Haley & Aldrich, Inc.
9040 Friars Road
Suite 220
San Diego, CA 92108-5860

Tel: 619.280.9210
Fax: 619.280.9415
HaleyAldrich.com

HALEY & ALDRICH

17 May 2005
File No. 28882-503

Boeing Realty Corporation
4900 Conant Street, Building 1
Long Beach, CA 90808

Attention: Mr. Brian Mossman

Subject: Field Data Report for the Parcel A of Lot 8 Phase II Amendment Well Installation Program, Former C-6 Facility, Los Angeles, California

Dear Mr. Mossman:

This letter summarizes and presents the field data collected during the installation of 20 amendment wells during the Parcel A of Lot 8 Phase II amendment well installation program conducted in November and December 2004 at the former C-6 facility in Los Angeles, California. The well drilling and installation program was performed following the *Implementation Plan for Phases II and III of Lot 8 Groundwater Remediation Well Installation Program, Former Boeing C-6 Site, Los Angeles, California* prepared by Haley and Aldrich, Inc., revised on 3 December 2004.

The following is a brief summary of our field activities:

- A total of 20 amendment wells (AWs) (6 B-Sand and 14 C-Sand AWs) were drilled and installed between 8 November and 21 December 2004 as Phase II of the AW installation program.
- Two C-Sand AWs (AW0022C and AW0026C) which were installed during Phase I of the AW installation program were destroyed due to issues outlined in the Phase I Field Data Report. Well decommissioning reports for these two wells are included here in Attachment D.
- The 20 AWs were developed between 16 November and 23 December 2004 using the surge, bail and pump method.
- Following development, water injection tests (WIT) were performed on eleven of the Phase II AWs on 23 December 2004.

Documents relating to the Phase II AW Installation and testing program are included as attachments to this Field Data Report.

OFFICES

Boston
Massachusetts

Cleveland
Ohio

Dayton
Ohio

Detroit
Michigan

Hartford
Connecticut

Kansas City
Kansas

Los Angeles
California

Manchester
New Hampshire

Parsippany
New Jersey

Portland
Maine

Providence
Rhode Island

Rochester
New York

Santa Barbara
California

Tucson
Arizona

Washington
District of Columbia

Please contact the undersigned at (619) 285-7102 if you have any questions or comments.

Sincerely,

Haley and Aldrich, Inc.

Paul R. Sones, P.G. No. 6195
Senior Hydrogeologist

Attachments:
Attachment A – Well Installation Permits
Attachment B – Pre-field Activities Checklist, Standard Work Practices, Incident Reporting Procedures, and Underground Service Alert Notification Form
Attachment C – Daily Field Reports for Well Installation and Well Development
Attachment D –Well Construction Records and Well Decommissioning Reports
Attachment E – Tailgate Safety Meeting Reports, Site Access Logs, and Records of Field Monitoring
Attachment F – Driller's Daily Reports
Attachment G – Well Development Records
Attachment H – Water Injection Testing (WIT) Daily Field Reports and WIT Test Forms

HALEY & ALDRICH

Attachment A

Well Installation Permits

WELL PERMIT APPLICATION - NON-PRODUCTION WELLS

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE: 11/29/2004

X NEW WELL CONSTRUCTION	___ MONITORING	___ HEAT EXCHANGE
___ RECONSTRUCTION OR RENOVATION	___ CATHODIC	___ OTHER (Specify) :
___ DECOMMISSIONING	X INJECTION	
___ OTHER:	___ EXTRACTION	

WELL LOCATION

SITE ADDRESS 1451 KNOX STREET	CITY LOS ANGELES (TORRANCE)		ZIP CODE 90501
Township	Range	Section	Map Book Page/ Grid THOMAS BROS. P.763 J-3
NO. OF WELLS IN EACH PARCEL:	Attach site map with well locations	SEE ATTACHED	

WELL STRUCTURE

Type and Size of Production Casing	SEE ATTACHED FIGURE
Sanitary / Annular Sealing Material	PHASE 2 PARCEL A AWs
Depth of Sanitary / Annular Seal	
Conductor Casing Seal	

CONSULTANT

Company	HALEY & ALDRICH
Contact Person	SCOTT ZACHARY / PAUL SONES
Address	9040 FRIARS ROAD, SUITE 220
City , State Zip	SAN DIEGO, CA 92108
Telephone	619.280.9210

OWNER / DRILLER INFORMATION

Well Owner	BOEING REALTY CORPORATION
Address	3855 LAKEWOOD BLVD. BLDG 1A MCD001-0097
City / Zip Code	LONG BEACH, CA 90846
Telephone	818.586.6015
Well Driller	WDC EXPLORATION & WELLS
Address	5566 ARROW HIGHWAY
City / Zip Code	MONTCLAIR, CA 91763
C-57 License No.	283326
Telephone	800.974.2769

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

WELL DECOMMISSIONING

Well Depth log / records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date 12-07-04 REHS Robert Hughes

Conditions

Maintain the required setback for the sewer and water lines.

FINAL INSPECTION

Date REHS

PERMIT ISSUED
The well log must be submitted to this Department prior to issuance of the final approval

Date REHS

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Paul R. Sones
Applicant's Signature

Applicant Name: (PRINT) PAUL R. SONES
Telephone: 619.280.9210
FAX 619.280.9415

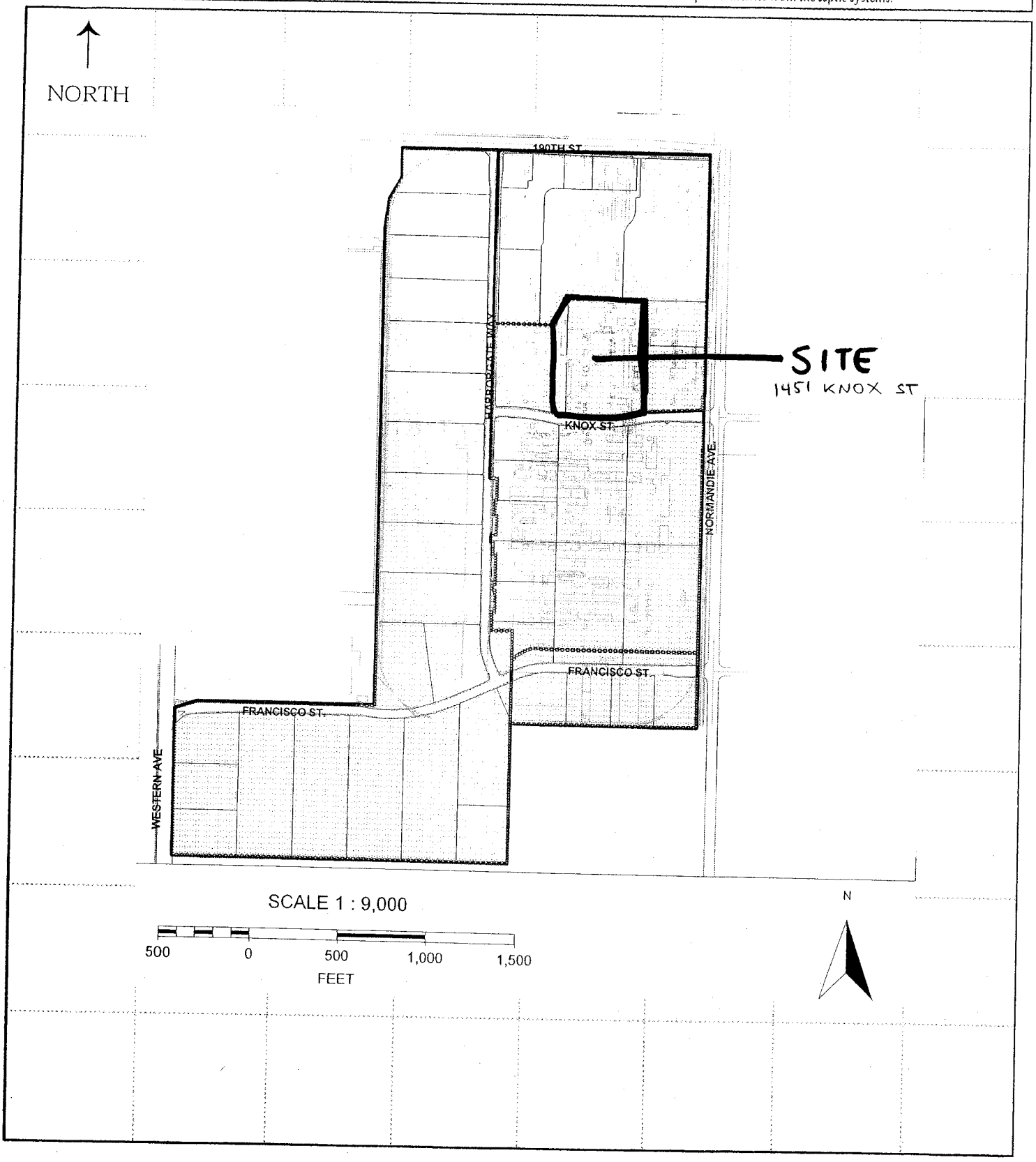
76A668-A
H-13 (Rev. 01/2001)

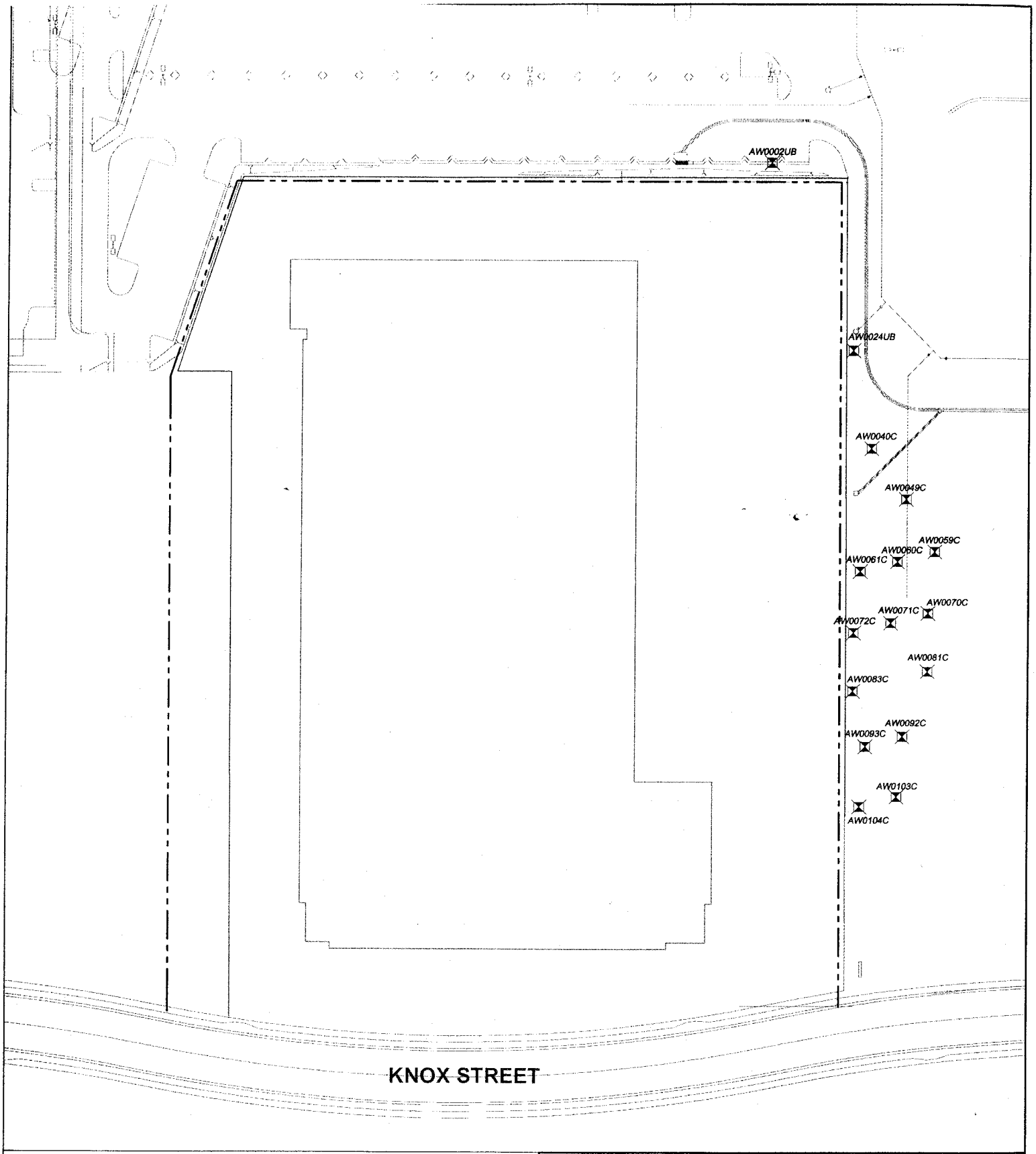
WELL CONSTRUCTION LOCATION DETAILS

SITE ADDRESS or APN	CITY	ZIP CODE
1451 KNOX STREET	LOS ANGELES (TORRANCE)	90501

Township	Range	Section	Map Book Page/ Grid
			THOMAS BROS P763 : J3

WELL LOCATION Provide a scaled drawing (1" = 50') indicating property lines, sewers, private sewage disposal systems within 200 feet of the well site along with labels and dimensions. Attach all documents that confirm that the well is located the required distance from the septic systems.





LEGEND

PHASE II AMENDMENT WELLS

PARCEL BOUNDARY

N

0 25 50 100

FEET

ALL LOCATIONS AND DIMENSIONS APPROXIMATE

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

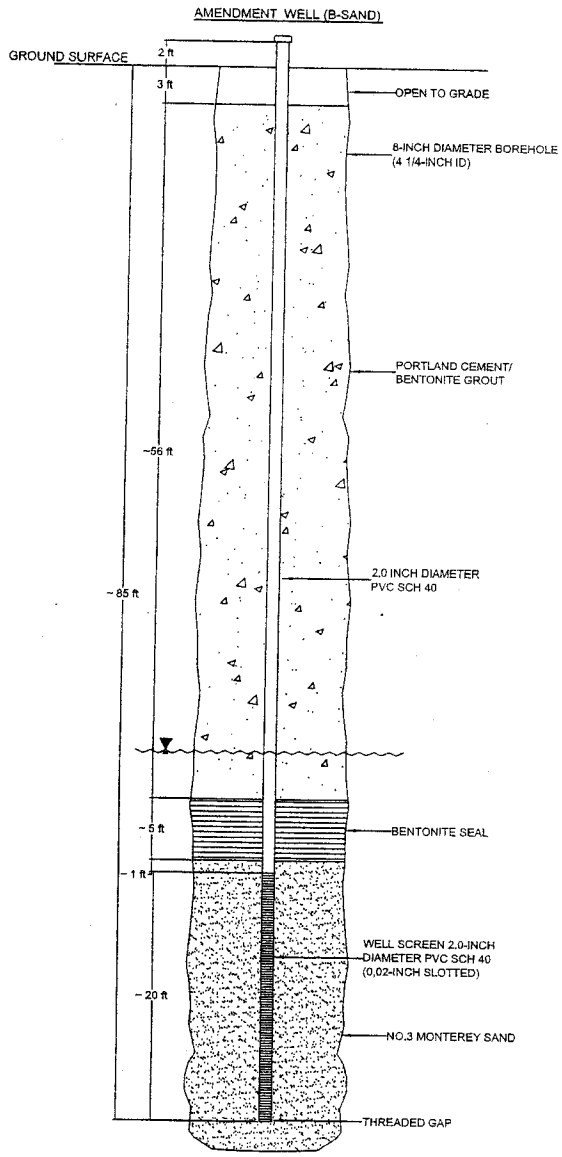
BOEING REALTY CORPORATION
FORMER C-6 FACILITY SITE
LOS ANGELES, CALIFORNIA

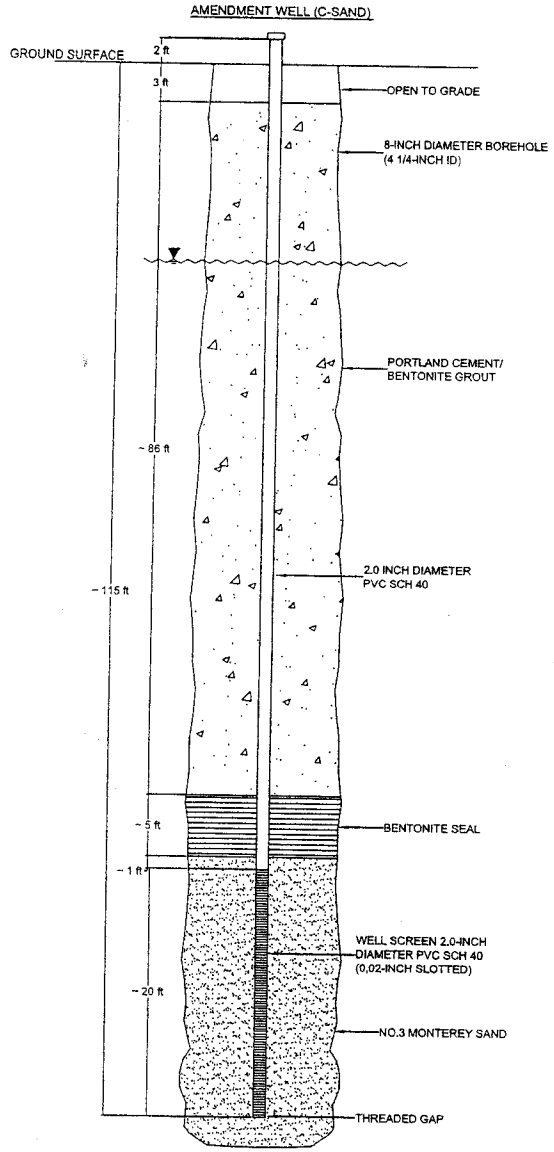
FIGURE: 1

PHASE 2 AMENDMENT WELLS

SCALE: AS SHOWN

NPVEMBER 2004





DRAFT

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY (BUILDING 1/36 AREA)
LOS ANGELES, CALIFORNIA

FIGURE 4

TYPICAL CONSTRUCTION DETAIL
AMENDMENT WELLS

SCALE: NOT TO SCALE

AUGUST 2004

(604) 28026B01

SERVICE APPLICATION REQUEST AND FEE COLLECTION
COUNTY OF LOS ANGELES – DEPARTMENT OF HEALTH SERVICES' PUBLIC HEALTH PROGRAMS – ENVIRONMENTAL HEALTH

SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make the money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*		TYPE OF SERVICE
_____	☐	MONITORING WELL CONSTRUCTION/DECOMMISSIONING Complete and attach a Non-Production Well -Well Permit Application
16 × $288 = $4608	☒	WELL CONSTRUCTION, RENOVATION OR DECOMMISSIONING PERMIT Complete and attach a Production Well-Well Permit Application
_____	☐	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
_____	☐	PRIVATE SEWAGE DISPOSAL RENOVATION / EXPANSION
_____	☐	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
_____	☐	SEPTIC TANK REPLACEMENT
_____	☐	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM
_____	☐	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture

* Refer to Schedule of Fees for the current fiscal year. Field personnel cannot accept fees.

2. Check with the Contact Office stamped below for requirements or information
3. Deliver the completed application, money order or check with the forms indicated to:

County of Los Angeles
Mountain and Rural Program / Water, Sewage, & Subdivision Program
5050 Commerce Drive, Baldwin Park, CA 91706
(626) 430-5380 FAX (626) 813-3016

4. Please contact office noted above or office indicated below, after you have received your receipt, to request an inspection.

ASSESSOR'S ID 7351-037-022

Service/ Job Location Address	City	Zip	Assessor Map Book	Page	Parcel #	Date
1451 KNOX STREET	LOS ANGELES (TORRANCE)	90501	THOMAS BROS.	P763	J-3	11/29/04

Owner / Applicant Name	Address/Zip	Phone No.
BOEING REALTY CORPORATION / HALEY & ALDRICH	9040 FRIARS ROAD, SUITE 220 SAN DIEGO, CA 92108	619.280.9210

Contractor's Name	Address/Zip	Phone No.
WDC EXPLORATION & WELLS	5566 ARROW HWY MONTCLAIR, CA 91763	800.974.2769

Co. Engineer Plan Check No. _____ Tract no. _____ Lot No. _____ No. Bedrooms _____ Fixture Unit Count _____
(Complete the line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE	DEPARTMENT STAMP

WELL PERMIT APPLICATION - NON-PRODUCTION WELLS

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3016

DATE: 12/30/04

X NEW WELL CONSTRUCTION	___ MONITORING	___ HEAT EXCHANGE
___ RECONSTRUCTION OR RENOVATION	___ CATHODIC	___ OTHER (Specify) :
___ DECOMMISSIONING	X INJECTION	
___ OTHER:	___ EXTRACTION	

WELL LOCATION

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WELL STRUCTURE

Type and Size of Production Casing	SEE ATTACHED FIGURE
Sanitary / Annular Sealing Material	PHASE 3 AW's
Depth of Sanitary / Annular Seal	
Conductor Casing Seal	

CONSULTANT

Company	HALEY & ALDRICH
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City / Zip Code	MONTCLAIR, CA 91763
C-57 License No.	283326
Telephone	800.974.2769

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WELL DECOMMISSIONING

Well Depth log / records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	
Method of Upper Seal Pressure Application	

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WORK PLAN APPROVAL
This Approval is Valid for 180 Days

Date 01-04-05 REHS Robert Hughes

Conditions

Please inform Health Inspector the initial phase schedule 48 hrs. before the starting date.

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

Paul R. Sones
Applicant's Signature

Applicant Name: (PRINT) PAUL R. SONES
Telephone: 619.280.9210
FAX 619.280.9415

FINAL INSPECTION

Date REHS

PERMIT ISSUED
The well log must be submitted to this Department prior to issuance of the final approval

Date REHS

76A668-A
H-13 (Rev. 01/2001)

WELL CONSTRUCTION LOCATION DETAILS

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Township	Range	Section	Map Book Page/ Grid
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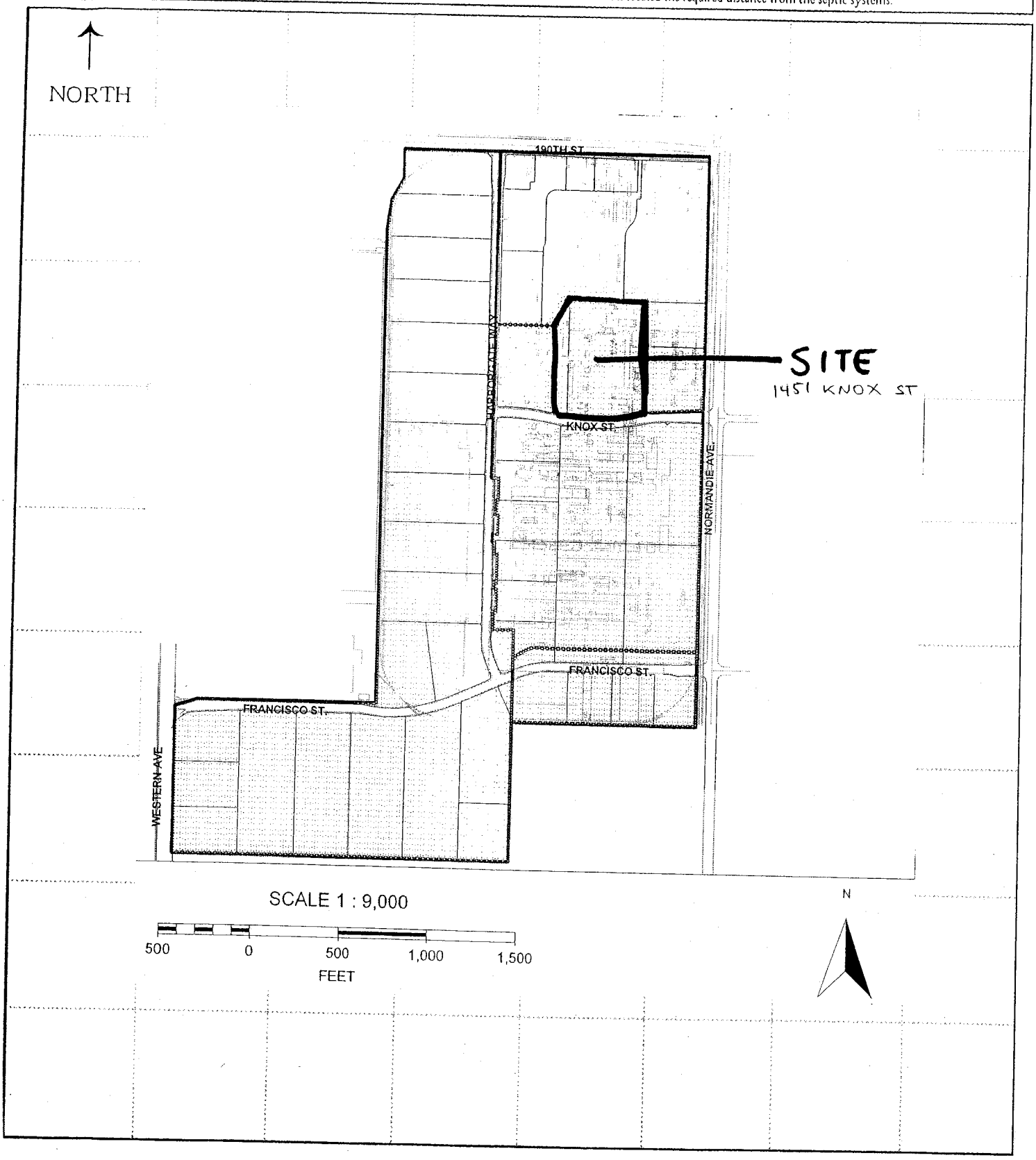
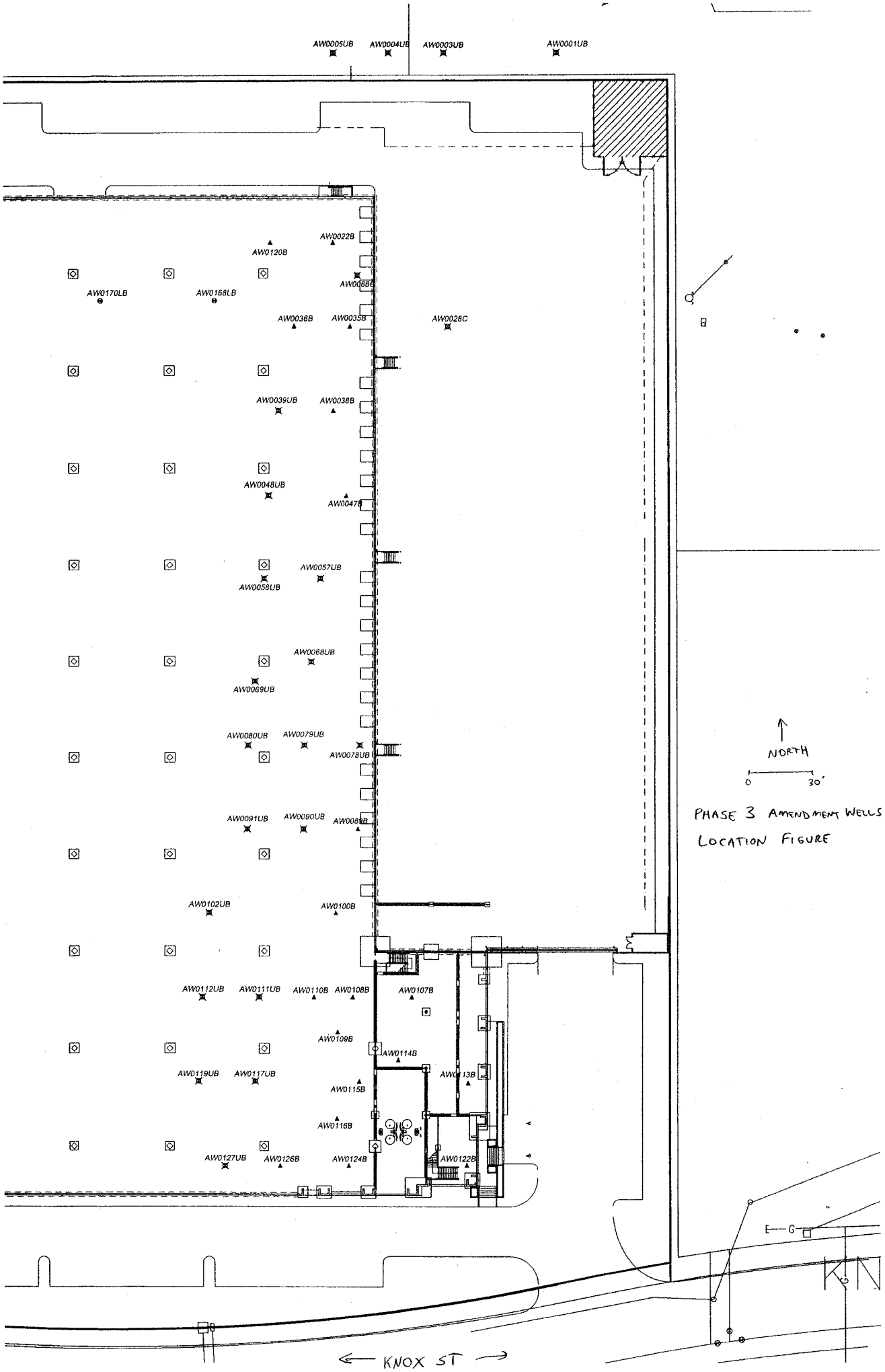
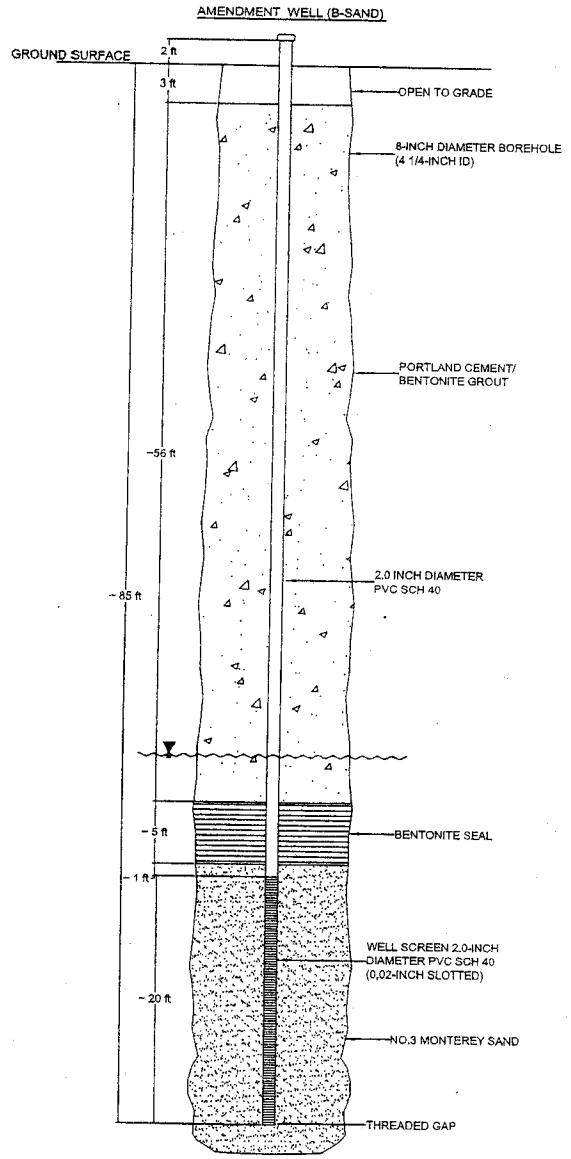
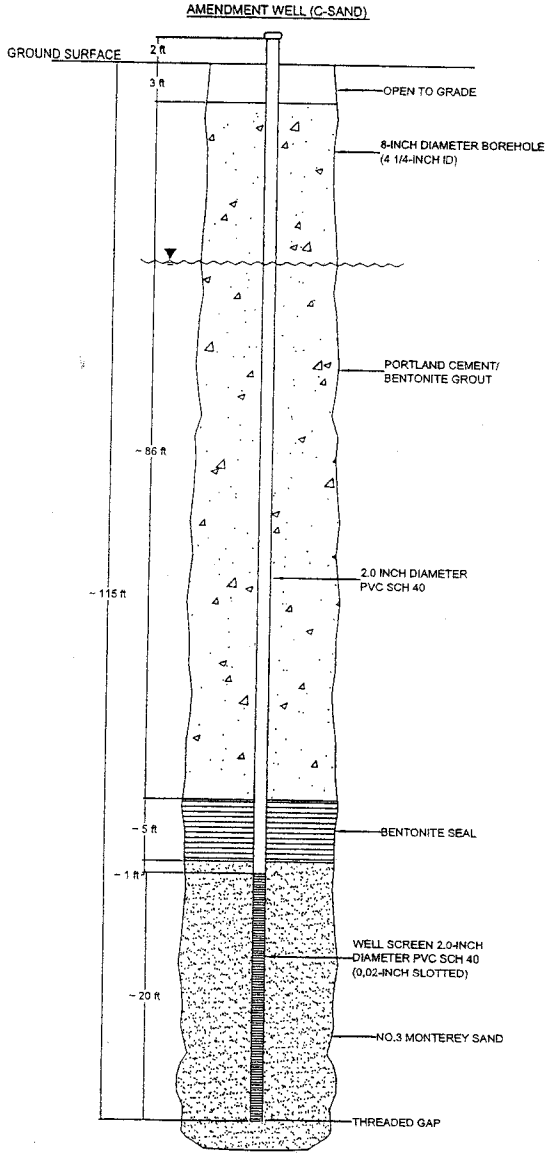




PHASE 3 AMENDMENT WELLS LOCATION FIGURE





DRAFT

HALEY & ALDRICH

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

BOEING REALTY CORPORATION
FORMER C-6 FACILITY (BUILDING 1/36 AREA)
LOS ANGELES, CALIFORNIA

FIGURE 4

TYPICAL CONSTRUCTION DETAIL
AMENDMENT WELLS

SCALE: NOT TO SCALE

AUGUST 2004

(604) 28026B01

SERVICE APPLICATION REQUEST AND FEE COLLECTION
COUNTY OF LOS ANGELES – DEPARTMENT OF HEALTH SERVICES' PUBLIC HEALTH PROGRAMS – ENVIRONMENTAL HEALTH

SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make the money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*		TYPE OF SERVICE
_____	☐	MONITORING WELL CONSTRUCTION/DECOMMISSIONING Complete and attach a Non-Production Well -Well Permit Application
44 x $288 ea = $12,672	☒	WELL CONSTRUCTION, RENOVATION OR DECOMMISSIONING PERMIT Complete and attach a Production Well-Well Permit Application
_____	☐	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
_____	☐	PRIVATE SEWAGE DISPOSAL RENOVATION / EXPANSION
_____	☐	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
_____	☐	SEPTIC TANK REPLACEMENT
_____	☐	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM
_____	☐	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture

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County of Los Angeles
Mountain and Rural Program / Water, Sewage, & Subdivision Program
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(626) 430-5380 FAX (626) 813-3016

4. Please contact office noted above or office indicated below, after you have received your receipt, to request an inspection.

