



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: May 20, 2010 REFERENCE NO.: 240687
PROJECT NAME: 29 Wildwood Avenue, Piedmont

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

8:47 am, May 21, 2010

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other
 Prints

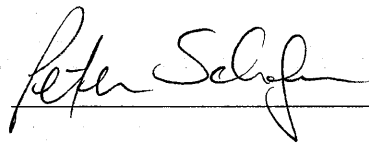
Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Well Destruction Work Plan

As Requested For Review and Comment
 For Your Use _____

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
SF Data Room (electronic copy)

Completed by: Peter Schaefer Signed: 

Filing: Correspondence File



Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Re: Shell-branded Service Station
29 Wildwood Avenue
Piedmont, California
SAP Code 135765
Incident No. 98995822
ACEH Case No. RO0000495

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis Brown", is written over a horizontal line.

Denis L. Brown
Project Manager



WELL DESTRUCTION WORK PLAN

**SHELL-BRANDED SERVICE STATION
29 WILDWOOD AVENUE
PIEDMONT, CALIFORNIA**

**SAP CODE 135765
INCIDENT NO. 98995822
AGENCY NO. RO0000495**

**MAY 20, 2010
REF. NO. 240687 (6)**

This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: <http://www.CRAworld.com>

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this work plan on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The proposed well destructions are required for final case closure per Alameda County Environmental Health's (ACEH's) April 29, 2010 letter.

The subject site is an active Shell-branded service station located on the northeast corner of the Wildwood Avenue and Grand Avenue intersection in a mixed commercial and residential area of Piedmont, California (Figure 1). The site layout (Figure 2) includes one station building, two dispenser islands, and three underground storage tanks.

2.0 WORK TASKS

2.1 PERMIT

CRA will obtain an appropriate permit from Alameda County Public Works Agency and encroachment and obstruction permits from the City of Oakland.

2.2 HEALTH AND SITE SAFETY PLAN (HASP)

CRA will prepare a HASP to protect site workers. The plan will be kept on site during field activities and will be reviewed and signed by each site worker.

2.3 UTILITY CLEARANCE

CRA will mark the well locations, and the locations will be cleared through Underground Service Alert and a private line locator prior to removing the well boxes.

2.4 MONITORING WELL DESTRUCTION

CRA proposes to properly destroy five monitoring wells (MW-1 through MW-5). The wells will be destroyed by backfilling with neat cement under pressure (pressure grouting). The well vaults will be removed, and the surface pavement patched with concrete to match the surrounding grade. CRA includes the well logs in Appendix A. The proposed scope of work will be performed under the supervision of a professional geologist or engineer.

2.5 REPORT PREPARATION

Following completion of the well destructions, CRA will submit a brief report documenting the activities.

3.0 SCHEDULE

CRA will implement the well destructions upon receipt of appropriate permits and will provide ACEH a report detailing the well destructions by June 29, 2010.

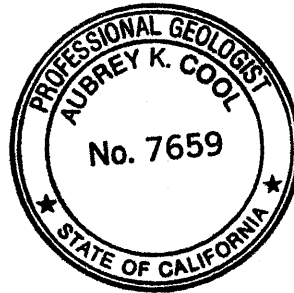
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



