis

PID Photoionization detector in parts per million (ppm)






Water level at time of drilling

Approved by: *Don T. Bradshaw R.G.5300*

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-3 (SB-13)



Well Permit No. 89254
 Date well drilled: 25 May 1989
 Date water level measured:
 Drilling method: 8-inch Hollow-Stem Auger
 Well elevation:
 Hammer weight: 140 lbs/30-inch drop
 LF Geologist: Don T. Bradshaw

- EXPLANATION
-  Clay
 -  Silt
 -  Sand
 -  Gravel
 -  Split Spoon Sampler

Approved by: *Don T. Bradshaw*

Figure : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-4