ASSESSOR'S ID 7351-037-022

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Owner / Applicant Name	Address/Zip	Phone No.
BOEING REALTY CORPORATION / HALEY & ALDRICH	9040 FRIARS ROAD, SUITE 220 SAN DIEGO, CA 92108	619.280.9210

Contractor's Name	Address/Zip	Phone No.
WDC EXPLORATION & WELLS	5566 ARROW HWY MONTCLAIR, CA 91763	800.974.2769

Co. Engineer Plan Check No. _____ Tract no. _____ Lot No. _____ No. Bedrooms _____ Fixture Unit Count _____
(Complete the line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE	DEPARTMENT STAMP

Attachment B

Pre-field Activities Checklist, Standard Work Practices, Incident Reporting Procedures, and Spectrum Geophysics Project Memos

Pre-Field Activities Checklist – Lot 8, Former Boeing C-6 Site

This pre-field activities check list has been prepared to facilitate compliance with work plans, protocols, permits, and procedures during the Phase II Amendment Well (AW) installation program to be performed on Parcel A of Lot 8 at the former Boeing C-6 Site.

Contact Information:

Consultant/Contractor (Person & Phone #)

Project Manager	Scott Zachary (619) 993-1791 cell
Project Hydrogeologist	Paul Sones (619) 871-9024 cell
Chief Field Engineer/Technician	Travis Hammond (619) 7987-1767 cell
Health & Safety Officer:	Travis Hammond (619) 7987-1767 cell or Beth Breitenbach (619) 838-1078 cell
Other	

Boeing

Project Manager	Brian Mossman/Stephanie Sibbett-Brutocao (310) 346-8322
Technical Specialist	John Scott (818) 586-4533
Facility Contact	
Permits Contact	
Waste Disposal Specialist	Marcia Taleff (562) 496-6524
Legal:	
Other:	

Subcontractors (as applicable)

No. 1	Water Development Corp. - Drilling
No. 2	Spectrum Geophysics

Work Plans

- ☐ Work Plan prepared for work? **Yes**
- ☐ Name of Work Plan & Date **Building 1/36 Area (Parcel C) Source-Area Groundwater In Situ Reactive Zone Pilot Study Work Plan Prepared by Arcadis G&M, Inc. for Boeing C-6 Site, 10 May 2002.**
- ☐ Was Work Plan Submitted to a regulatory Agency for approval? **Yes**
- ☐ Was approval received? Date? **Yes on 29 October 2002**
- ☐ Is Work Plan latest version? **Yes**
- ☐ Type of Work to be performed **Installation of 18 amendment injection wells, well development and testing**

Technical/Site-Specific

- ❑ Have work locations been marked? **To be done on 4 November 2004**
- ❑ Are there any obstacles to performing work? **Yes, water ponding, uneven terrain, and soil piles on Parcel A limit access to all AW locations**
- ❑ If yes-method to clear obstacles? **Coordinate access issues with Russ Herbel of Near-Cal Corp. (Parcel A General Contractor) (909) 830-3500 cell.**
- ❑ **DO NOT USE ONSITE FIRE HYDRANTS IN THE HARBOR GATEWAY DEVELOPMENT AREA FOR WATER SUPPLY - THEY ARE CONNECTED TO FIRE-FIGHTING ING PUMPS AND EQUIPPED WITH ALARMS.**

Health & Safety

- ❑ Health & Safety Plan Submitted to Agency? **Yes**
- ❑ Health & Safety Plan reviewed by Field Team? **Yes**
- ❑ Proper PPE on Site? **Yes**
- ❑ Extra PPE for Visitors? **NA**
- ❑ Have OSHA Certificates and currency been confirmed for workers? **To be done**
- ❑ Any Excavations? **No**
  If Yes-have geotechnical calculations/considerations been completed? By whom? **NA** Third Party & Registered? **NA**
- ❑ Health & Safety Officer **Travis Hammond or Beth Breitenbach**
- ❑ Perform subcontractor equipment safety audit prior to work start (guards, safety switches, General equipment condition) **To Be Done**
- ❑ Pre-Field Tailgate Meetings: **To Be Done**
- ❑ Worker Safety: **To Be Done**
- ❑ Equipment Safety: **To Be Done**
- ❑ Vehicular Safety: **To Be Done**
- ❑ Daily Tailgate/Safety Briefings: **To Be Done**
- ❑ Safety Zones established and how maintained? **Exclusion zone will be established around drill rigs**

Utilities

- ❑ Have utilities been researched? **Yes**
- ❑ Are utility plans available? **Yes**
- ❑ Have utility plans been reviewed for work conflicts? **No**
  If yes, what plans _____
- ❑ Has site been field-checked for utilities? **Yes**
- ❑ Has DigSafe/DigAltert been notified? Confirmation #: **To be done on 11/4/04**

- ☐ Has independent utility locator service been completed? **To be done on 8 November 2004**
- ☐ Any overhead utility present that may interfere with work? **Temporary power polls on west side of Parcel A near some of the AW locations, but should not interfere with drilling**
- ☐ If yes, can work be moved? **No**
- ☐ Will hand-augering be conducted? **Locations will be cleared with Russ Herbel with Near Cal Corp. prior to drilling. Hand augering will be performed at locations of possible conflicts with underground utilities**
- ☐ Is any utility lock-out/tag-out needed? **No**
- ☐ Other

Legal

- ☐ Confirm with Boeing Project Manager that legal issues are in order to perform field work. **YES**

Access Agreements

- ☐ Confirm with Boeing Project Manager if access agreements are needed. **Yes**
- ☐ Are special pre-work notifications required by the access agreements? **Yes**
- ☐ Who is the on-Site contact/telephone # for work to be performed? **Russ Herbel with Near-Cal Corp (909) 830-3500 cell.**
- ☐ Are copies of access agreements needed on site? **No**
- ☐ Do special work conditions need to be maintained per the access agreement? **No**
- ☐ Are there special work hours per the access agreement? **No**
- ☐ Are traffic plans or traffic control necessary for work? **None Required**
- ☐ Other

Notifications

- ☐ Has Boeing Project Manager been notified of the work start date/time? **Yes**
- ☐ Has Boeing Technical Specialist been notified of the work start date/time? **Yes**
- ☐ Has Boeing Permit Specialist been notified of the work start date/time? **NA**
- ☐ Has Boeing Waste Disposal Specialist been notified of the work start date/time? **Yes – On 4 November 2004**
- ☐ Is Regulatory Agency (ies) notification Required? **No**
  - ☐ Lead Agency **LARWQCB**
  - ☐ Support Agency
  - ☐ Local Agency **L.A. Co. Dept. of Health Services**
  - ☐ Other:
- ☐ If yes-what advance notice is required? **NA**

- ❑ Have they been notified? **No** When **NA** How **NA**
- ❑ Has laboratory been notified of incoming samples? **None Required**

Permits/Regulatory Agencies/Licenses

- ❑ Lead Regulatory Agency/Contact: **LARWQCB, John Geroch (213) 576-6737**
- ❑ Additional Regulatory Agencies:
  - ❑ Air Quality Agency
  - ❑ County Health Department **Yes, L.A. Co. Dept. of Health Services, H. Robert Hughes, (310) 680-0978**
  - ❑ City Health Department
  - ❑ City Building Department
- ❑ Are permits required for work?
  - ❑ Drilling Permit **Yes**
  - ❑ WDR/Waste Discharge Permit **No**
  - ❑ Excavation Permit **No**
  - ❑ Rule 1166 Mitigation Plan/Permit **No**
  - ❑ Grading Permit **No**
  - ❑ City Business License **No**
  - ❑ Other
- ❑ **Has Boeing Permit Specialist reviewed and approved the permits for performing the work? No**
- ❑ Are pre-work notifications required for permits? **No**
- ❑ If yes, which permits and how much advance notice **NA**
- ❑ Are there any conditions in the permit that could stop work? **No**
- ❑ If yes, what are the conditions? _____
- ❑ Do mitigation measures exist if these conditions occur? _____
- ❑ What licenses are required to do work? **Well Drillers Lic.**
- ❑ Have contractor licenses been verified **Yes**

Waste Management

- ❑ Type(s) of waste to be generated - **Soil cuttings, decon fluids (water)**
- ❑ Anticipated Volume to be generated - **Soil- ~20 c.y., decon/purge water - ~4,000-gallons**
- ❑ How will each type of waste be stored?
  - **Water – Temporary Baker holding tank**
  - **Soil – roll-off bins**
  - **PPE – regular trash**
  - Other

- ❑ Has Boeing Waste Specialist been notified? **Yes on 4 November 2004**
- ❑ Have proper containers been coordinated through Boeing Waste Specialist? **YES**
- ❑ If not-why? _____
- ❑ Have proper waste container labels and labeling procedures been obtained from the Boeing Waste Specialist? **Yes**
- ❑ How will waste be profiled? **Profiles exist with waste disposal contractor due to previous investigations at Site**
- ❑ Any special waste handling/disposal needs? **No**

Portal/EDMS

- ❑ Have Sample/Object Numbers/Names been obtained from CH2MHill? **NA**
- ❑ Other

Schedule

- ❑ Scheduled start date of field work **11/8/04 – Drilling/Well Installation**
- ❑ Expected duration of field work **5 days drilling/well installation and 3 days development**
- ❑ Contingency plan if work goes longer **Coordinate with BRC**

Financial

- ❑ Has Boeing approved work order for work? **Yes**
- ❑ Is there a potential for scope/cost changes? **Yes**
- ❑ If yes-is change-order process established with Boeing Project Manager? **Yes**

Person Filling out Checklist: **Paul R. Sones on 11/4/04**

HALEY & ALDRICH, INC.

HALEY & ALDRICH STANDARD WORK PRACTICES ON FORMER BOEING C-6 SITE

- **HEALTH AND SAFETY IS OUR NUMBER ONE PRIORITY**
- **SAFETY AND REGULATORY COMPLIANCE IS OUR TOP PRIORITY AND I MUST TAKE THE NECESSARY STEPS TO PROVIDE THIS SERVICE**
- **I AM RESPONSIBLE AND I HAVE THE AUTHORITY TO STOP WORK AT ANY TIME IF SAFETY AND REGULATORY REQUIREMENTS ARE NOT BEING MET**
- ***REGULATORY* COMPLIANCE IS MANDATORY** – No work will begin and/or all work will immediately stop unless **BOTH** of the following are checked off:

  ☐ Yes, I am in compliance with all regulatory health and safety requirements.
  ☐ Yes, I am in compliance with all facility health and safety requirements.

- **BEFORE STARTING WORK PERFORM THE FOLLOWING:**

  IF YOU ARE UNSURE OF SAFETY PRACTICES FOR THE PARTICULAR WORK INVOLVED – GET CLARIFICATION PRIOR TO STARTING WORK

  ☐ Complete and Review Site Specific Health and Safety Plan.
  ☐ Obtain MSDS Sheets for chemicals to be brought on site.
  ☐ Review SHEA Flysheet RF034.
  ☐ Verify personnel are listed on Service Company Access Request (SCAR)
  ☐ Complete Pre-field Checklist.
  ☐ Complete and submit Project Impact Form.
  ☐ Complete SHEA Contractors Orientation Checklist.
  ☐ Notify Underground Service Alert and Boeing Utilities before performing any invasive work.
  ☐ Obtain necessary monitoring equipment for the conditions anticipated and verify that it is properly functioning.
  ☐ Perform Health and Safety "Tail Gate Meeting" and fill out form.
  ☐ Calibrate monitoring equipment and log calibration in Field notes.
  ☐ Review scope of work documents, permits, and other related items.
  ☐ Obtain correct Personal Protective Equipment (PPE) for the work to be performed and the chemicals anticipated to be present.
  ☐ If SCAQMD Rule 1166 monitoring is required contact Bill Pearce at (562) 593-3903 for approval prior to proceeding with any work (May be different contact of Boeing Facilities other than Canoga Park).

- When utilizing **subcontractors**:

  ☐ Review subcontractors Health and Safety training records.
  ☐ Review Health and Safety plan with the subcontractor.
  ☐ Verify that subcontractors have THEIR Health and Safety Plan
  ☐ Review site "Incident Reporting Procedures".
  ☐ Discuss all likely hazards and known chemicals of potential concern.
  ☐ Discuss the scope of work, work area and site restrictions.
  ☐ Perform "Tail Gate Safety Meeting" with subcontractors.

HALEY & ALDRICH, INC.

EMERGENCY AND INCIDENT REPORTING PROCEDURES

EMERGENCY PHONE NUMBER ONSITE DIAL 911
OTHER PHONES DIAL (619) 280-9210 (H&A's San Diego office number)
SITE ADDRESS: 1451 Knox Street (Cross-street Harborgate Way)
Los Angeles (Torrance), CA

EMERGENCY OR INCIDENT REPORTING:
All incidents and regulatory inspections must be reported immediately

- ***Emergency*** definition: An uncontrolled situation, a major or life threatening injury, a fire, or any event that requires immediate assistance from the Fire Department
- ***Incident*** definition: *Any event, condition, or action (including near misses) that affects the safety of personnel, does not follow rules and guidelines for work implementation and regulatory compliance onsite*
- **Examples of Incidents:**
  - Spilled liquid in an uncontrolled environment
  - Working without correct/completed permit in place
  - Broken water pipeline

Respond to the incident and get it under control. Once the incident is under control the following **MUST BE COMPLETED:**

1. Contact the following **BOTH** by e-mail and telephone.

   When leaving messages and sending emails, include the following:
   Date and Time: The date and time the incident occurred
   Location: Where the incident occurred, i.e.; Lot 8, Parcel C, 1451 Knox Street...
   Description: Describe individuals involved, what happened and what it may affect

Name	Title	E-mail	Phone Number
Dennis Carlson	Boeing Project Manager	Dennis.Carlson@boeing.com	Cell: (818) 535-7438
Stephanie Sibbett-Brutocao	Boeing Project Manager	Stephanie.M.Sibbett-Brutocao@boeing.com	Cell: (310) 346-8322 Work: (562) 733-2228
Dennis Carlson	Boeing Health & Safety	Dennis.Carlson@boeing.com	Cell: (818) 535-7438
Marcia Taleff	Waste Disposal	marcia.l.taleff@boeing.com	Cell: (562) 496-6524 Pager: (562) 877-3338
Scott Zachary	H&A Project Manager	szachary@haleyaldrich.com	Cell: (619) 993-1791 Work: (619) 285-7103
Paul Sones	H&A Senior Hydrogeologist	psones@haleyaldrich.com	Cell: (619) 871-9024 Work: (619) 285-7102

3. After the incident is under control document in writing and with photographs the sequence of events, locations, date, time, conditions at the time of the incident, people involved and that responded to the incident, and the probable cause of the incident.

INCIDENT REPORTING PROCEDURES
Lot 8, Former C-6 Facility
Los Angeles, California
4 November 2004

INTRODUCTION

This technical memorandum presents incident reporting procedures for the Phase II Amendment Well (AW) installation program at Parcel A in Lot 8 of the former Boeing Facility C-6 Site in Los Angeles, California. The Phase II AW installation program consists of drilling and installing a total of 22 AWs (8 AWs in the B-Sand to 85 ft bgs and 14 AWs in the C-Sand to 115 ft bgs) using hollow stem auger (HSA) drill rigs. The incident reporting requirements differ depending on the severity of the incident and, for the purpose of reporting, incidents fall into two different categories, minor and major. A minor incident is defined as any spill, process upset, or non-life threatening incident that is completely controlled within the confines of the immediate area of the well installation locations and Site boundaries. A major incident is defined as an uncontrollable situation that results in an injury that is major or life threatening; fire; or other major issues that require immediate assistance from local emergency services.

MINOR INCIDENT REPORTING PROCEDURES

A minor incident is defined as any spill, process upset, or non-life threatening incident that is completely controlled within the confines of the well installation locations and Site boundaries.

When a minor incident occurs, the first priority is to safely assess the situation, shut down the drill rig and other equipment, if it is related to the incident, and seek medical assistance if required. The followings steps will be taken after a minor incident is under control:

1. Record the sequence of events, including probable cause, people who responded to the incident, the extents of the incident, and relevant dates and times.

Corrective action will be taken to prevent/repair the cause of the incident. Any spills will be cleaned up, and the activity resumed if approved by Boeing. Robert Scott, Stephanie Sibbett-Brutocao and Dennis Carlson at Boeing will be notified of any spills prior to resumption of well installation activities.

2. After the incident is under control, contact the following Boeing and Haley & Aldrich personnel and inform them of the incident and steps taken to control the situation.

Name	E-mail Address	Phone Number
Dennis Carlson	Dennis.Carlson@Boeing.com	(818) 535-7438 (cell)
Stephanie Sibbett-Brutocao	Stephanie.M.Sibbett-Brutocao@Boeing.com	(310) 346-8322 (cell) (562) 733-2229 (work)
Dennis Carlson	Dennis.Carlson@Boeing.com	(818) 535-7438 (cell)
Paul Sones	Psones@HaleyAldrich.com	(619) 285-7102 (cell) (619) 285-7102 (work)
Scott Zachary	Szachary@HaleyAldrich.com	(619) 285-7103 (cell) (619) 285-7103 (work)

INCIDENT REPORTING PROCEDURES
Lot 8, Former C-6 Facility
Los Angeles, California
4 November 2004

When leaving messages and sending e-mails, state the following information:

- Date and Time: The date and time the incident occurred.
- Location: Where the incident occurred.
- Description: A brief description of the incident and what risks it poses to people, property, and the environment.

3. An e-mail containing the following information will be sent to Boeing for review and then forwarded to the Boeing Realty Corporation (Boeing), for review.

- Background and General Facility Description: Briefly describe what the system does and why.
- Failure Analysis: Describe the root-cause of the incident. Describe the chain of events that led to the incident.
- Corrective Actions Taken: Describe what corrective actions have been taken as of the date of the report.
- Corrective Action in Process: Describe what additional measures are in process or are being contemplated to minimize the possibility of recurrence.
- Figures: Include figures and drawings, as necessary, to convey information.
- Appendices: Append relevant information as necessary (i.e., copies of alarm logs, data, etc.).

Additional follow-up actions or responses will be performed at the request of Boeing.

MAJOR INCIDENT AND EMERGENCY REPORTING PROCEDURES

A major incident is defined as an uncontrollable situation that results in an injury that is major or life threatening; fire; or other major issues that require immediate assistance from local emergency services.

When a major incident or emergency occurs, the immediate priorities are to safely get it under control, shut down the equipment (if applicable), and contact emergency services (if applicable). The followings steps will be taken after a major incident or emergency is under control:

1. Record the sequence of events, including probable cause, people who responded to the incident, the extents of the incident, and relevant dates and times.

Corrective action will be taken to prevent/repair the cause of the incident. Any spills will be cleaned up, and the activity resumed if approved by Boeing. Robert Scott, Stephanie Sibbett-Brutocao and Dennis Carlson at Boeing will be notified of any spills prior to resumption of the activity.

2. After the incident is under control, contact the following Boeing and Haley & Aldrich personnel and inform them of the incident and steps taken to control the situation.

INCIDENT REPORTING PROCEDURES
Lot 8, Former C-6 Facility
Los Angeles, California
4 November 2004

Name	E-mail Address	Phone Number
Dennis Carlson	Dennis.Carlson@Boeing.com	(818) 535-7438 (cell)
Stephanie Sibbett-Brutocao	Stephanie.M.Sibbett-Brutocao@Boeing.com	(310) 346-8322 (cell) (562) 733-2229 (work)
Dennis Carlson	Dennis.Carlson@Boeing.com	(818) 535-7438 (cell)
Paul Sones	Psones@HaleyAldrich.com	(619) 285-7102 (cell) (619) 285-7102 (work)
Scott Zachary	Szachary@HaleyAldrich.com	(619) 285-7103 (cell) (619) 285-7103 (work)

When leaving messages and sending e-mails, state the following information:

- Date and Time: The date and time the incident occurred.
- Location: Where the incident occurred.
- Description: A brief description of the incident and what risks it poses to people, property, and the environment.

4. Prepare an incident report containing the following information:

- Background and General Facility Description: Briefly describe what the system does and why.
- System Operation Description: Describe how the system operates under normal conditions.
- Failure Analysis: Describe the root-cause of the incident. Describe the chain of events that led to the incident.
- Corrective Actions Taken: Describe what corrective actions have been taken as of the date of the report.
- Corrective Action in Process: Describe what additional measures are in process or are being contemplated to minimize the possibility of recurrence.
- Figures: Include figures and drawings, as necessary, to convey information.
- Appendices: Append relevant information as necessary (i.e., copies of alarm logs, data, etc.).

5. The incident report will be submitted Boeing for review. Well installation activities will not be resumed until approval to operate has been granted by Boeing.

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Haley & Aldrich, Inc.
9040 Friars Road
Suite 220
San Diego, CA 92108-5860

Tel: 619.280.9210
Fax: 619.280.9415
HaleyAldrich.com

HALEY & ALDRICH

5 November 2004
File No. 28882-502

Spectrum Geophysics
2907 W. Empire Avenue
Burbank, California 91504

Attention: Mr. Brett Baker

Subject: Clearance of 12 Boring Locations at the Former Boeing C-6 Site
1451 Knox Street, Los Angeles (Torrance), California

Dear Mr. Baker:

The proposed scope of work for the referenced activity is for Spectrum Geophysics to clear approximately 12 boring locations for underground utilities and structures. The work is to be performed starting at 7 a.m. on Monday November 8, 2004. The 12 boring locations are on an active construction site and have been marked with wooden stakes. The safety attire for the Site consists of steel toed boots, hardhats, safety glasses and a traffic safety vest. We will meet your crew at fence gate on the north side of Knox Street (Cross-street Harborgate Way approximately 400 feet to the west) shortly before 7 a.m. on November 8, 2004.

If you have any questions concerning the enclosed scope of work, please feel free to contact me at (619) 285-7102 or my cell phone on the day of the field work at (619) 871-9024.

Sincerely yours,
HALEY & ALDRICH, INC.

Paul R. Sones, R.G.
Senior Hydrogeologist

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Tucson
Arizona

Washington
District of Columbia

SPECTRUM GEOPHYSICS

Revealing The Subsurface

2907 W. Empire Avenue, Burbank, CA 91504

Project Memo

www.spectrum-geophysics

Burbank, CA (818) 565-3590 | Santa Ana, CA (714) 435-1073 | San Diego, CA (760) 738-8561

Date: 14 Dec 2004

Project Number: 041214 2T

Project Name: Boeing C9

Client Contact: Travis Hammond

Site Address: 1451 1/2 Knox st Torrance CA

Company: Haley & Aldredge

Spectrum Staff: Taylor Iwansky

Day of	Labor Hrs	Equipment	Other	Report	Diagram
1 of 1	1	Rf, conduct, GPR		Y (N)	Y (N)

Work Performed:

[X] Investigated 3 proposed ground intrusion sites for detectable subsurface interferences.

[ ] Investigated _____ linear feet of proposed trench for detectable subsurface interferences.

[ ] Delineated the surface trace of detectable utilities and subsurface inerferences in _____ area(s) approximately _____ ' _____ ' _____ ' _____ feet in size.

Other: Very Rough Grade & stick mud diminished GPR effectiveness. Empty Tele vault flooded unable to sonde empty ducts.

NOTE

Non-metallic and non-electrically conductive piping and materials are not detectable.

We recommend that you hand auger to a depth of 5 feet below ground.

We recommend that you call the One Call Center prior to excavating or installing borings.

Your potential boring locations were investigated for detectable subsurface interferences and their locations have been marked on the ground surface of a 12-inch diameter white circle or a stake or nail or flagging.

No consideration of liability will be given if borings are installed outside of the white circle or not dead-centered on the flagged stake or nail. Call for a revisit if additional boring locations are required.

Client/Rep Signature

28882-503

Client Project Number

SPECTRUM GEOPHYSICS

Revealing The Subsurface

Project Memo

www.spectrum-geophysics

2907 W. Empire Avenue, Burbank, CA 91504

Burbank, CA (818) 565-3590 · Santa Ana, CA (714) 435-1073 · San Diego, CA (760) 738-8561

Date 11-8-04

Project Number 041081F

Project Name BOEING C-6

Client Contact PAUL

Site Address 1451 1/2 KNOX ST. TORRANCE, CA.

Company HALEY AND ALDRICH

Spectrum Staff JIM-COLIN

Day 1 of 1

1.5 HRS. Labor Hrs

GPR Equipment

EM Other

Report Y (N)

Diagram Y (N)

Work Performed:

- [x] Investigated 9 proposed ground intrusion sites for detectable subsurface interferences.
- [ ] Investigated — linear feet of proposed trench for detectable subsurface interferences.
- [ ] Delineated the surface trace of detectable utilities and subsurface inerferences in — area(s) approximately ____, ____, ____, ____ feet in size.

Other: GPR DEPTH OF PENETRATION APPROX. 1-2'

NOTE

Non-metallic and non-electrically conductive piping and materials are not detectable.

We recommend that you hand auger to a depth of 5 feet below ground.

We recommend that you call the One Call Center prior to excavating or installing borings.

Your potential boring locations were investigated for detectable subsurface interferences and their locations have been marked on the ground surface of a 12-inch diameter white circle or a stake or nail or flagging.

No consideration of liability will be given if borings are installed outside of the white circle or not dead-centered on the flagged stake or nail. Call for a revisit if additional boring locations are required.

Paul Jones

Client/Rep Signature

28882-502

Client Project Number

Attachment C

Daily Field Reports for Well Installation and Well Development

HALEY & ALDRICH

DAILY FIELD REPORT

Project	C6 PARCEL A AMENDMENT WELLS	Report No.	-1
Location	C6	Date	M 11/8/04
Client	BOEING	Page	1 of
Contractor	WDC EXPLORATION & WELL	File No.	28882-503
Weather	CLOUDY & COOL	Temperature	60s

4-430 LOAD UP

430-530 TIMECARD / EXP / NOTES WRAP-UP

530-730 DRIVE TO C6

☐ CHECK ON PROJECT # W/ SCOTT - ~~SEE?~~ 503

MEET W/ PAUL SONEJ - HE ADJUSTED LOCATIONS BASED ON PREVIOUS WELL LOCATIONS. ☐? DID WE PROVIDE THIT STATE PLANE OR LOCAL COORDINATES LAST TIME

730 HEALTH & SAFETY MEETING W/ DRILLERS & DENNIS CARLSON
Spectrum Geophysics clearing locations PRS

800 SITE WALK - CUT FENCE FOR ACCESS TO PARCEL A

☑ MARCIA - TRASH BIN, BAKER TANK

CREW ① PAUL ALMANZA SETTING UP ON AW0103C
CREW ② JORGE GUTIERREZ SETTING UP ON AW0104C

☑ HAND WASH STATION

955 CALL MARCIA - LEFT MESSAGE
CALL BETH - C6 DRUM #
CUTTINGS 120 x $\pi(\frac{4}{12})^2$ = 293 ft³/ft = 10.8 yd³ x 1.3 FLUFF = 14.1 yd³
= 2 yd³ BIN NEEDED
DRUM WATER TANK SIZE? - 3000 GAL
CALL MARCIA & LEAVE MESSAGE

1015 SINK 4119/MONTH + 30 PICK UP - HAND WASH STATION TUES, AM

1050 CREW ① @ TD 118 (SHOULD BE 116) AW0103C

☑ CHECK W/ PAUL - SCH 80 SCREENS + ADAPTER TO SCH-40 CASING = OK

1105 CREW ② @ TD 118 - HAVING DIFFICULTY POPPING PLUG AW0104C

☐ 2 QT PITCHERS FOR BENTONITE / BRING SCALE FOR GROUT

SAND HEAVED ON AW0104C WELL SET ~ 1' HIGHER @ 114.5 but were able to get it to 115.5 later during completion

1158 TONY 714.623.1485 CARLON CATERING TRUCK WITHIN 1/2 HR

☑ DON'T DRIVE IN MUD

1245 - 315 LUNCH

1330 JOHN W/ THIT ONSITE - HEALTH & SAFETY MEETING

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

Haley & Aldrich, Inc.

ALDRICH

DAILY FIELD REPORT

Project	PARCEL A AMENDMENT WELLS	Report No.	1
Location	C6	Date	M 11/8/04
Client	BOEING	Page	1 of
Contractor	WDC EXPLORATION & WELL	File No.	28882-503
Weather	CLOUDY & WARM	Temperature	65°

13:45 CREWS SETTING UP TO GROUT THROUGH TREMIE PIPE
25 GAL H_2O + 3 BAGS PORTLAND (94 lb EA) + 12 lb BENTONITE
= GROUT ~ 16 lb/GAL

15:00 CREW 1 GETTING WATER

1545 FINISHED GROUTING BOTH WELLS TO ~4' BGS. CLEANING UP

LABEL BELOW WATER DRUMS — SEE INVENTORY SHEET

1630 FINISHED CLEANING OFFSITE — ARCADIS CONTINUING INJECTION TESTS

TH MILEAGE LOG — 215 mi HB

1845 HOME

Field Representative(s): Travis Hammond

Time on site: 7:30 - 4:30

Report/Travel/Other: 5:30-7:30 + 4:30-6:45

Total hours: 13.25

Distribution:

QA: PRS 11/9/04

Haley & Aldrich, Inc.

HALEY & ALDRICH

DAILY FIELD REPORT

Page 1 of 1

Project	PARCEL A AMENDMENT WELLS	Report No.	2
Location	C6	Date	TU 11/9/04
Client	BOEING	Page	1 of 1
Contractor	WDC EXPLORATION	File No.	28882-503
Weather	CLOUDY & COOL	Temperature	60's

445 - 7 LOAD UP - TRAVEL

2.42 DIF 88 - 1929 ELEV DIFFERENCE from NAVD88 TO NGVD29 Data

HEALTH & SAFETY MEETING W/ CREW (1) PAUL'S

730 DENNIS CARLSON ON SITE

745 DENNIS OFFSITE

WDC STEVE CREW NOT ONSITE YET

830 CALL WDC - LEFT MESSAGE

CALL MARCIA - LEFT MESSAGE

845 WDC BOB CALLED - STEVE LEAVING MONTCLAIR NOW

9:00 NATIONAL RENTAL DELIVERING 4 WAY SIAK

BAKER TANK CALLED - DELIVERING A 6,500 GAL TANK

CALL MARCIA - 6,500 GAL OR 3,000 GAL - PAGED HER

PAUL - 28882-503

☑ FAX NOTES

☐ ~~PDA~~ EDMS IN FIELD

1100 STEVE HUSTON CREW ONSITE W CME-95

12-1215 FAX FIELD NOTES TO PAUL

☑ 2 QT PITCHERS

1430 FINISHED GROUTING AW0071C. PLACED PELLET SEAL IN AW0072C, WE WILL HOLD OFF TILL MORNING TO GROUT.

1630 FINISHED CLEAN UP WDC OFFSITE

1645 TH OFFSITE - UNLOAD

1700 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	7-4:45	4:45-7 + 4:45-5:00	12.25

Distribution:

PRS 11/10/04

Haley & Aldrich, Inc.

HALEY & ALDRICH

DAILY FIELD REPORT

TO: PAUL JONES 619.280.9415

Page 1 of 1

Project	[illegible]	Report No.	3
Location	[illegible]	Date	[illegible] 11/10/04
Client	[illegible]	Page	1 of 1
Contractor	[illegible]	File No.	38393-503
Weather	[illegible]	Temperature	50

[illegible]

PAUL [illegible] AW0050C AW0060C

[illegible] AW0071C – 12.5 [illegible]

730 FAX LOGS & NOTES TO PAUL JONES AW0072C

830 CAL CHECK PID → 99.5

[illegible] TSH [illegible]

AW0072C AW0083C

930 FINISHED GROUTING AW0072C. CLEAN UP & MOVE TO AW0083C – CREW 2

AW0083C

1030 CREW 2 BEGIN [illegible] AW0083C

1100 SCOTT & /DENNIS ONSITE

- ☐ CONTACT WDC FOR DEVELOPMENT SCHEDULE
- ☐ RE-DEVELOP AW0050 & 52 WITH PARCEL A WELLS
- ☐ PAUL – LAYOUT NORTHERN 5 WELLS – PARCEL A – DO THEM THIS WEEK?

1115 SPOTTY IS FULL – BEGIN USING SPOTS

1245 – 1315 LUNCH

CALL PAUL – SCHEDULE – CONTINUE ON NORTH 5 WELLS & CALL TAIT? – WILL DISCUSS WITH SPZ.

TSH PLACING REBAR & CAMERA TAPE AROUND WELLS

AW0061C

1500 CREW 1 FINISHED GROUTING AW0061C – CLEANING UP

AW0083C

1600 CREW 2 FINISHED GROUTING AW0083C – CLEANING UP

1700 WRAPPING UP

1715 OFFSITE. UNLOAD, FAX NOTES

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	7:00 – 5:15		10

Distribution:

RKS 11/11/04

Haley & Aldrich, Inc.