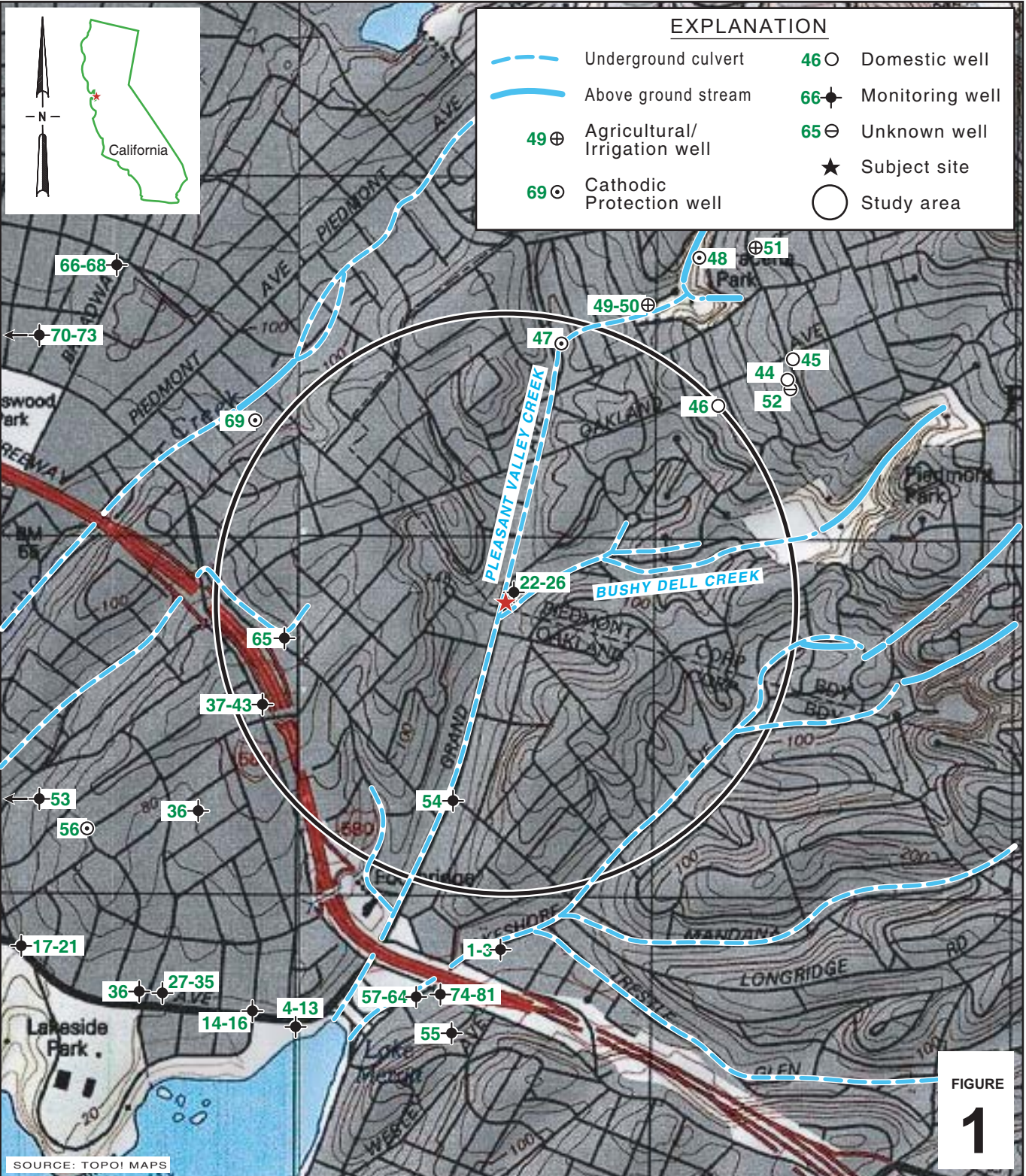
Peter Schaefer, CEG, CHG



Aubrey K. Cool, PG



FIGURES



I:\Shell\6-char\2406--1240687-Piedmont 29 Wildwood\240687-FIGURES\240687 VICINITY.A1

