



**Associate Director for ESH**  
Environment, Safety, and Health  
P.O. Box 1663, MS K491  
Los Alamos, New Mexico 87545  
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**RECEIVED**  
**DEC 10 2014**  
**NMED**  
**Hazardous Waste Bureau**

ESHID-600075



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

Date: **DEC 10 2014**

Refer To: ADESH-14-138

Laur: 14-29186

Locates Action No.: N/A

John Kieling, 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 Fact Sheets for Well R-63i**

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for Well R-63i.

If you have any questions, please contact John McCann at (505) 665-1091 (jmccann@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

Sincerely,

Michael T. Brandt, DrPH, CIH, Associate Director  
Environment, Safety, and Health  
Los Alamos National Laboratory

Sincerely,

Peter Maggioro, Assistant Manager  
Environmental Projects Office  
Los Alamos Field Office

MB/PM/DM/JM:sm

Enclosures: Two hard copies with electronic files – Fact Sheets for Well R-63i

Cy: (w/enc.)

Hai Shen, DOE-NA-LA, MS A316  
Cheryl Rodriguez, DOE-NA-LA, MS A316  
John McCann, EP-CAP, MS M992  
Public Reading Room (EPRR)  
ADESH Records (electronic copy)

Cy: (Letter and CD and/or DVD)

Laurie King, EPA Region 6, Dallas, TX  
Steve Yanicak, NMED-DOE-OB, MS M894  
Steve White, TPMC (w/ MS Word files on CD)  
Steve Paris, EP-CAP, MS M992  
PRS Database

Cy: (w/o enc.)

Tom Skibitski, NMED-DOE-OB (date-stamped letter emailed)  
lasomailbox@nnsa.doe.gov  
Annette Russell, DOE-NA-LA (date-stamped letter emailed)  
David Rhodes, DOE-NA-LA (date-stamped letter emailed)  
Kimberly Davis Lebak, DOE-NA-LA (date-stamped letter emailed)  
Dave McInroy, EP-CAP (date-stamped letter emailed)  
Randy Erickson, ADEP (date-stamped letter emailed)  
Tony Grieggs, ADESH-ENV-CP (date-stamped letter emailed)  
Alison Dorries, ADESH-ENV-DO (date-stamped letter emailed)  
Michael Brandt, ADESH (date-stamped letter emailed)

TOTAL LENGTH  
OF CASING AND SCREEN (1214.3 FT)

DEPTH TO WATER  
FOLLOWING INSTALLATION (1175.9 FT BGS) (11/11/14)

DIAMETER OF BOREHOLE  
 28.00 (IN) FROM 0 TO 59 (FT BGS)  
 24.00 (IN) FROM 59 TO 59.8 (FT BGS)  
 22.00 (IN) FROM 59.8 TO 709.0 (FT BGS)  
 18.00 (IN) FROM 709.0 TO 852.0 (FT BGS)  
 16.00 (IN) FROM 852.0 TO 1027.7 (FT BGS)  
 12.75 (IN) FROM 1027.7 TO 1245.0 (FT BGS)

**SURFACE COMPLETION** (proposed)

PROTECTIVE CASING  
 TYPE STEEL SIZE (IN) 16  
 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) 0.8 (H)