ALDRICH

DAILY FIELD REPORT

Project	PARCEL A AW INSTALLATION	Report No.	4
Location	C6	Date	TH 11/11/04
Client	BOEING	Page	1 of 3
Contractor	WDC EXPLORATION & WELLS	File No.	28882-503
Weather	CLOUDY & COOL	Temperature	60-70°

700 ONSITE

715 HEALTH & SAFETY MEETING

745 MEET W/ RUSS TO DISCUSS GETTING CEMENT TRUCKS THROUGH BY AW0060C

815 CREW 2 SET UP TO DRILL OUT AW0022C

CALL PAUL TO VERIFY REASON FOR DRILL OUT OF AW0022C, FILTER PACK SAND WAS COMING IN TO WELL CASING FOR 2 HRS DURING DEVELOPMENT

☐ CONTINUE INSTALLING WELLS AS POSSIBLE - 5 B-SAND WELLS AT NORTH END & AW0024C. - DO AW0040C & 93C IF AND CLEARS UP, TRY TO LAY OUT & DISCUSS WITH RUSS

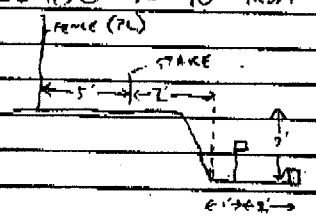
830 AW0022C BULL-DOG BIT PLUG NOT FITTING PROPERLY, STEVE WILL OVERDRILL WITH OPEN BIT & UNDERSTANDS IF THEY CANNOT REMOVE THE ENTIRE WELL CASING THEY WILL HAVE TO DRILL WITH BIGGER AUGERS

900 TH PROTECTING NEW WELLS W/ REBAR & CAUTION TAPE

915 TH LAYING OUT REMAINING PARCEL A WELLS

AW0040C ~ 40' FROM WEST PROPERTY LINE ELEV = 50.26 - 2.42 = 47.84

2B



↳ AS STAKED. FIGURE SHOWS IT ~ 18' FROM PL WHICH PLACES IT ALMOST DUE NORTH OF AW0050C MOVE LOCATION ~ 20' WEST OF STAKED LOCATION TO MATCH LAYOUT ON FIGURE

1030 WALK THROUGH NORTH WELL LOCATIONS W/ PAUL

2B ☐ COULD SCOOP OUT SOIL TO ALLOW WORK SPACE ☐ OVERHEAD POWERLINE ~4' FROM FENCE

3B CANT SCOOP SOIL OUT - SUPPORTING TELEPHONE POLE

4B COULD REMOVE SOIL BUT IT IS A SWAMP

5B COULD REMOVE SOIL - GAS PIPING BURIED

6B DEEP DEPRESSION FULL OF WATER

1110 MESSAGES - 1005 STEVE FITZWILLIAMS - APT SEMINAR - ENVIRONMENTAL X 7117

☐ CAMERA

PAUL CALLED - 14' NORTH OF PL FOR AW 2-6B IS OK, CONFIRM WITH LOCATIONS ARE OK W/ RUSS, ☐ CHECK WELL UNDER PILE - MOVE ~20' WEST

☒ DEVELOPMENT SCHED? FRI → 24B, 40C MON → 2B, 4B TU → 3B, 5B WED DEVEL -

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

RRS 11/12/04

HALEY & ALDRICH

DAILY FIELD REPORT

Project	PARCEL A AW INSTALLATION	Report No.	4
Location	C6	Date	TH 11/11/04
Client	BOEING	Page	2 of 3
Contractor	WDC EXPLORATION & WELLS	File No.	28882-503
Weather	CLOUDY & COOL	Temperature	60 - 70°

SCHEDULE - FRI 11/12 : 40C, 24B M 11/15 49C, 92C
TU 11/16 2B, 4B
W 11/17 3B, 5B
TH 11/18 DEVELOP 103C, 104C, 71C, 72C, 83C
F 11/19 61C, 60C, 40C, 24B, REDEV - 82C, 50
M 11/22 DEVEL 2B, 3B, 4B, 5B, 49C, 92C

☐ WE CAN ALSO SET & DRILL 49C, 92C (STAKED IN PILE BUT MOVE 20' WEST)
?93 IN THE MUD. - NO
☑ ORANGE SPRAY PAINT FOR REBAR & WELL CASING
☑ SLIP CAPS ☑ REBAR CAPS ☑ MASON LINE ☑ CAUTION TAPE
☐ ? RENT TRUCK FOR CLEANING UP CORES

13:30 MEET W/ RUSS ☐ RECORD ELEV. AS STAKED & REMOVE ALL EXTRA STAKES
92C IN THE ROAD
93C IN THE MUD
49C - ? SHOULD HAVE BEEN LAID OUT
61C - ? CONFLICT W/ CURB
24B - RIGHT IN GUTTER - CAN WE MOVE 4' WEST & PUT IN PLANTER
2B, 3B, 4B - CONTACT CYPRESS EQUITIES FOR PERMISSION
6B, 6B - RUSS NEEDS TO DO SITE WORK IN THE AREA

DENNIS CARLSON - DRUMS ☑ CHECK FOR LABELS ON ALL DRUMS
☐ BOB SCOTT VISIT TOMORROW 11AM
☐ EXCLUSION ZONES
☑ EMPTY ALL DECON WATER

MARCIA - ☑ EXTRA ROLL-OFF ☑ WHY DRUMS ONSITE - SCHED
14:30 ☐ JEREMY - TAIT CHECKUP
PAUL - ☑ SAT DRILLING? - NO
☑ SET DEVEL UP FOR TUES DAY / WED.
14:40 CALL WDC - JEFF O'CONNOR - ALL BOOKED NEXT WEEK BUT AVAIL SAT
- DEVEL SCHEDULED TU, W
- HB DEVEL MON? - JASON POTKOFF 510-88-2738
15 HOME DEPOT RUN
15:30 CREW 2 A.M. STARTED AW 0022C GROUTING
CREW 1 A.M. STARTED AW 0060C GROUTING - CLEANING UP, TSH LABELING DRUMS

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

RS 11/12/04

Haley & Aldrich, Inc.

DAILY FIELD REPORT

Project	PARCEL A AMENDMENT WELLS	Report No.	4
Location	C6	Date	TH 4/11/01
Client	BOEING	Page	3 of 3
Contractor	WD & EXPLORATION & WELLS	File No.	28882-503
Weather	CLEAR & COOL	Temperature	65°

1470 CLEAN UP ISSUES -
- [x] CUTTINGS @ EACH HOLE
- [ ] MUD BY DECON & MOVE DECON
- [ ] MOVE ALL DRUMS TO STAGING AREA
- [ ] CUTTINGS @ ROLLOFFS
- [ ] CAP LOG
- [ ] FLAGGING / PAINT / CAP ALL WELLS
- [ ] RECORD ELEV & REMOVE STAKES
- [ ] LABEL ALL DRUMS

1745 OFFSITE - FAX NOTE TO PAUL

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	7:00 - 5:45		10:45

Distribution:

PRS 11/12/04

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DAILY FIELD REPORT

Project	PARCEL A AMENDMENT WELLS	Report No.	5
Location	C6	Date	F 11/12/04
Client	BOEING	Page	1 of 2
Contractor	WDC	File No.	28882-503
Weather		Temperature	

645 LOADUP

700 ONSITE –

STAKE	ELEV (2.42 HIGH)	OFFSET	TO WELL
AW0104C	50.95	41'	
AW0103C	51.16	26	
92C	51.09	20	
93C	50.98	20	
83C	50.96	33	
71C	50.94	22	
72C	50.73	29	
60C	50.62	20	
49C	50.64	20	
40C	50.26	20	
24B	50.64	~13	☐ CHECK AFTER INSTALL

FINAL QA LIST
- ☑ PUT ELEV. ON ALL LOGS
- ☑ LABEL WELLS
- ☑ PLACE STAKES NEARBY
- ☑ LOGS: SCH 40 OR 80
- ☑ CHECK STICKUPS IN LOGS
- ☐ TAG ALL WELLS DTW/TD
- ☑ ADD COLLAPSED NATIVE INTERVALS
- ☐ SEND WASTE INVENTORY TO JEK
- ☐ EDMS SO/WE

715 HEALTH & SAFETY MEETING
SET UP EXCLUSION ZONES

755 SONES – SCH-40 SCREENS ON B-SAND WELLS

815 CALIBRATE MINIRAE PLUS CLASSIC PID (SN -103972) W/ 100 PPM ISOBUTYLENE. CAL CHECK → 99.4 PPM = OK

TSH AIR MONITORING, PROTECTING NEW WELLS, CLEAN UP CORES
↳ PLACED FOUR 6-FOOT HIGH ½" REBAR @ 1.5' DISTANCE, CAUTION TAPE, REBAR CAPS, SPRAY PAINT WELL CASING ORANGE

930 SCREEN INTERVAL FOR AW0024B AS PLANNED → 64.2 – 84.2
DTW AW0050C ~120' SOUTH → 64.35 – 3.7 STICKUP = 60.65

1100 PAUL SONES – HB MONDAY ☑ CANCEL DEVELOPMENT WDC MON
☑ EQUIPCO – TRANSFER TO C6 PROJECT N/W
CALL WDC – CANCELED HB, C6 STILL ON TU-W

11:20 DENNIS CARLSON ONSITE – ☐ PLANS FOR N. END RETAINING WALL?
TSH LABELING WELLS
☐ UPDATE WELL CONSTRUCTION RECORD – ELECTRONIC VERSION
☐ LEAVE FOR BETH – COUPLINGS, HACKSAW, SCREWS – DEVEL. RECORD
13–1330 LUNCH
TSH CLEANING UP SOIL CORES

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

HALEY & ALDRICH

DAILY FIELD REPORT

Project	PARCEL A AMENDMENT WELLS	Report No.	5
Location	C6	Date	F 11/12/04
Client	BOEING	Page	2 of 2
Contractor	WDC EXPLORATION	File No.	28882-503
Weather	CLEAR & WARM	Temperature	70's

1430 BOTH CREWS FINISHED GROUTING CLEANING UP & DECONNING

TSH PROTECTING NEW WELLS

1545 FINISHED PROTECTING WELLS, DRILLERS MOVING DERON WATER & STOCKPILING EMPTY DRUMS

16:05 EQUIPCO - PAUL PID - RETURNED 11/8
- ADD 200' WATER LEVEL IND.

1645 WDC OFFSITE. TSH CLOSE ROLLOFFS & LOCK UP

1700 OFFSITE

2 HR TRAVEL

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	7-5 (10 hrs)	2 hr 15 min	12.25

Distribution:

11/19/04

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DAILY FIELD REPORT

Page of

Project	Boeing C-6 Facility	Report No.	1
Location	1451 Knox St., Los Angeles, CA	Date	11/16/04
Client	BRC	Page	1 of 1
Contractor	WDC Water Development	File No.	28882-503
Weather	Sunny, clear	Temperature	63° sunny, clear

0430-0600 Travel to HB to meet trans
0615-0700 Travel to site, meet WDC (Jason)

Set up at AW0104; go over health + safety / site access log
0720 Paul called
0749- Started bailing AW0104C (~4 gal)
0815-0830 Surge AW0104C
0830-0855 Jason hooked up Grundfos pump to tubing
0855-0935 Continued bailing AW0104C; bailed ≈ 18 gal.
0947-1038 Pumped w/ Grundfos at 4.5 gpm - pumped ≈ 202.5 gal
Removed pump from AW0104C
1055 Set up at AW0083C
1105 Started bailing AW0083C → surge + bail
1300 Finished bailing AW0083C
set up Grundfos pump

1335-1400 Lunch break
1400 Set up at AW0072C
Called Paul re: baker tank sample. Paul said ok to collect h2o sample from drillers trailer / development H2O

Measured DTW & DTB. DTB ≈ 81'. Jason brought up two bailers of h2o - felt like something was floating in well. Re-measured DTB = 119.20'

1425 Went to get ice

1440 Back at site, Jason starting to surge AW0072C

1520 Collected development water sample (C6-1DWS02_HA_WD)
STL arrived to pick up h2o sample

1630 Finished AW0072C
Jason hit well when pulling away; cut top
DTB=115.2 (same) - PVC casing at ground surface, put back
rebar / Jason hit AW0072C → cut well at ground surface, measured
1700 Left site DTB = same after development

Damaged Well Casing Cut Off & New Joint Glued On

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
B. Breitenbach	9	3.0	12

Distribution:

PRS 11/19/04

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DAILY FIELD REPORT

Page of

Project	C-6	Report No.	
Location	Los Angeles, CA	Date	11/17/04
Client	BRC	Page	1 of 1
Contractor	WDC	File No.	28882-503
Weather		Temperature	

0705 Arrived @ site

0710 H+S Tailgate
Jason (WDC) pumped h2o from trailer into baker tank

0730 Set up at AW0071C; start

0800 Measured TD of AW0082C
DTW = 63.80
DTB = 116.5'
PVC ~ 2' above groundsurface
Felt like a piece of mud was stuck in casing at ~ 45' ??

0848 Set up pump @ AW
0858 pump won't start → may be check valve; Jason removed check valve
0907 Pump turned on
DTW = 64.00

Check Valve Removed.

0915 While AW0082C is pumping, Jason fixed well AW0072C

0950 Place re-bar back around AW0071C
Set up on AW0082C / pulled out transducer @ 1000 ✓

1001 Brought up one bailer → some sand / water clear
(bailer went to bottom)
2nd bailer - no sand / h2o clear
Placed transducer back in well ✓
1015 Called Paul to check in
Set up at AW0060C - 9' of sand in bottom

1330 Scott Z. stopped by site

1340 Stopped pumping AW0060C TD = 114'
set up rebar around AW0060C

1346 Set up at AW0061C

1520 Started pump AW0061C

OVR

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
B. Borcilmbach	9.75	0.25	10

Distribution:

11/19/04

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AW0071C $\pi \times 0.166^2 \times 50.41 \times 7.48 = 32.626$

AW0060C $\pi \times 0.166^2 \times 43.8 \times 7.48 = 28.35$

AW0061C $\pi \times 0.166^2 \times 33.02 \times 7.48 = 21.40$

11/17/04 Page 2 of 2

1537 Water in AW0061C going down fast when pump is at 3gpm
Turned pumpp off for a few minutes to let H_2O come back up.

1619 Done pumping AW0061C

Cleanup / move trailer / Demob for day

1645 Left site

ALDRICH

DAILY FIELD REPORT

Project	C-6	Report No.	
Location	Los Angeles, CA	Date	11/18/04
Client	BRC	Page	1 of 1
Contractor	WDC	File No.	28882-503
Weather	Sunny Clear	Temperature	60's

0705 Arrived at Site

0715 H+S Tailgate
Set up on AW004OC - bail / surge + pump
Calibrate Horiba U-10

0937 Set up on AW0024B

0940 Paul called -> he wants me to check contents of drum on front end loader on Parcel C.

Went to check drum - looked like grout drum
Couldn't get lid off (loader on slant). Called Travis. He confirmed that it was cement/grout drum - drillers will bring back with them next time they are out there

1020 Called Paul + left message about drum

1220 Done at AW0024B

1220-1250 Lunch break

1250 Set up on AW0103C

1254 Paul called -> no label on drum - only label w/ marker
I wrote "Cement/Grout" on drum in loader

1500 Done w/ AW0103C / Set up on AW005OC

WDC cut well -> 2'2" above ground

1559 Turned off pump @ AW005OC
Recorded TD / Put up barracade / Labeled well
Packed up

Emptied trailer decon h2o into baker tank

1700 Left site

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
B. Breitenbach	9.5	2.5	12

Distribution:

11/19/04

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DAILY FIELD REPORT

Project	PHASE 2 PARCEL A WELLS	Report No.	1
Location	CG	Date	M 12/6/04
Client	BOEING	Page	1 of
Contractor	WDC	File No.	27904-503
Weather	CLOUDY & COOL	Temperature	45°

430-5 LOADUP
5-7 TRAVEL
ONSITE - MEET WITH RUSS ABOUT SPOTTING BINS & TANK
MEET W/ DENNIS, RUSS, DRILLERS
930 CANCEL JOB TILL FURTHER NOTICE
930-10 BREAKFAST
10-11 TRAVEL TO HUNTINGTON BEACH
11-16 GAUGE WELLS, MEET W/ MATT & PAUL

1615 OFFSITE
18
TU 12/7/04

6-630 UNLOAD

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

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DAILY FIELD REPORT

Project	PHASE 2 PARCEL A AWS	Report No.	~~28882-503~~ 1
Location	19503 S. NORMANDIE ~~SC~~ AVE	Date	TU 12/14/04
Client	BOEING	Page	1 of
Contractor	WDC EXPLORATION & WELLS	File No.	28882-503
Weather	CLEAR & CALM WIND	Temperature	60'S

645 ONSITE @ C6

PAUL ☑ COMPTON 5TH – SCOTT LATTIMORE ☐ ECI / ONYX – BIN DELIVERY

☑ WDC – LIMITED ? SAME PRICE

COORDINATE WELL LOCATIONS, BINS, MATERIALS W/ TED & RUSS & DENNIS

☑ BOB NIX – LAR

– FAX 40 HR CERT FOR JUAN ALVAREZ

9:00 HEALTH & SAFETY MEETING

WDC HAND AUGERING TRIANGLE PATTERN TO 5' @ AW0001UB

925 CALL SCOTT LATTIMORE – ECI COMPTON

1000 BAKER TANK ARRIVED – DENNIS TO SHOW DRIVER THE LOCATION

1030 COMPLETED HAND AUGERING / POST-HOLE DIGGING TO 5'. CLEAR

CALIBRATE MINIRAE PLUS CLASSIC PID W/ 100 PPM ISOBUTYLENE

CAL CHECK → 98.5 = OK

JEFF O'CONNOR (WDC) CALLED – HE WILL CHECK ON LAR & FAX JUAN'S CERT TO PAUL

11:00 SPECTRUM ONSITE TO CLEAR AW0002, 3, 4 LOCATIONS 5' IS IN A DEPRESSION FILLED W/ WATER. CLEAR TO ~6'

HEALTH & SAFETY MEETING #2

1130 MET W/ RUSS TO DISCUSS STORM DRAIN & TELEPHONE CONDUIT LOCATIONS – WE SHOULD BE CLEAR.

1200 SAND HEAVED ~10' WHEN PLUG WAS POPPED. – ADDING WATER TO CLEAR AUGER & GET WELL TO TD

CHECK DTW @ AW0024B → 61' ELEVATION DIFFERENCE TO AW0001UB

~2' DTW @ 1UB = ~59'. SEAL SHOULD BE BELOW WT.

13:00 DENNIS OFFSITE

13 – 1315 LUNCH

TAG TD INSIDE WELL → 82.5 (2.5' STOPPER INSIDE) ATTEMPTING TO BAIL IT OUT

14:00 DENNIS CALL ☑ CHECK WELL SCREEN FOR DAMAGE W/ SURGE BLOCK

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond			

Distribution:

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DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS	Report No.	~~28882-503~~ 1
Location	19503 S. NORMANDIE AVE	Date	TU 12/14/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-503
Weather	CLEAR & CALM WINDS	Temperature	70s

14:05 WE BAILED ~ 1GAL SAND OUT & TAGGED TD@ 8515. BAILER IS 1.7" DIAMETER, IT WENT TO THE BOTTOM EASILY SO I BELIEVE THE SCREEN IS IN TACT

HSO STL PICKED UP COMPTON TDW SAMPLES

1515 OFFSITE

1730 HOME - UNLOAD

1745 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	6:45 - 1545 8½	2½	11

Distribution:

PRS 12/17/04

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DAILY FIELD REPORT

Project: PHASE 2 AMENDMENT WELLS & PARCEL A
Location: C6
Client: BOEING
Contractor: WDC EXPLORATION & MONG
Weather: CLEAR & COOL CALM WIND

Report No. 2
Date W 12/15/04
Page 1 of
File No. 28882-503
Temperature 60's

445 - 645 LOAD UP, TRAVEL

645 HEALTH & SAFETY MEETING
DENNIS ONSITE
☑ PAUL - AW0026C - DID WE DESTROY?
☐ COORDINATE W/ RUSS 1-2 DAYS ADVANCE

7:00 WDC GROUTING AW0001UB
CALL PAUL - AW0026C WILL BE ABANDONED IN PHASE 4, WE NEED TO SURVEY

☐ TED - PICKUP EXTRA PALLETS ON LOT 8

730 MEET W/ JOHN HEISER @ ICS - NEED TO EXPOSE AW0026C
MESSAGES:
SCOTT LATTIMORE ☑ ADDRESS FOR COMPTON SITE - 157
PAUL - ONSITE MEETING @ 11 AM
- DISCUSS ACCESS TO 93

☑ WDC - LAR - #2 & 93?

800 FINISHED GROUTING AW0001UB, MOVING TO WELL AW0003UB

BOB NIX CALL ☑ CAN WE SHUT DOWN BWER
☑ POSSIBLY 3 RIGS FRIDAY
- BOB WILL VISIT SITE FOR MEETING @ 11 AM
~~MEET~~ ROSS - ☑ SHUT DOWN WIRES ON SATURDAY?

STEVEN 714.936.1308 AMERICAN BARRICADE - 1st CLOSURE @ 9 AM?
MATT DODSON @ SITE CELL - 617.908.2759
PAUL ☑ OK TO DESTROY AW0026C THIS WEEK

930 AT TD ~87' NO HEAVE - SETTING WELL
☑ GLOVES

10 30 SCOTT Z ONSITE -
☑ BOB NIX - BULL DOG BIT FOR OVERDRILL AW0026C 909.772.7290
- DEVELOPMENT SCHEDULE W, TH, F 22, 23, 24 - OK
☑ CALL BACK W/ ACCESS FOR REST OF THE JOB
SCOTT C,

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond			

Distribution: PROJ
TH 16 1
F 17 3
SA 18 7
SU 19 5
M 20
T 21

613 9399 8208
61 438 821 914

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DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS PARCEL A	Report No.	(2)
Location	C6	Date	W 12/15/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-503
Weather	CLEAR & WARM, CALM WIND	Temperature	

8:15 DENNIS CARLSON – CAR ON SATURDAY
– KEEP RUSS INFORMED
CALL SCOTT LATTIMORE – PLACE ON 157. CALL ME, I'LL BE THERE

1315 – 1330 LUNCH
1330 MEET w/ RUSS FOR ACCESS
1345 BEGIN DRILLING AW 0049C

DONE 1UB, 3UB

PROPOSED SCHEDULE : TH 12/16 – 2R 66 ① 49C + 59C ② 70C
F 12/17 3R 65 ① 57C + 26 DEST?
② 81C (IF FINISHED GRADING)
③ 92 C (IF GRAVEL MOVED)
Sa 12/18 3R 55 ① LAR → 2UB + 4UB
② 93C (IF TRENCH BACKFILLED)
③ 5UB

14:30 AT 70' – NEED 300' TAPE – HOME DEPOT RUN

15:30 SECOND HOME DEPOT OUT OF 300' TAPES ALSO
TD @ 117'

PAUL CALLED ~~TO~~ PLAN FRIDAY SCHEDULE & CALL BOB NIX IN MORNING

1715 SETTING SEAL. LAST 1/2 BUCKET OF PELLETS BRIDGED AT 57'
TRYING TO KNOCK IT OUT WITH HEAVIE PIPE
– NO LUCK
1730 TRIED TO JET PELLETS OUT WITH WATER. – NO LUCK

1745 PULL AUGERS. WELL IS NOT MOVING. FOUND PLUG AT 57'. FINE ✓
POWDER BENTONITE.
THE SECOND BUCKET OF PELETS WDC PLACED WAS A DIFFERENT TYPE ✗
OF PELLET (MORE CYLINDRICAL) THAT BREAKS DOWN INTO POWDER
~~TOP OF PELL~~ BOREHOLE OPENED TO 80'. WE PLACED ~ 1.5 BAG CHIPS
BEFORE BRIDGING OCCURRED. THERE IS ~ 8' OF SLUFF ABOVE OUR SEAL ✓
19:00 CALLED PAUL – WE STILL HAVE ~80' OF GROUT, WILL THIS WORK → ok
Need to evaluate Well's Water Production Capability + maybe
1830 PUMPED 2 DRUMS GROUT (~30') – SHOULD FILL TO 50' BGS Pressure Test
1845 OFFSITE – UNLOAD
1900 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	6:45-1845 (12)	2.25	14.25

Distribution:

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DAILY FIELD REPORT

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Project	PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	(3)
Location	15503 S. NORMANDIE AVE.	Date	Th 12/16/04
Client	BOEING	Page	1 of 2
Contractor	WDC	File No.	28882-503
Weather		Temperature	50°

700 ONSITE

HEALTH & SAFETY MEETING WDC CREW (1) TED QUINTIN, JUAN CME-85
(2) NACHO, ALBERT, NICK CME-75

CREW (1) SETTING UP TO FINISH GROUTING AW0049C
(2) SETTING UP TO DRILL AW0059C

SPOKE W/ SEWER LINE CONTRACTOR. THEY WILL BE TRENCHING AROUND 93C TILL MONDAY/TUESDAY - ? CAN WE INSTALL TODAY?

UPDATE SCHEDULE - Th 12/16 (1) 49C, 70C (2) 59C
F 12/17 49B 81C
SA 12/18 2UB (LAR) 5UB 26C (BEST)
TU 12/21 93C 92C

810 DEPTH TO TOP OF GROUT AW0049C = 54'
☑ CHECK OUT WCC-07S
CALIBRATE MINIRAE PLUS CLASSIC PID (SN - 103990) W/ 100 PPM ISO
CAL CHECK → 101 ppm
☑ SCOTT LATTIMORE - BIN FOR FRI

845 DENNIS CARLSON ONSITE - H&S MEET
MEET W/ JOHN - SUPERVISOR @ SOUTH END
- TRENCHING CREW WORKING TO THE NORTH, WILL BACK FILL MONDAY FOR TUESDAY ACCESS

☑ WCC-04S - REMOVED THE VAULT

915 - MET W/ DRILLERS ABOUT RIGS WORKING CLOSE TOGETHER, TRY TO ORIENT RIGS TO PROTECT THE OTHER CREWS

920 CREW 1 FINISHED GROUTING AW0049C, MOVING TO 70C
TSH PICKING UP REBAR/PLASTIC @ LOT B
WCC-07S APPEARS TO BE UNDER A PILE OF SOIL FROM SEWER LINE MOVEMENT
CHECK DTW (AW0049C) → 62.45 TD = 115.4 STICKUP = 23" (2.2A)

1050 CALL PAUL, BOB N. W/ SCHEDULE
(1) 115' BGS (2) SETTING FILTERPACK

1150 (2) SETTING UP TO SURGE & THE WINCH LINE (TSH) BROKE, REPAIRING IT. CAME OFF REEL

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

Haley & Aldrich, Inc.

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DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	(3)
Location	19503 S. NORMANDIE AVE	Date	Th 12/16/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-503
Weather	CLEAR & WARM	Temperature	70's

12:50 SCOTT L. - WORKING ON SOIL PROFILE
13:00 SET PELLET SEALS
1330-1345 LUNCH

1345 BOTH CREWS SETTING UP TO GROUT. 80' TREMIE PIPE
BH PROTECTING AW 0049C

1415 DEMA IS CALLED — DISPOSAL OF SOIL w/ WED

1430 TALK w/ RUSS 50B (TH) → BIC
SEND BIN LOCATION
→ REMOVE WED
|

FRI 40B, BIC, 26C (DEST)
SA 2 UB (CAR), 50B
M DEVEL
TU 92C, 93C
W/TH DEVEL
FRI CUT

BIC CHECK w/ SOILS ENGINEER
DEXTER

1445 (1) & (2) GROUTING

DEXTER w/ GPI (GEOTECH) TESTED THE SOIL @ BIC & SAID THEY WILL HAVE TO CUT 1-1.5' @ THE LOCATION.
CHECK w/ RUSS

16:00 (1) COMPLETED AW 0070C. TSH PROTECTING LT. CREW (1) MOVE TO BIC & BEGIN DRILLING
1630 (2) COMPLETED AW0059C. TJH CHECK DTW / TD & PROTECT LHC
1700 (1) @ 55' - SHUTTING DOWN
1715 WDC OFFSITE
1730 LOCK UP, OFFSITE, UNLOAD
1745 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hamadd	7-1730 (10.5)	15 min	10.75

Distribution:

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DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS	Report No.	4
Location	19503 S. NORMANDIE AVE	Date	F 12/17/04
Client	BOEING	Page	1 of 2
Contractor	WDC	File No.	28882-503
Weather	CLEAR & CALM	Temperature	

645 LOAD UP, ONSITE
HEALTH & SAFETY MEETING
MEET W/ RUSS - REMOVE SOME SOIL @ 4UB, MULCH OUT 5UB
- 8IC THEY WILL TRY TO WORK AROUND
800 PAUL SONES CALL
☐ COMPTON ☐ TOP OFF GROUT W/ CHIPS
☐ PERMIT CHECK ON MY DESK
CL ☐ 49C - BRING 300' FIREHOSE, FLOW METER, 25 GPM
25 PSI -
☐ DEVEL of FIRST & SEE IF INJECTION PRESSURE TEST REQ'D.
☑ LOGS / NOTES FAX TODAY

9:00 ☐ TOP OFF GROUT @ END OF DAY
☑ CLEAN UP CUTTINGS LOT 8 & EACH PARCEL A LOCATION
① TED @ 8IC
② NACHO @ 4UB
③ MIGUEL DRILL OUT 26C
925 - ORDER HORIBA U-10 FOR DEVELOPMENT MONDAY
930 FAX NOTES TO PAUL
10 DENNIS CARLSON ONSITE
1045 DENNIS OFFSITE

TOP OFF : 3B (9.8'), 70C (8.5'), ~~59C~~, 49C (10.3')

1230 SUSAN DARRAGH - SUBMIT TO OFFICE PROFESSIONAL GRANT PROCESS
SULT WILL KNOW WHO IS IN CHARGE

1300 STURGEON & SONS DELIVERING SECOND BIN, SPOTTED ~~BY~~ NORTH OF 1UB
☑ LABEL & ADD TO INVENTORY - SP077
☑ SEND TO JEREMY

SCOTT CATILLORE - ☐ JOHN W/ ONYX 626-945-6190
☐ CALL ON TUESDAY FOR WED PICKUP.
MICHAEL BINDER WILL COME SIGN MANIFEST
1330 ① FINISHED GROUTING 8IC - CLEANING UP & DECONNING
② GROUTING AB 004 UB
③ CLEANING UP
1425 CALL JEREMY W/ WASTE LIST

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

Haley & Aldrich, Inc.

HALEY & ALDRICH

DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS PARCEL A	Report No.	(4)
Location	19503 S. NORMANDIE AVE	Date	F 12/17/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-503
Weather	CLEAR & BREEZY	Temperature	70s

1500 (2) FINISHED GROUTING - CLEANING UP

CLEAN UP CORES ON LOT 8 & PUT IN ROLLOFF

1545 NACHO MOVING TO AW0005UB TO DRILL TO W.T.

CALL PAUL - ☐ LEAVE NOTES ON HIS DESK

1700 (2) AT 55' ON AW0005UB - CLEANING UP FOR THE NIGHT

1715 OFFSITE, UNLOAD

1730 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	6:45-17:30	~~10 3/4~~	10 3/4

Distribution:

12/22/04

Haley & Aldrich, Inc.

ALDRICH

DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	(5)
Location	19508 S. NORMANDIE	Date	Sa 12/18/04
Client	BOEING	Page	1 of 2
Contractor	WDC	File No.	28882-503
Weather	CLEAR & CALM WIND	Temperature	50's

645 LOAD UP, ONSITE
→ HEALTH & SAFETY MEETING

TODAY - ☐ WELL INSTALL ☐ PUMP DECON WATER INTO TANK
☐ COMPTON - TAG GROUT DEPTH, ADD CHIPS

715 CAL CHECK MINIRAE PLUS CLASSIC PID w/ 100 PPM ISO → 103 = OK

815 TSH FIXED WELL PROTECTION & TOOK PHOTOS

825 DENNIS CARLSON ONSITE

830 (2) AT 85' - SETTING WELL

1000 (2) SURGING
(1) AT TD ~ 89'
1015 - 1030 LUNCH
1030 (2) SURGE BLOCK BECAME STUCK AT THE BOTTOM OF THE WELL IN THE CAST 1 MIN OF SURGING
(1) AUGERS SAND LOCKED. LAR HAVING TOUGH TIME PULLING THEM OUT

*

1100 (2) SURGE BLOCK BROKE OFF DOWN THE HOLE - CABLE BROKE WHILE PULLING ON A LOOP IN THE WINCH LINE WITH THE MAIN LINE.
☐ DISCUSS W/ NACHO - WE COULD HAVE PULLED THE WELL OUT BEFORE THE CABLE BROKE BY REMOVING THE BOLT THROUGH THE TOP OF THE AUGERS THAT WAS HOLDING THE WELL CASING DOWN INSIDE OF THE AUGERS
☐ NOW THE WIRELINE IS DAMAGED AT VARIOUS POINTS ALONG IT'S LENGTH

11:40 (2) PULLED AUGERS & RETRIEVED WELL & SURGE BLOCK. VF SAND BUILT UP ON TOP OF SURGE BLOCK & SAND LOCKED IT AT THE BOTTOM OF THE SCREEN. ALL WELL CASING WAS PULLED OUT OF THE BOREHOLE. TOOK PHOTOS. NACHO WILL PULL ALL AUGERS & GO BACK IN THE SAME HOLE. WE WILL SURGE WITH A BAILER FROM NOW ON
(1) SURGING
12:00 (2) PLACING AUGERS BACK IN THE HOLE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

Haley & Aldrich, Inc.

HALEY & ALDRICH

DAILY FIELD REPORT

Project	PHASE 2 PARCEL A AMENDMENT WELLS	Report No.	(5)
Location	19503 S. NORMANDIE AVE	Date	Sa 12/18/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-502
Weather	CLEAR & CALM WINDS	Temperature	70s

1230 NACHO REPLACED WIRELINE

1245 DENNIS CARLSON OFFSITE
PUNCH LIST:
☑ GROUT TO TOP OFF 3B (4.8') 70C (8.5') 45C (10.3')
4B (5'=OK) 81C (5.0'=OK)
☐ DRAIN WATER MOVE & PUMP TO TANK
☑ CLOSE ROLLOFF 76
☑ CLEAN UP AROUND ROLLOFFS

1430 (1) FINISHED GROUTING - HITTING PUNCH-LIST ITEMS ✓

1630 (2) FINISHED GROUTING - CLEANING UP & TOPPING OFF GROUT @ PREVIOUS WELLS
TSH PROTECT NEW WELLS 2UB & 5UB ✓
TOOK PHOTOS

WDC WILL FAX DAILIES

1745 OFFSITE
☐ FITNESS REIMBURSEMENT / SIGN UP FOR 2040 FITNESS

1945 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total
Travis Hammond	6:45 - 19:45	/	13 hrs

Distribution:

12/22/04

Haley & Aldrich,

ALDRICH

DAILY FIELD REPORT

Project	PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	6
Location	19503 S. NORMANDIE	Date	M 12/20/04
Client	BOEING	Page	1 of
Contractor	WDC - JONATHAN STEWART	File No.	28882-503
Weather	CLEAR & CALM WIND	Temperature	50's

5-715 TRAVEL
730 HEALTH & SAFETY
MILLIE CREW MOVING PROPERTY LINE FENCE
750 DEVELOP AW0049C

945 MOVE TO AW0059C

11:20 CALIBRATE DO METER (99%) ALTITUDE ~~[illegible]~~ 50' SALINITY ~ 4.39%
SALINITY 0.7% FROM PREVIOUS DEVELOPMENT
MODEL # YSI - DISSOLVED OXYGEN 55 SN - 98FO337 AJ

TRI-METER - HYDAC DIS PCT / PH COMP SN - 000797337
CALIBRATE PH METER

1130 AW0059C STILL HAS VF SAND IN THE CONE TESTS
CALL BOB NIX - ☐ WHAT IS CRITERIA FOR SETTING PUMP IN TERMS OF THE NEVER HOT CONE ? - THERE IS A PARCEL THAT
☐ THE MORE WE DEVELOP THE TIGHTER
PAUL JONES - PUMP THE WELLS FROM THE TOP

1300 DEVELOPING AW0070C

LAYOUT AW0092C & 93C
DISTANCE FROM 103C TO 81C ON MAP ~ ~~[illegible]~~ 103' IN THE FIELD - 112
SPLIT THE DIFFERENCE
82C TO 104C ON MAP → 102' FIELD DISTANCE = 122' SPLIT THE DIF. 61'

1330 - 1345 LUNCH
1330 DENNIS CARLSON ON SITE
1430 DENNIS OFFSITE

1500 DEVELOP AW0003UB - VERY SANDY

1645 ADD DEVELOPMENT WATER TO 4000 GAL POLY TANK
THAT ADDING GW SAMPLING PURGE WATER TO THE TANK

1730 OFFSITE - UNLOAD
1745 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
	7:15-1730	2 1/2	10 3/4

Distribution:

12/22/04

Walter B. Aldrich Inc.

