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TAOL6



National Nuclear Security Administration
 Los Alamos Site Office, MS A316
 Environmental Restoration Program
 Los Alamos, New Mexico 87544
 (505) 667-4255/FAX (505) 606-2132

Date: May 9, 2009
 Refer To: EP2009-0233

James P. Bearzi, Bureau Chief
 Hazardous Waste Bureau
 New Mexico Environment Department
 2905 Rodeo Park Drive East, Building 1
 Santa Fe, NM 87505-6303

Subject: Notification of Completion and Submittal of the Well Completion Summary Fact Sheets for PCI-2

Dear Mr. Bearzi:

Intermediate perched aquifer well PCI-2 was complete per the Compliance Order on Consent (IV.A.3.e.iv) (the Consent Order) on April 9, 2009. Completion of this well meets the Stipulated Penalty date of May 29, 2009, set forth in the New Mexico Environment Department letter of July 22, 2008, entitled, "Correction List of Documents Subject to Stipulated Penalties Under the March 1, 2005, Consent Order for Federal Fiscal Year 2009."

Also enclosed please find two hard copies with electronic files of the Well Completion Summary Fact Sheets for PCI-2. This submittal is in accordance with the Consent Order schedule of deliverables (Table XII-4).

If you have any questions, please contact Mark Everett at (505) 667-5931 (meverett@lanl.gov) or Ed Worth at (505) 606-0398 (eworth@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director
 Environmental Programs
 Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
 Environmental Operations
 Los Alamos Site Office



MG/DG/PH/ME:sm

Enclosures: Two hard copies with electronic files – Well Summary Data Sheet PCI-2 Borehole Stratigraphy and PCI-2 As-Built Well Construction Diagram (LA-UR-09-2847)

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo
Ed Worth, DOE-LASO, MS A316
Hai Shen, DOE-LASO, MS A316
Mark Everett, EP-LWSP, MS M992
RPF, MS M707 (with two CDs)
Public Reading Room, MS M992

Cy: (Letter and CD only)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-OB, White Rock, NM
Steve White, TerranearPMC, Los Alamos, NM
Kristine Smeltz, WES-DO, MS M992
EP-LWSP File, MS M992

Cy: (w/o enc.)
Tom Skibitski, NMED-OB, Santa Fe, NM
Keyana DeAgüero, DOE-LASO (date-stamped letter emailed)
Michael J. Graham, ADEP, MS M991
Alison M. Dorries, WES-DO, MS M992
Paul Huber, EP-LWSP, MS M992
IRM-RMMSO, MS A150 (date-stamped letter emailed)

TOTAL LENGTH
OF CASING AND SCREEN (FT) 536.2

DEPTH TO WATER FOLLOWING
INSTALLATION (FT BGS) 508.0 (04/11/09)

DIAMETER OF BOREHOLE
16.75 (IN) FROM 0.0 TO 292.9 (FT BGS)
12.75 (IN) FROM 292.9 TO 566.0 (FT BGS)

SURFACE COMPLETION (PROPOSED)
PROTECTIVE CASING
TYPE STEEL SIZE (IN) 10
PROTECTIVE POSTS INSTALLED YES
SURFACE SEAL AND PAD
CHECK FOR SETTLEMENT YES
PAD MATERIAL CONCRETE
REINFORCED WIRE MESH
PAD DIMENSIONS (FT) 10 (L) 10 (W) 0.5 (H)

SURFACE SEAL 3.0 TO 74.9 (FT BGS)

HYDRATED BENTONITE CHIP SEAL 74.9 TO 505.4 (FT BGS)

FINE SAND COLLAR 505.4 TO 506.5 (FT BGS)

FILTER PACK 506.5 TO 525.5 (FT BGS)

SCREENED INTERVAL 512.0 TO 522.0 (FT BGS)

BENTONITE SEAL 525.5 TO 533.5 (FT BGS)