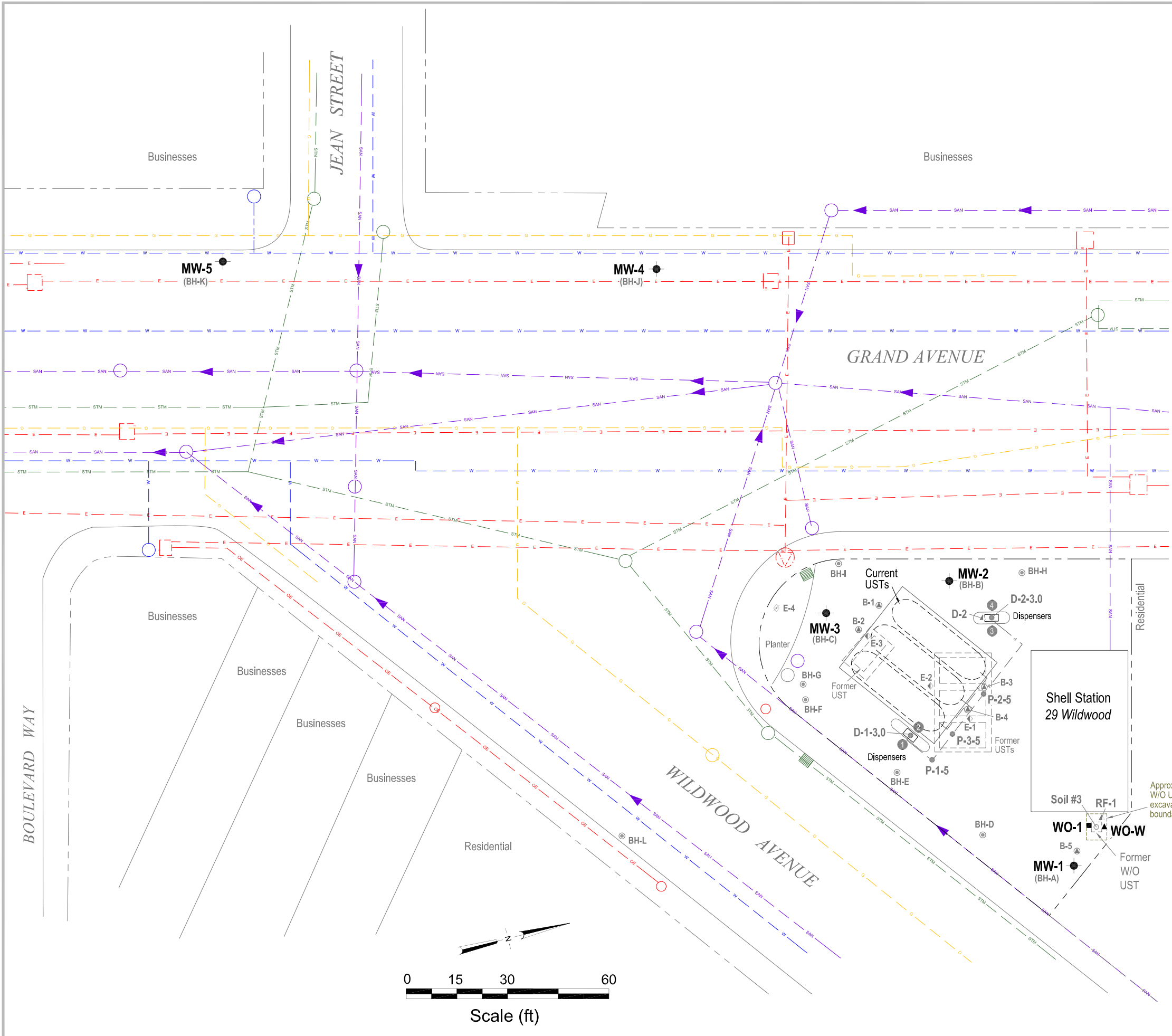
Shell-branded Service Station
 29 Wildwood Avenue
 Piedmont, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

I:\Shell\6-chars\2406--240687-Piedmont 29 Wildwood\240687-FIGURES\240687 SITE PLAN.DWG



EXPLANATION

- WO-1** ■ Soil sample location (CRA, 5/09/07)
- WO-W** ▲ Grab groundwater sample location (CRA, 5/09/07)
- MW-1** ● Monitoring well location
- E-4** ⋄ Destroyed flowing artesian monitoring well
- D-1-3.0** ● Soil sample location (Cambria, 4/5/05)
- P-1-5** ● Soil sample location (Cambria, 4/29/05)
- D-2** ▲ Soil sample location (Cambria, 3/3/98)
- BH-J** ● Soil boring location (Weiss, 1/23/90)
- BH-A** ● Soil boring location (Weiss, 7/5/89)
- B-1** ● Soil boring location (ENSCO, 8/9/88)
- Soil #3** ○ Soil sample location (Blaine, 6/16/87)
- E-1** ⋄ Soil boring location (EMCON, 8/15/84)
- STM --- Storm drain line (SD)
- STM --- Storm drain line (SD) (boxed culvert)
- SAN --- Sanitary sewer line (SS)
- W --- Water line (W)
- G --- Gas line (G)
- E --- Electrical line (E)
- OE --- Overhead electrical line (OE)
- Utility pole
- Electrical vault
- ⊗ Electrical transformer
- Manhole
- ▲ Flow direction
- Storm drain inlet
- ① Product dispenser number