**SURFACE SEAL** 3.0 TO 62.6 (FT BGS)

**BENTONITE SEAL** 62.6 TO 1115.5 (FT BGS)

**FINE SAND COLLAR** 1115.5 TO 1117.6 (FT BGS)

**FILTER PACK** 1117.6 TO 1194.1 (FT BGS)

**SCREENED INTERVAL** 1122.5 TO 1189.0 (FT BGS)

**BOTTOM OF CASING** 1211.6 (FT BGS)

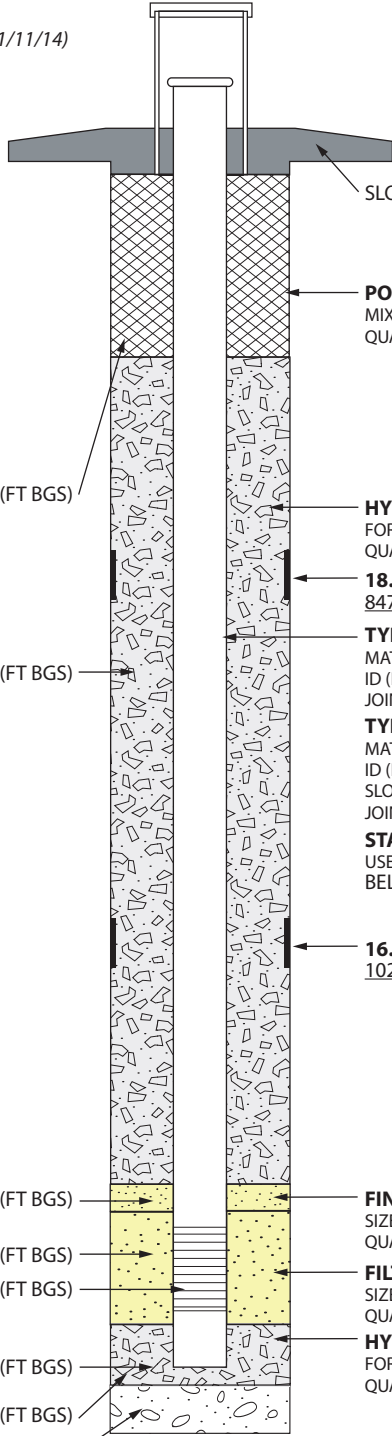
**BACKFILL** 1194.1 TO 1236.8 (FT BGS)

**SLOUGH** 1236.8 TO 1245.0 (FT BGS)

**BOTTOM OF BORING** 1245.0 (FT BGS)

LOCKING COVER

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



SLOPED CONCRETE PAD/SURFACE SEAL

**PORTLAND CEMENT SEAL**  
 MIX (WT%) CEMENT 100 BENTONITE 0  
 QUANTITY USED 213.9 FT<sup>3</sup> CALC 175.6 FT<sup>3</sup>

**HYDRATED BENTONITE SEAL**  
 FORM 3/8-IN BENTONITE CHIP  
 QUANTITY USED 1809.5 FT<sup>3</sup> CALC 2103.4 FT<sup>3</sup>

**18.00-IN CSG/SHOE**  
 847.0 TO 852.0 (FT BGS)

**TYPE OF CASING**  
 MATERIAL PASSIVATED A304 STAINLESS STEEL  
 ID (IN) 5.00 OD (IN) 5.56 (5%<sub>16</sub>)  
 JOINT TYPE THREADED/COUPLED

**TYPE OF SCREEN(S)**  
 MATERIAL A304 STAINLESS STEEL  
 ID (IN) 5.00 OD (IN) 5.88 (5%<sub>16</sub>)  
 SLOT SIZE (IN) 0.040  
 JOINT TYPE THREADED/COUPLED

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

**16.00-IN CSG/SHOE**  
 1022.8 TO 1027.7 (FT BGS)

**FINE SAND COLLAR**  
 SIZE/TYPE 20/40 SILICA  
 QUANTITY USED 1.6 FT<sup>3</sup> CALC 1.5 FT<sup>3</sup>

**FILTER PACK SAND**  
 SIZE/TYPE 10/20 SILICA  
 QUANTITY USED 73.8 FT<sup>3</sup> CALC 55.1 FT<sup>3</sup>

**HYDRATED BENTONITE BACKFILL**  
 FORM 3/8-IN BENTONITE CHIP  
 QUANTITY USED 36.4 FT<sup>3</sup> CALC 35.0 FT<sup>3</sup>

