

LA-UR-11-10215

Approved for public release; distribution is unlimited.

Title: Fact Sheets for R-63

Author(s): Ball, Theodore T.

Intended for:
NMED
NMED
Remediation
Reading Room
Consent



Disclaimer:

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.



Los Alamos
 NATIONAL LABORATORY
 EST. 1943
Environmental Programs
 P.O. Box 1663, MS M991
 Los Alamos, New Mexico 87545
 (505) 606-2337/FAX (505) 665-1812



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: **MAR 09 2011**
 Refer To: EP2011-0102

James 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 Fact Sheets for R-63

Dear Mr. Bearzi:


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

If you have any questions, please contact Ted Ball at (505) 665-3996 (tedball@lanl.gov) or Woody Woodworth at (505) 665-5820 (lwoodworth@doeal.gov).

Sincerely,


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

Sincerely,


 George J. Rael, Manager
 Environmental Projects Office
 Los Alamos Site Office

MG/GR/DM/TB:vt

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

Cy: (w/enc.)

Neil Weber, San Ildefonso Pueblo
Woody Woodworth, DOE-LASO, MS A316
Ted Ball, EP-CAP, MS M992
RPF, MS M707 (w/ two CDs)
Public Reading Room, MS M992

Cy: (Letter and CD and/or DVD only)

Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
William Alexander, EP-BPS, MS M992

Cy: (w/o enc.)

Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)
Annette Russell, DOE-LASO (date-stamped letter emailed)
Dave McInroy, EP-CAP, MS M992 (date-stamped letter emailed)
Michael J. Graham, ADEP, MS M991 (date-stamped letter emailed)

TOTAL LENGTH
CASING AND SCREEN (ft) TBD

DEPTH TO WATER
AFTER WELL DEVELOPMENT &
AQUIFER TESTING (ft bgs) 1260.4 (02/25/11)

DIAMETER OF BOREHOLE
33.0 (in.) FROM 0.0 TO 21.0 (ft bgs)
24.0 (in.) FROM 0.0 TO 57.7 (ft bgs)
17.0 (in.) FROM 57.7 TO 867.5 (ft bgs)
14.3 (in.) FROM 867.5 TO 1130.7 (ft bgs)
11.6 (in.) FROM 1130.7 TO 1423.8 (ft bgs)

ANNULAR CEMENT SEAL 0.0 TO 21.0 (ft bgs)
(outside 24" surface casing)
24-in. SURFACE CASING 0.0 TO 57.7 (ft bgs)
SURFACE SEAL 2.0 TO 69.6 (ft bgs)

SURFACE COMPLETION INFORMATION

PROTECTIVE CASING
TYPE STEEL SIZE 16.0(in.)
PAD AND PROTECTIVE POSTS INSTALLED TBD
SURFACE SEAL AND PAD
CHECK FOR SETTLEMENT TBD
PAD MATERIAL REINFORCED CONCRETE ~3500 psi
REINFORCED WITH REBAR WITH 1/8-in. WIRE MESH
PAD DIMENSIONS (ft) 10.0 (L) 10.0 (W) 0.5 (H)

BENTONITE SEAL 69.6 TO 1316.3 (ft bgs)

STAINLESS STEEL CENTRALIZERS USED
 YES AT 1323.7 & 1346.6 (ft bgs)

FINE SAND COLLAR 1316.3 TO 1318.5 (ft bgs)

FILTER PACK 1318.5 TO 1352.5 (ft bgs)

SCREENED INTERVAL 1325.0 TO 1345.3 (ft bgs)