ALDRICH

DAILY FIELD REPORT

Page 1 of

Project	C6 PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	7
Location	19503 S. NORMANDIE AVE	Date	TU 12/21/04
Client	BOEING	Page	1 of
Contractor	WDC	File No.	28832-503
Weather	CLEAR & BREEZY	Temperature	50's

645 LOAD UP

700 ONSITE - WDC ① PAUL AL MANZA, ED, RICH
② TED NICHOLS, QUINTIN, JOSH
INSPECT WELL INSTALLATION AREA

730 HEALTH & SAFETY MEETING

715 CALIBRATE PID - BATTERY DIED CALL EQUIPCO FOR REPLACEMENT

845 ② AT TD = 113.5'
900 ① AT TD = 118

915 WDC HAD TO ORDER COATED PELLETS FOR SEALS. THEY BROUGHT BENTONITE CHIPS

PAUL SOMES CALLED ☐ SURGE BAIL / AIRLIFT 10 - 15 MIN
☐ PUMP WATER IN W/ 60' HOSE @ 10 GPM
MONITOR WATER LEVEL
☐ CALL BOB & SET UP FOR TOMORROW
AIRLIFT - CATCH WATER @ WELL HEAD
☐ ONYX - DELIVER ROLLOFFON 12/27 TO
SOUTH PARKING JOHN 626.945.6190
- PICKUP @ C6 TOMORROW

930 CALL JOHN W/ ONYX - CONFIRMED PICKUP @ C6 & DELIVERY OF 20 YD TO HB 12/27

1100 ALLOWED CHIP SEAL TO HYDRATE 40 MIN SETTING UP TO GROUT
1215 COURIER DROPPED OFF PID
1220 FINISHED STARTING BOTH WELLS - CLEANING UP & DECONTING
☐ PUMP ALL WATER TO THE HOLDING TANK

1225 CALL BOB NIX - LEFT MESSAGE

1300 DENNIS CALLOW ONSITE

1330 PAUL SOMES CALLED ☐ FAX TODAY'S LOGS / NOTES & YESTERDAY DEVEL.
☐ HELPFUL CALL & SPEAK W/ BOB NIX
1340 BOB CALLED

Field Representative(s)	Time on site	Report Travel/Other	Total hours

Distribution:

Haley & Aldrich, Inc.

ALDRICH

DAILY FIELD REPORT

Project	C6 PHASE 2 AMENDMENT WELLS - ANGELA	Report No.	(7)
Location	19503 S. NORMANDIE AVE	Date	TU 12/21/04
Client	BOEING	Page	2 of
Contractor	WDC	File No.	28882-503
Weather	CLEAR & CALM	Temperature	60's

1345 TSK SPOKE WITH DAVE (MILLIE (SEMLON)) - HE OK'D STORING EXTRA DRUMS ALONG SE FENCE

1415 FINISHED CLEANUP

1430 CLOSED UP ROLLOFFS
WDC OFFSITE

1445 OFFSITE, UNLOAD
15-1545 EMAILS

20- SURVEY INFO FOR HB 27804-211

Field Representative(s): Travis Hammond

Time on site: ~~6~~ 700 - 1500

Report/Travel/Other: ~~8~~ 1/2

Total hours: 8 1/2

Distribution:

12/22/04

Haley & Aldrich, Inc.

ALDRICH

DAILY FIELD REPORT

Project	C6 PHASE 2 AMENDMENT WELLS – PARCEL A	Report No.	8
Location	19503 S. NORMANDIE AVE	Date	W 12/22/04
Client	BOEING	Page	1 of 2
Contractor	WDC	File No.	28882 – 503
Weather	CLOUDY & CALM WIND	Temperature	50's – 70's

645 ONSITE

7 HEALTH & SAFETY

PAUL JONES – DTW, TD, HARD/SOFT
BAIL
SURGE 15 (SCH-40/SCH-80)
BAIL TO TD TILL 50 mL/1000 mL
DTW/TD / BOTTOM CONDITION
AIR LIFT – TUBE TO TD
– INJECT TO REMOVE WATER 10 min
– AIR MONITORING
– MEASURE VOL/TIME OF AIR LIFT
DTW/TD / CONDITION
BAIL IF NEEDED
INJECTION TEST – PUMP, FLOW METER VALVE, DROP HOSE TO 50'
– 10 GPM FOR 10 MIN
– DTW RECORDED ON INJECTION TEST FORM
– IF NEAR GROUND SURFACE, DECREASE FLOW TO STEADY STATE & HOLD 5 MIN
– 2 GPM BELOW GROUND = ACCEPTABLE

830 CALIBRATE PID – MINIRAE PLUS CLASSIC (SN-103981) w/100 PPM ISO CALCHECK – SAC
PAUL – GO BACK & AIR LIFT THE WELLS FROM MONDAY? – NO
✓ DEVELOP AW0001UB

1000 CALL PAUL – WE WILL NOT GO BACK ON WELLS WE DID ON MONDAY. INJECTION TEST AS IS
– AW0002UB UNDER POWER LINES – DEVELOP BEST WE CAN BY HAND

1030 ✓ DEVELOP AW0004UB

12-1215 LUNCH

1220 SURGEON & SONS PICKING UP BINS

HOME DEPOT – DUCT TAPE, ROPE FOR MANUAL DEVELOPMENT & INJECT

CALL BOB NIX – DEVELOP SCHEDULE 2UB, 81C, 92C, 93C JAN 3, 4
– MANUAL DEVELOPMENT 2UB

JOHN ONXY – ROBERT COPELAND SAID NOT TO BRING BIN TO HB

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	6:45 – 1730	0.75	11.5

Distribution:

12/28/04

Haley & Aldrich, Inc.

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DAILY FIELD REPORT

Project	C6 PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	(8)
Location	19503 S. NORMANDIE AVE	Date	W 12/22/04
Client	BOEING	Page	2 of 2
Contractor	WDC	File No.	28882.503
Weather	CLOUDY & CALM	Temperature	70's

15:00 ✓ DEVELOP AW0005UB

17 30 OFFSITE

HOME DEPOT - ROPE, DUCT TAPE

1800 UNLOAD

1815 DONE

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	6:45-7:30 (10.75)	0.75	11.5

Distribution:

RS 12/28/04

Haley & Aldrich, Inc.

Attachment D

Well Construction Records and Well Decommissioning Reports

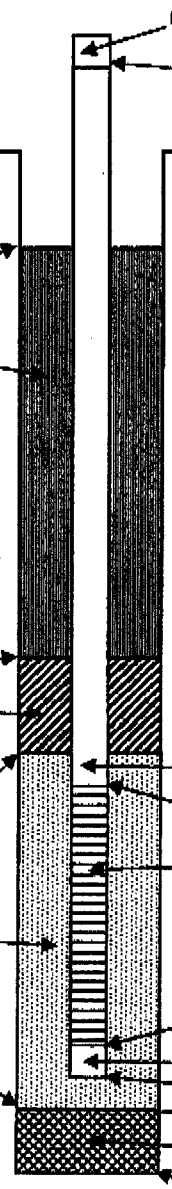
HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

AW00041B
DTW 65.7
4.7
61'
ELEV DIF @ 1UB = -2'
DTW @ 1UB = ~59'

Well ID: AW00001UB
Start Date/Time: Tu 12/14/04 7:00
Finish Date/Time: W 12/15/04 8:00
Driller/Rig: TED NICHOLS / CME-85

Amendment Well Stick-up Height (minimum 24-in) 39* inches AGS
↳ ADD 5' BGS



Cement/Bentonite Grout
Top of grout after 24 hr: 5.0 ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 1 ft bgs
Volume Placed 4.5 x 50 = gal. 225/7.48 = 30 ft³
Density ~16 lbs./gal.
Tremie Pipe Length NA ft
↳ ABOVE W.T. USE HSA AS TREMIE

Top of bentonite seal 55.5 ft bgs
Bentonite Seal
Type MEDIUM CHIPS
Thickness (5 ft min) 6.5'
Volume Placed: 2 BAGS

Top of filter pack 62 ft bgs
No.3 Sand Filter Pack
Volume Placed 6 bags (ft³) 1
Bottom of filter pack 85 ft bgs

QA/QC: PRS
Date: 12/17/04

ELEVATION DATA

Stake Elevation	~~Not Surveyed~~ NEARBY 50.6
Datum Differential	0
Adjusted Stake Elevation	50.6
Vertical Offset to Stake	-2.5
Ground Elevation at Well	48.1
Planned Screen Elevation	~~65-85~~ -16 to -36
Screen Interval (Depth)	~~65-85~~ 64-84

SURGE/DEPTH RECORD

TD Inside Well Before Surging	82.5 (2.5' SAND TRAPPED)
Top of Sand Before Surging	61.3
Surge Time 14:10 - 14:25	15 MIN
Top of Sand After Surging	62.1
Distance Sand Dropped	~~+2~~ 0.8 BAILED OUT
DTW Inside Well After Surging	61.4
TD Inside Well After Surging	85.0 85.5

2-inch diameter SCH-40 Blank casing

Top of screen 64 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 40 PVC
Screen Length 20 ft
Bottom of Screen 84 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 84.5 ft bgs

Collapsed Native Material → 0

Total Depth of Borehole 85 ft bgs

COMMENTS

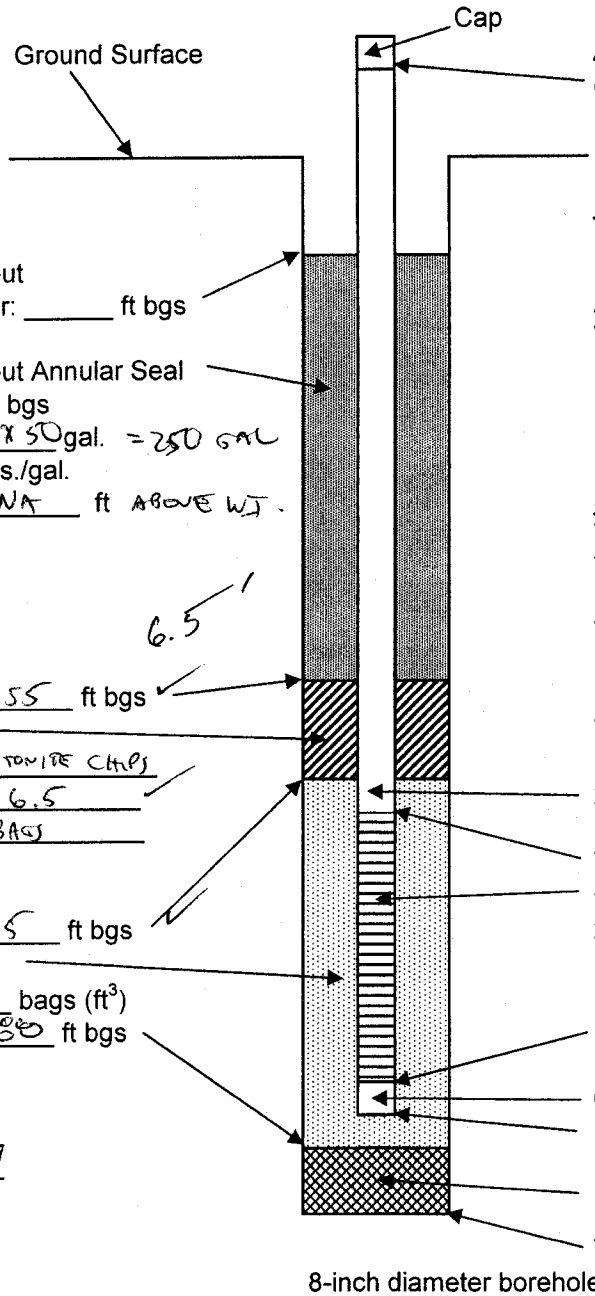
LATE LATE SHOW DW 3

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0002 UB
Start Date/Time: Sa 12/18/04 8:00
Finish Date/Time: SA 12/18/04 1430
Driller/Rig: STEVE HUSTON / LAR - L-10-T

Amendment Well Stick-up Height (minimum 24-in) 72" inches AGS
6'



Cement/Bentonite Grout
Top of grout after 24 hr: _____ ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 1 ft bgs
Volume Placed 5 x 50 gal. = 250 GAL
Density 16 lbs./gal.
Tremie Pipe Length NA ft ABOVE WT.

6.5'

Top of bentonite seal 55 ft bgs
Bentonite Seal
Type MEDIUM BENTONITE CHIPS
Thickness (5 ft min) 6.5
Volume Placed: 4 BAGS

Top of filter pack 61.5 ft bgs
No.3 Sand Filter Pack
Volume Placed 5.5 bags (ft^3)
Bottom of filter pack 80 ft bgs

QA/QC: PB
Date: 12/22/04

ELEVATION DATA

Stake Elevation NEARBY	50.6
Datum Differential	0
Adjusted Stake Elevation	50.6
Vertical Offset to Stake	-2.5
Ground Elevation at Well	48.1
Planned Screen Elevation	-16 TO -36
Screen Interval (Depth)	64 - 84

SURGE/DEPTH RECORD

TD Inside Well Before Surging	84.3 TOC
Top of Sand Before Surging	61.5 BGS
Surge Time	15 MIN
Top of Sand After Surging	61.5 BGS
Distance Sand Dropped	0
DTW Inside Well After Surging	61.3 BGS
TD Inside Well After Surging	85.4 TOC

2-inch diameter SCH-40 Blank casing

Top of screen 64 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 40 PVC
Screen Length 20 ft
Bottom of Screen 84 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 84.5 ft bgs

Collapsed Native Material ~1'

Total Depth of Borehole 89 ft bgs

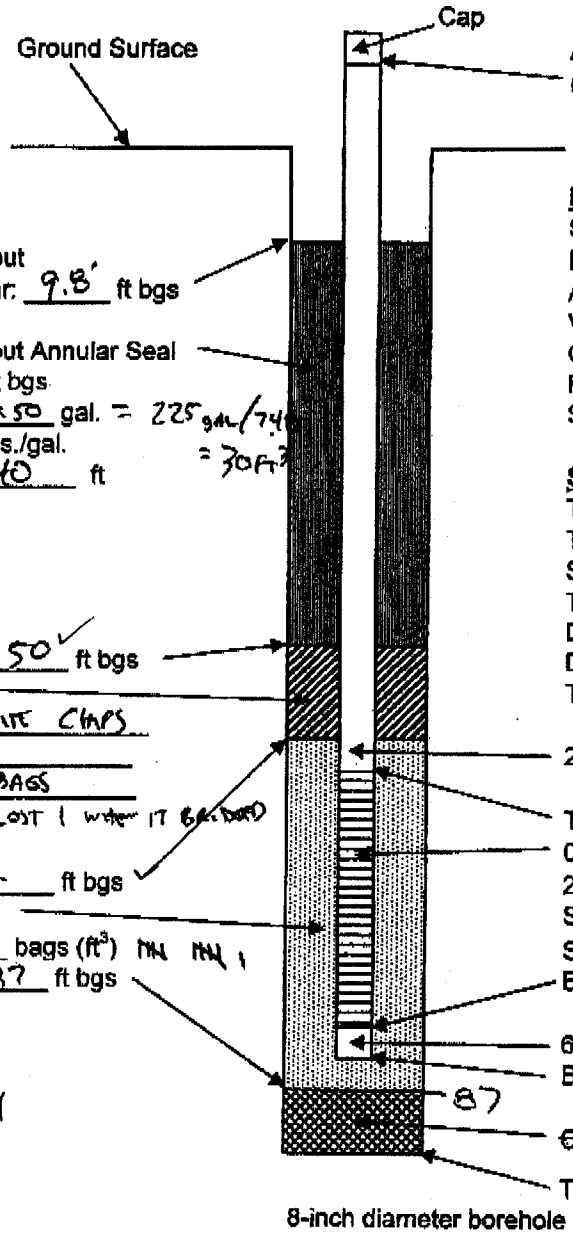
COMMENTS

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0003UB
Start Date/Time: W 12/15/04 8:00
Finish Date/Time: W 12/15/04 13:00
Driller/Rig: TED NICHOLS / CME-85

Amendment Well Stick-up Height (minimum 24-in) ~~24.75~~ 20 inches AGS



Cement/Bentonite Grout
Top of grout after 24 hr: 9.8' ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 2' ft bgs
Volume Placed 4.5 x 50 gal. = 225 gal/74 = 30 ft³
Density ~16 lbs./gal.
Tremie Pipe Length 40 ft

Top of bentonite seal 50 ft bgs
Bentonite Seal
Type MEDIUM BENTONITE CHIPS
Thickness (5 ft min)
Volume Placed: 4 BAGS
↳ LOST 1 WHEN IT BRIDGED

Top of filter pack 62 ft bgs
No.3 Sand Filter Pack
Volume Placed 11 bags (ft³) ~~IIII~~ ~~IIII~~ I
Bottom of filter pack 87 ft bgs

QA/QC: RAS
Date: 12/17/04

ELEVATION DATA

Stake Elevation	NEARBY 50.6
Datum Differential	0
Adjusted Stake Elevation	50.6
Vertical Offset to Stake	-2.5
Ground Elevation at Well	~48
Planned Screen Elevation	-16 to -36
Screen Interval (Depth)	64-84

SURGE/DEPTH RECORD

TD Inside Well Before Surging	84.5 - BAILED 1' SAND OUT
Top of Sand Before Surging	62
Surge Time START 1015	15 MIN
Top of Sand After Surging	64
Distance Sand Dropped	2'
DTW Inside Well After Surging	61.9 - 2.0 STICKUP = E
TD Inside Well After Surging	85.3 TO CASING

2-inch diameter SCH-40 Blank casing

Top of screen 63 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 40 PVC
Screen Length 20 ft
Bottom of Screen 83 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 83.5 ft bgs

~~Collapsed Native Material~~ NONE

Total Depth of Borehole ~~82~~ 87 ft bgs

8-inch diameter borehole

COMMENTS

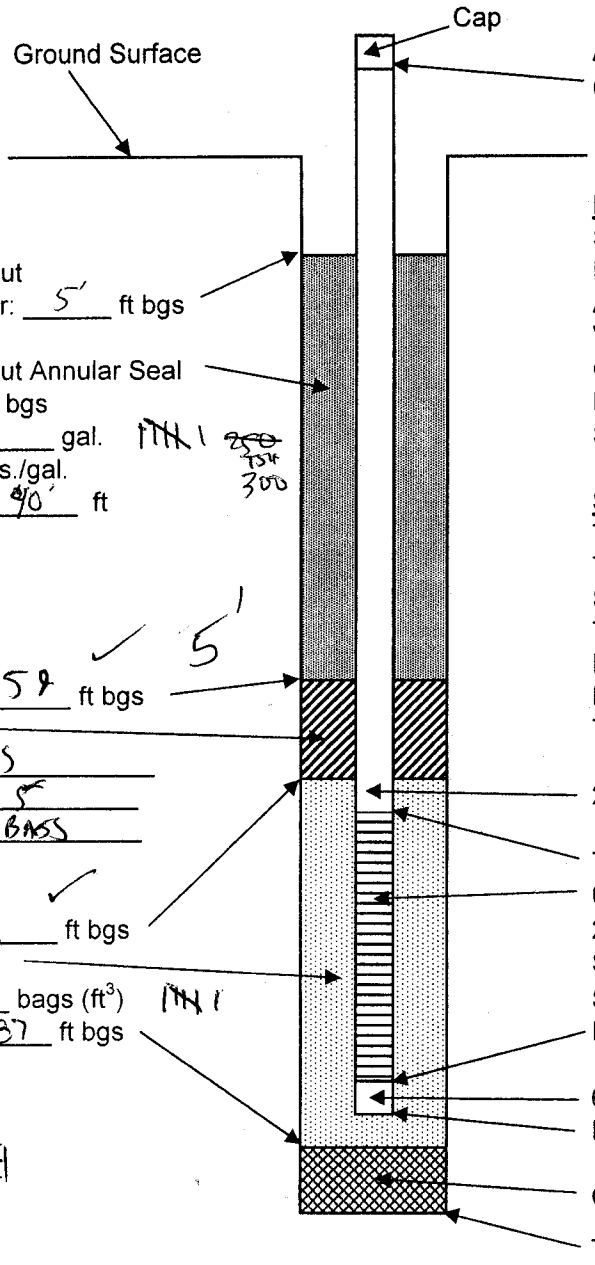
CHIPS WENT INSIDE AUGERS. WE WERE ABLE TO PULL AUGERS OUT W/O PULLING THE WELL UP. ADDED CHIPS

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW004UB
Start Date/Time: F 12/17/04 9:00
Finish Date/Time: F 12/17/04 15:00
Driller/Rig: IGNACIO GUTIERREZ CME-75

Amendment Well Stick-up Height (minimum 24-in) 49" inches AGS 4.1'



Cement/Bentonite Grout
Top of grout after 24 hr: 5' ft bgs

Cement/Bentonite Grout Annular Seal
Filled to ~4' ft bgs
Volume Placed 6 X 50 gal. 1TH 1 ~~250~~ 154 300
Density 16 lbs./gal.
Tremie Pipe Length 40' ft

Top of bentonite seal 5' ft bgs
Bentonite Seal
Type MEDIUM CHIPS
Thickness (5 ft min) 5'
Volume Placed: 7 BAGS

Top of filter pack 64 ft bgs
No.3 Sand Filter Pack
Volume Placed _____ bags (ft³) 1TH 1
Bottom of filter pack 87 ft bgs

QA/QC: PRS
Date: 12/22/04

ELEVATION DATA

Stake Elevation NEARBY → 50.6	SEE 3UB
Datum Differential	0
Adjusted Stake Elevation	50.6
Vertical Offset to Stake	-2.5
Ground Elevation at Well	~48
Planned Screen Elevation	-16 TO -36
Screen Interval (Depth)	64 TO 84

SURGE/DEPTH RECORD

TD Inside Well Before Surging	86 TOC
Top of Sand Before Surging	63
Surge Time 1130-1145	15 min
Top of Sand After Surging	67
Distance Sand Dropped	4' *
DTW Inside Well After Surging	68.8 - 4.0 64.8
TD Inside Well After Surging	88 TOC

added more sand to 64'

2-inch diameter SCH-40 Blank casing

Top of screen 66 ft bgs 66
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 40 PVC
Screen Length 20 ft
Bottom of Screen 86 ft bgs 86

6-inch long Threaded End Cap
Bottom of Cap 86.5 ft bgs 86.5

~~Collapsed Native Material~~ NONE

Total Depth of Borehole 87 ft bgs

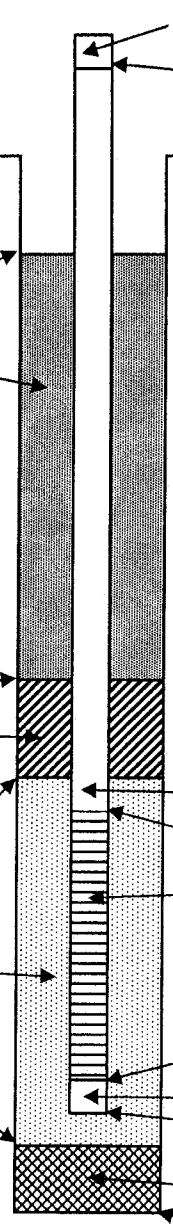
COMMENTS

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0005UB
Start Date/Time: F 12/17/04 16:00
Finish Date/Time: Sa 12/18/04 16:30
Driller/Rig: IGNACIO GUTIERREZ CME-75

Amendment Well Stick-up Height (minimum 24-in) 65" inches AGS
5.4'



Ground Surface

PTW AFTER DRAINING 59.0 bgs
TD = 84.9 TOC − 0.9 STICKUP = 84

Cement/Bentonite Grout
Top of grout after 24 hr: _____ ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 0 ft bgs
Volume Placed 5.5 x 50 gal. 275 gal
Density 16 lbs./gal.
Tremie Pipe Length NA ft ABOVE W.T.

Top of bentonite seal 55.5 ft bgs
Bentonite Seal
Type MEDIUM BENTONITE CHIPS
Thickness (5 ft min) 5'
Volume Placed: 2 BAGS

Top of filter pack 60.5 ft bgs
No.3 Sand Filter Pack
Volume Placed 6.5 bags (ft³) 6'
Bottom of filter pack 85 ft bgs

QA/QC: [signature]
Date: 12/22/04

ELEVATION DATA

Stake Elevation	NEARBY 50.6
Datum Differential	0
Adjusted Stake Elevation	50.6
Vertical Offset to Stake	3.5 TO 4
Ground Elevation at Well	46.5
Planned Screen Elevation	-16 TO -36
Screen Interval (Depth)	62.5 TO 82.5
	63 TO 83

SURGE/DEPTH RECORD

TD Inside Well Before Surging	83 ~~80.5~~ TOC
Top of Sand Before Surging	~~64~~ 62
Surge Time	955 15 MIN
Top of Sand After Surging	~~61.5~~ 65
Distance Sand Dropped	~~0.5~~ 3'
DTW Inside Well After Surging	59.9 −0.9 = 5
TD Inside Well After Surging	~~85.4 TOC~~ 85.4 TSH

2-inch diameter SCH-40 Blank casing

Top of screen 63.5 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 40 PVC
Screen Length 20 ft
Bottom of Screen 83.5 ft bgs

6-inch long Threaded End Cap
Bottom of Cap ~~83.5~~ 84 ft bgs

~~Collapsed Native Material~~ ~~NONE~~ 2'

Total Depth of Borehole ~~85~~ 87 ft bgs

COMMENTS

SURGE BLOCK GOT STUCK IN WELL SCREEN. PULLED WELL & RE-INSTALL

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0024 U/B

Dates: Start: F 11/12/04 730 Finish: F 11/12/04 1430

① PAUL ALMANZA CME-75

PLANNED SCREEN 64-84
ADJUSTED DOWN 1' TO GET 1/2 SEAL BELOW WATER TABLE
DTW @ AW0050C → 61'

Ground Surface

STAKE 50.64
Elev.: - 2.42
48.22

OFFSET 0

ELEV → 48.22

PLANNED SCREEN -16 TO -36

PLANNED SCREEN INTERVAL 64-84

Cap

Amendment Well Stick-up Height 4.6 in AGS
Min. 24-inch above ground surface

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

MEDIUM BENTONITE CHIPS 2 BAGS

Top of Cement/Bentonite Grout Annular Seal 8 ft bgs
~~Vol. of Grout Used~~ gal.

Cement/Bentonite Grout Annular Seal

Volume Placed = 250 gal.

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 58.5 ft bgs

6.5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 Buckets

Top of sand filter pack 64 ft bgs

No. 3
Sand Filter Pack

Volume Placed = 7 bags

Top of screen 65 ft bgs

0.020 - inch Machine Slotted Screen
2-inch diameter
Schedule 40 PVC
Length = 20 ft

AFTER FILTERPACK IS SET (ME) DTW — 64.25 - 4.6
TD — 86.6 - 4.6
TOP OF SAND → 64
SURGE 10 MIN (TIME)
TOP OF SAND → 64
FILL SAND TO REQUIRED DEPTH:
SURGE 5 MIN (TIME)
TOP OF SAND → 64
SET SEAL IN LIFTS
TAG DTW/TD

Bottom of Screen 85 ft bgs

Total Depth of Borehole 88 ft bgs
9:30

2-inch Screw on End Cap

GROUT 85.5

TREMIE PIPE LENGTH → 50'

86

COLLAPSED NATIVE

8-inch diameter borehole

88

HEAVED ~2' WHEN WE POPPED THE PLUG

COMMENTS

QA/QC: PRS

Date: 11/19/04

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0040C

Dates: Start: F 11/12/04 7:30 Finish: F 11/12/04 1430

(2) STEVE HUSTON CME-95

PLANNED SCREEN 93-113

Ground Surface

STAND 50.26

Elev.: ~2.42

ELEV 47.84

OFFSET 0

PLANNED SCREEN -45 TO -65

INTERVAL = 93-113

Cap

Amendment Well Stick-up Height 6.5 in AGS

Min. 24-inch above ground surface

COMMENTS

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

4

MEDIUM BENTONITE CHIPS 2BAGS

8

Top of Cement/Bentonite Grout Annular Seal ~8 ft bgs

~~Vol. of Grout Used _____ gal.~~

Cement/Bentonite Grout Annular Seal

Volume Placed = 350 gal.

Density = 16 lbs./gal.

Blank casing

2 -inch diameter

Schedule 40 PVC

Top of bentonite seal 86 ft bgs

5 ft thick hydrated 1/4-inch Bentonite Pellet Seal

Volume Placed = 2 BUCKETS

Top of sand filter pack 91 ft bgs

No. 3 Sand Filter Pack

Volume Placed = 9 bags

Top of screen 93 ft bgs

0.020 - inch Machine Sotted Screen

2 -inch diameter

Schedule ~~40~~ PVC SCH -80

Length = 20 ft

TAGGED INSIDE WELL WHILE SETTING FILTER PACK - OPEN TO 113' BGS

TOP OF SAND 91'

SURGE 10 MIN 10HO

TOP OF SAND 92'

TREMIE PIPE 80'

Bottom of Screen 113 ft bgs

Total Depth of Borehole 120 ft bgs → OVERDRILLED DUE TO HEAVING SANDS IN THE AREA

→ SAND HEAVED ~6' WHEN WE POPPED THE PLUG

920

2 - inch Screw on End Cap

113.5

114

COLLAPSED

8 -inch diameter borehole NATIVE

120

QA/QC: PAS

Date: 11/19/04

Haley & Aldrich, Inc.
Well Construction Record Form VER 2.xls

3 September 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0049C
Start Date/Time: W 12/15/04 13:45
Finish Date/Time: Th 12/16/04 9:20
Driller/Rig: Ted Nichols / CME-75

Cap

Ground Surface

Amendment Well Stick-up Height (minimum 24-in) 23 inches AGS

ELEVATION DATA

Stake Elevation AT GOC →	50.62
Datum Differential	-2.42
Adjusted Stake Elevation	48.20
Vertical Offset to Stake	0
Ground Elevation at Well	48
Planned Screen Elevation	-45 to -65
Screen Interval (Depth)	93 to 113

SURGE/DEPTH RECORD

TD Inside Well Before Surging	115.0 TOC
Top of Sand Before Surging	91
Surge Time 1640	15 min
Top of Sand After Surging	91.5
Distance Sand Dropped	0.5
DTW Inside Well After Surging	~~115.4 TOC~~
TD Inside Well After Surging	115.5 TOC

62.45
- 2.2
60.25

Cement/Bentonite Grout
Top of grout after 24 hr: 10.7 ft bgs

Cement/Bentonite Grout Annular Seal
Filled to ~4 ft bgs
Volume Placed 6x50=300 gal. = 40.1 ft³
Density 16 lbs./gal.
Tremie Pipe Length 80 ft

Sluff (collapsed native) 80

Top of bentonite seal 88 ft bgs
Bentonite Seal
Type 1/4" TG-30 coated bentonite pellets
Thickness (5 ft min) 3.5'
Volume Placed: 1.5 buckets

Top of filter pack 91.5 ft bgs
No.3 Sand Filter Pack
Volume Placed 6.5 bags (ft³)
Bottom of filter pack 117 ft bgs

2-inch diameter SCH-40 Blank casing

Top of screen 94 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 114 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 114.5 ft bgs

117

~~Collapsed Native Material~~ NONE

Total Depth of Borehole 117 ft bgs

8-inch diameter borehole

QA/QC: RS
Date: 12/17/04

COMMENTS

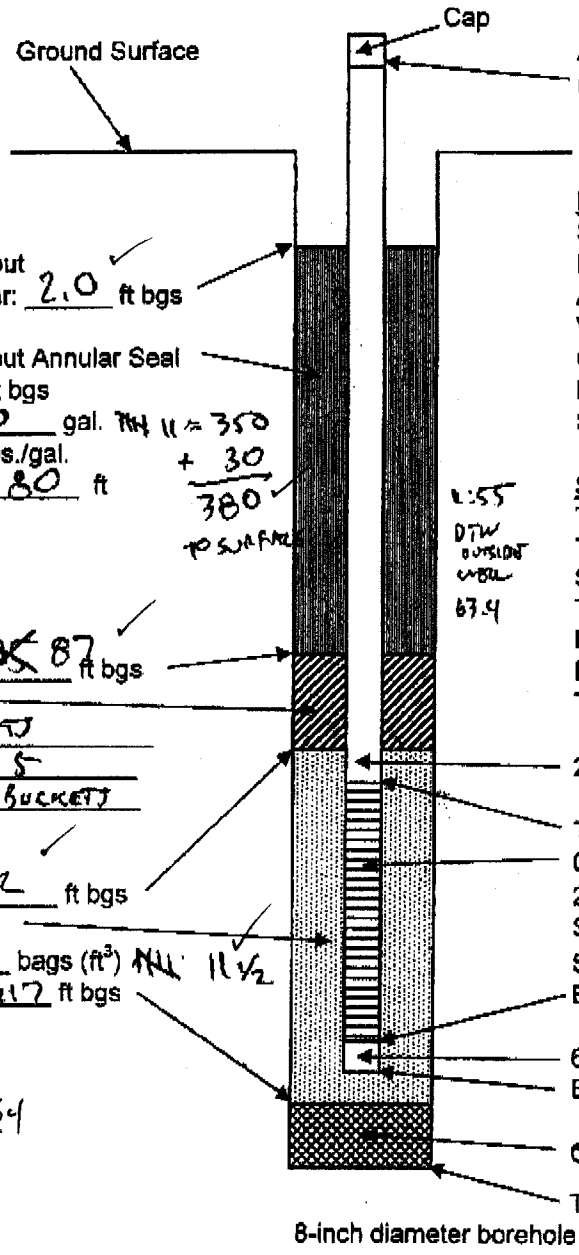
Due to 3.5' of Bentonite pellet seal w/ 8' of Sand sluff above. 80' of cement Grout on Top. Evaluate water producing Capability during development - If low to Moderate production → Press. Test well Seal.

