

TA-5



Department of Energy
National Nuclear Security Administration
Los Alamos Site Office
Los Alamos, New Mexico 87544



JAN 23 2004

CERTIFIED MAIL/RETURN RECEIPT

Mr. John Young
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East,
Building 1
Santa Fe, NM 87505-6303

Subject: Fact Sheet for R-1

Dear Mr. Young:

Enclosed is the fact sheet for R-1, which was recently completed by Kleinfelder, Inc.

Sincerely,

Mat Johansen
Project Manager
Program Compliance Manager

OPM:1TW-001

Enclosure: R-1 Fact Sheet

cc w/enclosure:

- John Kieling
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East,
Building 1
Santa Fe, NM 87505-6303
- B. Enz, OPM, LASO
- M. Johansen, OPM, LASO
- T. Whitacre, OPM, LASO
- T. Taylor, OOM, LASO
- S. Yanicak, NMED-DOE OB, MS-J993
- K. Hargis, RRES-DO, LANL, MS-J591
- J. McCann, RRES-WQH, LANL, MS-M992
- C. Nylander, RRES, LANL, MS-J591
- N. Quintana, RRES-R, LANL, MS-M992
- S. Rae, LANL, RRES-WQH, LANL, MS-K497
- B. Ramsey, LANL, RRES-DO, LANL, MS-J591
- M. Reed, RRES-DO, LANL, MS-J556
- B. Robinson, EES-6, LANL, MS-T003
- D. Stavert, RRES-D, LANL, MS-J591



2838

Location: Upper Mortandad Canyon - TA-5

Description: Brass Marker
 Northing: Survey to be performed February 2004
 Easting: Survey to be performed February 2004
 Elevation: Survey to be performed February 2004

Description: Well Casing
 Northing: Survey to be performed February 2004
 Easting: Survey to be performed February 2004
 Elevation: Survey to be performed February 2004

Description: Core Hole
 Northing: Survey to be performed February 2004
 Easting: Survey to be performed February 2004
 Elevation: Survey to be performed February 2004

Coring: (0' - 399') Continuous Sampler

Drilling:
 (0' - 90') 13-3/8" Air Rotary Casing Hammer
 (90' - 1165') 12-1/4" Mill-Tooth Tri-Cone

Data Collection:

- Hydrologic Properties:
 - Proposed Constant Discharge Pumping Test - Scheduled for Jan. 2004
- Cores/Cuttings submitted for geochemical and contaminant characterization: 19
- Ground Water Samples Submitted
 - Perched Ground Water - 11/01/03 (72.6')
 - Regional Ground Water - 11/9/03 (1020')
 - 11/25/03 (1000')

Geologic Properties:
 Mineralogy, petrography, and chemistry: 7

Borehole Logs:

- Lithologic: 0' - 1165'
- Video (LANL tool): 0' - 1000'
- Schlumberger logs:
 - Compensated Neutron Log: Cased: 30'-90'; Open Hole: 90'-1165'
 - Triple Litho-Density: Cased: 30'-90'; Open Hole: 90'-1165'
 - Array Induction Imager: Cased: none; Open Hole: 90'-1135'
 - Elemental Capture Sonde: Cased: none; Open Hole: 110'-1156'
 - Natural GR Spectroscopy: Cased: none; Open Hole: 90'-1142'
 - Combinable Magnetic Resonance: Cased: none; Open Hole: 110'-1146'
 - Fullbore Formation Micro Imager: Cased: none; Open Hole: 980'-1165'