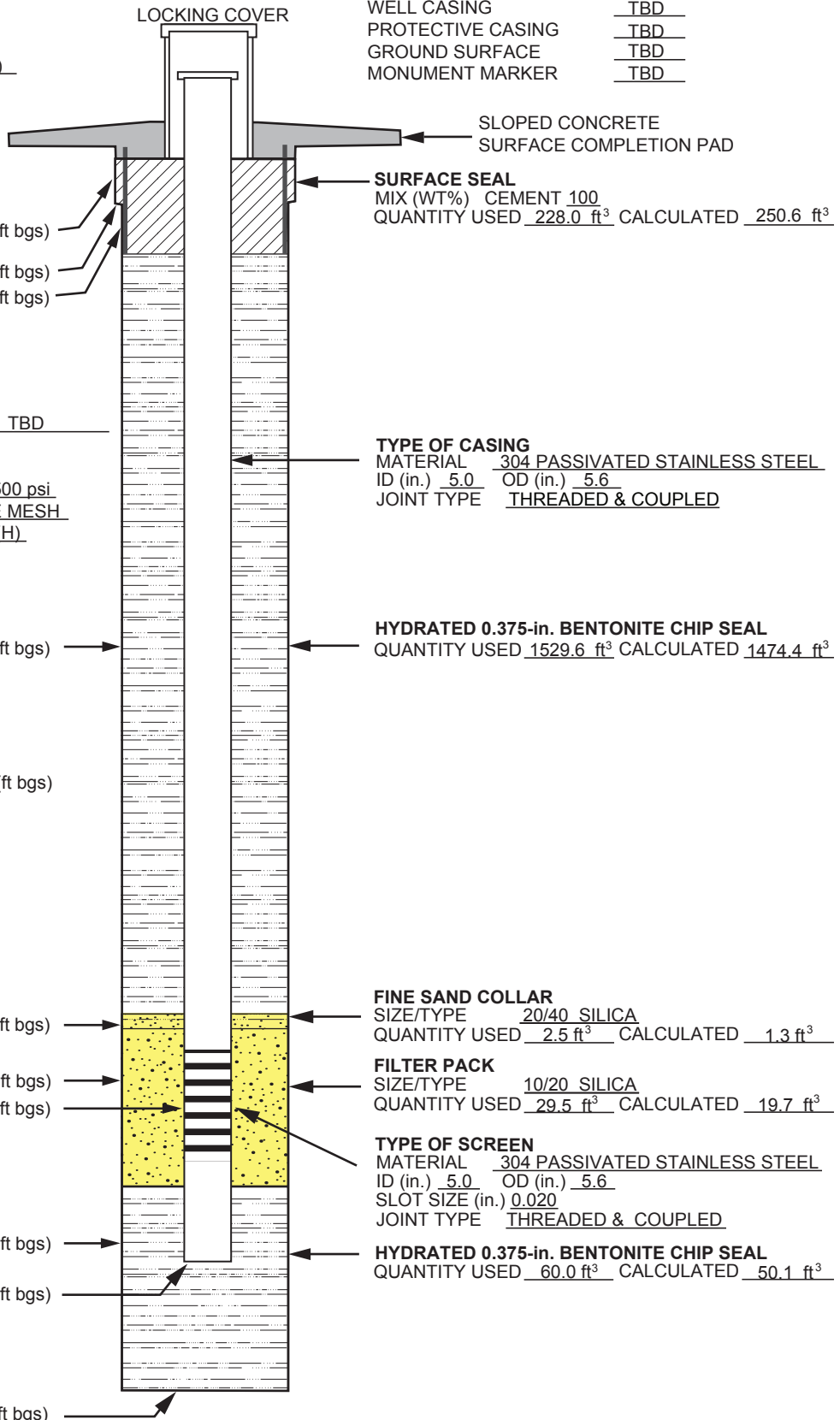
BENTONITE SEAL 1352.5 TO 1423.8 (ft bgs)

BOTTOM OF WELL CASING 1367.0 (ft bgs)

BOTTOM OF BORING 1423.8 (ft bgs)

ELEVATIONS (ft amsl)

WELL CASING TBD
PROTECTIVE CASING TBD
GROUND SURFACE TBD
MONUMENT MARKER TBD



WELL DEVELOPMENT BEGAN

Date 02/10/11
Time 0916

WELL DEVELOPMENT FINISHED

Date 02/12/11
Time 1212

DEVELOPMENT METHOD

Swabbing Bailing
 Pumping
Total Purge Volume 15,739 gal.

FINAL PARAMETERS

pH 7.3
Temperature (°C) 14.0
Specific Conductance (µS/cm) 110
Turbidity (NTU) 3.5

WELL COMPLETION BEGAN

Date 01/28/11 Time 1645

WELL COMPLETION FINISHED

Date 02/09/11 Time 1400

EP2011-0102



Drafted by: North Wind, Inc.
Project Number: 10005.006.16.01

Date: February 28, 2011
Filename: R-63_WellSchematic(AsBuilt).ai

R-63 WELL CONSTRUCTION DIAGRAM (AS BUILT)