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0051C
Start Date/Time: Th 12/16/04 8:00
Finish Date/Time: Th 12/16/04 16:30
Driller/Rig: IGNACIO GUTIERREZ CME-75

Amendment Well Stick-up Height (minimum 24-in) 58 inches AGS
4.8'



Cement/Bentonite Grout
Top of grout after 24 hr: 2.0 ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 40 ft bgs
Volume Placed 7x50 gal. ~~TH~~ 11 = 350 + 30 = 380 TO SURFACE
Density ~~12~~ lbs./gal.
Tremie Pipe Length 80 ft

1:55 DTW OUTSIDE WELL 67.4

Top of bentonite seal ~~85~~ 87 ft bgs
Bentonite Seal
Type 1/4" PELLETS
Thickness (5 ft min) 5
Volume Placed: 2 BUCKETS

Top of filter pack 92 ft bgs
No.3 Sand Filter Pack
Volume Placed 7.5 bags (ft³) ~~TH~~ 11 1/2
Bottom of filter pack 117 ft bgs

QA/QC: AR
Date: 12/17/04

ELEVATION DATA

Stake Elevation @ 60C	50.62
Datum Differential	-2.42
Adjusted Stake Elevation	48.20
Vertical Offset to Stake	+1.0
Ground Elevation at Well	49
Planned Screen Elevation	-45 to -65
Screen Interval (Depth)	94 - 114

SURGE/DEPTH RECORD

TD Inside Well Before Surging	115.5 TAC
Top of Sand Before Surging	92
Surge Time	15 min
Top of Sand After Surging	94
Distance Sand Dropped	2
DTW Inside Well After Surging	67.8 - 4.8 = 63
TD Inside Well After Surging	119.9 - 4.8 = 115

STICKUP

2-inch diameter SCH-40 Blank casing

Top of screen 94.5 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 114.5 ft bgs

6-inch long Threaded End Cap
Bottom of Cap ~~114.5~~ 115 ft bgs (TAC)

~~Collapsed Native Material~~ NONE

Total Depth of Borehole ~~115~~ 117 ft bgs

COMMENTS

1645 TAC DTW = 67.3 - 4.8 = 61.5 bgs TD = 119.9 - 4.8 = 115.1 bgs

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

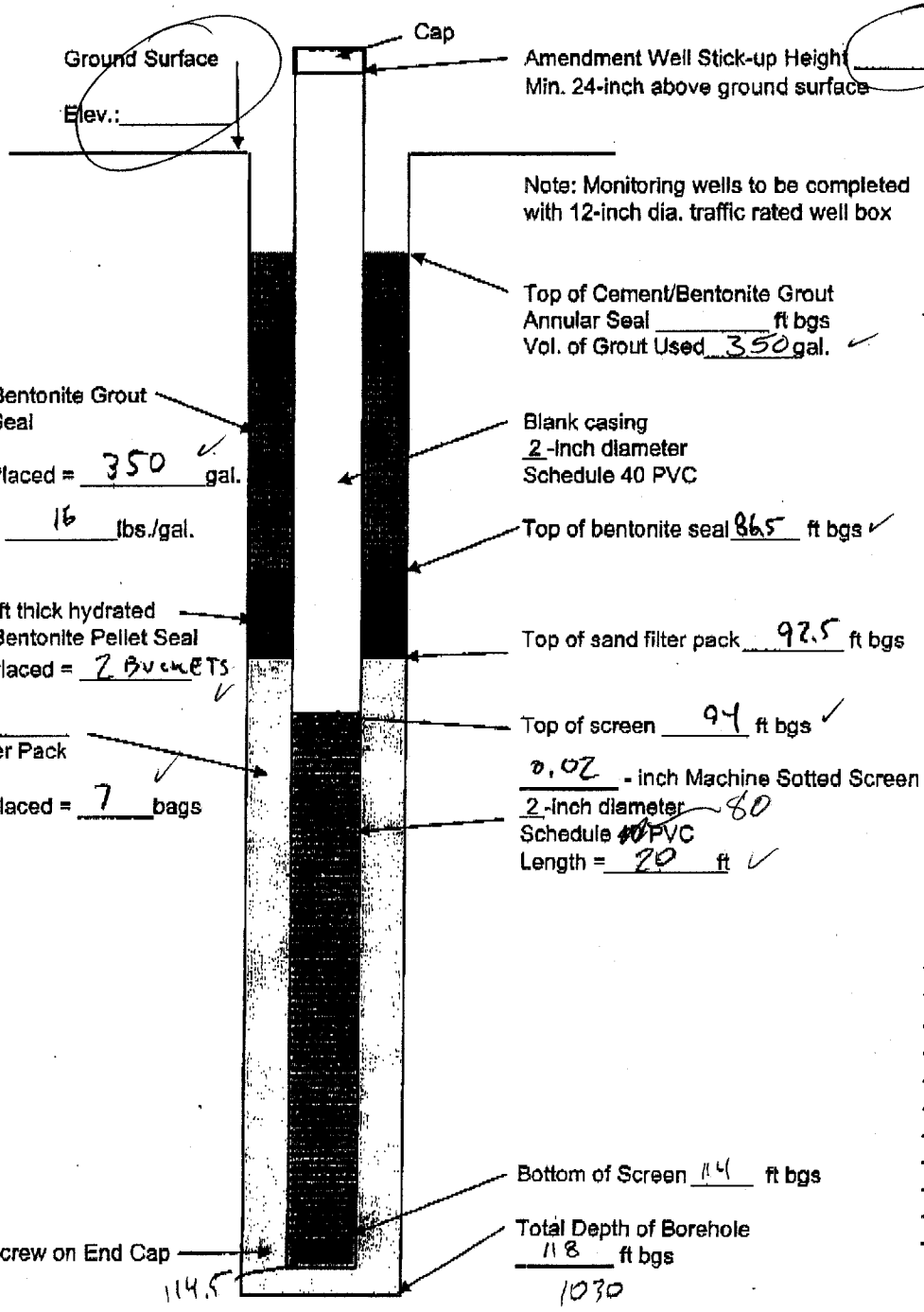
Well No.: AW0060C

Th 11/11/04 11/11/04

Dates: Start: 8:30 Finish: 4:30

① PAUL ALMANZA CME-85

PLANNED SCREEN 93-113



COMMENTS

QA/QC: PRS

Date: 11/12/04

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0061C

Dates: Start: 11/10/04 730 Finish: 11/10/04 1500

① PAUL ALMANZA CME-85

PLANNED SCREEN 93.5-113.5

Cap

Ground Surface

STAKE Elev.: 50.58
- 2.42
48.16
OFFSET ELEV 0.5
48.66

Amendment Well Stick-up Height 4.5' in AGS
Min. 24-inch above ground surface

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal 4' ft bgs
~~Vol. of Grout Used ___ gal.~~

Cement/Bentonite Grout Annular Seal

Volume Placed = 350 gal.

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 87 ft bgs

6.5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 BUCKETS

Top of sand filter pack 93.5 ft bgs

No. 3 Sand Filter Pack

Volume Placed = 7 bags

Top of screen 95 ft bgs

0.020-inch Machine Sotted Screen
2-inch diameter
Schedule ~~40~~ SCH-80 PVC
Length = 20 ft

Bottom of Screen 115 ft bgs

Total Depth of Borehole 118 ft bgs

2-inch Screw on End Cap
115.5

116

COLLAPSED NATIVE

8-inch diameter borehole

118

COMMENTS

☑ TOP OFF CASING

1130 SAND @ 93' SURGE 10 m

WELL DROPPED ~2' WHILE PULLING AUGERS W/ 2 BAGS SAND IN THE BOREHOLE ROPE BROKE WHILE TRYING TO PULL WELL UP.

QA/QC: _____

Date: _____

Haley & Aldrich, Inc.
Well Construction Record Form VER 2.xls

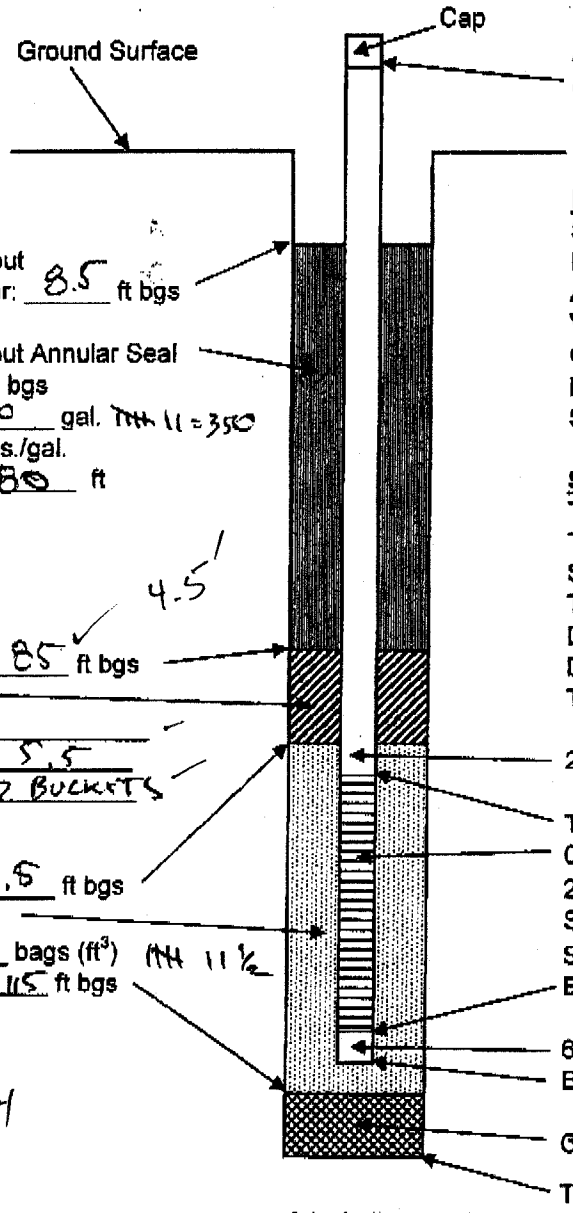
3 September 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0070C
Start Date/Time: Th 12/16/04 9:30
Finish Date/Time: Th 12/16/04 16:00
Driller/Rig: TED NICHOLS / CME-8

Amendment Well Stick-up Height (minimum 24-in) 1.8 = 22 inches AGS



Cement/Bentonite Grout
Top of grout after 24 hr: 8.5 ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 3 ft bgs
Volume Placed 7x50 gal. MH 11 = 350
Density 16 lbs./gal.
Tremie Pipe Length 80 ft

4.5

Top of bentonite seal 85 ft bgs
Bentonite Seal
Type 1/4 PELLETS
Thickness (5 ft min) 5.5
Volume Placed: 2 BUCKETS

Top of filter pack 90.5 ft bgs
No.3 Sand Filter Pack
Volume Placed 7.5 bags (ft³) MH 11 1/2
Bottom of filter pack 115 ft bgs

QA/QC: PB
Date: 12/17/04

ELEVATION DATA

Stake Elevation @ TOC	50.62
Datum Differential	-2.42
Adjusted Stake Elevation	48.2
Vertical Offset to Stake	+1.0
Ground Elevation at Well	49
Planned Screen Elevation	-45 to -65
Screen Interval (Depth)	94 - 114

SURGE/DEPTH RECORD

TD Inside Well Before Surging	115.5 TOC
Top of Sand Before Surging	89.5 BGS
Surge Time 12:15	15 min
Top of Sand After Surging	90.5
Distance Sand Dropped	1.0
DTW Inside Well After Surging	64.6 -
TD Inside Well After Surging	115.0 TOC

2-inch diameter SCH-40 Blank casing

Top of screen 93.5 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 113.5 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 114 ft bgs

~~Collapsed Native Material~~ NONE

Total Depth of Borehole 115 ft bgs

COMMENTS

16:25 CHECK DTW = 64.25 - 1.8 STICKUP = 62.45 TD = 115.1 - 1.8 = 11

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0071C

Dates: Start: TV 11/9/04 8:30 Finish: TV 11/9/04 1430

① PAUL ALMANZA CME-9

28882-503

PLAN 93.5 - 113.5

Amendment Well Stick-up Height 1.5' AGS
Min. 24-inch above ground surface

Ground Surface

Elev.: ~48.5

STAKE 50.94
- 2.42
48.52

Cap

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal 12 ft bgs
Vol. of Grout Used 350 gal.

Cement/Bentonite Grout Annular Seal

Volume Placed = 350 gal.
~47 ft³

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 86 ft bgs

5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 Buckets
No. 3

Top of sand filter pack 91.5 ft bgs
FILL TO 91'. SURGE TO MIX MOV 0.5'

Sand Filter Pack

Volume Placed = 8 bags

Top of screen 93.5 ft bgs

0.20 - inch Machine Sotted Screen
2-inch diameter 80
Schedule ~~40~~ PVC
Length = 20 ft

Screen elev.
= -45' TO -65' msl

Bottom of Screen 113.5 ft bgs

Total Depth of Borehole- 118 ft bgs 10:15 AM

2- inch Screw on End Cap

base at 114.0

8-inch diameter borehole

COMMENTS

WE WILL ADD GROUT TO ~42

QA/QC: PRS

Date: 11/10/04

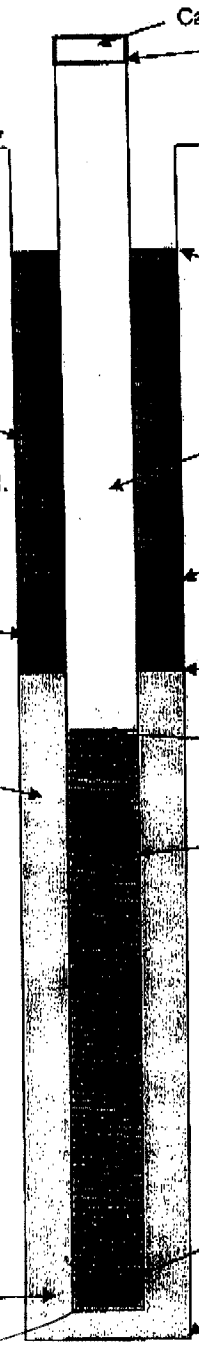
HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0072C
11/9/04 11/10/04
Dates: Start: 1130 Finish:

(2) STEVE HUSTON
CME -95

PLANNED SCREEN
96.5 - 116.5



Cap

Ground Surface

Elev.: ~51.5
STARE 50.73
-2.42
48.31
OFFSET + 3.0
51.31

Amendment Well Stick-up Height 1.5 in AGS
Min. 24-inch above ground surface

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal _____ ft bgs
Vol. of Grout Used _____ gal.

Cement/Bentonite Grout Annular Seal

Volume Placed = _____ gal.

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 89 ft bgs

5.5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 BUCKETS

Top of sand filter pack 94.4 ft bgs
SAND TO 93, SURGE TO MIN.

No. 3
Sand Filter Pack

Volume Placed = 8 bags

Top of screen 95.5 ft bgs

0.020 - inch Machine Sotted Screen
2-inch diameter
Schedule ~~40~~ 80 PVC
Length = 20 ft

Screen Elev.
= -44' To -64' msl

JVAN

SAND HEAVED

Bottom of Screen 115.5 ft bgs

Total Depth of Borehole
119 ft bgs
12:50

2- inch Screw on End Cap

Base at 116.0

8-inch diameter borehole

COMMENTS

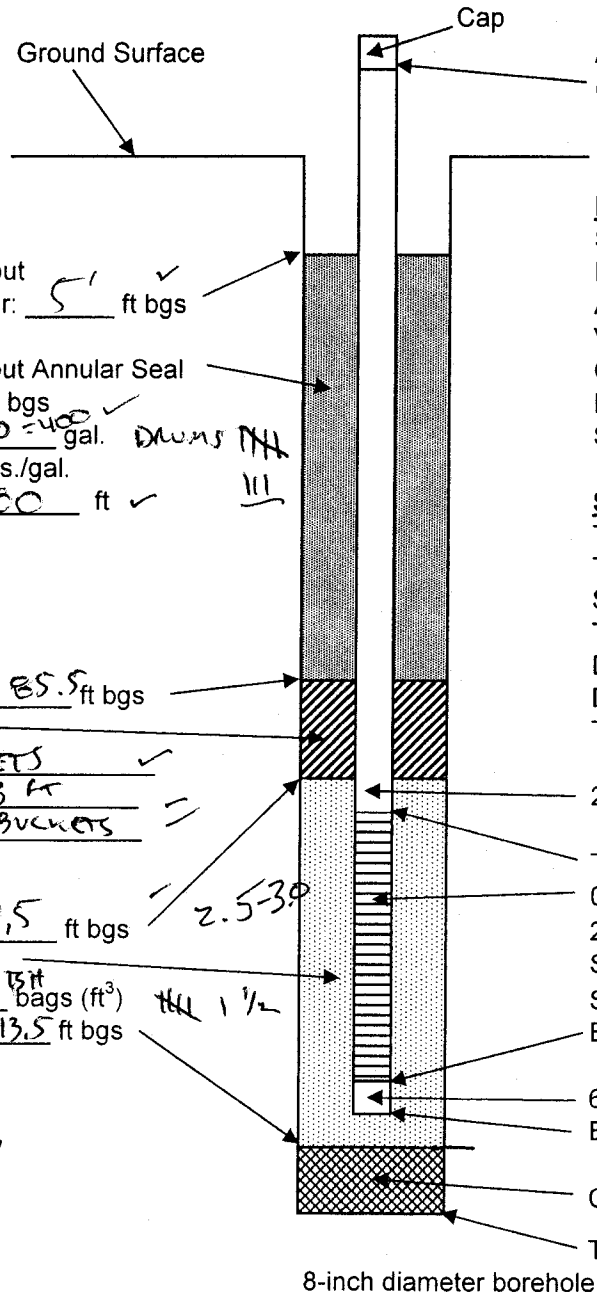
Could not Complete well grouting due To darkness - will Complete on 11/10/04.

QA/QC: PRS
Date: 11/10/04

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0081 C
Start Date/Time: Th 12/16/04 16:00
Finish Date/Time: F 12/17/04 1330
Driller/Rig: TED NICHOLS / CME-85



Amendment Well Stick-up Height (minimum 24-in) 24 inches AGS

ELEVATION DATA

Stake Elevation	SAME AS 70C (@60 50.62)
Datum Differential	-2.42
Adjusted Stake Elevation	48.2
Vertical Offset to Stake	+1.0
Ground Elevation at Well	49
Planned Screen Elevation	-45 TO -65
Screen Interval (Depth)	94 TO 114

SURGE/DEPTH RECORD

TD Inside Well Before Surging	115
Top of Sand Before Surging	93
Surge Time	15 MIN
Top of Sand After Surging (15 MIN)	~~95~~ 93.5
Distance Sand Dropped	0.5
DTW Inside Well After Surging	65.9 - 24" = 63.2
TD Inside Well After Surging	~~115.3~~ (DTW) 115.3

Cement/Bentonite Grout
Top of grout after 24 hr: 5' ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 3 ft bgs
Volume Placed 8X50 = 400 gal. DRUMS ~~IIII~~ III
Density 16 lbs./gal.
Tremie Pipe Length 80 ft

Top of bentonite seal 85.5 ft bgs
Bentonite Seal
Type 1/4" PELLETS
Thickness (5 ft min) 5 FT
Volume Placed: 2 BUCKETS

Top of filter pack 90.5 ft bgs
No.3 Sand Filter Pack
Volume Placed ~~76.5~~ 75 bags (ft^3) ~~IIII~~ 1 1/2
Bottom of filter pack 113.5 ft bgs

2.5-3.0

2-inch diameter SCH-40 Blank casing

Top of screen 93 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 113 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 113.5 ft bgs

Collapsed Native Material 1.5

Total Depth of Borehole 115 ft bgs

QA/QC: PB
Date: 12/22/04

COMMENTS

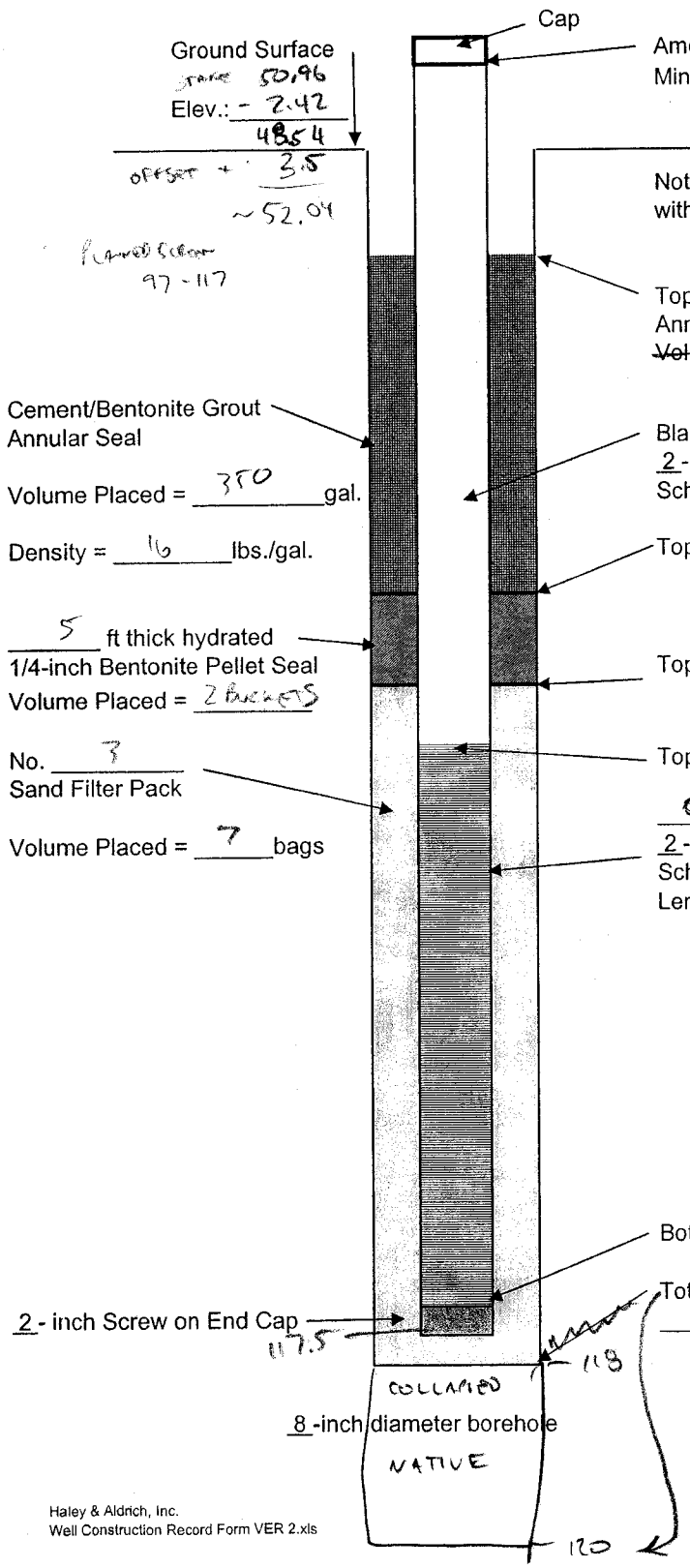
HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0083C
w 11/10/04 v 11/10/04

Dates: Start: 1030 Finish: 1600

(2) STEVE HUSTON
CME -95
PLANNED SCREEN: 97 - 117



Amendment Well Stick-up Height 3' in AGS
Min. 24-inch above ground surface

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal 45 ft bgs
~~Vol. of Grout Used ____ gal.~~

Blank casing
2 -inch diameter
Schedule 40 PVC

Top of bentonite seal 90 ft bgs

Top of sand filter pack 95 ft bgs

Top of screen 97 ft bgs

0.02 - inch Machine Sotted Screen
2 -inch diameter
Schedule ~~40~~ 80 PVC
Length = 20 ft

Bottom of Screen 117 ft bgs

Total Depth of Borehole ____ ft bgs

COMMENTS

TOP OFF GROUT TO ~4'

FILL SAND TO 93
SURGE 10 MIN. DROPPED TO 95

QA/QC: _____

Date: _____

Haley & Aldrich, Inc.
Well Construction Record Form VER 2.xls

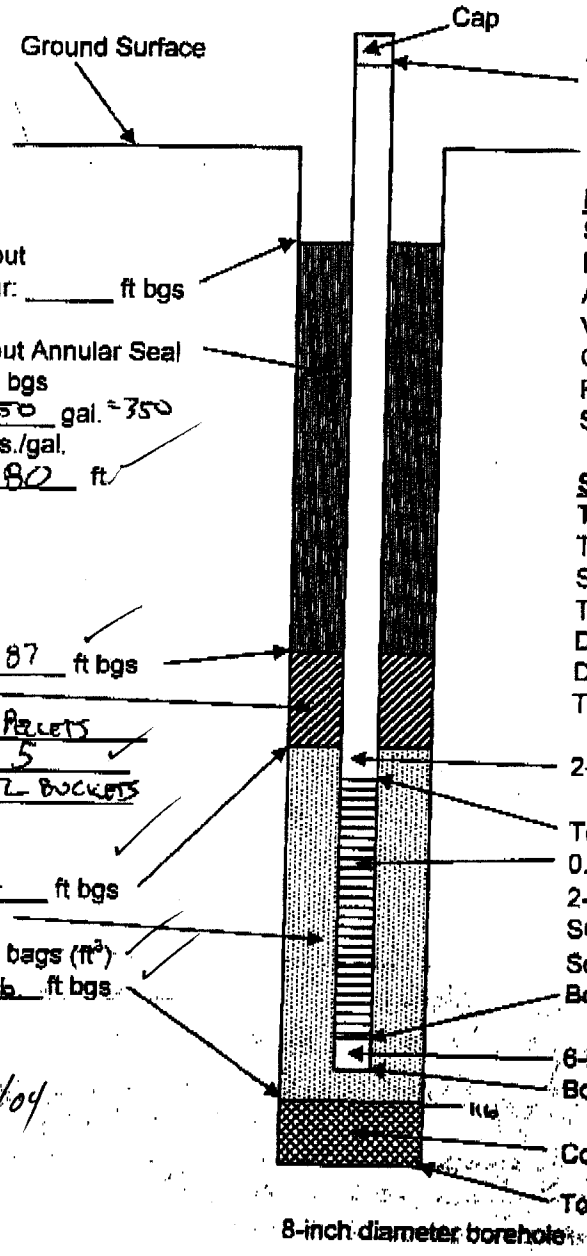
3 September 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0092C
Start Date/Time: To 12/21/04 700
Finish Date/Time: To 12/21/04 12:20
Driller/Rig: PAUL ALMANZA / CME

Amendment Well Stick-up Height (minimum 24-in) 18 inches AGS
45



Cement/Bentonite Grout
Top of grout after 24 hr: _____ ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 3 ft bgs
Volume Placed 7 x 50 gal. ≈350
Density 16 lbs./gal.
Tremie Pipe Length 80 ft

Top of bentonite seal 87 ft bgs
Bentonite Seal
Type 1/4" BENTONITE PELLETS
Thickness (5 ft min) 5
Volume Placed: 12 BUCKETS

Top of filter pack 92 ft bgs
No.3 Sand Filter Pack
Volume Placed 8 bags (ft³)
Bottom of filter pack 116 ft bgs

QA/QC: [signature]
Date: 12/22/04

ELEVATION DATA

Stake Elevation	48.79 @ CURB NEARBY
Datum Differential	0
Adjusted Stake Elevation	48.79
Vertical Offset to Stake	-0.29 EST.
Ground Elevation at Well	48.5
Planned Screen Elevation	-45 TO -65
Screen Interval (Depth)	93.5 TO 113.5

SURGE/DEPTH RECORD

TD Inside Well Before Surging	
Top of Sand Before Surging	92
Surge Time 945	15 MIN
Top of Sand After Surging	99
Distance Sand Dropped	2
DTW Inside Well After Surging	64.2 TOC
TD Inside Well After Surging	111.9 TOC

2-inch diameter SCH-40 Blank casing

Add More Sand.

Top of screen 93.5 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 113.5 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 114 ft bgs

Collapsed Native Material 2'

Total Depth of Borehole 118 ft bgs

COMMENTS

Haley & Aldrich, Inc.
20041201_Well Construction Record Form VER 3.xls

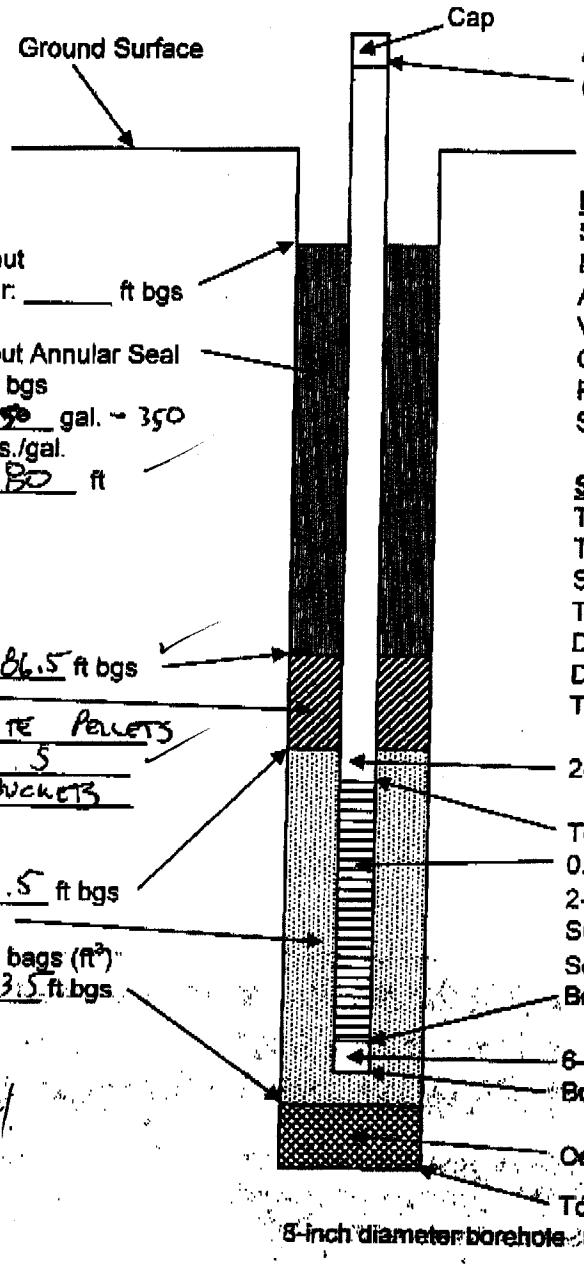
1 December 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well ID: AW0093 C
Start Date/Time: TU 12/21/04 700
Finish Date/Time: TU 12/21/04 12:20
Driller/Rig: TED NICHOLS / CME -

Amendment Well Stick-up Height (minimum 24-in) 24" inches AGS



Cement/Bentonite Grout
Top of grout after 24 hr: _____ ft bgs

Cement/Bentonite Grout Annular Seal
Filled to 2 ft bgs
Volume Placed 7 x 50 gal. ~ 350
Density 16 lbs./gal.
Tremie Pipe Length 80 ft

Top of bentonite seal 86.5 ft bgs
Bentonite Seal
Type 1/4" BENTONITE PELLETS
Thickness (5 ft min) 5
Volume Placed: 2 BUCKETS

Top of filter pack 91.5 ft bgs
No.3 Sand Filter Pack
Volume Placed 6.5 bags (ft³)
Bottom of filter pack 113.5 ft bgs

QA/QC: PB
Date: 12/22/04

ELEVATION DATA

Stake Elevation	48.79
Datum Differential	0
Adjusted Stake Elevation	48.79
Vertical Offset to Stake	-0.29 EST
Ground Elevation at Well	48.5
Planned Screen Elevation	-45 to -65
Screen Interval (Depth)	93.5 to 113.5 bgs

AT GROUND

SURGE/DEPTH RECORD

TD Inside Well Before Surging	
Top of Sand Before Surging	91
Surge Time 950 ~	15 min
Top of Sand After Surging	91.5
Distance Sand Dropped	0.5
DTW Inside Well After Surging	63.7 TOC
TD Inside Well After Surging	113 TOC

2-inch diameter SCH-40 Blank casing

Top of screen 93 ft bgs
0.020 - inch Machine Sotted Screen
2-inch diameter
SCH - 80 PVC
Screen Length 20 ft
Bottom of Screen 113 ft bgs

6-inch long Threaded End Cap
Bottom of Cap 113.5 ft bgs

Collapsed Native Material NONE

Total Depth of Borehole: 113.5 ft bgs

COMMENTS

Haley & Aldrich, Inc.
20041201_Well Construction Record Form VER 3.xls

1 December 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW 0103 C

Dates: Start: 11/8/04 Finish: 11/8/04
B70 1545
① PAUL ALMANZA
CME-85

Ground Surface
Elev.: ~48.5
STAKE 51.16
Convert from NAVD88 TO NGVD29 - 2.42
48.74

Cap

Amendment Well Stick-up Height 4.3' AGS
Min. 24-inch above ground surface

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal 62 ft bgs
Vol. of Grout Used 350 gal.

Cement/Bentonite Grout Annular Seal
Drums NU 11 7x50
Volume Placed = 350 gal.