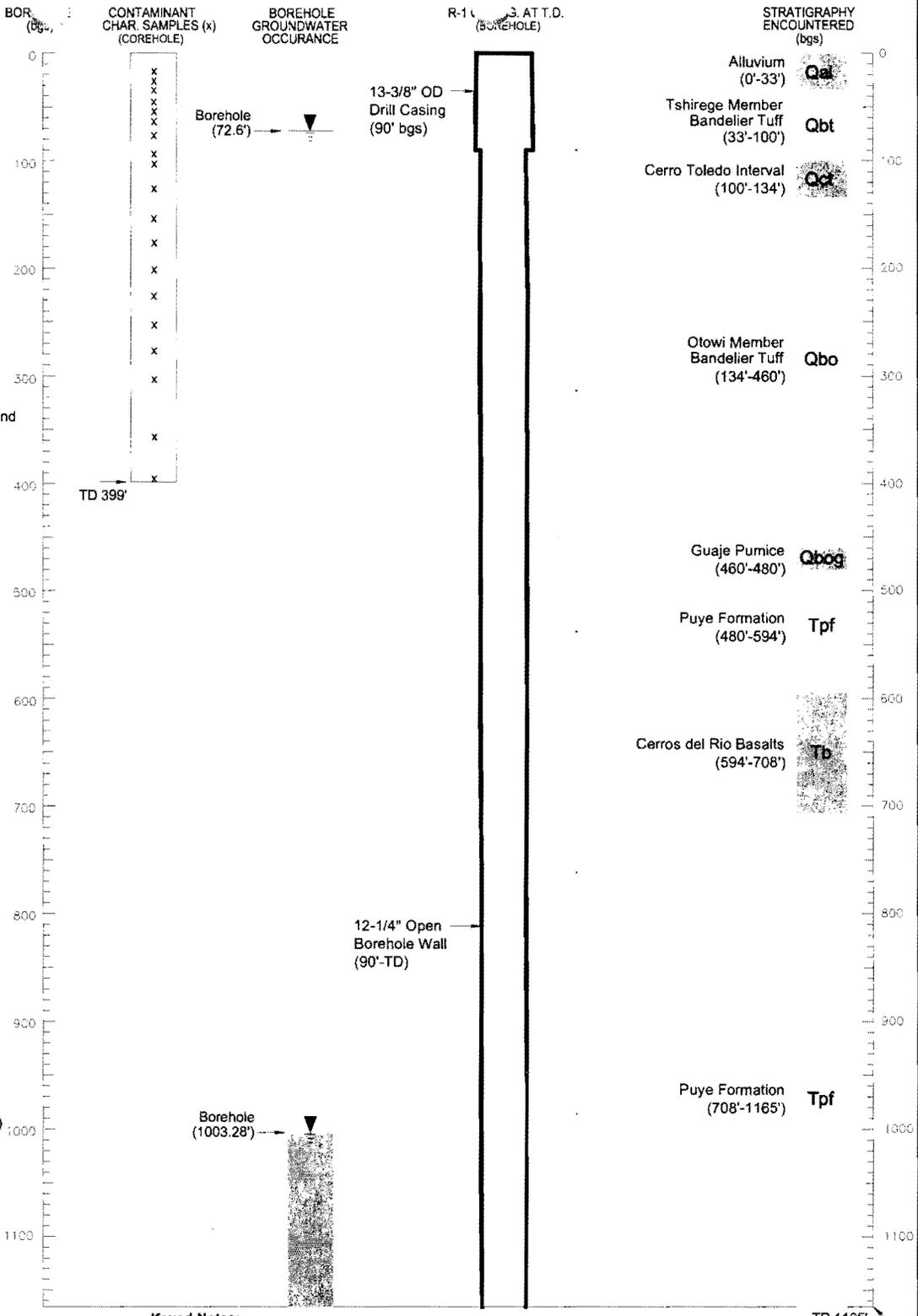
Corehole Logs:

- Lithologic: 0' - 399'
- Video (LANL tool): None
- Gamma Ray (LANL Tool): 01/05/04

Core Drilling Completed: 12/01/03 - 12/17/03
 Rotary Drilling Completed: 10/31/03 - 11/08/03
 Contract Geophysics: 11/08/03
 Well Installation: 11/10/03 - 11/14/03
 Well Development Completed: 11/19/03 - 11/25/03

- Casing: 4.5" I.D. / 5.0" O.D. A304 Stainless Steel casing with external couplings
- Number of Screens: One (1) 4.46" I.D./5.27" OD, Rod-based, with external couplings - (1031.1' - 1057.4') wire wrapped 0.020 slot stainless steel, well development performed by swabbing, bailing, and pumping.