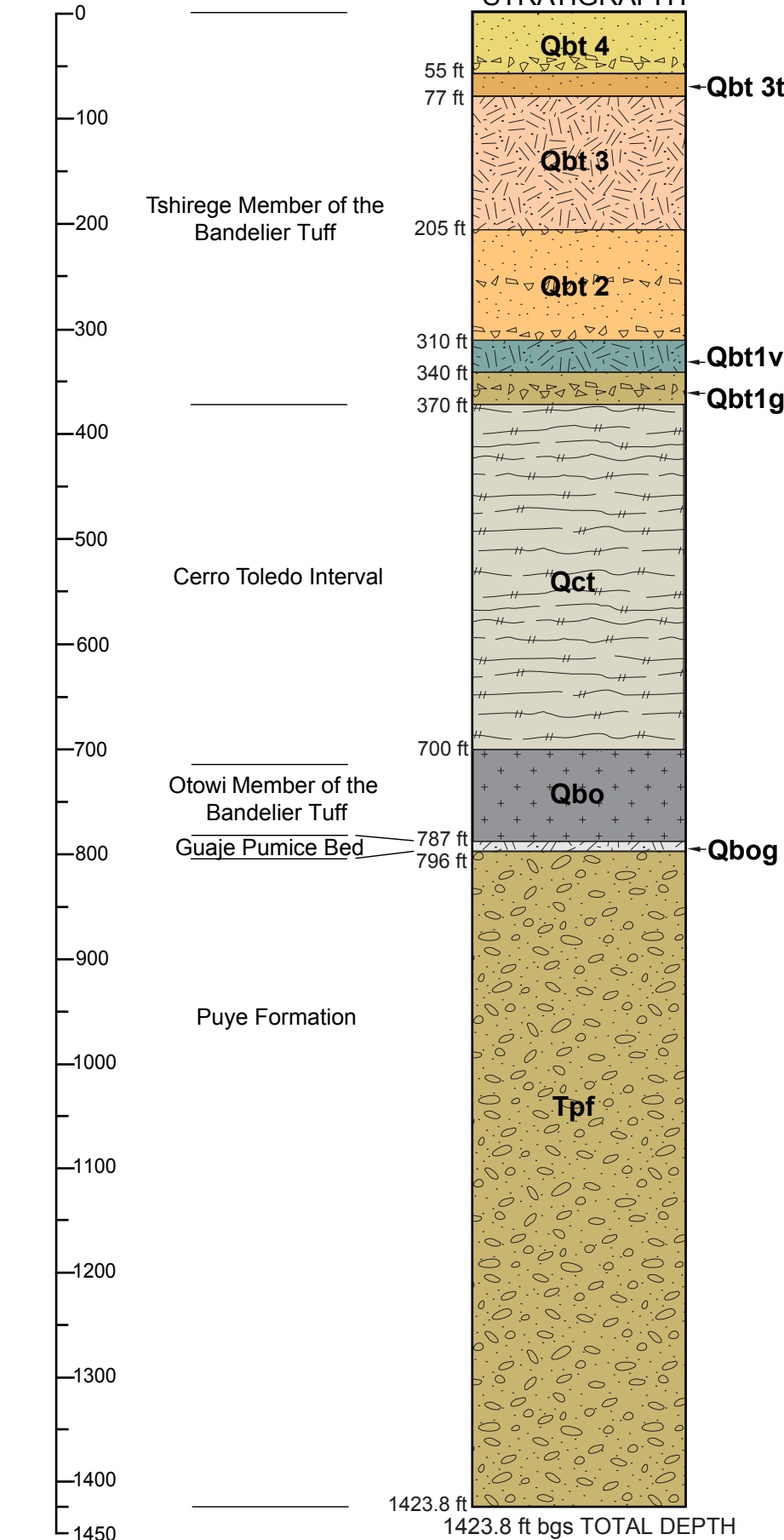
TA-16
Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET

NOT TO SCALE

DEPTH (FT BGS)

STRATIGRAPHY



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:
Layne Christensen Company
E. Applegarth, K. Keller, R. Treptow

DRILL RIG: Schramm T130XD

DRILLING METHOD:
 AIR ROTARY
 DUAL ROTARY

DRILLING FLUID TYPE
0.0 - 1212.0 ft bgs 1212.0 - 1423.8 ft bgs
 WATER WATER
 AIR AIR
 AQF-2 FOAM™

DRILLING START/FINISH:

DATE: 12/21/10 TIME: 1550
DATE: 01/20/11 TIME: 0230

▼ 1255.3 ft bgs (01/28/11)
(water level prior
to well installation)

EP2011-0102



Drafted by: North Wind, Inc.
Project Number: 10005.006.16.01

Date: February 28, 2011
Filename: R-63_Lithology.ai

R-63 WELL SUMMARY DATA SHEET
Borehole Stratigraphy
TA-16

Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET

NOT TO SCALE