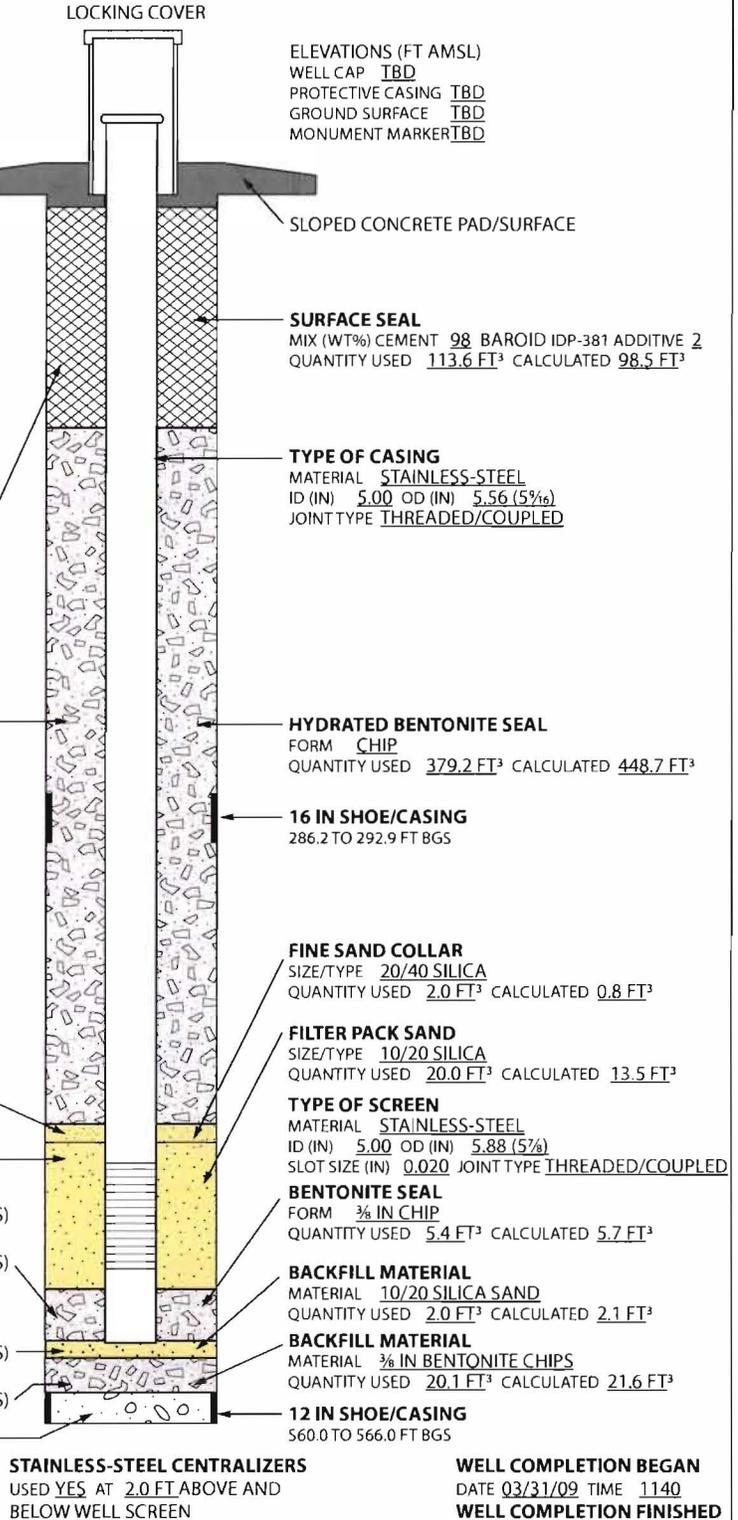
BOTTOM OF CASING 533.3 (FT BGS)

BACKFILL MATERIAL 533.5 TO 535.8 (FT BGS)

BACKFILL MATERIAL 535.8 TO 560.4 (FT BGS)

SLOUGH 560.4 TO 566.0 (FT BGS)

BOTTOM OF BORING 566.0 (FT BGS)



ELEVATIONS (FT AMSL)
WELL CAP TBD
PROTECTIVE CASING TBD
GROUND SURFACE TBD
MONUMENT MARKER TBD

SURFACE SEAL
MIX (WT%) CEMENT 98 BAROID IDP-381 ADDITIVE 2
QUANTITY USED 113.6 FT³ CALCULATED 98.5 FT³

TYPE OF CASING
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.56 (5⁵/₁₆)
JOINT TYPE THREADED/COUPLED

HYDRATED BENTONITE SEAL
FORM CHIP
QUANTITY USED 379.2 FT³ CALCULATED 448.7 FT³

16 IN SHOE/CASING
286.2 TO 292.9 FT BGS

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 2.0 FT³ CALCULATED 0.8 FT³

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 20.0 FT³ CALCULATED 13.5 FT³