**WELL COMPLETION BEGAN**  
 DATE: 10/14/2014 TIME: 14:25  
**WELL COMPLETION FINISHED**  
 DATE: 11/10/2014 TIME: 15:20



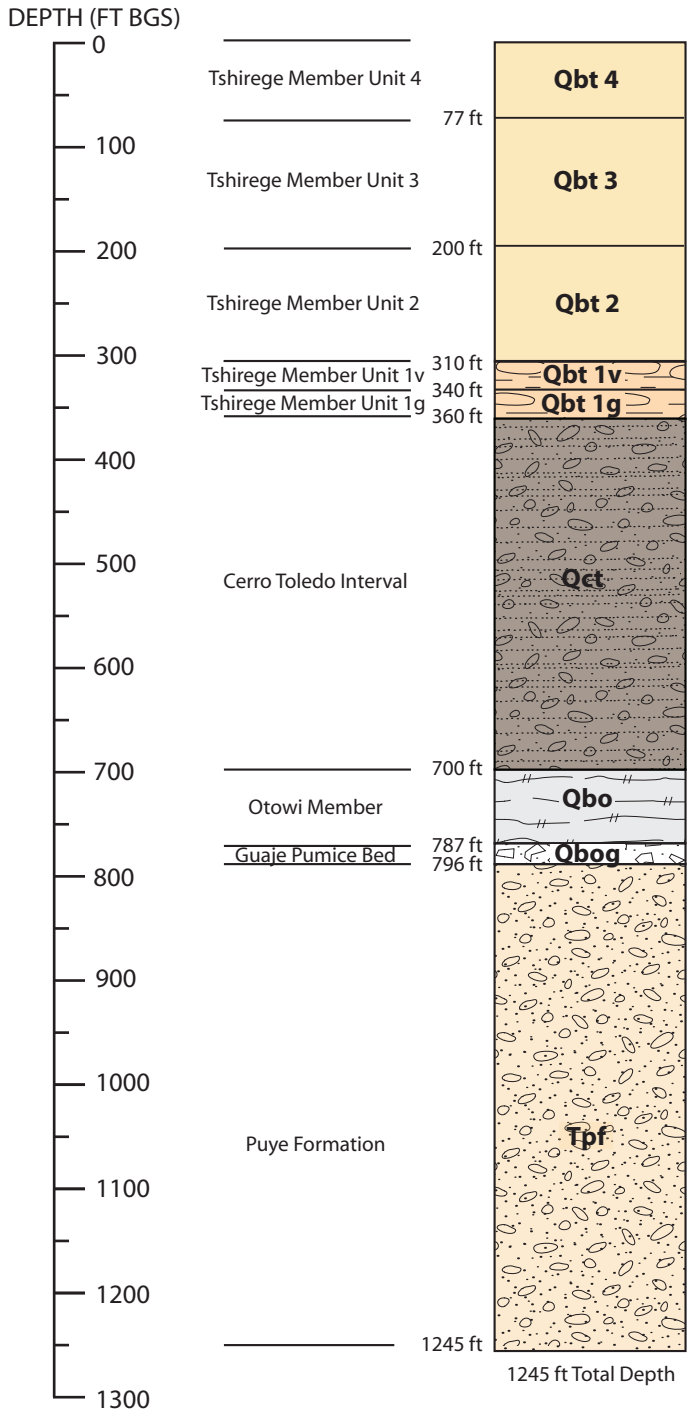
**R-63i As-Built Well Construction**  
 Technical Area 16 (TA-16)  
 Los Alamos National Laboratory  
 Los Alamos, New Mexico

Fact Sheet

**R-63i**

NOT TO SCALE

Drafted By: TPMC  
 Project Number: 86309  
 Date: November 19, 2014  
 File Name: R-63i\_As Built Fact Sheet\_Rev1



**DRILLING INFORMATION**

**DRILLING COMPANY/PERSONNEL:**  
Boart Longyear  
M. Cross, R. Parkin, D. Sandy, N. Hinton

**DRILL RIG:** LM-140, Foremost DR-24HD

**DRILLING METHOD:**  
 DUAL ROTARY     AIR ROTARY

**DRILLING FLUID TYPE:**  
 0-974 ft bgs                      974-1245 ft bgs  
 WATER                               WATER  
 AIR                                       AIR  
 QUIK FOAM FOAMING AGENT

**DRILLING START/FINISH:**  
 DATE: 08/01/2014    TIME: 2015  
 DATE: 10/09/2014    TIME: 1830

▼ 1187.22 ft bgs (10/13/14)  
(pre well installation)