Notes:
UST = Underground storage tank
W/O = Waste oil

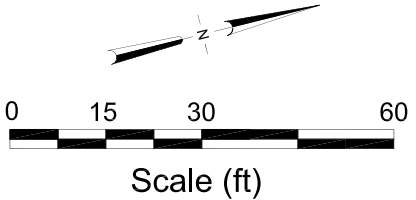


FIGURE 2

Site Plan

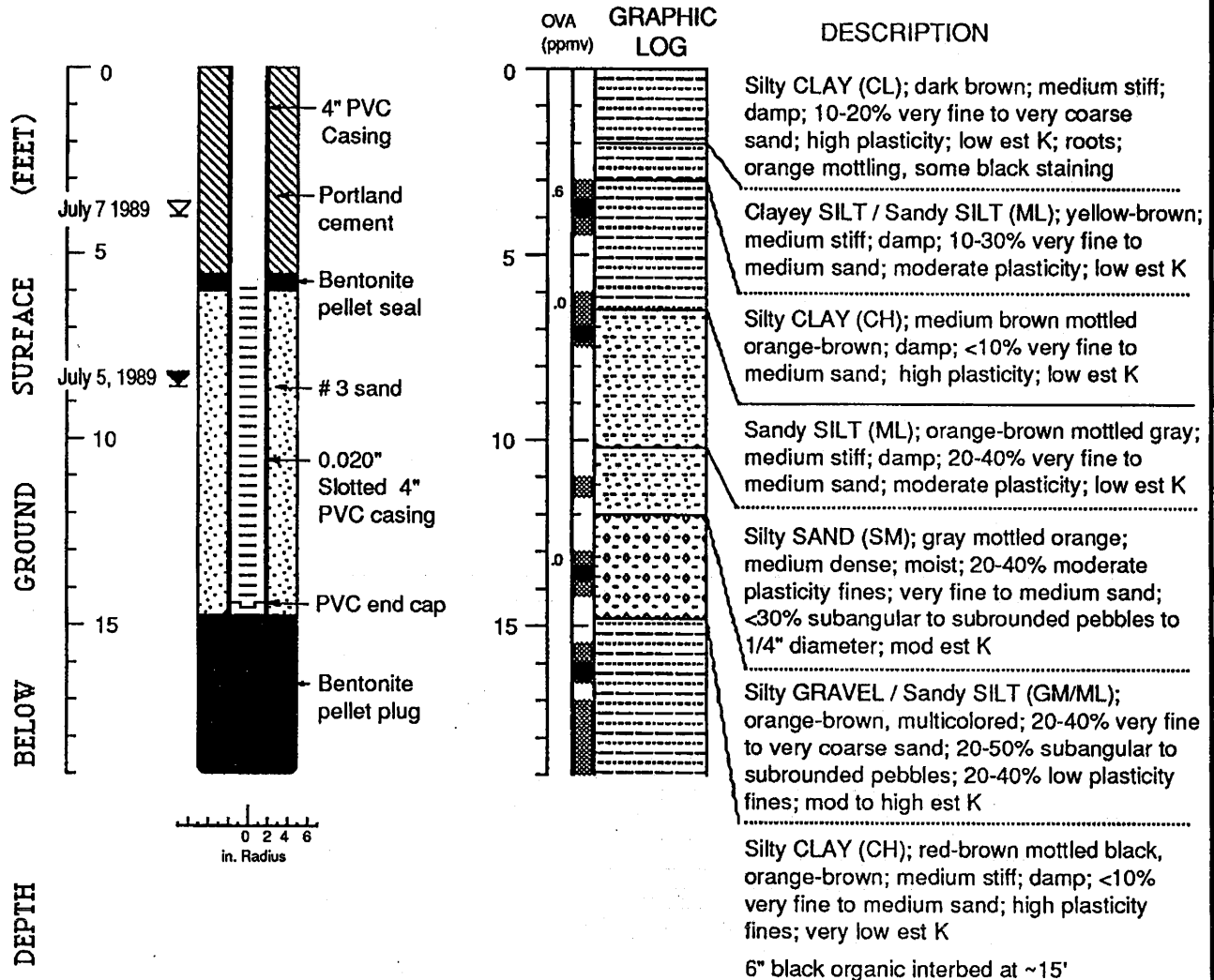


Shell-branded Service Station
 29 Wildwood Avenue
 Piedmont, California

APPENDIX A

WELL LOGS

WELL MW-1 (BH-A)



