Date: September 26, 2008  
Refer To: EP2008-0513

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: Submittal of the Well Completion Summary Fact Sheets for R-42

Dear Mr. Bearzi:

In accordance with the March 1, 2005, Compliance Order on Consent Schedule of Deliverables (Table XII-4), the U. S. Department of Energy and Los Alamos National Laboratory are submitting the attached Well Completion Summary Fact Sheets for Regional Well R-42 along with electronic files.

If you have any questions, please contact Mark Everett at (505) 667-5931 (meverett@lanl.gov) or Nancy Werdel at (505) 665-3619 (nwerdel@doeal.gov).

Sincerely,

Susan G. Stiger, Associate Director  
Environmental Programs  
Los Alamos National Laboratory

David R. Gregory, Project Director  
Environmental Operations  
Los Alamos Site Office
SS/DG/PH/ME: sm

Enclosure: Two hard copies with electronic files –
1) Well Summary Data Sheet R-42 Borehole Stratigraphy
2) R-42 As-Built Well Construction Diagram

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo
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
Nancy Werdel, DOE-LASO, MS A316
Pattie Baucom, 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
Alison Bennett, DOE-LASO (date-stamped letter emailed)
Susan G. Stiger, ADEP, MS M991
Alison M. Dorries, WES-DO, MS M992
Paul Huber, EP-LWSP, MS M992
IRM-RMMSO, MS A150 (date-stamped letter emailed)
**DEPTH (FT BGS)**

- **0 ft**
  - Alluvium (70 ft)
- **100 ft**
  - Otowi Ash Flows
- **200 ft**
  - Guaje Pumice Bed (367 ft)
- **300 ft**
  - Puye Formation (383 ft)
- **400 ft**
  - Basaltic Colluvium (393 ft)
- **500 ft**
  - Cerros del Rio Basalt (415 ft)
- **600 ft**
  - Puye Formation (680 ft)
- **700 ft**
  - Miocene Volcanic Sands and Gravels (pumiceous sediments) (900 ft)
- **800 ft**
  - Miocene Volcanic Silts and Sands with Subordinate Gravels (minor *pC clasts) (991 ft)
- **900 ft**
  - Miocene Volcanic Sands and Gravels (pumiceous sediments) (991 ft)
- **1000 ft**
  - Total Depth (1047.5 ft)

**DRILLING INFORMATION**

**DRILLING COMPANY/PERSOENNEL:**
Boart Longyear
D. McCurdy, J. Staloch, E. Johnson

**DRILL RIG:** Foremost DR-24HD

**DRILLING METHOD:**
- DUAL ROTARY

**DRILLING FLUID TYPE:**
- 0-790 ft bg s: WATER
- 790-1047.5 ft bg s: WATER
- 1047.5 ft bg s: AQF-2 FOAMING AGENT

**DRILLING START/FINISH:**
- DATE: 6/30/2008 TIME: 1235
- DATE: 7/18/2008 TIME: 1415

**WELL SUMMARY DATA SHEET**

**FACT SHEET**

*Note:* *pC = Precambrian