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National Nuclear Security Administration
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Date: July 27, 2007
Refer To: EP2007-0468

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 Well Completion Summary Fact Sheets R35b

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-35b along with electronic files.

If you have any questions, please contact Mark Everett at (505) 667-5931 (meverett@lanl.gov) or Mat Johansen at (505) 665-5046 (mjohansen@doel.gov).

Sincerely,

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

Sincerely,

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



16386

SGS/DRG/TBA/MCE:sm

Enclosure: Two hard copies with electronic files –
1) Well Summary Data Sheet, Characterization Well R-35b
2) Well Schematic, Characterization Well R-35b

Cy: (w/enc.)
Mat Johansen, DOE-LASO, MS A316
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EP-LWSP File, MS M992
RPF, MS M707 (with two CDs)
Public Reading Room, MS M992

Cy: (Letter and CD only)
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TOTAL LENGTH OF CASING AND SCREEN (FT) 876.4

DEPTH TO WATER FOLLOWING INSTALLATION (FT BGS) 786.9 (7/15/07)

DIAMETER OF BOREHOLE
16.75" FROM 3 FT TO 262 FT BGS
15" FROM 262 FT TO 615 FT BGS
10.75" FROM 615 FT TO 897.6 FT BGS

SURFACE COMPLETION INFORMATION
TYPE OF PROTECTIVE CASING

- STEEL SIZE 10"
- PROTECTIVE POSTS INSTALLED

SURFACE SEAL AND PAD COMPLETION (TBD)

- CHECKED FOR SETTLEMENT
- MATERIAL USED CONCRETE
- REINFORCED: NO YES MESH
- PAD DIMENSIONS 5 FT (L) x 5 FT (W) x 0.5 FT (H)

SURFACE SEAL 3.0 TO 161.4 (FT BGS)

HYDRATED BENTONITE CHIPS 161.4 TO 611.0 (FT BGS)

HIGH SOLIDS BENTONITE GROUT 611.0 TO 779.1 (FT BGS)

BENTONITE SEAL 779.1 TO 817.2 (FT BGS)

FINE SAND COLLAR 817.2 TO 820.1 (FT BGS)

FILTER PACK 820.1 TO 854.6 (FT BGS)

SCREENED INTERVAL 825.4 TO 848.5 (FT BGS)

STAINLESS-STEEL CENTRALIZERS USED

- YES AT 820.4 4 BANDS EACH
- 853.5 4 BANDS EACH

BENTONITE SEAL 854.6 TO 863.2 (FT BGS)

BOTTOM OF CASING 872.2 (FT BGS)

BACKFILL MATERIAL 863.2 TO 873.6 (FT BGS)

BENTONITE SEAL 873.6 TO 897.6 (FT BGS)

BOTTOM OF BORING 897.6 (FT BGS)

- LOCKING COVER (TBD)
- WELL CAP (TBD)
- ELEVATION OF PROTECTIVE CASING (TBD)
- ELEVATION OF TOP OF WELL CASING (FT AMSL) (TBD)
- GROUND SURFACE ELEVATION (FT AMSL) (TBD)
- MONUMENT MARKER ELEVATION (FT AMSL) (TBD)

SURFACE SEAL GROUT FORMULA (PROPORTION OF EACH)
 CEMENT 95-98% BENTONITE 2-5%
 QUANTITY USED 298.8 ft³
 CALCULATED VOLUME 220.8 ft³

TYPE OF CASING
 STAINLESS STEEL
 CASING DIAMETER
 INSIDE 4.5"
 OUTSIDE 5.0"

HYDRATED 3/8" BENTONITE CHIP SEAL
 QUANTITY USED 543.0 ft³
 CALCULATED VOLUME 521.9 ft³

HIGH SOLIDS BENTONITE GROUT
 QUANTITY USED 82.9 ft³
 CALCULATED VOLUME 83.2 ft³

BENTONITE SEAL
 3/8" BENTONITE CHIPS

FINE SAND COLLAR
 SIZE / TYPE 20/40
 QUANTITY USED 4.9 ft³
 CALCULATED VOLUME 1.5 ft³

TYPE OF SCREEN
 STAINLESS STEEL
 SCREEN DIAMETER
 INSIDE 4.375" SLOT SIZE 0.020"
 OUTSIDE 5.0" JOINT TYPE: THREADED/COUPLED

FILTER PACK
 SAND SIZE 10/20 CALCULATED VOLUME 17.07 ft³
 QUANTITY USED 36 ft³

BENTONITE SEAL
 3/8" BENTONITE CHIPS

BACKFILL MATERIAL
 8/12 SAND

BENTONITE SEAL 3/8" BENTONITE CHIPS

WELL COMPLETION BEGAN
 DATE 6/29/07 TIME 0900
WELL COMPLETION FINISHED
 DATE 7/11/07 TIME 1625

WELL DEVELOPMENT INFORMATION

WELL DEVELOPMENT BEGAN
 DATE 7/12/07 TIME 1600

WELL DEVELOPMENT FINISHED
 DATE TBD TIME TBD

DEVELOPMENT METHOD

- SWABBING BAILING
- PUMPING

TOTAL PURGE VOLUME 21090 GALLONS

PARAMETER MEASUREMENTS

pH 7.63
 TEMPERATURE 24.78° C
 SPECIFIC CONDUCTANCE 0.188uS/cm
 TURBIDITY 3.84 NTUs



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 Project Number: 32002

Date: July 18, 2007
 Filename: Figure X-X

WELL SCHEMATIC
Characterization Well R-35b
 Sandia Canyon
 Los Alamos National Laboratory
 Los Alamos, New Mexico

FIGURE
7.22

NOT TO SCALE