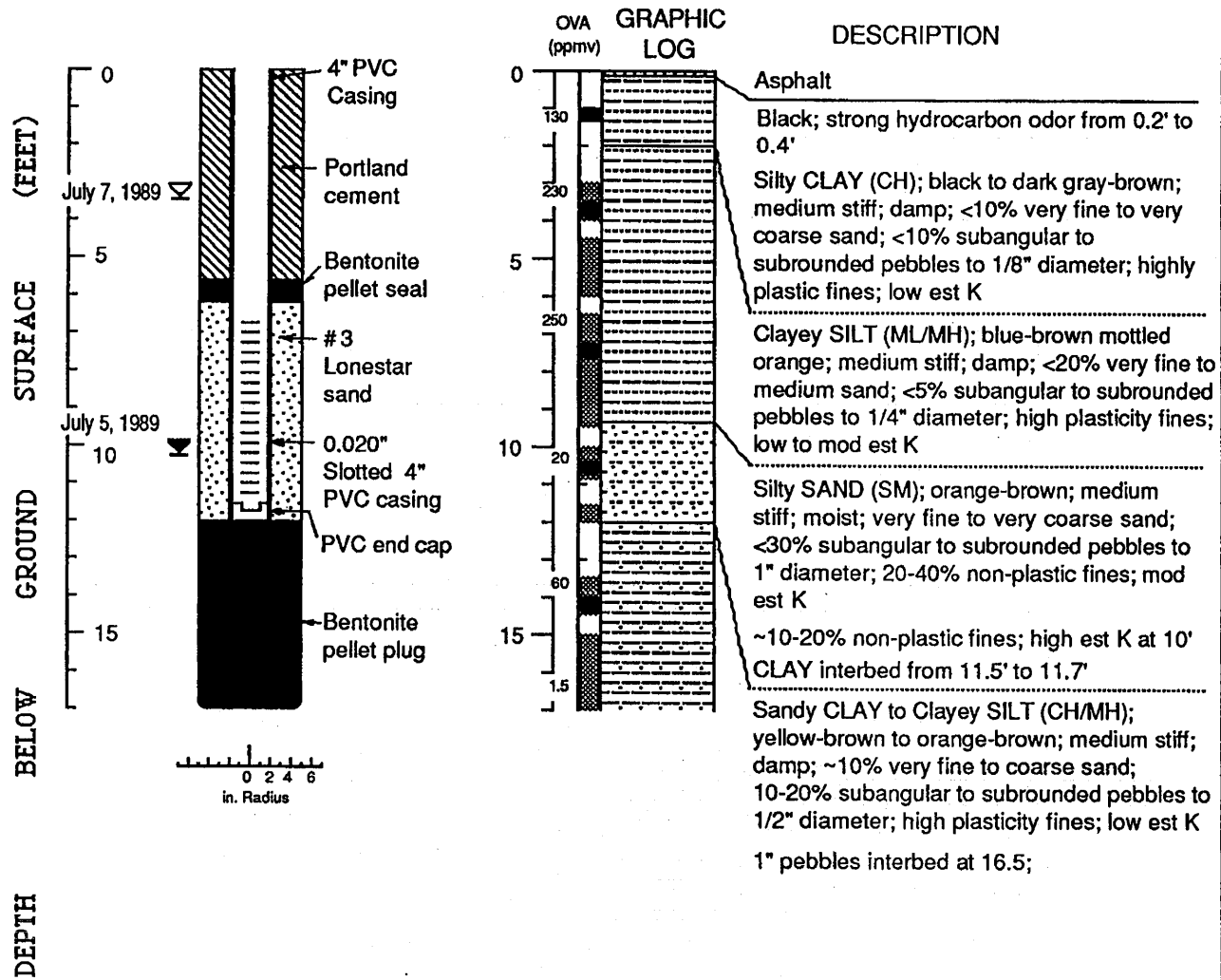
EXPLANATION

TOL @ 37.96 FRAMSC








- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K** = Estimated hydraulic conductivity

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr / Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 5 to 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

WELL MW-2 (BH-B)



EXPLANATION

-  Water level during drilling (date)
-  Water level (date)
-  Contact (dotted where approx.)
-  Uncertain contact
-  Location of recovered drive sample
-  Location of drive sample sealed for chemical analysis
-  Cutting sample
- K = Estimated hydraulic conductivity