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 89 ft bgs

5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 buckets

Top of sand filter pack 94 ft bgs
12/05 SURGE 10 MIN
12/20 SAND WD NOT DROP

No. 3
Sand Filter Pack

Volume Placed = 7 bags

Top of screen 95 ft bgs

0.02 - inch Machine Sotted Screen
2-inch diameter
Schedule ~~40~~ PVC 80
Length = 20 ft

Bottom of Screen 115 ft bgs

2- inch Screw on End Cap
115.5

Total Depth of Borehole
118 ft bgs 10 50 AM

8-inch diameter borehole

COMMENTS

QA/QC: BR
Date: 11/9/04

Haley & Aldrich, Inc.
Well Construction Record Form VER 2.xls

3 September 2004

HALEY & ALDRICH

Well Construction Record
Parcel C Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

Well No.: AW0104C
11/8/04

Dates: Start: M 11/8/04 Finish: M 11/8/04
BJO 1545
(2) JORGE GUTIERREZ
CME-75

Ground Surface

Elev.: ~51.5
STAKE: 50.95
Convert ← ~2.42
from NAVD88 48.53
To NGVD29 Datum
+3.0 DUE TO MOVING WELL ~30' WEST
~51.53

Cap

Amendment Well Stick-up Height 0 + 5 BLANK AGS
Min. 24-inch above ground surface

COMMENTS

Note: Monitoring wells to be completed with 12-inch dia. traffic rated well box

Top of Cement/Bentonite Grout Annular Seal 4.2 ft bgs
Vol. of Grout Used 400 gal.

Cement/Bentonite Grout Annular Seal
Drums 8x50 = 400
Volume Placed = 400 gal.

Density = 16 lbs./gal.

Blank casing
2-inch diameter
Schedule 40 PVC

Top of bentonite seal 88.5 ft bgs

5.5 ft thick hydrated 1/4-inch Bentonite Pellet Seal
Volume Placed = 2 Buckets

Top of sand filter pack 94 ft bgs
SURGE TO MIN
1.35 SAND MAY NOT DROP

No. Sand Filter Pack

Volume Placed = 65 bags

Top of screen 95 ft bgs

0.02 - inch Machine Sotted Screen
2-Inch diameter
Schedule ~~40~~ PVC 80
Length = 20 ft

Bottom of Screen 115 ft bgs

2 - inch Screw on End Cap
115.5

Total Depth of Borehole
118 ft bgs 11:05AM

8 -inch diameter borehole

QA/QC: PRS
Date: 11/9/04

Haley & Aldrich, Inc.
Well Construction Record Form VER 2.xls

3 September 2004

HALEY & ALDRICH

WELL DECOMMISSIONING REPORT

Well No. AW0022C

PROJECT	LOT 8 AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	C6	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP.	T. HAMMOND
CONTRACTOR	WDC EXPLORATION & WELLS	REMOVAL DATE	Th 11/11/04

Well Designation	AW0022C
Well Diameter	2" PVC 8" BOREHOLE
Decommissioning Technique	OVERDRILL W/ 8" AUGERS & THERMIE GROUT
Depth to Groundwater	73.65 - 3.7 (TOC) = 69.95
Total Depth of Well	(116.5 BORING LOG) 115.3 - 3.7 = 111.6

	Cement (Lbs. - Bags*)	Additive (Lbs. - Gals.)	Water (Gals.)	Final Quantity (Gals.)
Type	PORTLAND CEMENT TYPE II/V	VOLCLAY BENTONITE GROUT		
Manufacturer	CALIFORNIA PORTLAND CEMENT CO.	CETCO FOLIOIA ENVI. TECHNOLOGIES		
Quantity	3 BAGS	12 16	25 GAL	50 GAL

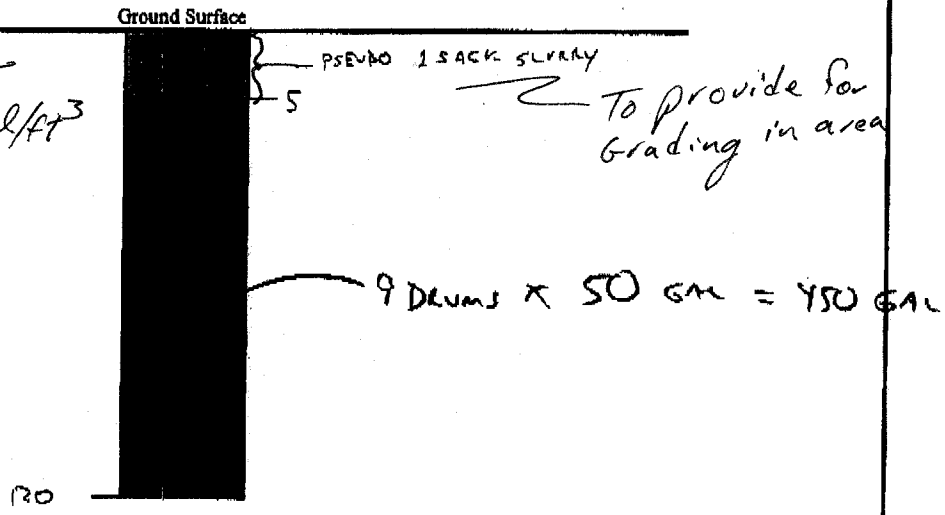
*1 Bag = 94 Lbs.

Explanation of Well Decommissioning Techniques:

A. Shallow Wells: These wells may either be removed by pulling the casing out of the ground, or plugged in-place using bentonite grout. If the well is plugged in-place, the casing must be plugged above the screen using a bentonite/cement grout (see grout placement guidelines), and the casing should be cut-off a minimum of 3 feet below the ground surface. If the well is pulled, care should be taken to compact the soils to avoid significant ground subsidence.

B. Deep Wells: Deep wells must be plugged using a bentonite/cement grout, which will fill the casing and annular space (see grout placement guidelines). The casing must be terminated 3 feet below the ground surface.

Sketch: DRILLER: STEVE HUSTON CME-95



Borehole Volume Calc.

$\frac{8''}{12''/ft} \times \frac{1}{2} \times \pi \times 120' \times 7.48\ gal/ft^3$

$= 313$ gal.

COMMENTS:

BEGIN 8:30 CUTTINGS - PORTLAND CHIPS

1130 AT 120' DEEP - ATTEMPTING TO REMOVE PVC WELL CASING. BROKE OFF ~20' BGS. TRY FISHING IT OUT W/ SPLITSPOON & DUCT-TAPE PLUG, GOT ~15' MORE.

1215 PULLING AUGERS TO RETRIEVE REMAINING WELL CASING. WILL GO BACK IN WITH WOOD PLUG TO GROUT.

1330 PULLED AUGERS & RETRIEVED ~60' SCREEN. LEAD AUGER HAD PVC CHIPS & FILTER SAND. DRILLED 4' PAST BOTTOM OF WELL ~120'

1530 FINISHED GROUTING

RRS 11/12/04

Form # 3010

HALEY & ALDRICH

WELL DECOMMISSIONING REPORT

Well No. AW0026C

PROJECT	PHASE 2 AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	19503 S. NORMANDIE AVE	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP.	T. HAMMOND
CONTRACTOR	WDC EXPLORATION	REMOVAL DATE	F 12/17/04

Well Designation	AW0026C
Well Diameter	2" PVC / 8" BOREHOLE
Decommissioning Technique	DRILLOUT W/ STINGER BIT, TREMIE GROUT
Depth to Groundwater	~~65~~ 66.02 - 1.4 STICKUP = ~~65~~ 64.62
Total Depth of Well	116 BGS

	Cement (Lbs. - Bags*)	Additive (Lbs. - Gals.)	Water (Gals.)	Final Quantity (Gals.)
Type	PORTLAND CEMENT	VOLCLAY GROUT		
Manufacturer	CALIFORNIA PORTLAND CEMENT CO	CETCO		
Quantity	3 BAG X 94 LB	12 LBS	25 GAL	50 GAL

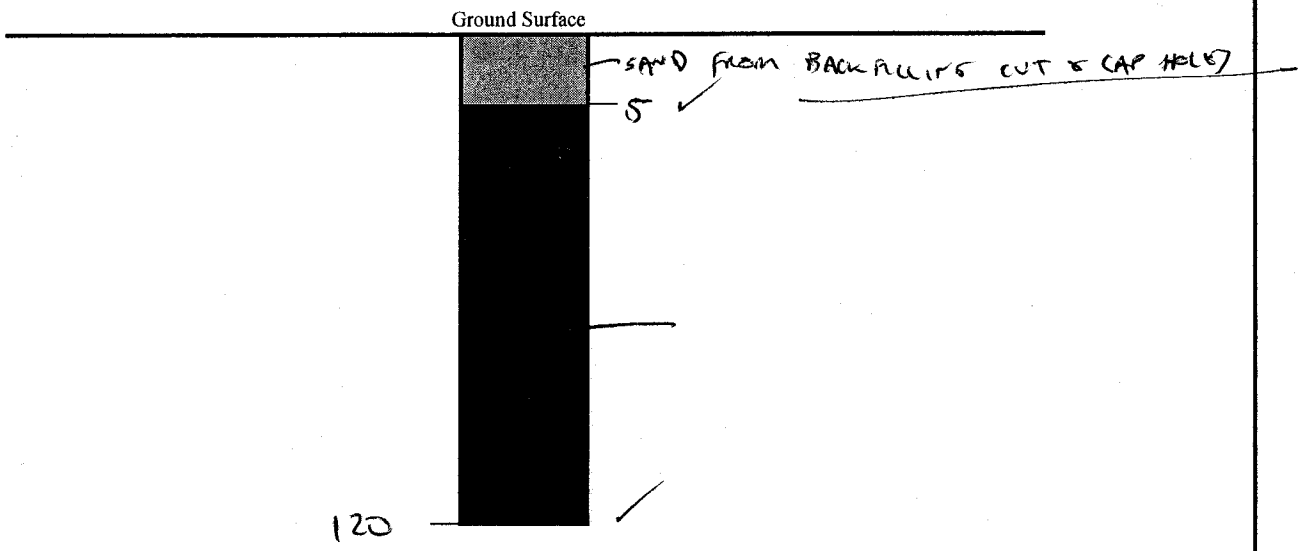
*1 Bag = 94 Lbs.

Exlanation of Well Decommissioning Techniques:

A. Shallow Wells: These wells may either be removed by pulling the casing out of the ground, or plugged in-place using bentonite grout. If the well is plugged in-place, the casing must be plugged above the screen using a bentonite/cement grout (see grout placement guidelines), and the casing should be cut-off a minimum of 3 feet below the ground surface. If the well is pulled, care should be taken to compact the soils to avoid significant ground subsidence.

B. Deep Wells: Deep wells must be plugged using a bentonite/cement grout, which will fill the casing and annular space (see grout placement guidelines). The casing must be terminated 3 feet below the ground surface.

Sketch: 7 DRUMS X 1/2 + SAND (UPPER 5')



COMMENTS: DRILLER: MIGUEL ALVARADO CME -
FRAGMENTS OF PLASTIC & FILTER PACK SAND ON 2nd TO LAST AUGER
= COMPLETELY DESTROYED

12/22/04

Form # 3010

Attachment E

Tailgate Safety Meeting Reports, Site Access Logs, and Records of Field Monitoring

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: MEET OUTSIDE GATE OR @ SW CORNER
HOSPITAL ROUTE OR DASH

Additional Comments: PPE, CHEMICAL HAZARDS, TRAFFIC SAFETY, BACKUP SPOTTERS

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Jorge E Gutierrez		W.D.C. 11-8-04
Antonio Flores		W.D.C. 11-8-04
Paul Hinnann		W.D.C - 11-8-04
Edmund O'Quinn		W.D.C - 11-8-04
Jonathan Cordle		W.D.C - 11-8-04
DENNIS CARLSON		BOEING - 11/08/04.
Javier Rios		W.D.C. 11/8/04
JOHN PARKES		TAIT ENV. 11-08-04

Meeting conducted by: TRAVIS HAMMONS Title: TS

Signature: Time: 11/8/04

Site Access Log

DATE: 11/3/04 **Page** 1 **of** 1

This Site Access Log is to be signed by all visitors to the Site.

Visitor signatures below indicate that they are aware that this is an active construction site and that they have been briefed by the Haley & Aldrich, Inc. Health & Safety Coordinator as the the potential risks and dangers associated with the Site. All visitors to work areas on the Site must wear hard hats, safety glasses, and steel-toed boots while visiting this Site.

Name (printed)	Signature	Company/Time In and Out
Edmund O'Dwyer		W.D.C - 11-08-04
[illegible]		W.D.C 11-8-04
Jonathan Cordle		WDC. 11-8-04
Jorge Gutierrez		WDC 11-8-04
Antonio Flores		W.D.C. 11-8-04
Dennis Carlson		BOEING 11/08/04
Javier Rios		W.D.C. 11/8/04
John Parkes		TAIT ENV. 11-08-04

HALEY & ALDRICH

RECORD OF FIELD MONITORING

PROJECT	C6 PARCEL A AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	1451 KNOX ST.	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP	T. HAMMOND
CONTRACTOR	WDC EXPLORATION & WELLS	DATE	M 11/8/04

Project Description: B10 - AMENDMENT WELL INSTALLATION

Task Description:

Instrument Type: (OVA, LEL, PID, etc) 1) P.D - MINIRAE PLUS CLASSIC Serial Number: SN-103972

2) Serial Number:

Calibration and/or operational check completed as per manufacturers instructions: [X] Yes [ ] No

Time completed: 9:30 PM

Weather conditions: CLOUDY & DRIZZLE

Reading Type:(1)	Level: (ppm or indicate units)	Time:	PPE Level:(2)
① BZ / 3" (30')	0.1 / 0.5	9:45	D
② BZ / 3" (20')	0.1 / 1.0	9:45	D
① BZ / 3" (75')	0.1 / 1.2	10:15	D
② BZ / 3" (55')	0.1 / 1.0	10:15	D
① BZ / 3" 115'	0.1 / 0.1	10:45	D
② BZ / 3" 105'	0.1 / 0.1	10:45	D

1. Key to Reading Types:
   Breathing Zone-BZ
   Perimeter-P
   Surface-S
   3" = 3" from soil surface
2. EPA Levels B, C or D

① PAUL ALMANZA CREW
② JORGE GUTIERREZ CREW

Comments:

The following information should be maintained for all projects requiring air monitoring.

Form # 4003

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting:
NONE, WATCH SLIPPERY FOOTING. KEEP CUTTINGS / MUD CLEANED UP

Location of (or changes in the location of) evacuation routes/safe refuge areas:
NONE. MEET @ GATE OR SW CORNER.
HOSPITAL ROUTE

Additional Comments: PPE, CHEMICAL HAZARDS (TCE, ? ARSENIC), BACKUP SPOTTERS, FORKLIFT UP & DOWN HILL - STAY CLEAR

☑ DON'T DRIVE IN MUDDY AREAS - FILL RUTS IN

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Jonathan Cordle	Jonathan Cordle	WDC
Edmund O'Dwyer	[illegible]	WDC 11-09-04
Paul Almanza	[illegible]	WDC 11-09-04
Dennis Carlson	[illegible]	BOEMts.
Steven Huston	[illegible]	WDC 11-9-4
Quintin Hoeppner	[illegible]	WDC 11-9-04

Meeting conducted by: TRAVIS HAMMOND Title: ENG

Signature: [illegible] Time: TU 11/9/04

Site Access Log

DATE: Tu 11/9/04 **Page** 1 **of** 1

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Name (printed)	Signature	Company/Time In and Out
Jonathan Cordle	Jonathan Cordle	WDC 11-9-04
Edmund O'Owen	[illegible]	WDC 11-09-04
Paul Alumnum	[illegible]	W.D.C 11-09-04
Dennis Carlson	Dennis Carlson	BOEING
Quintin Hoeppner	Quintin Hoeppner	WDC 11-9-04
Steven Huston	Steven Huston	WDC 11-9-04

HALEY & ALDRICH

RECORD OF FIELD MONITORING

PROJECT	PARCEL A AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	C6	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP	T. HAMMOND
CONTRACTOR	WDC EXPLORATION	DATE	TU 11/9/04

Project Description: INSTALL AMENDMENT WELLS

Task Description:

Instrument Type: (OVA, LEL, PID, etc) 1) PID-MINIRAE PLUS CLASSIC Serial Number: 103972

2) Serial Number:

Calibration and/or operational check completed as per manufacturers instructions: ☑ Yes ☐ No

Time completed: 8:30 ISO → 100 PPM CAL CHECK 11/10/04 8:30 CAL CHECK → 99.5 PPM 11/12/04 815

Weather conditions: CLOUDY & WARM 70°

	Reading Type:(1)	Level: (ppm or indicate units)	Time:	PPE Level:(2)
11/9	① BZ/3" (25')	0.1/0.1	830	D
	① 11c BZ/3" (110')	0.1/0.1	1000	D
	② 12 BZ/3" (65')	0.1/0.1	12:20	D
11/10	① 6c BZ/3" (60')	0.1/UP TO 2.0	850 11/10/04	D
	② 8c BZ/3" (90')	0.1/0.1	900	D
11/11	① 6c BZ/3" (70')	0.1/0.1	930 11/11/04	D
	② 22c BZ/3" (50')	0.1/0.1	935	D
11/12	① 24B BZ/3" (20')	0.1/0.1	825 11/12/04	D
	② 40C BZ/3" (50')	0.1/0.1	825	D
	① 24B BZ/3" (70')	0.1/0.1	855	D
	② 40C BZ/3" (90')	0.1/UP TO 31	855	D

1. Key to Reading Types:
   Breathing Zone-BZ
   Perimeter-P
   Surface-S
   3" = THREE INCHES FROM SOIL SURFACE
2. EPA Levels B, C or D

① PAUL'S CREW
② STEVE'S CREW

Comments:

The following information should be maintained for all projects requiring air monitoring.

Form # 4003

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: NONE

Additional Comments: PPE, CHEMICAL HAZARDS, BACK UP SPOTTERS WATCH FOR MUD

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Quintin Hoeppner	Quintin Hoeppner	WDC
Paul Valmudes	[illegible]	WDC
Edward O'Dwyer	[illegible]	WDC 11-10-04
Jonathan Cordle	Jonathan Cordle	WDC
Scott Zachary	[illegible]	HA 11-10-04
Dennis Jamison	Dennis Jamison	Boeing 11/10/04

Meeting conducted by: TRAVIS HAMMOND Title: ENGINEER

Signature: [illegible] Time: 11/10/04

Site Access Log

DATE: W 11/10/04 **Page** 1 **of** 1

This Site Access Log is to be signed by all visitors to the Site.

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Name (printed)	Signature	Company/Time In and Out
Quintin Hoggan	Quintin Hoggan	WDC 11-10-04
Paul Mauzhagg	[illegible]	WDC 11-10-04
Jonathan Cordle	Jonathan Cordle	WDC 11-10-04
Edmund O'Dwyer	[illegible]	WDC 11-10-04
Steven Huston	[illegible]	WDC 11/10/04
Scott Hennard	[illegible]	H+A 11/10/04
Dennis Jamison	Dennis Cas[illegible]	BOEING 11/10/04

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: _____
NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: _____
NONE

Additional Comments: PPE, CHEMICAL HAZARDS, BACKUP SPOTTERS, FINAL CLEANUP - DECON, CLEAN AROUND ROLLOFFS

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Jonathan Cordle	Jonathan Cordle	WDC · 11-11-04
Steven Hunter	Steven Hunter	WDC 11/11/04
Paul Alvarez	[illegible]	WDC 11/11/04
Quintin Hoggner	Quintin Hoggner	WDC 11-11-04
Edmund O'Dwyer	Edmund O'Dwyer	WDC. 11-11-04

Meeting conducted by: TRAVIS HAMMOND Title: E&S

Signature: [illegible] Time: Th 11/11/04 7:15

Site Access Log
Parcel C Groundwater Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

DATE: Th 11/11/04 **Page** 1 **of** 1

This Site Access Log is to be signed by all visitors to the Site.

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Name (printed)	Signature	Company/Time In and Out
Jonathan Cordle	Jonathan Cordle	WDC 11-11-04
Steven Hutton	Steven Hutton	WDC 11/11
~~Steven~~ Paul Hinman		W.D.C. 11/11
Quintin Hoeppner	Quintin Hoeppner	W.D.C 11/11
Edmund O'Day	Edmund O'Day	W.D.C 11-11-04

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE.

Location of (or changes in the location of) evacuation routes/safe refuge areas: NONE.

Additional Comments: PPE, CHEMICAL HAZARDS, FORKLIFT SAFETY, BACKUP SPOTTERS, GROUTING - TYVEK/DUST MASK/GLASSES

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Steven Huston	Steven Huston	WDC
Quintin Hoggard	Quintin Hoggard	WDC
Jonathan Cobble	Jonathan Cobble	WDC
Paul Wimmann	[illegible]	WDC
Edmund O'Dwyer	[illegible]	W.D.C 11-12-04
DENNIS CARLSON	Dennis Carlson	BOEING

Meeting conducted by: TRAVIS HAMMOND Title: ENG

Signature: [illegible] Time: F 11/12/04 7:15

Site Access Log
Parcel C Groundwater Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

DATE: F 11/12/04 **Page** 1 **of** 1

This Site Access Log is to be signed by all visitors to the Site.

Visitor signatures below indicate that they are aware that this is an active construction site and that they have been briefed by the Haley & Aldrich, Inc. Health & Safety Coordinator as the the potential risks and dangers associated with the Site. All visitors to work areas on the Site must wear hard hats, safety glasses, and steel-toed boots while visiting this Site.

Name (printed)	Signature	Company/Time In and Out
Steven Huston	Steven Huston	WPC 7:00
Quinton Hoppper	Quinton Hopper	WPC 7:00
Jonathan Cordle	Jonathan Cordle	WPC 7:00
Paul Hmanna	[illegible]	WPC 7:00
Edmund O'Owyer	[illegible]	WPC 7:00 11-12-04
DENNIS CARLSON	Dennis Carlson	BOEING.

HALEY & ALDRICH

RECORD OF FIELD MONITORING

PROJECT	PHASE 2 AMENDMENT WELLS - PARCEL A	H&A FILE NO.	28882-503
LOCATION	19503 S. NORMANDIE	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP	T. HAMMOND
CONTRACTOR	WDC	DATE	TU 12/13/04 -

Project Description: BIOREMEDIATION

Task Description: WELL INSTALLATION

Instrument Type: 1) MINIRAE PLUS CLASSIC PID — Serial Number: 103990
(OVA, LEL, PID, etc) 2) — Serial Number:

Calibration and/or operational check completed as per manufacturers instructions: ☒ Yes ☐ No

Time completed: TU 12/14/04 1030 W 12/15/04 SA 12/18/04 715

Weather conditions: CLEAR & CALM 75°

Reading Type:(1)	Level: (ppm or indicate units)	Time:	PPE Level:(2)
BZ / 3"	0.1 / 0.1	10:50	D
BZ / 3	0.1 / 0.1	11:20	D
BZ / 3" 40'	0.1 / 0.2	8:45	D
BZ / 3" 65'	0.1 / 0.1	9:00	D
BZ / 3" 40'	0.1 / 0.1	14:15	D
(2) BZ / 3" 20'	0.1 / 0.1	9:00	D
(2) BZ / 3" 70'	0.1 / 0.1	935	D
(2) BZ / 3" 100'	0.1 / 0.1	950	D
(1) BZ / 3" 10'	0.1 / 0.1	950	D
(1) 81C BZ / 3" 30'	0.1 / 0.1	16:55	D
(1) BZ / 3" 115	0.1 / 0.1	9:00	D
(2) BZ / 3" 45	0.1 / 0.2	9:45	D
(3) BZ / 3" 40	0.1 / 0.8	925	D
(1) BZ / 3" 10'	0.1 / 0.1	800	D
(2) BZ / 3" 75	0.1 / up to 14	800	D

AW0001UB DEPTH 20' 70

AW0003UB 12/14/04 BZ / 3" 40' 65'

AW0049C 12/15/04 BZ / 3" 40'

12/16/04 (2) 49C 70 (2) 59C

F12/17/04 (1) 81C (2) 4UB (3) 26C

A 12/18/04 (1) LAR 2UB (2) 5UB

1. Key to Reading Types:
   Breathing Zone-BZ — 3" - 3-INCHES FROM SOIL CUTTINGS AS THEY ARE COMING TO THE SURFACE
   Perimeter-P
   Surface-S
2. EPA Levels B, C or D

Comments:

The following information should be maintained for all projects requiring air monitoring.

Form # 4003

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE -

Location of (or changes in the location of) evacuation routes/safe refuge areas: NONE - MEET @ TRAILER

Additional Comments: PPE, TCE CHEMICAL HAZARDS, TRAFFIC SAFETY, HOUSEKEEPING (TRASH / CUTTINGS), MEASURE EVERYTHING, MUD - SLIPS BACKUP SPOTTERS, AIR MONITORING

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

	Name (printed)	Signature	Company
TU 12/14/04	T. Nichols		WDC
	Quintin Hoeppner	Q. Hoeppner	WDC
	Juan G Alvarez		WDC
	John Ivansky		Spectrum Geo.
	David Taylor		" "
W 12/15/04	T. Nichols		WDC
	Juan G Alvarez		WDC
	Quintin Hoeppner	Q. Hoeppner	WDC
	Dennis Carlson		Boring
	Seth Zachary		H&A
	Bob Nix		WDC

Meeting conducted by: TRAVIS HAMMOND Title: ENGINEER

Signature: Time: 9:00 TU 12/14/04

Site Access Log
Parcel C Groundwater Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

DATE: Tu 12/14/04 **Page** 1 **of** 1

This Site Access Log is to be signed by all visitors to the Site.

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	Name (printed)	Signature	Company/Time In and Out
Tu 12/14/04	Juan G Alvarez		WDC
	Quintin Hoeppner		WDC
	T. Nichols		WDC
	David Taylor		Spectrum
	John Ivanstoy		Spectrum
W 12/15/04	Quintin Hoeppner	Q Hoeppner	WDC
	T. Nichols		WDC
	Juan G Alvarez		WDC
	Scott Tanaka		MFA
	Bob Nix		WDC

Site Access Log
Parcel C Groundwater Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

DATE: Th 12/16/04 F 12/17/04 **Page** 1 **of** _____

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	Name (printed)	Signature	Company/Time In and Out
	Ignacio Gutierrez	Ignacio Gutierrez	WDC DRILL
	Albert Grant	[illegible]	WDC
	T. Nichols	[illegible]	WDC
	Nick Russell	[illegible]	WDC
	Quintin Hoggna	[illegible]	WDC
	Juan G Alvarez	[illegible]	WDC
	Dennis Carlson	[illegible]	WD
	T. Nichols	[illegible]	
F 12/17/04	Ignacio Gutierrez	[illegible]	W.D.C
	Albert Grant	[illegible]	WDC
	Nick Russell	[illegible]	WDC
	Quintin Hoggna	[illegible]	WDC
	Antonio Flores	[illegible]	W.D.C
	Miguel Alvarado	[illegible]	W.D.C
	Victor Delmendo	[illegible]	W.D.C.
	Albert Grant	[illegible]	WDC
SA 12/18/04	Michael Butler	[illegible]	W.D.C
	Jonathan Cordle	Jonathan Cordle	WDC
	Ignacio Gutierrez	Ignacio Gutierrez	W.D.C
	Steve Huston	[illegible]	WDC
	Nick Russell	[illegible]	WDC
	Dennis Carlson	Dennis Carlson	Boeing

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: _____
NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: _____
NONE - MEET @ TRAILER

Additional Comments: PPE, CHEMICAL HAZARDS, TRAFFIC SAFETY, HOUSEKEEPING

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Ignacio Gutierrez	Ignacio Gutierrez	WDC
J. Nields	[illegible]	WDC
Albert Grant	[illegible]	WDC
Nick Russell	[illegible]	WDC
Quintin Hoeppner	[illegible]	WDC
Juan G Alvarez	[illegible]	WDC
Dennis Carlson	Dennis Carlson	
F 12/17/04		

Meeting conducted by: Travis Hammond Title: Engineer

Signature: [illegible] Time: Th 12/16/04
F 12/17/04

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: _____
NONE - WATCH MUD IN THE WORK AREA

Location of (or changes in the location of) evacuation routes/safe refuge areas: _____
NO CHANGE (1) MEET @ N. JOB TRAILER (2) S. JOB SITE TRAILER
REVIEW HOSPITAL MAP

Additional Comments: PPE REQUIRED, CHEMICAL HAZARDS - TCE, TOLUENE, MEK
TRAFFIC SAFETY, HOUSEKEEPING - ALL CUTTINGS IN BIN, NO TRASH IN SOIL, TAKE TRASH
GOOD CLEANUP @ END OF DAY, BACK UP SPOTTERS

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
T. Williams	[illegible]	WDC
Albert Grant	[illegible]	WDC
Nick Russell	[illegible]	WDC
Ignacio Gutierrez	[illegible]	WDC
Quintin Hoeppner	[illegible]	WDC
Antonio Flores	[illegible]	WDC
Miguel Alvarado	[illegible]	WDC
Victor Zermeno	[illegible]	WDC
Michael [illegible]	[illegible]	WDC
Jonathan Cordle	Jonathan Cordle	WDC
Steven Huston	Steven Huston	WDC
Albert Grant	[illegible]	WDC
Ignacio Gutierrez	Ignacio Gutierrez	WDC
Nick Russell	[illegible]	WDC
Dennis Carlson	Dennis Carlson	Boeing

SA 12/18/04

Meeting conducted by: TRAVIS HAMMOND Title: ENG.

Signature: [illegible] Time: F 12/17/04

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: _____
NONE - FIRST DAY OF DEVELOPMENT

Location of (or changes in the location of) evacuation routes/safe refuge areas: _____
MEET AT NORTH JOB TRAILER

Additional Comments: PPE, CHEMICAL HAZARDS, TRAFFIC SAFETY, HOUSEKEEPING

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Jonathan Stewart		WDC
DENNIS CARLSON	Dennis Carlson	BOEING

Meeting conducted by: TRAVIS HAMMOND Title: ENGINEER

Signature: _____ Time: M 12/20/04 730

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: _____
NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: _____
MEET @ N. TRAILER
HOSPITAL MAP ON DASH

Additional Comments: PPE, CHEMICAL HAZARDS, HEAVY EQUIPMENT TRAFFIC, HOUSEKEEPING (TRASH / SOIL / WATER), AIR MONITORING

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Edmund O'Owen	Edmund O'Owen	WDC
PAUL HIMANEN	Paul H	WDC
T. NICHOLS	[illegible]	WDC
RICHARD HERNANDEZ	Richard Hernandez	WDC
Quintin Hoeppner	Q Hoeppner	WDC
THOMAS J. CHECK	Thomas J. Check	WDC
DENNIS CARLSON	Dennis Carlson	BOEING

Meeting conducted by: TRAVIS HAMMOND Title: ENGINEER

Signature: [illegible] Time: TU 12/21/04

Site Access Log
Parcel C Groundwater Remediation Well Installation Program
Former Boeing C-6 Site
Los Angeles, California

DATE: 12/21/04 **Page** 1 **of** 1

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Name (printed)	Signature	Company/Time In and Out
TRAVIS HAMMOND		H&A 7:00
Edmund O'Quyen		WDC
PAUL Almanza		W.D.C
T. NICHOLS		WDC
RICHARD HERNANDEZ		WDC
Quintin Hoeppner		WDC
Thomas J. CHECK		WDC
DENNIS CARLSON		BOEING

HALEY & ALDRICH

RECORD OF FIELD MONITORING

PROJECT	C6 PHASE 2 AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	19503 S. NORMANDIE AVE	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP	T. HAMMOND
CONTRACTOR	WDC	DATE	Tu 12/21/04

Project Description: BIO REMEDIATION SYSTEM

Task Description: WELL INSTALLATION

Instrument Type: 1) MINIRAE PLUS CLASSIC PID — Serial Number: 103990 CAL CHECK -101

(OVA, LEL, PID, etc) 2) — Serial Number:

Calibration and/or operational check completed as per manufacturers instructions: ☒ Yes ☐ No

Time completed: 7:15

Weather conditions: CLEAR & BREEZY 50's -

Reading Type:(1)	Level: (ppm or indicate units)	Time:	PPE Level:(2)
PID BATTERY DIED.			
NOT REPLACED TILL 12:15			

1. Key to Reading Types:
   Breathing Zone-BZ
   Perimeter-P
   Surface-S

2. EPA Levels B, C or D

Comments:

The following information should be maintained for all projects requiring air monitoring.

Form # 4003

Tailgate Safety Meeting Report

The Tailgate Safety Meeting is to supply Haley & Aldrich staff information regarding potential hazards that may be encountered at the site.

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the location of) evacuation routes/safe refuge areas: MEET @ N. TRAILER
HOSPITAL MAP ON DASH

Additional Comments: PPE, CHEMICAL HAZARDS, HOUSE KEEPING, HEAVY EQUIPMENT, AIR MONITORING.

Attendees signatures below indicate that they have attended a briefing on the requirements of the Haley & Aldrich, Inc. Health & Safety Plan for the on-site work tasks, and declare that they understand the provisions and procedures set forth herein while working on this site.

Name (printed)	Signature	Company
Jonathan Stewart		WDC
T. NICHOLS		WDC
DENNIS CARLSON		BOEING
Th 12/23/04 Jonathan Stewart		WDC
VICTOR ZERMENO		WDC

Meeting conducted by: TRAVIS HAMMOND Title: OPS

Signature: Time: W 12/22/04

HALEY & ALDRICH

RECORD OF FIELD MONITORING

PROJECT	C6 PHASE 2 AMENDMENT WELLS	H&A FILE NO.	28882-503
LOCATION	19503 S. NORMANDIE	PROJECT MGR.	S. ZACHARY
CLIENT	BOEING	FIELD REP	T. HAMMOND
CONTRACTOR	WDC - JOHN ATHAN STEWART	DATE	W 12/22/04

Project Description: BIO AMENDMENT SYSTEM

Task Description: WELL DEVELOPMENT

Instrument Type: 1) MINIRAE PLUS CLASSIC PID Serial Number: 107981
(OVA, LEL, PID, etc) 2) Serial Number:

Calibration and/or operational check completed as per manufacturers instructions: ☒ Yes ☐ No

Time completed: 830

Weather conditions: CLOUDY & CALM WIND

Reading Type:(1)	Level: (ppm or indicate units)	Time:	PPE Level:(2)
BZ	0.1	918	D
T	UP TO 30 PPM	925	D
BZ	0.1	935	D
T	UP TO 46	945	D
BZ	0.1	1355	D
T	UP TO 40	1355	D

1. Key to Reading Types:
   Breathing Zone-BZ
   Perimeter-P
   Surface-S

   TANK = INLET TO WATER HOLDING TANK

2. EPA Levels B, C or D

Comments:

The following information should be maintained for all projects requiring air monitoring.