Total Volume Purged: 9,730 gallons



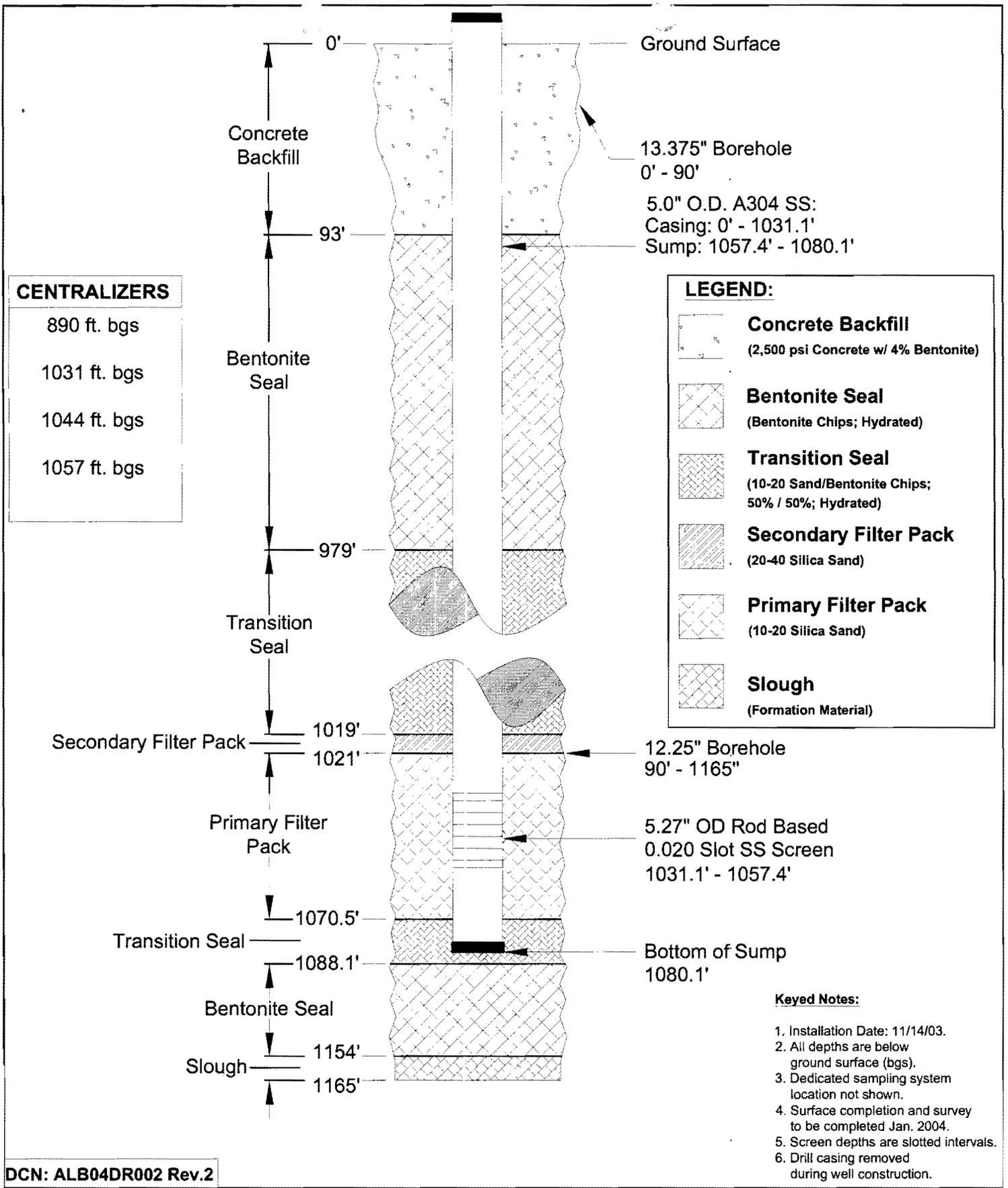
- Keyed Notes:**
- Coordinates - NM State Plane Grid Central Zone (North America) Datum - 1983 (NAD83); expressed in feet.
 - Elevations - National Geodetic Vertical Datum (NGVD 29); expressed in feet above mean sea level.
 - Surface completion and surveying to be performed February 2004.
 - All depths are below ground surface (bgs).
 - Post development groundwater level measurement recorded 12-20-03.
 - Groundwater measurement of 72.6' was made with 20' of 13-3/8" casing in place on November 1, 2003.
 - Drill casing removed during well installation.

DCN: ALB04DR001 Rev.2

KLEINFELDER	
Drawn By: C. Landon	Date: January 2004
Project No.: 37151	Filename: ALB04DR001 REV 2
Scale: Not-To-Scale	Revision: 2
Reviewed By: F. Schelby	Approved By: M. Everett

Construction, Stratigraphic, and Hydrogeologic Information for Characterization Well R-1
 Los Alamos National Laboratory
 Los Alamos, New Mexico

FIGURE
1



DCN: ALB04DR002 Rev.2

Drawn By: C. Landon	Date: January 2004
Project No.: 37151	Filename: ALB04DR002 REV 2
Scale: Not-To-Scale	Revision: 2
Reviewed By: F. Schelby	Approved By: M. Everett

**Schematic Diagram of
Characterization Well R-1**
Los Alamos National Laboratory
Los Alamos, New Mexico

FIGURE

2