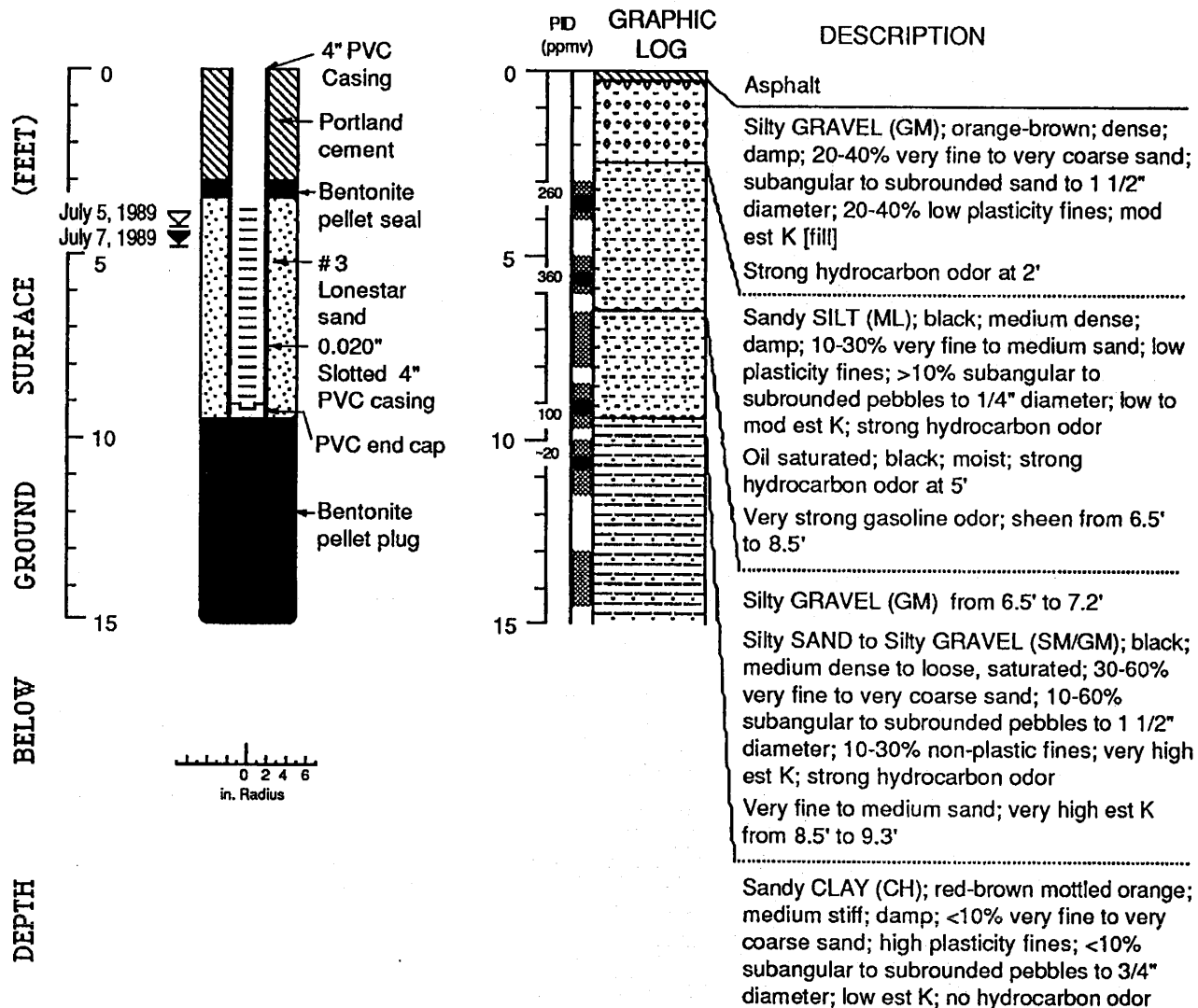
TOL @ 34.89 FT GMSL

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 5, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

Well Construction and Boring Log - Well MW-2 (BH-B)

Shell Service Station, 29 Wildwood Ave.,
Piedmont, California

WELL MW-3 (BH-C)