Attachment F

Driller's Daily Reports

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: Los Angeles RIG #: 41 DATE: 11/8/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	5:30	.5	Shop
5:30	7:00	1.5	Travel
7:00	9:00	2.0	Stand-By
9:00	9:30	.5	Rig set-up
9:30	—		Drill to 118'ft set-2" well
—	1:00	3.5	Sand ~~set~~ Surge Seal set well 115'ft
1:00	1:30		Lunch
1:30	3:30	2.0	Grout.
3:30	4:30	1.0	Clean-up decon

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand 3#	Sack/Foot	8 /
Bentonite Pellets —	Bucket/Feet	2 /
Cement —	Sack/Foot	21 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout —	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	1
Slip Cap	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	1

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

Stand By
2.0 hr.

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW-0103C	0	118'	
			118'Ft

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80	2"	95'ft	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20'ft			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: Paula SIGNATURE
RIG HAND: Ed RIG HAND: Johnthan

DAILY TOUR REPORT

WDC JOB #: BOE 24 A LOCATION: KNX Stallard Gateway RIG #: 149 DATE: 11 18 04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	7:00	2	travel
7:00	9:00	2	StandBy Waiting for spectrum to Clear Location of Underground Utilities
9:00	12:30	3.5	Set UP Rig & Drill with 8" Augers Not Sampling from 0 to 117' set 2" Well at 115' sanding well
12:30	1:00	.5	Surge Well & Chipet to 89' with pellets Large pellets Hydrated
1:00	1:30	.5	Lunch
1:30	3:30	2	Grouting with tremie pipe portland Cement pull 10' of Augers at the time & pump portland to when Augers are full
3:30	4:45	1.25	Decon Augers & Cleaning tools put everything away washing & Decon load Augers
4:45	7:00	2.25	travel

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	7 /
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	24 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	0 /
Volclay Grout	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	1 X 2"
Slip Cap	Each	1 X 2"
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	1
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
	0	115'	115'
		total	115'

COMMENTS

Drill Hole to 115' Not Sampling use 120' of Pipe Client wants 5' About Grade Surface

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quant.
Blank	PVC MS SS HDPE	5 10 40 80	2"	100'	Per Diem	Prsn Day	
Blank	CROSS QUICK PVC MS SS HDPE	5 10 40 80	2"		Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20'			

CLIENT REP: [illegible] SIGNATURE
CLIENT JOB #: 28992 - 502
OPERATOR: Jorge SIGNATURE
RIG HAND: Javier RIG HAND: Tony

Tues [redacted]

DAILY TOUR REPORT

WDC JOB #: BOE 24A LOCATION: boeing C-6 RIG #: 145 DATE: 11 19 1

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
6:00	10:30		Load auger change main line
10:30	12:30	2.0	Travel to site
12:30			Drill to 120' install 2" well install seal
			115.5
	5:30		

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	7 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	2 / 5'
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bolclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	1
Slip Cap	Each	1
Expansion Plug	Each	
_____" Monument	Each	none
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW0720	0	115.5	120

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	100'	Per Diem	Prsn Day	2
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80		20			

CLIENT REP: [illegible] SIGNATURE
CLIENT JOB #: 28882-502
OPERATOR: Steven Hawkes
RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: boe24a LOCATION: Los Angeles RIG #: 141 DATE: 1/19/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00			on site
7:00	8:00	1.0	Rig setup
8:00	—		drill 8" boring to 118' ft.
—	11:30	3.5	Sand Surge
11:30	12:00	.5	Stand-by seal setwell 113.5' ft
12:00	1:00	1.0	grout
1:00	1:30		Lunch
1:30	3:00	1.5	finish grouting
3:00	4:30	1.5	decon clean up

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand 3#	Sack/Foot	8 /
Bentonite Pellets	Bucket/Feet	2 /
Cement —	Sack/Foot	20 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout —	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	1
Slip Cap	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW0071C	0	118'	
			118' ft

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80	2"	95 ft	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20 ft			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: Paul A SIGNATURE
RIG HAND: ED RIG HAND: Johnston

DAILY TOUR REPORT

Wed

WDC JOB #: BOE24A LOCATION: boeing C-6 RIG #: 145 DATE: 11/1/01

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00			grout well with tremie pipe + pull auger move
			rig set up Drill to 120' install 2" well at 116
			sand surge install seal pull out + Backfill portland
			clean up
	5:30		

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	8 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	7 /
Cement	Sack/Foot	4/2 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout	Sack/Foot	4 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	2
Slip Cap	Each	2
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
MW0083C	0	117	120

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	100'	Per Diem	Prsn Day	2
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20'			

CLIENT REP: SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

Thurs

WDC JOB #: LOCATION: Boeing RIG #: 145 DATE: 1/ 1 11 1

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
1100			Drill out & remove 1- 117' 2" well backfill parking
			clean up
	5130		

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	30 /
Bentonite Powder	Sack/Foot	4 /
Bentonite Chips	Sack/Foot	/
Holiday Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW0022	0	170	170'
Abandon			

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	2
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: 62e 24 A LOCATION: Los Angeles RIG #: 141 DATE: 11/11/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00			On Site
7:00	8:00	1.0	Rig set up
8:00	—		drill 8" boring to 118'
—	—		sand surge & lots of sand come
	12:00	4.0	in
12:00	12:30	.5	seal: set up
12:30	1:00		lunch well set at 114 ft
1:00	4:00	3.0	grout up boring to ~~[illegible]~~ top
4:00	—		clean up decon auger
—	5:30	1.5	pump water into baker tank

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand 34	Sack/Foot	7 /
Bentonite Pellets —	Bucket/Feet	2 /
Cement —	Sack/Foot	22 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout —	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap —	Each	1
Slip Cap —	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DATE W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW0060C	0	118'	
			118 ft

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80	2"	91 ft	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	27 ft			

CLIENT REP: [illegible] SIGNATURE
CLIENT JOB #: 23882-503
OPERATOR: [illegible] SIGNATURE
RIG HAND: [illegible] RIG HAND: [illegible]

DAILY TOUR REPORT

Friday

WDC JOB #: BOE 24A LOCATION: Boeing C-6 RIG #: 145 DATE: 11/12/

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00			setup Drill to 120' install 113' 2" well surge install
	12:30	5.5	seal pull out + backfill portland
12:30	1:00	.5	Lunch
1:00			clean up site
	4:00	3.0	
4:00			
			Travel to shop
	6:30		

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	9 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	2 /
Cement	Sack/Foot	21 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bioclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	
Centralizers	Each	
Threaded Cap	Each	1
Slip Cap	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

1/2 wait for seal

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
Auger	0	113	120'

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	100	Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: Sec 24 A LOCATION: Los Angeles RIG #: 141 DATE: 11/2/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00			on site
7:00	8:00	1.0	Rig set up
8:00	—		drill 8" boring to 88'ft.
—	10:00		set well At 85'ft sand surge
11:00	11:30	.5	Stand-by seal
11:30	1:00	1.5	grout up
1:00	1:30		Lunch
1:30	—		clean up - decon
—	4:00	2.5	pump water into baker tank
			load truck
4:00			

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand 3#	Sack/Foot	8 /
Bentonite Pellets —	Bucket/Feet	2 /
Cement —	Sack/Foot	15 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout —	Sack/Foot	2 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap —	Each	1
Slip Cap —	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums —	Each	2
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW05246	0	88'	
			88'ft

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80	2"	65'ft	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20'ft			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: Paul A SIGNATURE
RIG HAND: Ed RIG HAND: Johnathan

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: BOEING C-6 RIG #: 154 DATE: 12/14/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	5:30	.5	LOAD, FILL WATER TANKS
5:30	7:00	1.5	TRAVEL TO SITE
7:00	8:45	1.75	SITE WALK W/ CLIENT + SUPERINTENDENT, UNLOAD CONTINENTAL
8:45	9:15	.5	M+S
9:15	9:45	.5	HAND AUGER FIRST LOCATION (1-UB) TRIANGLE PATTERN TO 3'
9:45	10:30	.5	POST HOLE TO 3.5', HAND AUGER TO 4', HIT MORE RUBBLE FILL
10:30	12:30	2.0	DRILL FROM 0' TO 85'
12:30	1:00	.5	STANDBY (OK TSH - H_2O LEVEL?)
1:00	1:30	.5	LUNCH
1:30	3:00	1.5	SET FILTER PACK, + BENTONITE SEAL (SURGE + CLEAN OUT WELL - .5 HR)
3:00	4:00	1.0	LOAD TRUCK @ SITE, CLEAN UP

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand #3	Sack/Foot	9 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	— /
Cement	Sack/Foot	0 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	3 /
Bentoclay Grout	Sack/Foot	0 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap 2"	Each	1
Slip Cap	Each	
Expansion Plug	Each	—
_____" Monument	Each	
_____" Flush Cover	Each	—
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	—
Core Boxes	Each	
Drums	Each	—
Visqueen	Roll	—

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) In Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
1-UB	0	85	85'

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	65	Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: SIGNATURE
CLIENT JOB #: 28982-503
OPERATOR: SIGNATURE
RIG HAND: RIG HAND: JUAN

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: BOE C-6 RIG #: 154 DATE: 12/15/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00	8:00	1.0	GROUT UP (1-UB) D-CON, MOVE TO (3-UB)
8:00	11:00	3.0	DRILL FROM 0' TO 87' SET WELL @ 84'
			SET BENTONITE SEAL
11:00	11:30	.5	D-CON AUGER
11:30	12:30	1.0	GROUT
12:30	1:00	.5	CLEAN UP
1:00	1:30	.5	LUNCH
1:30	6:30	5.0	DRILL FROM 0' TO 116', SET 2" WELL @ 113' (49C)
6:30	7:00	.5	CLEAN UP, SECURE RIG

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand 1/8	Sack/Foot	15 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	2 /
Cement	Sack/Foot	24 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	3 /
Bioclay Grout	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap 2"	Each	1
Slip Cap	Each	
Expansion Plug	Each	—
_____" Monument	Each	
_____" Flush Cover	Each	—
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	—
Core Boxes	Each	
Drums	Each	—
Visqueen	Roll	—

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
3-UB	0	87'	87'
49C	0	116	116'

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	150	Per Diem	Prsn Day	3
Blank SCREEN	PVC MS SS HDPE	5 10 40 80	2"	20	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 78882-507
OPERATOR: [signature] SIGNATURE
RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: BOE 24A LOCATION: BOE C-6 RIG #: 154 DATE: 12/16/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
7:00	8:00	1.0	GROUT UP 49C
8:00	9:00	1.0	D-ICON MOVE TO (70C)
9:00	12:45	3.75	DRILL FROM 0' TO 114', SET 2" WELL @113.5'
			SET BENTONITE SEAL
12:45	1:15	.5	LUNCH
1:15	5:30	4.25	GROUT (70C) MOVE TO (81C)
			DRILL FROM 0' TO [redacted]
			50'
5:30	8:00	2.5	DRIVE TO SHOP LOAD 154, UNLOAD 248
			(QUINTON + JUAN)
			(7:00 - 8:00)

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand #3	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets 1/4"	Bucket/Feet	2 /
Cement	Sack/Foot	21 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout	Sack/Foot	1 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap 2"	Each	1
Slip Cap	Each	
Expansion Plug	Each	—
_____" Monument	Each	
_____" Flush Cover	Each	—
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) In Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
70C	0	114	114
~~74C~~	0	50	50
81C			

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	95	Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80	~~[illegible]~~	~~[illegible]~~	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: [signature] SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: [signature] SIGNATURE

RIG HAND: QUINTON RIG HAND: JUAN

DAILY TOUR REPORT

WDC JOB #: B0824A LOCATION: L.A RIG #: 148 DATE: 12/17/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:30	7:00	1:30	SHOP
7:00	8:30	1.30	TRAVEL TO SHOP
8:30	9:00	.30	H & S AND STOP MEETING
9:00	1:00		DRILL OUT A 120' 2" WELL, TREMIE portland cement from bottom up pull 10' of auger and top w/portland all the way out clean up
1:00	1:30	.30	LUNCH
1:30	3:00	1.30	DRIVE BACK TO SHOP

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	22 /
Bentonite Powder	Sack/Foot	2 /
Bentonite Chips	Sack/Foot	/
Volclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	
STEEL/WOOD plug	1	1

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) In Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
MW0020	0	120	120

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: SIGNATURE

CLIENT JOB #: 28[illegible]82-503

OPERATOR: SIGNATURE

RIG HAND: VICTOR RIG HAND:

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: C-6 RIG #: 154 DATE: 12/17/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	7:00	2.0	LOAD + DRIVE TO SITE (QUINTON + ~~[illegible]~~ TONY)
7:00	10:30	3.5	DRILL FROM 50' TO 114' SET WELL @ 113.5 (TSH ~~72C~~ 81C)
			SET SEAL
10:30	11:30	1.0	CLEAN UP AROUND SITE CLEAN OUT D-CON
11:30	3:00	3.5	GROUT UP (79C) D-CON AUGER, CLEAN UP
3:00	5:00	2.0	TRAVEL ~~[illegible]~~ SHOP

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	7 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	2 /
Cement	Sack/Foot	21 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bioclay Grout	Sack/Foot	2 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap 2"	Each	1
Slip Cap	Each	
Expansion Plug	Each	—
_____" Monument	Each	
_____" Flush Cover	Each	—
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	—
Core Boxes	Each	
Drums	Each	—
Visqueen	Roll	—

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.	154	—	6280.6
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
~~72C~~ 81C	50	114	64

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	95	Per Diem	Prsn Day	3
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28892-503
OPERATOR: [signature] SIGNATURE
RIG HAND: QUINTON RIG HAND: ~~[illegible]~~ TONY

DAILY TOUR REPORT

WDC JOB #: BOE 24A LOCATION: L.A RIG #: 110-9 DATE: 12/20/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
630	700		Mobe to site
700	730		Health and safety and set up on AW0049C
730	930	930	Bail and surge AW0049C
930	1030		Bail and surge AW0059C
1030	1200		set pump and pump AW0059C
1200	1230		lunch
1230	230		Bail and surge Well AW0081C
230	430		Bail and surge well AW0003UP
430			pump tank and load up
			Demobe to yard

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: Box 24 A LOCATION: L.A. RIG #: 141 DATE: 12/2/1 04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	5:30	.5	SHOP
5:30	7:00	1.5	TRAVEL
7:00	—		Rig set-up safety meeting
—	8:00	1.0	
8:00	—		Drill 8" Auger 118' ft. set-
—	10:00	2.0	2" well sand surger
~~[illegible]~~	~~[illegible]~~		
10:00	10:30	.5	wait =
10:30	12:30	2.0	grout w/portland cement.
12:30	2:00	1.5	clean up ~~empt~~ empt drums
2:00			travel Back

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	21 /
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bolclay Grout	Sack/Foot	3 /
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) In Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
Augers			
8"	0	118	
			118

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80	2"	95	Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20'			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: [signature] SIGNATURE
RIG HAND: Ed RIG HAND: Richard

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: C-6 RIG #: 154 DATE: 12/21/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
5:00	5:30	.5	LOAD
5:30	7:00	1.5	TRAVEL TO SITE
7:00	7:30	.5	H-S
7:30	10:00	2.5	DRILL FROM 0' TO [redacted] 113.5, SET 2" WELL @ 113' (93C)
10:00	10:30	.5	SURGE, SET SEAL
10:30	11:30	1.0	SET UP TO GROUT SET TREMIE PIPE
11:30	12:30	1.0	GROUT UP
12:30	1:00	.5	SET UP @ BAKER TANK FOR D-CON AUGER + RIG
			AND FOR PUMPING DRUMS
1:00	1:30	.5	LUNCH
1:30	3:00	1.5	D-CON, PUMP D-CON DRUMS FROM 12/19/04
			PUMP D-CON H_2O FROM 12/21
3:00	4:30	1.5	TRAVEL TO YARD

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand #3	Sack/Foot	7 /
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	2 /
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bolclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap 2"	Each	1
Slip Cap 2"	Each	1
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	—
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	—
Core Boxes	Each	
Drums	Each	—
Visqueen	Roll	—

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total
AW0093C	0	113.5	113.5

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80	2"	95	Per Diem	Prsn Day	—
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80	2"	20			

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: [signature] SIGNATURE
RIG HAND: Quinton RIG HAND: JOSH

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: L.A RIG #: 110-9 DATE: 12/22/04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
630	700		Mob to site
700	730		set up on well # AW0001UB
730	830		Bail and surge
830	1015		set pipe and Air lift ~~AW0002UB~~
1015	1100		pull pipe and move to well AW0004UB
1100	1200		Bail and surge
1200	1230		lunch
1230	100		Bail well
100	200		set pipe and Air lift
200	245		pull pipe and move to well AW0005UB
245	400		Bail and surge
400	500		set pipe and Air lift

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Volclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: SIGNATURE

CLIENT JOB #: 29882-507

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: L.A RIG #: 110-9 DATE: 12/23/01

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
700	730		set up on well
730	930		set up injection for wells
930	1015		pull pipe and set up on AW0081C
1015	1130		Bail and surge
1130	1200		set pipe and Air lift
1200	1230		lunch
1230	100		Air lift well
100	130		pull pipe and move to AW0092C
130	300		Bail and surge
300	400		Bail and surge AW0093C
400	~~[illegible]~~	515	pump tank and clean sand from it and load up
515			Demobe to yard

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Biclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes

First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels

Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves

Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses

Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls

Emergency Triangles Fire Extinguishers MSDS Book Safety Manual

Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump

Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

DAYS W/O LOST TIME IN 2001

DRILLING STATISTICS

Hole #	From	To	Total

COMMENTS

TOTAL RIG HOURS WORKED

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: SIGNATURE

CLIENT JOB #: 28882-503

OPERATOR: SIGNATURE

RIG HAND: RIG HAND:

DAILY TOUR REPORT

WDC JOB #: BOE24A LOCATION: L.A. ON 190TH RIG #: 248 DATE: 12 / 23 / 04

FROM	TO	TOTAL	DESCRIPTION OF ACTIVITIES
6:30	7:30	2	TRAVEL
7:30	8:00	.5	HEART AND SAFETY
8:00	12:00	4	INJECT 5 WELLS WITH WATER
12:00	12:30	.5	LUNCH.
12:30	4:30	4	INJECT 6 WELLS WITH WATER AND CLEAN UP.
4:30	6:30	2	TRAVEL

MATERIALS

Record Materials Provided by WDC Exploration & Wells

Item	Unit	Quantity
Gravel Pack Sand	Sack/Foot	/
Transition Sand	Sack/Foot	/
Bentonite Pellets	Bucket/Feet	/
Cement	Sack/Foot	/
Bentonite Powder	Sack/Foot	/
Bentonite Chips	Sack/Foot	/
Bolclay Grout	Sack/Foot	/
Sand Grout	Yard/Foot	/
Enhanced Grout	Sack/Foot	/
Centralizers	Each	
Threaded Cap	Each	
Slip Cap	Each	
Expansion Plug	Each	
_____" Monument	Each	
_____" Flush Cover	Each	
Asphalt	Sack	
Concrete	Sack	
Rapid Set Grout	Sack	
Lock	Each	
PVC Gloves	Pair	
Tyvek Suits	Each	
Sample Liners	Each	
Core Boxes	Each	
Drums	Each	
Visqueen	Roll	

EQUIPMENT SERVICE RECORD

Record At End Of Shift At The End Of Each Week

Description	Srvc Int.	Equip. #	Last Service	Hours/Miles
Carrier Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Deck Engine	Fltr 250 Hrs. Oil 1000 Hrs.			
Rig Tender	10000 Mls			
Support Truck	5000 Mls.			
Forklift	250 Hrs.			
Forklift	250 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Compressor	Fltr 250 Hrs. Oil 1000 Hrs.			
Shaker	250 Hrs.			
Mud Pump	250 Hrs.			
Mud Pump	250 Hrs.			
Generator	250 Hrs.			
Welder/Gen.	100 Hrs.			
Steamcleaner	100 Hrs.			

SAFETY & MECHANICAL INSPECTION

Circle Item(s) in Need of Repair or Replacement

Windows Tires Gauges Lights Slings Cables Clamps Brakes
First Aid Kit Fall Device Safety Harness Safety Labels Operating Labels
Equipment Gaurds Back-Up Alarms Safety Shutdowns Relief Valves
Discharge Hoses Hydraulic Hoses Water Hoses Mud Hoses Air Hoses
Breakout Tongs Pipe Wrenches Chain Tongs Dog Collar Slips/Bowls
Emergency Triangles Fire Extinguishers MSDS Book Safety Manual
Mud Pump Injection Pump Grout Pump 2" Transfer Pump Fuel Transfer Pump
Casing Hammer Sample Hammer Mini-Dumpster Tooling Bit Subs

Equip. #	Action Needed ( ) Check If None

EXPLANATION OF STANDBY

CLIENT SIGNATURE

RECORD OF INJURY/ACCIDENT/NEAR MISS

DAILY SAFETY TOPIC

EMERGENCY
MEETING AREAS
P.P.E.

DAYS W/O LOST TIME IN 2004

DRILLING STATISTICS

Hole #	From	To	Total

COMMENTS

TOTAL RIG HOURS WORKED 12.5

Casing	Type	Schedule	Diameter	Feet	Misc.	Unit	Quan.
Blank	PVC MS SS HDPE	5 10 40 80			Per Diem	Prsn Day	
Blank	PVC MS SS HDPE	5 10 40 80			Level C	Prsn Day	
Screen	PVC MS SS HDPE	5 10 40 80					

CLIENT REP: [signature] SIGNATURE
CLIENT JOB #: 28882-503
OPERATOR: [signature] SIGNATURE
RIG HAND: VICTOR Z. RIG HAND:

Attachment G

Well Development Records

HALEY & ALDRICH

Well Development Record

AirLift

Project Name	C6 PHASE 2 AWs	Well Number	AW0001 UB
Project Location	19503 S. NORMANDIE AVE	Weather	CLEAR & CALM
Project Number	28882-503	Date	~~AUG/20/2004~~ M 12/20/04 22
		Page	1 of 1
			T. HAMMOND

Water Level Data (from top of casing)

STICKUP	1.0		
Total Well Depth (TD)	84.7	Casing Diameter (inches)	2
Static Water Level (DTW)	61.25	Screen Length (feet)	20
Standing Water Column (WC)	22.45	Borehole Diameter (inches)	8
(TD - DTW)		Date Installed	12/15/2004

Well Purging Data

Purge Method	BAIL/SURGE/BAIL/AIR LIFT	(gpm)	2.0
Well Volume (gallons)	3.66	Pump Description	AIRLIFT PIPE
CD* (2" 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)			
Number of Volumes to be Purged	5		
Total Gallons to be Purged	18.3	Drilling Company	WDC

Surging and Bailing

BAIL	Start Time: 715	Finish Time: 730	Comments:	~10 GAL - VF SAND - BOTTOM IS HARD	
SURGE	Start Time: 730	Finish Time: 745	Comments:		
BAIL	Start Time: 745	Finish Time: 800	Comments:	~10 MORE GAL - VF SAND - BOTTOM IS HARD	
	Start Time: 8-9 SETUP AIRLIFT	Finish Time:	Comments:		

Pumping Parameters

DTW

Time	Volume (gallons)	Pumping Rate (gpm)	°F Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
918	BEGIN AIR LIFT					
925	TOOK A CONE FROM DISCHARGE			~ 1.5 mL	SEDIMENT	
935	TOOK 2nd CONE →	0.5 mL	SEDIMENT			TURB DO
940	~30	~2 GPM	69.7	1680	7.24	>999
949	CONE #3 →	0.2 mL				
950	~50	2.0?	73.6	1570	9.10	3.24 8.05?
	WATER	CLEARED	SIGNIFICANTLY			
1000						
1015	BAIL ~8 GAL + SEDIMENT					
1025	BOTTOM IS HARD					
1030	PULLED 4th CONE →	0.3 mL	SEDIMENT			

84.46 61.24
85.35

HALEY & ALDRICH

Well Development Record

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0002UB
Weather: CLEAR & CALM
Date: TH 12/23/04
Page: 1 of 1
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 0.5
Total Well Depth (TD): 84.7 TOC - SOLID
Static Water Level (DTW): 61.4 TOC
Standing Water Column (WC): 23.3
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: Sa 12/18/2004

Well Purging Data

Purge Method: BAIL/SURGE/BAIL
Well Volume (gallons)
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged
Total Gallons to be Purged

(gpm)
Pump Description
Drilling Company

Surging and Bailing

BAIL Start Time: SEE BELOW Finish Time: Comments: ~2 GAL TO REMOVE SEDIMENT By hand
SURGE Start Time: Finish Time: Comments:
Start Time: Finish Time: Comments:
Start Time: Finish Time: Comments:

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
8:00	BAIL SEDIMENT		~2 GAL	CONE →		70 mL SAND
930	SURGE UP & DOWN 4' STROKE THROUGH SCREEN INTERVAL					
1005	BAIL ~2 GAL		(1/2 SAND)			
1120	BAIL/SURGE ~2 GAL			CONE →		80 mL SAND DTW: 61.44 TOC TD: 83.46
1200	BAIL ~4 GAL		(10 TOTAL)	SANDY		DTW: 61.44 TD: 83.96

AS

HALEY & ALDRICH

Well Development Record

Project Name: C6 PHASE 2 AWS
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0003UB
Weather: CLEAR & CALM
Date: F 12/20/2004
Page: 1 of
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 1.8'
Total Well Depth (TD): 84.7
Static Water Level (DTW): 62.05 TOC
Standing Water Column (WC): 22.85
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: W 12/15/2004

Well Purging Data

Purge Method: BAIL/SURGE/PUMP
Well Volume (gallons): 3.72
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 20

(gpm) Too Sandy To Pump.
Pump Description:
Drilling Company: WDC

Surging and Bailing

	Start Time	Finish Time	Comments
BAIL	1310	1330	5 GAL - VF SAND ~6" IN CONE
SURGE	1330	1345	BAILED IN A LOT OF SAND
BAIL	1345	1400	5 GAL ~6" IN CONE
BAIL	1400	1415	5 GAL ~6" IN CONE

TOOK A BAGGY OF VF SAND

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
BAIL 1415	TO 1430		5 GAL	→ ~4" SAND	IN	CONE
	DTW 62.62 TOC					

Will Air Lift Later

PRS 12/22/04

Haley & Aldrich, Inc.
Borehole log Well Dev WIT Forms.xls

August 2004

HALEY & ALDRICH

Well Development Record

Air Lift

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0004UB
Weather: CLOUDY & CALM WIND
Date: W 12/22/04
Page: 1 of 1
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 0.7
Total Well Depth (TD): 78.6 TOC – SOLID BOTTOM → 85.84' AFTER BAILING
Static Water Level (DTW): 59.91 TOC
Standing Water Column (WC): 25.93
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: F 12/17/04

Well Purging Data

Purge Method: BAIL/SURGE/AIRLIFT PUMP/BAIL
Well Volume (gallons): 4.2
CD* (2" - 0.163) 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 21

(gpm): ~2
Pump Description: AIRLIFT
Drilling Company: WDC

Surging and Bailing

BAIL Start Time: 1030 Finish Time: 1035 Comments: ~2 GAL TO REMOVE SEDIMENT
SURGE Start Time: 1035 Finish Time: 1050 Comments:
Start Time: Finish Time: Comments:
Start Time: Finish Time: Comments:

Pumping Parameters

	Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C) °F	Spec. Cond. ~~(mmhos/cm)~~ µS/cm	pH (units)	Comments (color, turbidity, odor, sheen)		
1030	~~1030~~	BAIL SEDIMENT		OUT	TD AFTER →		~8 GAL REMOVED, VERY SAND		
1105	~~1035~~	SURGE	15 MIN	IN	20 FOOT STROKES				
1130	~~1050~~	BAIL	SEDIMENT	~8" SEDIMENT IN 5 GAL BUCKET			TOTAL BAILED ~15 GAL		
~~1215~~	1245	SET UP	AIR LIFT	DTW – 60.0 TOC			TD – 86.4 TOC		(w/ SEDIMENT CONE
	1325	BEGIN AIR LIFTING WATER			~2 GPM		TURB	DO	
	1345	55	2	71.6	1080	8.23	240	8.5	4.5
	1355	75	2	70.5	780	8.40	230	X	2.5
	1400	85	2	69.1	780	8.46	117	X	2.0
	1440	DTW	58.0 TOC		TD 85.84 TOC				

DO – WATER GETTING AERATED IN HOSE

HALEY & ALDRICH

Well Development Record

Airlift

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0005UB
Weather:
Date: W 12/22/04
Page: 1 of 1
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 1.0
Total Well Depth (TD): 84.65 - BOTTOM IS HARD
Static Water Level (DTW): 59.05
Standing Water Column (WC): 25.63
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: Sa 12/18/2004

Well Purging Data

Purge Method: BAIL/SURGE/PUMP AIRLIFT
Well Volume (gallons): 4.2
CD: (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 21

(gpm): ~2
Pump Description: AIRLIFT

Drilling Company: WDC

Surging and Bailing

Start Time: SEE BELOW
Start Time:
Start Time:
Start Time:

Finish Time:
Finish Time:
Finish Time:
Finish Time:

Comments:
Comments:
Comments:
Comments:

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°F)	Spec. Cond. (µS/cm) ~~(mmhos/cm)~~	pH (units)	Comments (color, turbidity, odor, sheen)	
1455	BAIL	SEDIMENT	~2 GAL				
1510	SURGE	15 MIN					
1530	BAIL	SEDIMENT	~10 GAL	VERY SANDY			
1545	SETTING AIRLIFT PIPE						
1620	START	AIRLIFTING WATER				TURB	SETTLED SOLID/ IN CONE
1640	50	2	NM	NM	NM	NM	>30mL
1700	80	1.5	66.5	1350	8.18	400	15mL
1705	87	1.5	65.5	1300	8.42	200	7
1710	SHUT DOWN PUMP FOR THE NIGHT						
	CHECK DTW → 59.15			TD → 84.5			
	BAIL	SEDIMENT		TD → 85.4			

HALEY & ALDRICH

Well Development Record

AW 0024B

Project Name	C-6	Date:	11/18/04
Project Location	Los Angeles, CA	Weather:	Sunny, clear, warm
Project Number	88820-503		
Technician	B. Breitenbach	Page	1 of 1

Water Level Data (from top of casing) ~6" below ground surface

Total Well Depth (TD)	80.0	Casing Diameter (inches)	2
Static Water Level (DTW)	60.60	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	19.4	Borehole Diameter (inches)	8
		Date Installed	11/12/04

Well Purging Data

Purge Method	bail/pump	(gpm)	1.5-2
Well Volume (gallons)	12.56	Pump Description	Grundfos
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)		Check Valve?	no
Number of Volumes to be Purged	3		
Total Gallons to be Purged	36	Drilling Company	WDC

Surging and Bailing

Start Time:	0950	Finish Time:	1021	Comments:	bail sediment ~7 gal
Start Time:	1021	Finish Time:	1035	Comments:	surge
Start Time:	1035	Finish Time:	1046	Comments:	let sand settle
Start Time:	1046	Finish Time:	1107	Comments:	bail ~7 gal

Pumping Parameters

1110 61.28 - DTW after bailed 14 gal / turned pump on at 1118

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs) (wx turbid water)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1118	71.00	+10	2	25.1	1.97	10.55	22	10.57	brown/sandy
1123	Attempted to take readings, but no h2o was coming out of pump + water level was rising								
1126	Pump running again								
1131	69.95	+7.5	1.5	25.3	1.34	11.83	25	10.41	brown/sandy
1136	Attempted to take readings → h2o was rising in well + no h2o was coming out of pump.								
1139	Pump is running again						(600)		
1144	69.50	+7.5	1.5	25.9	1.53	12.57	26	9.93	brown/sandy
1148	71.09	+7.5	1.5	25.8	1.58	12.65	441	9.40	cloudy/brown (1.57)
1153	71.95	+7.5	1.5	25.4	1.77	12.62	999 (1071)	8.87	"
1158	72.25	+7.5	1.5	25.4	1.72	13.73	32	9.97	"
1203	72.40	+7.5	1.5	25.3	1.58	13.90	21	10.09	"
1208	72.50	+7.5	1.5	25.4	1.60	14.01	32	9.63	cloudy/light brown - less sand
1213	72.55	+7.5	1.5	25.1	1.60	14.25	19	9.57	"
	Turned pump off								<100 NTU
	DTW 85.5' after bailing + pumping								
12' Drawdown @ 1.5 gpm									

(2hrs + 20 min)

QA/QC: PRS
Date: 11/19/04

HALEY & ALDRICH

Well Development Record

AW0040C

Project Name	C-6 Facility	Date:	11/18/04 11/18/04
Project Location	Los Angeles, CA	Weather:	sunny, clear, warm
Project Number	2888-A-503		
Technician	B. Breitenbach	Page	1 of 1

Water Level Data (from top of casing) PVC 1'7" above ground surface

Total Well Depth (TD)	115.5	Casing Diameter (inches)	2
Static Water Level (DTW)	62.19	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	53.31	Borehole Diameter (inches)	8
		Date Installed	11/12/04

Well Purging Data

Purge Method	bail/pump	(gpm)	2-4
Well Volume (gallons)	34.50	Pump Description	Grundfos
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)		Check Valve?	No - pump not working with it on
Number of Volumes to be Purged	3		
Total Gallons to be Purged	103.50	Drilling Company	WDC

Surging and Bailing

Start Time:	0735	Finish Time:	0749	Comments:	little sand @ bottom, bail sediment ~3 gal
Start Time:	0749	Finish Time:	0809	Comments:	surge
Start Time:	0809	Finish Time:	0817	Comments:	let sand settle
Start Time:	0817	Finish Time:	0824	Comments:	bail ~ 4.5 gal
					set up pump

Pumping Parameters

0838 63.00 → DTW after bailing 8 gal. / 0843 start pump

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
0848	64.30	+10	2	21.6	1.29	9.35	121	7.55	brown/sandy
0853	64.30	+10	2	21.9	1.34	9.79	685	7.81	"
0859	66.26	+24	4	22.0	1.36	9.86	999	8.30	"
0904	66.30	+20	4	22.2	1.37	9.84	418	9.47	cloudy / some sand
0909	66.35	+20	4	22.4	1.37	8.96	70	7.94	"
0914	66.39	+20	4	22.4	1.36	9.85	32	12.02	"
0919	66.39	+20	4	22.4	1.36	9.42	140	12.55	"
0924	66.40	+20	4	22.5	1.36	9.22	55	12.55	"
0927	turned off pump								
	DTB= 116.5 after bail/pumping								<100 NTUs
	4' Draw down @ 4 gpm								