TYPE OF SCREEN
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.88 (5⁷/₁₆)
SLOT SIZE (IN) 0.020 JOINT TYPE THREADED/COUPLED

BENTONITE SEAL
FORM 3/8 IN CHIP
QUANTITY USED 5.4 FT³ CALCULATED 5.7 FT³

BACKFILL MATERIAL
MATERIAL 10/20 SILICA SAND
QUANTITY USED 2.0 FT³ CALCULATED 2.1 FT³

BACKFILL MATERIAL
MATERIAL 3/8 IN BENTONITE CHIPS
QUANTITY USED 20.1 FT³ CALCULATED 21.6 FT³

12 IN SHOE/CASING
560.0 TO 566.0 FT BGS

STAINLESS-STEEL CENTRALIZERS
USED YES AT 2.0 FT ABOVE AND
BELOW WELL SCREEN

WELL COMPLETION BEGAN
DATE 03/31/09 TIME 1140
WELL COMPLETION FINISHED
DATE 04/10/09 TIME 1415

TerranearPMC

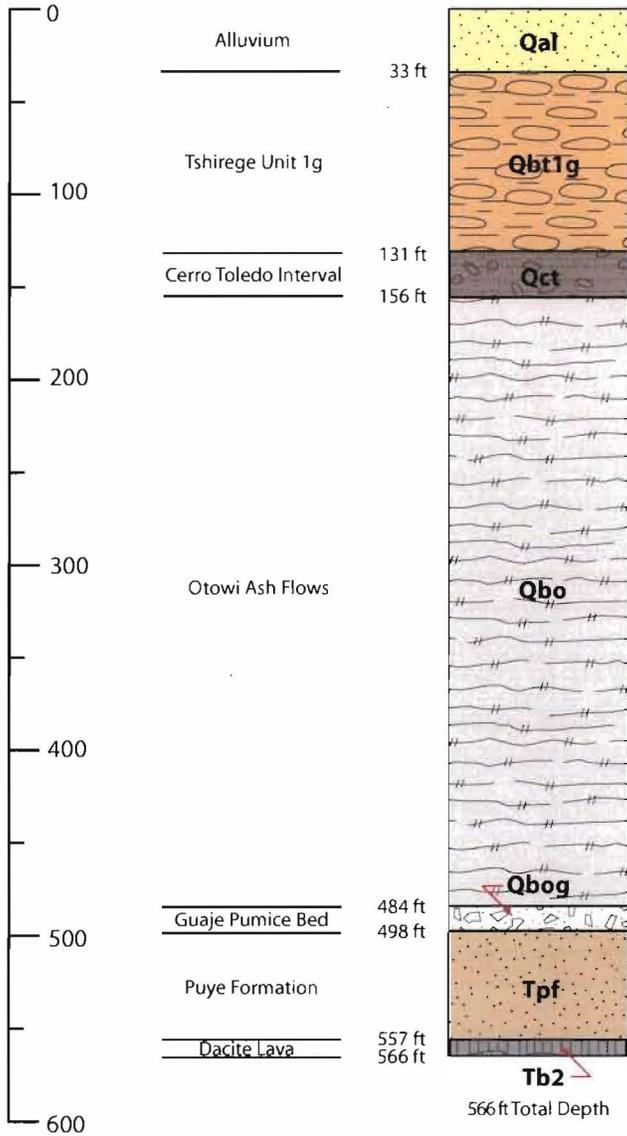
Drafted By: TPMC
Project Number: 80002

Date: April 27, 2009
File Name: PCI-2_WellConstruction_FactSheet

PCI-2 As-Built Well Construction Diagram
Pajarito Canyon
Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET
NOT TO SCALE

DEPTH (FT BGS)



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Boart Longyear
E. Johnson, E. Rivas

DRILL RIG: Foremost DR-24HD

DRILLING METHOD:

DUAL ROTARY

DRILLING FLUID TYPE:

0-392.0 ft bgs 392.0-566.0 ft bgs

WATER

WATER

AIR

AIR

AQF-2 FOAMING AGENT

DRILLING START/FINISH:

DATE: 03/13/2009 TIME: 1315

DATE: 03/23/2009 TIME: 1640

▼ 508.0 ft bgs 04/11/09
after well installation

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Drafted By: TPMC
Project Number: 80002

Date: April 28, 2009
Filename: PCI-2_Lithology_FactSheet_r2

PCI-2 BOREHOLE STRATIGRAPHY

Pajarito Canyon (TA-15)
Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET
NOT TO SCALE