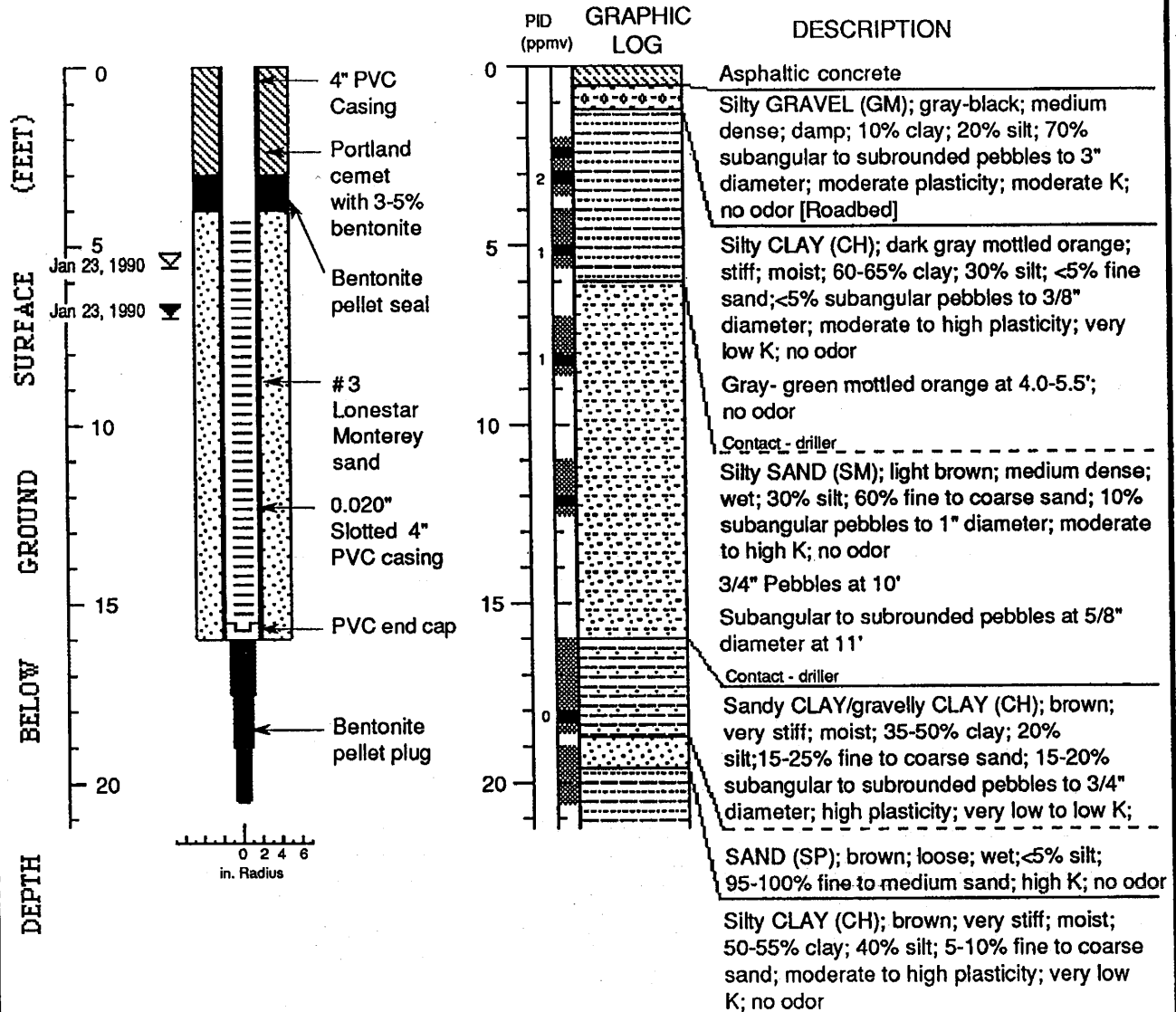
EXPLANATION

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

TOL @ 35.00 FMSL

Logged by: Jack Gardner
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Bay Area Exploration, Suisun, CA
 Driller: Carr/Mossman
 Drilling Method: Hollow stem auger
 Dates Drilled: July 5 to 6, 1989
 Well Head Completion: Locking cap with traffic-rated vault
 Type of sampler: Split barrel (1.5", 2.0", 2.5" ID)

WELL MW-4 (BH-J)