2 hrs

QA/QC: [signature]
Date: 11/19/04

HALEY & ALDRICH

Well Development Record

Project Name C6 PHASE 2 PARCEL A WELLS
Project Location 19507 S. NORMANDIE
Project Number 23382-507

Well Number AW0049C
Weather CLEAR & CALM
Date M 12/20/04
Page 1 of
T. HAMMOND

Water Level Data (from top of casing)

Stickup 2.0
Total Well Depth (TD) 116.50
Static Water Level (DTW) 62.20
Standing Water Column (WC) 54.3
(TD - DTW)

Casing Diameter (inches) 2
Screen Length (feet) 20
Borehole Diameter (inches) 8"
Date Installed Th 12/16/04

Well Purging Data

0.27

Purge Method BAIL/SURGE/PUMP
Well Volume (gallons) 8.85
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged 5
Total Gallons to be Purged 45

(gpm) Too Sandy to Pump
Pump Description
Drilling Company WDC

Surging and Bailing

	Start Time	Finish Time	Comments
BAIL	7:50	8:10	5 GAL - SANDY
SURGE	8:10	8:25	
BAIL	8:25	8:45	5GAL - VF SAND COMING IN
BAIL	8:50	9:05	5GAL - STILL LOTS OF SAND
BAIL	9:05	9:15	5 GAL - VF SAND DECREASING
			10 GAL - VF SAND ~1" IN 5 GAL BUCKET

Pumping Parameters 915 - 930

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
930	BOB NIX DOES NOT WANT TO SET PUMP WITH SAND					
935	DTW: 62.7 TOC					

Will Air-lift Later

PR 12/22/04

HALEY & ALDRICH

Well Development Record

Project Name C6 PHASE 2 AMENDMENT WELLS
Project Location 8503 S. NORMANDIE
Project Number 28582-503

Well Number AW005-9C
Weather CLEAR & CALM
Date M 12/20/04
Page 1 of
T. HAMMOND

Water Level Data (from top of casing)

STICKUP 3.3 FT (CONFIRMED)
Total Well Depth (TD) 118.20
Static Water Level (DTW) ~~65.95~~ 65.25
Standing Water Column (WC) 52.95
(TD - DTW)

Casing Diameter (inches) 2
Screen Length (feet) 20
Borehole Diameter (inches) 8
Date Installed Th 12/16/04

Well Purging Data

Purge Method BAIL/SURGE/PUMP
Well Volume (gallons) 8.6
OD" (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged 5
Total Gallons to be Purged 43

(gpm) TOO Sandy to Pump
Pump Description GRUNFOS REDI-FLO 2
Drilling Company WDC

Surging and Bailing

BAIL Start Time: 955 Finish Time: 1015 Comments: 5 GAL - LOTS OF VF SAND
SURGE Start Time: 1015 Finish Time: 1030 Comments:
BAIL Start Time: 1030 Finish Time: 1100 Comments: VF SAND
BAIL Start Time: 1100 Finish Time: 1130 Comments: 70 GAL STILL TOO MUCH SAND TO SET PUMP

Pumping Parameters

DEPTH 67 67.3 DTW 65.5 66.4

Time	ELAPSED TIME Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
12:00	0					TURB DO
12:15 START	30	2.3	- PULLED A CONE OF WATER		-	VF SAND 1000 mL CONE → 5 SAN
12:20	PUMP SHUT OFF		- SAND WAS PRESENT		INSIDE	PUMP

Will Air-Lift Later

PBS 12/22/04

HALEY & ALDRICH

Well Development Record

AW00 (00) C

Project Name	C-6 Facility	Date:	11/17/04
Project Location	Knox St, Los Angeles	Weather:	sunny, clear, warm
Project Number	28882-503		
Technician	B. Brutmach	Page	of

Water Level Data (from top of casing) ~3" below ground surface

Total Well Depth (TD)	105.0	Casing Diameter (inches)	2
Static Water Level (DTW)	61.20	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	43.8	Borehole Diameter (inches)	8
		Date Installed	11/11/04

Well Purging Data

Purge Method	bail/pump	(gpm)	2
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	28.35	Pump Description	Grund fos
		Check Valve?	No
Number of Volumes to be Purged	3		
Total Gallons to be Purged	90	Drilling Company	WDC

Surging and Bailing

Start Time:	1023	Finish Time:	1142	Comments: TD = 112.5'	bail ~22 gal
Start Time:	1142	Finish Time:	1158	Comments:	surge
Start Time:	1158	Finish Time:	1205	Comments:	let sand settle
Start Time:	1205	Finish Time:	1223	Comments:	bail ~28 gal
	1223				set up pump → no pumping
					H2O → pump started at 1244

Pumping Parameters

1227 (2.18 - after bailing ~28 gal / 1244 started pump

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs) (WDC's turbidimeter)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1045	~108	/	-	24.1	.749	8.7	-10	10.11	checked - only cleared ~3' of sand
1249	71.25	+10	2	25.5	1.11	7.49	999	12.51	brown / sandy
1254	75.43	+10	2	24.3	1.06	13.35	73	7.78	"
1259	77.20	+10	2	24.1	1.04	14.65	-7	8.08	"
1304	78.75	+10	2	24.3	1.05	12.72	999	7.52	"
1309	78.68	+10	2	24.2	1.03	15.00	15(621)	7.59	cloudy / some sand
1314	78.88	+10	2	23.5	1.01	13.56	-10(323)	7.22	"
1320	78.73	+12	2	24.1	1.03	13.82	-10(200)	7.24	"
1325	79.24	+10	2	24.0	1.03	14.37	-10(252)	7.18	"
1330	79.35	+10	2	24.0	1.01	12.69	206	6.07	"
1337	79.55	+14	2	24.2	1.00	13.50	94	6.06	
	DTB =	114'							
									<100 NTUs
	18' Drawdown @ 2 gpm								

(3 hrs 10 min.)

QA/QC: AKS

Date: 11/19/04

HALEY & ALDRICH

Well Development Record

AW0061C

Project Name	C-6 Facility	Date:	11/17/04
Project Location	Los Angeles, CA	Weather:	Sunny, clear warm
Project Number	28882-603		
Technician	B. Bustenbach	Page	1 of

Water Level Data (from top of casing) TOC 2' 3" (had to cut some of PVC)

Total Well Depth (TD)	99.1	Casing Diameter (inches)	2
Static Water Level (DTW)	66.03	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	33.07	Borehole Diameter (inches)	8
		Date Installed	11/10/04

Well Purging Data

Purge Method	bail/pump	(gpm)	2-3
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	21.04	Pump Description	Grundfos
		Check Valve?	No - pump not
Number of Volumes to be Purged	3		working w/ it in
Total Gallons to be Purged	63	Drilling Company	WDC

Surging and Bailing

Start Time:	1402	Finish Time:	1434	Comments:	bailed ~ 8 gal
Start Time:	1434	Finish Time:	1456	Comments:	Surge
Start Time:	1456	Finish Time:	1513	Comments:	bail 8 ~ 14 gal total
Start Time:	1513	Finish Time:	1619	Comments:	Set pump

Pumping Parameters

1517 64.04 - after purging 14 gal / 1520 Started pump

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs) (WDC turbidimeter)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1525	76.51	+10	2	23.7	1.15	11.70	70	11.21	brown, sandy
1530	84.40	+15	3	23.8	1.20	12.01	70	9.70	"
1535	102.90	+15	3	22.9	1.16	12.58	999	10.02	"
*	Pump @ 101', turned off pump to recharge well								
1540	72.80	+4	2	23.0	1.08	12.85	40	9.42	cloudy / some sand
1547	83.17	+14	2	22.9	1.23	13.37	999	9.8	brown / sandy
1552	84.28	+10	2	22.9	1.21	13.45	0 (917)	9.02	cloudy
1557	84.68	+10	2	22.4	1.24	13.56	0 (345)	9.65	"
1602	84.85	+10	2	22.5	1.23	13.42	70 (250)	9.29	"
1607	84.94	+10	2	22.4	1.23	13.41	42 (168)	9.25	"
1612	85.05	+10	2	22.3	1.24	13.34	-1 (154)	9.11	"
1617	85.12	+10	2	22.0	1.26	13.81	20 (153)	9.43	"
	TD = 115.5 after pumping								
									L > 100 NTUs *
	19' Drawdown @ 2 gpm								

(2.25 hrs)

QA/QC: PRS

Date: 11/19/04

HALEY & ALDRICH

Well Development Record

Project Name: C6 PHASE 2 AWs
Project Location: 1503 S. NORMANDIE
Project Number: 28882 - 503

Well Number: AW0070C
Weather: CLEAR & CALM
Date: M 12/20/04
Page: 1 of
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 2.0
Total Well Depth (TD): 114.95
Static Water Level (DTW): 63.85
Standing Water Column (WC): 51.1
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: Th 12/16/04

Well Purging Data

Purge Method: BAIL / SURGE / PUMP
Well Volume (gallons): 6.94
CD² (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 35

(gpm)
Pump Description: Too Sandy To Pump
Drilling Company: WDC

Surging and Bailing

BAIL Start Time: 13:00 Finish Time: 1315 Comments: ~5 GAL - 1.5" SAND IN 5 GAL BL
SURGE Start Time: 1315 Finish Time: 1330 Comments:
BAIL Start Time: 1330 Finish Time: 1400 Comments: ~25 GAL TOTAL
BAIL Start Time: 1400 Finish Time: 1410 Comments: ~20 GAL, - STILL OF SAND
BAIL 1410 1430 ~35 GAL - CONT → ~2" VF SAND

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
AFTER:	DTW	64.2	TOC			
	TD	115.7	TOC			

Will Air Lift Later

PR 12/22/04

HALEY & ALDRICH

Well Development Record

AW007 | C

Project Name	C-6 Facility	Date:	11/17/04
Project Location	Los Angeles	Weather:	Clear
Project Number	28882-5003		
Technician		Page	1 of 1

Water Level Data (from top of casing) 1' 7"

Total Well Depth (TD)	113.5	Casing Diameter (inches)	2
Static Water Level (DTW)	63.09	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	50.41	Borehole Diameter (inches)	8
		Date Installed	6/9/04

Well Purging Data

Purge Method	bail/pump	(gpm)	
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	32.63	Pump Description	Grundfos
		Check Valve?	yes
Number of Volumes to be Purged	3		
Total Gallons to be Purged	99	Drilling Company	WDC

Surging and Bailing

Start Time:	0745	Finish Time:	0805	Comments:	bail sediment ~6 gal.
Start Time:	0805	Finish Time:	0825	Comments:	surge
Start Time:	0825	Finish Time:	0848	Comments:	bail sediment ~13 gal total
Start Time:	0848	Finish Time:		Comments:	set up pump
	0907			Pump switch on + start	turned on pump

Pumping Parameters

0850 64.03 - after bailing ~13 gal

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	(WDC) Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
0912	64.18	+22.5	4.5	22.8	1.09	7.68	999	10.21	brown/silty sand
0918	69.00	+27	4.5	22.8	1.07	7.60	762	10.12	"
0924	69.20	+27	4.5	22.9	1.08	7.49	5	10.09	cloudy/some silt + sand
0929	69.24	+27	4.5	22.8	1.09	7.43	5(137)	9.80	"
0934	69.28	+22.5	4.5	22.8	1.08	7.42	4(113)	9.85	cloudy
0939	69.37	+22.5	4.5	23.0	1.09	7.40	5(83.3)	9.92	
0943	63.60	Turned off pump (no check valve)							
	116.5	DTB after pumping							<100 NTUs
	6' Drawdown @ 4.5 gpm								

2 hrs

QA/QC: [signature]

Date: 11/19/04

HALEY & ALDRICH

Well Development Record

AW0072C

Project Name	C-6 Facility	Date:	11/16/04
Project Location	Los Angeles CA	Weather:	sunny clear warm
Project Number	188827-503		
Technician	B. Blutenbach	Page	1 of

Water Level Data (from top of casing) ~4'1" above ground surface

Total Well Depth (TD)	119.20	Casing Diameter (inches)	2
Static Water Level (DTW)	67.75	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	51.45	Borehole Diameter (inches)	8
		Date Installed	11/9/04

Well Purging Data

Purge Method	bail/pump	(gpm)	
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	33.3	Pump Description	
		Check Valve?	
Number of Volumes to be Purged	3		
Total Gallons to be Purged	99.89	Drilling Company	

Surging and Bailing

Start Time:	1418	Finish Time:	1442	Comments:	bail sediment ~3.5 gal
Start Time:	1442	Finish Time:	1458	Comments:	surge
Start Time:	1500	Finish Time:	1527	Comments:	bail sediment ~14 gal
Start Time:		Finish Time:		Comments:	

Pumping Parameters

1530 69.60 - DTW after ~14 gal h2O purged.

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1540	75.10	+22.5	4.5	23.1	1.27	7.75	999	9.95	sandy/brown
1545	77.65	+22.5	4.5	22.7	1.25	7.29	0	10.05	"
1552	78.19	+31.5	4.5	22.4	1.25	7.45	732	9.81	cloudy/some sand
1559	78.45	+31.5	4.5	22.5	1.25	7.35	211	9.81	cloudy
1600	78.74	+31.5	4.5	22.2	1.26	7.30	157	9.64	"
1612	79.10	+27	4.5	22.0	1.26	7.32	1	9.34	"
1617	79.25	+22.5	4.5	22.2	1.26	7.28	180	9.06	"
1622	71.5	Turned off pump							
1625	69.0								
	DTB = 115.2								
	12' Drawdown @ 4.5 gpm								

↳ 100 NTUs *

QA/QC: [signature]

Date: 11/19/04

2 hrs

HALEY & ALDRICH

Well Development Record

Airlift

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0081C
Weather: CLEAR & CALM
Date: ~~M 12/22/04~~ TH 12/23/04
Page: 1 of 1
T. HAMMOND

Water Level Data (from top of casing)

STICKUP: 36" = 3.0'
Total Well Depth (TD): 115.14 TOC
Static Water Level (DTW): 65.45 TOC
Standing Water Column (WC): 49.95
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20
Borehole Diameter (inches): 8
Date Installed: F 12/17/04

Well Purging Data

Purge Method: BAIL / SURGE / AIRLIFT
Well Volume (gallons): 8.1
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 40.5

(gpm): NA ~2.0
Pump Description: AIRLIFT
Drilling Company: WDC

Surging and Bailing

Start Time: SEE BELOW
Start Time:
Start Time:
Start Time:

Finish Time:
Finish Time:
Finish Time:
Finish Time:

Comments:
Comments:
Comments:
Comments:

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)	
1030	BAIL	SEDIMENT	~5 GAL	— VERY SANDY			
1045	SURGE	15	MIN				
1105	BAIL	SEDIMENT	~5 GAL	— STILL SANDY			
1130	SET AIRLIFT						
1200	AIRLIFTING WATER					TURB	CONE
1230	50	2	70.5	830	7.39	1190	25 mL
1250	90	2	70.3	860	8.16	920	2.0 mL
	DTW	65.6	TOC	TD 115.0 TOC			

HALEY & ALDRICH

Well Development Record

AW0083C

Project Name	C-6 facility	Date:	11/16/04
Project Location	Los Angeles CA	Weather:	sunny, clear, warm
Project Number	28822-503		
Technician	B. Bartenbach	Page	1 of 1

Water Level Data (from top of casing) 2'11" above ground surface

Total Well Depth (TD)	117.85	Casing Diameter (inches)	2
Static Water Level (DTW)	67.59	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	50.26	Borehole Diameter (inches)	8
		Date Installed	11/10/04

Well Purging Data

Purge Method	bail/pump	(gpm)	4.5
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	32.52	Pump Description	Grundfos
		Check Valve?	Yes
Number of Volumes to be Purged	3		
Total Gallons to be Purged	96	Drilling Company	WDC

Surging and Bailing

Start Time:	1105	Finish Time:	1135	Comments:	bail sediment ~8gal
Start Time:	1135	Finish Time:	1155	Comments: let sand settle	surge
Start Time:	1200	Finish Time:	1250	Comments:	bail sed + total of 17gal
Start Time:		Finish Time:		Comments:	

Pumping Parameters

1253 68.48 DTW after bailing ~17gal

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1300	77.40	+22.5	4.5	24.8	1.11	6.71	999	10.78	light brown/sandy
1305	78.45	+22.5	4.5	23.5	1.07	7.21	3	11.02	cloudy/some sand
1310	78.95	+22.5	4.5	23.5	1.06	7.50	4	10.82	" "
1315	79.27	+22.5	4.5	23.6	1.06	7.54	725	10.45	"
1320	79.41	+22.5	4.5	23.5	1.06	7.48	3	10.29	"
1325	79.60	+22.5	4.5	23.5	1.07	7.54	78	10.28	"
1330	79.74	+22.5	4.5	23.4	1.07	7.49	73	10.29	"
1334	67.25	Turned off pump							
		DTB=120.70							<100 NTUs
	12'	Drawdown @ 4.5 gpm							

2½ hrs

QA/QC: [signature]

Date: 11/19/04

HALEY & ALDRICH

Well Development Record

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0092C
Weather: CLEAR & CALM WIND
Date: Th 12/23/04
Page: 1 of 1
T. HAMMOND

Water Level Data (from top of casing)

Total Well Depth (TD): 115.5
Static Water Level (DTW): 63.95
Standing Water Column (WC): 51.55
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20' (93.5 - 113.5)
Borehole Diameter (inches): 8
Date Installed: Tu 12/21/04

Well Purging Data

Purge Method: BAIL/SURGE/BAIL
Well Volume (gallons): 8.4
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 42

(gpm): NA
Pump Description: NA

Drilling Company: WDC

Surging and Bailing

Start Time: SEE BELOW
Start Time:
Start Time:
Start Time:

Finish Time:
Finish Time:
Finish Time:
Finish Time:

Comments:
Comments:
Comments:
Comments:

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
1430	BAIL	5GAL	- VERY SANDY			
1445	SURGE	15 MIN	-	BROUGHT IN	3'	SEDIMENT
1500	BAIL	~15 GAL				
	DTW	= 63.95		TD = 115.5		

HALEY & ALDRICH

Well Development Record

Project Name: C6 PHASE 2 AWs
Project Location: 19503 S. NORMANDIE AVE
Project Number: 28882-503

Well Number: AW0093C
Weather: CLEAR & CALM WIND
Date: TH 12/29/04
Page: 1 of 1

Water Level Data (from top of casing)

Total Well Depth (TD): 115.25
Static Water Level (DTW): 63.85
Standing Water Column (WC): 51.4
(TD - DTW)

Casing Diameter (inches): 2
Screen Length (feet): 20 (93-113')
Borehole Diameter (inches): 8
Date Installed: TU 12/21/04

Well Purging Data

Purge Method: BAIL/SURGE/BAIL
Well Volume (gallons): 8.4
CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)
Number of Volumes to be Purged: 5
Total Gallons to be Purged: 42

(gpm): NA
Pump Description: NA

Drilling Company: WDC

Surging and Bailing

Start Time: SEE BELOW
Start Time:
Start Time:
Start Time:

Finish Time:
Finish Time:
Finish Time:
Finish Time:

Comments:
Comments:
Comments:
Comments:

Pumping Parameters

Time	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Comments (color, turbidity, odor, sheen)
15:00	BAIL	5 GAL	SANDY			
1515	SURGE	15 MIN				
1540	BAIL	10 GAL	(15 TOTAL)	- SANDY		
	DTW - 63.85 TOC		TD 115.25 TOC			

HALEY & ALDRICH

Well Development Record

AWD 103C

Project Name	C-6 Facility	Date:	11/18/04
Project Location	Los Angeles, CA	Weather:	sunny, clear, warm, breeze
Project Number	28882-604		
Technician	B. Breitenbach	Page	1 of 1

Water Level Data (from top of casing) PVC 2'3" above ground surface (casing cut by WDC)

Total Well Depth (TD)	118.5	Casing Diameter (inches)	2
Static Water Level (DTW)	63.98	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	54.52	Borehole Diameter (inches)	8
		Date Installed	11/8/04

Well Purging Data

Purge Method	bail/pump	(gpm)	2-4.5
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	35.29	Pump Description	ND-
		Check Valve?	
Number of Volumes to be Purged	3		
Total Gallons to be Purged	108	Drilling Company	WDC

Surging and Bailing

Start Time:	1310	Finish Time:	1324	Comments:	bail sediment ~5 gal.
Start Time:	1324	Finish Time:	1341	Comments:	surge
Start Time:	1341	Finish Time:	1348	Comments:	let sand settle
Start Time:	1348	Finish Time:	1413	Comments:	bail ~6 gal + set up pump
	1413				

Pumping Parameters

1417 64.4 - DTW after bailing ~11 gal / 1421 Pump on

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
1426	65.09	+10	2	23.0	0.777	11.19	999	8.87	brown/sandy
1428	Hose disconnected from pump/ turned off pump to tue								
1432	Turned on pump								
1437	65.40	+22.5	4.5	22.6	0.769	11.68	259	8.68	cloudy / some sand
1442	65.40	+22.5	4.5	22.6	0.756	11.84	3	8.16	cloudy / light brown
1447	65.40	+22.5	4.5	22.6	0.755	12.03	23(75)	7.92	" /
1451	65.40	+18	4.5	Turned off pump					
	TD = 120'								
									<100 NTUs
1.4' Drawdown @ 4.5 gpm									

(1 hr 40 min.)

QA/QC: [signature]
Date: 11/19/04

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Well Development Record

AW0104C

Project Name	C-6	Date:	11/16/04
Project Location	1451 Knox St, LA	Weather:	Sunny, clear, warm
Project Number	78882-503		
Technician	B. Breitenbach	Page	1 of 1

Water Level Data (from top of casing) ~6" above ground surface

Total Well Depth (TD)	115.28	Casing Diameter (inches)	2
Static Water Level (DTW)	64.30	Screen Length (feet)	20
Standing Water Column (WC) (TD - DTW)	50.98	Borehole Diameter (inches)	8
		Date Installed	11/8/04

Well Purging Data

Purge Method	Bail/pump	(gpm)	4.5
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255 4" - 0.653, 6" - 1.469)	32.99	Pump Description	Grundfos
		Check Valve?	yes
Number of Volumes to be Purged	3		
Total Gallons to be Purged	99	Drilling Company	WDC

Surging and Bailing

Start Time:	0749	Finish Time:	0815	Comments:	bail sediment ~4 gal
Start Time:	0815	Finish Time:	0830	Comments:	surge
Start Time:	0830	Finish Time:	0855	Comments:	hooked up pump to tubing
Start Time:	0855	Finish Time:	0935	Comments:	bail ~18 gal

Pumping Parameters

0935 64.80 (after bailing ~18 gal)

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (mmhos/cm)	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	Comments (color, odor, sheen)
0947	65.32	+22.5	4.5	24.2	1.39	7.78	999	10.51	silty/brown
0953	65.34	+22.5	"	23.2	1.28	7.54	618	9.40	slightly silty/cloudy
0958	65.38	+22.5	"	23.4	1.27	7.57	510	11.14	cloudy
1003	65.37	+22.5	"	22.9	1.25	7.49	266	10.85	cloudy
1005	Generator ran out of gas — 1010 DTW = 65.36								
1015	65.34	+22.5	4.5	23.2	1.25	7.51	400	10.68	cloudy
1020	65.34	+22.5	"	23.3	1.24	7.52	419	10.73	slightly cloudy
1025	65.34	+22.5	"	23.2	1.22	7.41	122	10.12	" "
1030	65.35	+22.5	"	23.2	1.21	7.30	119	10.34	" "
1035	65.34	+22.5	"	23.0	1.20	7.35	95	9.90	" "
1038	64.40	Turned off pump							< 100 NTU
	1' Drawdown @ 4.5 gpm								

3 hrs Total

QA/QC: RBS

Date: 11/19/04

Attachment H

Water Injection Testing (WIT) Field Reports and WIT Test Forms

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DAILY FIELD REPORT

Project	C6 PHASE 2 AMENDMENT WELLS - PARCEL A	Report No.	9
Location	19503 S. NORMANDIE AVE	Date	Th 12/23/04
Client	BOEING	Page	1 of 1
Contractor	WDC	File No.	20882-503
Weather	CLEAR & CALM WIND	Temperature	

645 LOAD UP

7 ONSITE, HEALTH & SAFETY MEETING

715 JONATHAN PULLING AIR LIFT PIPE ON AW0005UB & MOVING TO 86C
VICTOR FILLING UP 500 GAL. TANK FOR INFILTRATION TEST

TO DEVELOP 81C, 2UB (BY HAND), 92C, 93C
INJECTION TEST ALL WELLS

830 HAND DEVELOPING AW0002UB

PAUL ☑ CALL ONYX & CANCEL BIN ON MONDAY - LEFT MESSAGE
☐ OFFICE ON MON

900 INJECT AW0001UB

945 JOHN MOVE TO 81C
VICTOR TO 3UB

1030 VICTOR INJECTION TEST 4UB - FILL UP WATER
1100 INJECTION TEST 5UB
1215 INJECTION TEST 2UB
1220 STURGEON & SONS PICKED UP 2ND ROLLOFF
1230 INJECTION TEST 49C
1315 - 1330 LUNCH
1330 INJECTION TEST 59C
1400 INJECTION TEST 70C - FILL TANK
DEVELOP 92C
1500 DEVELOP 93C
INJECTION TEST 81C
1530 INJECTION TEST 92C
1650 DEVELOP 93C COMPLETED, ADDING WATER TO POLY TANK (4000 GAL TANK)
1600 INJECTION TEST ~~1630~~ 93C
1630 CLEAN UP, EMPTY DEVELOPMENT WATER
1645 ALBERT W/ WDC ONSITE TO REMOVE AIR COMPRESSOR
1730 OFFSITE - CAT MAINTENANCE GUY WILL LOCK UP LOT 8
1800 DROP OFF PID, DOMETER, HYDAC, PURGE @ EQUIPCO
1930 STORAGE - DROP OFF EQUIPMENT
TO OFFICE 2015 DONE

TH 619 516-2972 619 855 6964

Field Representative(s)	Time on site	Report/Travel/Other	Total hours
Travis Hammond	7-1730 (10.5)	1730-2015 (2.75)	13.25

Distribution:

PBS 12/28/04

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0001UB
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	W 12/15/04
Height of Well Head Stick-up	3.5'	Date Well Developed	M 12/20/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE/BAIL/AIRLIFT

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0001UB	9:05	61.25			0	0	52020			
	9:20	55.95			8.5	20	52040			
	9:25	55.20			9.2	50	52070			
	9:30	54.04		7.0	8.5	110	52130			
	9:35	53.95		7.0	8.5	130	52150			LIFTED HOSE ~2'
										AVG FLOW RATE:
										= 52150 - 52040 = 110 GAL
										IN 15 MIN = 7.3 GPM
										HEIGHT WATER ROSE IN WELL:
										61.25 - 53.95 = 7.3 FT

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELL	Well Number	AW0002UB
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Sa 12/18/04
Height of Well Head Stick-up	~1.0'	Date Well Developed	Th 12/23/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: HAND BAIL/SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water in Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0002UB	12:19	61.5		0	0	0	52491			
	12:21	52.9		9.1	6.6	11	52502			
	12:25	51.3		9.2	6.5	24	52515			
	12:30	49.8		10.0	6.0	55	52546			
	12:33	49.6		10.0	6.0	74	52565			
										AVG FLOW RATE:
										63 GAL/12 min = 5.3 GPM
										HEIGHT OF WATER: 11.9 ft

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0003UB
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	W 12/15/04
Height of Well Head Stick-up	~1.5'	Date Well Developed	F 12/20/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0003UB	9:50	62.30		0	0	0	52170			
	10:10	49.50		7.0	8.5	22	52192			
	10:11	43.4		7.0	8.5	48	52218			
	10:14	39.2		7.0	8.5	69	52239			
	10:20	37.8		8.13	7.4	119	52289			
										AVG FLOW RATE:
										97 GAL / 10 = 9.7 GPM
										HEIGHT OF WATER = 24.5 ft

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BOE-C6-0051263

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELL	Well Number	AW0004 UB
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	F 12/17/04
Height of Well Head Stick-up	4.0' – CUTOFF LOWER (NOT RECORDED)	Date Well Developed	W 12/22/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL / SURGE / AIR LIFT

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water in Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0004UB	10:35	60.8		0	0	0	52318			
	10:38	60.0		8.1	7.4	11	52329			
	10:42	54.4		8.0	7.5	33	52351			FLOW RATE & TOTALIZER READINGS
	10:46	54.0		8.0	7.5	55	52373			DO NOT CORRELATE PRECISELY
	10:48	53.8		8.0	7.5	68	52386			(? TIMES OF TOTALIZER READINGS
										VS - STOPWATCH FOR FLOW RATE)
										AVG FLOW RATE:
										57 GAL / 10 MIN = 5.7 GPM
										HEIGHT OF WATER: 7.0 FT

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELL	Well Number	AW0005UB
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Sa 12/18/04
Height of Well Head Stick-up	0'	Date Well Developed	W 12/22/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL / SURGE / AIRLIFT

Well I.D.	Time (24 hr)	Depth to Water in Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~ TIME TO PUMP 1 GALLON (SECONDS)	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0005UB	11:38	59.0		0	0	0	52406			
	11:45	58.0		7.3	8.2	12	52418			
	11:48	52.5		7.3	8.2	25	52431			
	11:51	52.0		7.3	8.2	46	52452			
	11:55	51.7		8.0	7.5	76	52482			AVG FLOW RATE:
										64 gal / 10 min = 6.4 GPM
										HEIGHT OF WATER: 7.3 ft

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0049C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Th 12/16/04
Height of Well Head Stick-up	2.0'	Date Well Developed	M 12/20/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL / SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0049C	13:01	62.5		0	0	0	52574			
	13:03	58.3		8.0	7.5	6	52580			
	13:06	58.1		8.0	7.5	27	52601			
	13:09	58.0		9.0	6.6	41	52615			
	13:13	58.0		9.1	6.6	62	52636			
										AVG FLOWRATE:
										56 GAL / 10 MIN = 5.6 GPM
										HEIGHT OF WATER: 4.5 FT

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0059C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Th 12/16/04
Height of Well Head Stick-up	4.8' (CUT OFF LOWER - HEIGHT NOT RECORDED)	Date Well Developed	M 12/20/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0059C	13:22	65.2		0	0	0	52648			
	13:24	63.9		9.0	6.6	13	52661			
	13:30	63.5		10.0	6.0	26	52674			
	13:34	63.4		12.0	5.0	40	52688			
										AVG FLOW RATE = 27 GAL/10 MIN = 2.7 GPM
										HEIGHT WATER ROSE IN WELL = 1.8'

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0070C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Th 12/16/04
Height of Well Head Stick-up	2.0'	Date Well Developed	M 12/20/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0070C	13:58	62.15		0	0	0	52706			
		INJECTION WATER HOSE TO 50'. CASCADING WATER PREVENTING H_2O LEVEL MEASUREMENTS.								
	14:15			5.0	12	0				
	14:18			5.5	11	52	52758			
	ADDED HOSE LENGTH TO HAVE INJECTION POINT BELOW WATER TABLE									
	- START OVER -									
	14:30	62.1		0	0	0	52781			
	14:33	55.6		6.2	10	16	52797			
	14:35	55.3		6.0	10	36	52817			
	14:41	54.97		6.3	10+	83	52864			
	14:43	SHUT DOWN PUMP. WELL RECOVERED TO 61' IN 1 MINUTE								
										AVG FLOW RATE:
										67 GAL / 8 MIN = 8.4 GPM
										HEIGHT OF WATER: 7.13 ft

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0081C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	F 12/17/04
Height of Well Head Stick-up	3.0' (CUT LOWER, HEIGHT NOT RECORDED)	Date Well Developed	Th 12/23/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE/AIRLIFT

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0081C	14:55	63.00		0	0	0	52870			
	15:12	59.35		6.0	10	9	52879			
	15:15	58.99		6.2	9.7	31	52901			
	15:17	58.90		7.5	8	62	52932			
	15:20	58.95		7.0	8.5	87	52957			
	15:22	58.91		6.5	9.2	110	52980			
										AVG FLOWRATE:
										101 GAL / 10 MIN = 10.1 GPM
										HEIGHT OF WATER: 4.1 FT

PRS

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0092C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	Tu 12/21/04
Height of Well Head Stick-up	1.5 ft	Date Well Developed	Th 12/23/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL / SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0092C	15:36	63.95		0	0	0	52986			
	15:38	58.85		6.1	9.8	16	53002			
	15:41	58.20		6.3	9.5	41	53027			
	15:43	58.15		6.7	8.8	51	53037			
	15:45	58.07		6.5	9.2	74	53060			
	15:49	58.04		6.5	9.2	109	53095			
										AVG FLOW RATE:
										93 GAL / 11 MIN = 8.5 GPM
										HEIGHT OF WATER: 5.9 FT.

RK

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Amendment Well Water Injection Test Form

Project Name	C6 PHASE 2 AMENDMENT WELLS	Well Number	AW0093C
Project Location	19503 S. NORMANDIE AVE (PARCEL A)	Page	1 of 1
Project Number	28882-503	Technician Name	T. HAMMOND
Date	Th 12/23/04	Date Well Installed	TU 12/21/04
Height of Well Head Stick-up	2.0 ft	Date Well Developed	Th 12/23/04
Observation Wells Used	NA	Weather	CLEAR & COOL

DEVELOPMENT METHOD: BAIL/SURGE

TIME TO PUMP 1 GALLON (SECONDS)

Well I.D.	Time (24 hr)	Depth to Water In Well (feet below TOC)	~~Line Pressure (psi)~~	~~Well Head Pressure (psi)~~	Flow Rate (gpm)	Injection Volume (Running Total) (gal.)	Totalizer Reading (gal.)	Depth to Water in Obs. Well No. 1 (ft)	Depth to Water in Obs. Well No. 2 (ft)	Comments/Observations
AW0093C	15:58	63.85		0	0	0	53107			
	16:00	51.6		6.5	9.2	11	53118			
	16:02	50.1		6.8	8.8	21	53128			
	16:05	49.96		6.0	10	50	53157			
	16:10	50.0		7.5	8	100	53207			
										AVG FLOW RATE:
										89 GAL / 10 MIN = 8.9 GPM
										HEIGHT OF WATER: 13.85 ft

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