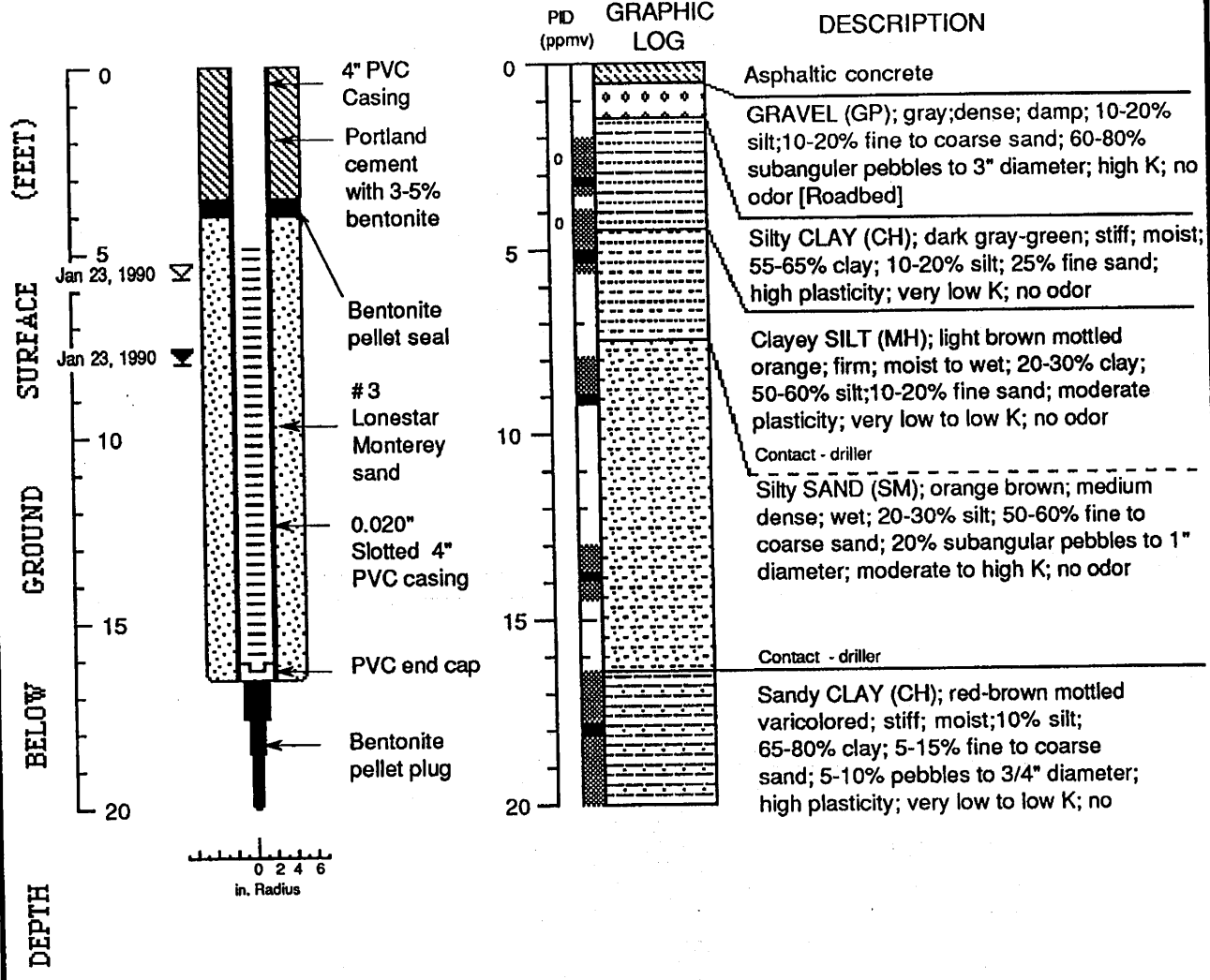


EXPLANATION

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approx.)
- Uncertain contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K** = Estimated hydraulic conductivity

Logged by: N. Scott MacLeod
 Supervisor: Richard Weiss; EG 1112
 Drilling Company: Soil Exploration Services, Vacaville, CA
 Driller: Russ Ellis
 Drilling Method: Hollow stem auger
 Date Drilled: January 23, 1990
 Well Head Completion: Locking wellcap, traffic-rated vault
 Type of Sampler: Split barrel (1.5", 2.0", 2.5" I.D.)
 Ground Surface Elevation: 34.03'

WELL MW-5 (BH-K)



EXPLANATION

- | | |
|--|--|
| <ul style="list-style-type: none"> Water level during drilling (date) Water level (date) Contact (dotted where approx.) Uncertain contact Location of recovered drive sample Location of drive sample sealed for chemical analysis Cutting sample K = Estimated hydraulic conductivity | <ul style="list-style-type: none"> Logged by: N. Scott MacLeod Supervisor: Richard Weiss; EG 1112 Drilling Company: Soils Exploration Services, Vacaville, CA Driller: Russ Ellis Drilling Method: Hollow stem auger Date Drilled: January 23, 1990 Well Head Completion: Locking wellcap, traffic-rated vault Type of sampler: Split barrel (1.5", 2.0", 2.5" I.D.) Ground Surface Elevation: 31.61' |
|--|--|

Well Construction and Boring Log - Well MW-5 (BH-K)

Shell Service Station
 WIC #204-6001-0109
 Piedmont, California