



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



Office Pueblo Canyon, R-4, TA-Operations TA-45

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

Subject: Fact Sheet for R-4

Dear Mr. Young:

Enclosed is the fact sheet for R-4, which was recently completed by Kleinfelder, Inc.

Sincerely,

Mat Johansen
Project Manager
Program Compliance Manager

OPM:8TW-00 1

Enclosure: R-4 Fact Sheet

cc w/enclosures

- 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
- S. Yanicak, NMED-DOE OB, MS-J993
- K. Hargis, RRES-DO, LANL, MS-J591
- J. McCann, RRES-WQH, LANL, MS-M 992
- 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



Location: At inactive emergency Landing Strip
in Pueblo Canyon; TA-74

Survey Coordinates / Elevations:

- Coordinates: NAD83
- Elevation: NGVD29

Description: Brass Marker in Concrete Pad

Northing: 1776530.2840
Easting: 1639287.9770
Elevation: 6577.49

Description: Well Casing

Northing: 1776528.0041
Easting: 1639289.9809
Elevation: 6579.46

Description: Abandoned Borehole

Distance from Brass Marker: 125.35' South East

Description: Core Hole Piezometer - West

Distance from Brass Marker: 16.38' South East

Description: Core Hole Piezometer - East

Distance from Brass Marker: 16.47' South East

Coring:

- (0'-68') Continuous Sampler
- (68'-233') Split Spoon

Drilling: Completed Borehole

- (0'-40') 13-3/8" Air Rotary Casing Hammer
- (40'-266') 12.25" Milltooth Tri-Cone w/Foam
- (266'-843') 12.25" Milltooth Tri-Cone w/Mud

Data Collection:

- Hydrologic Properties: Continuous Rate Pumping Test
- Cores/Cuttings submitted for geochemical and contaminant characterization: 11
- Ground Water Samples Submitted
- Regional Ground Water - 9/4/03 (835')
- Perched Ground Water - 9/9/03 (114'-125')

Geologic Properties:

Minerology, petrography, and chemistry: 7

Borehole Logs:

- Lithologic: 0'-843'
- Video (LANL tool):
- Corehole: 0' - 230'
- Abandoned Borehole: 0' - 173'
- Schlumberger logs:
- (Top of Drilling Fluid at 18' bgs)
- Compensated Neutron Tool: 6'-840'
- Triple Litho-Density: 4'-840'
- Array Induction Tool: 70'-840'
- Elemental Capture Spectroscopy: 6'-840'
- Natural Gamma Spectroscopy: 11'-826'
- Combinable Magnetic Resonance: 34'-820'
- Full-bore Formation Micro Imager: 96'-840'

Core Drilling Completed: 8/28/03 - 9/5/03

Rotary Drilling Completed: 9/16/03 - 9/26/03

Contract Geophysics: 9/27/03

Well Constructed: 9/28/03 - 10/3/03

Well Developed: 10/6/03 - 10/10/03

Well Completion:

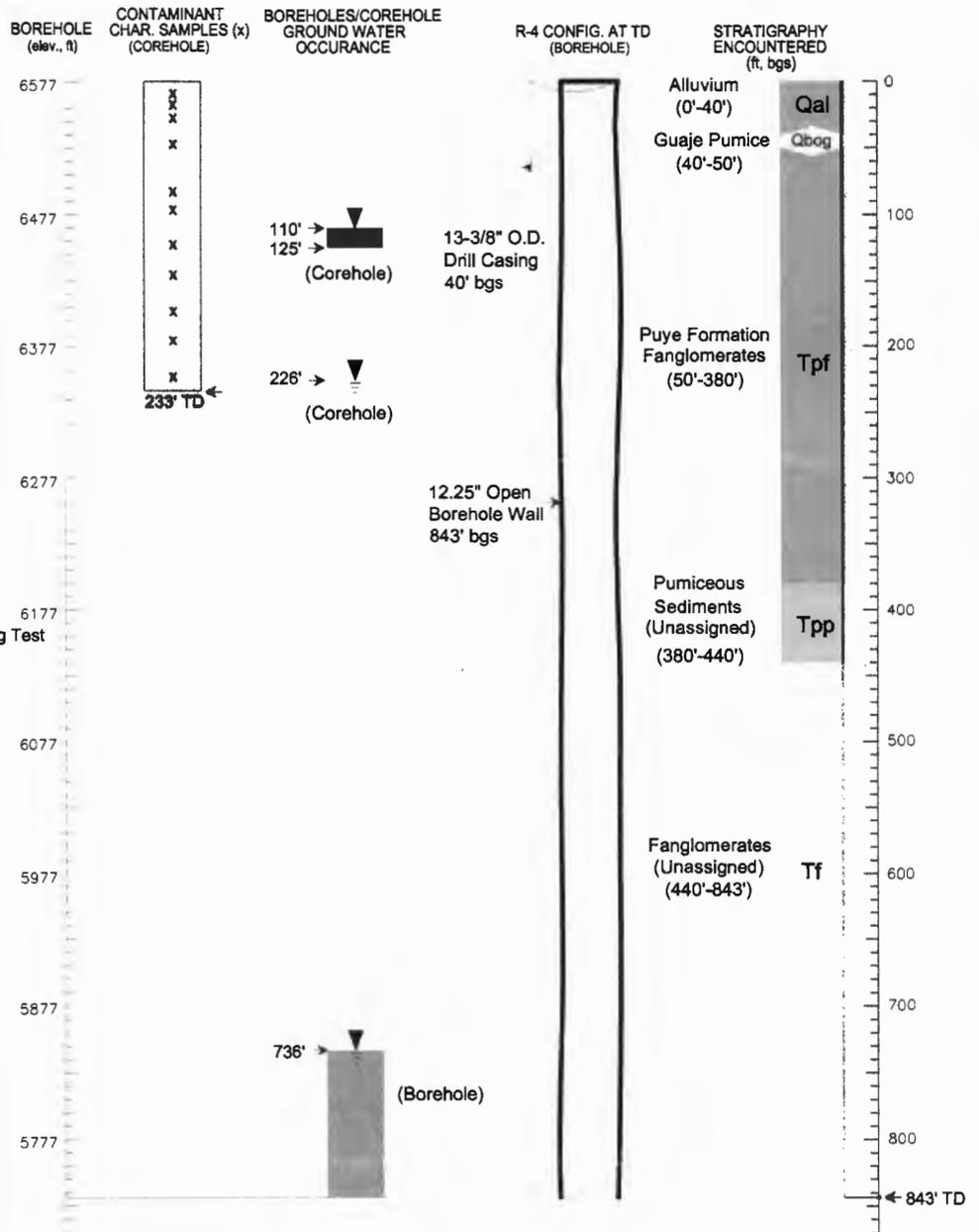
- Casing - 4.46" ID / 5.0" OD A304 Stainless Steel casing with external couplings
- Number of Screens -
- One (1) 4.46" ID / 5.27" OD wire wrapped 0.020 slot stainless steel with external couplings
- Screen Interval - 792.9' - 816' bgs

Well development performed by swabbing, bailing, and pumping.

Total Volume Purged: 14,150 gal.

Geologic contacts for R-4

were determined from core samples, cuttings and geophysical logs.



Keyed Notes:

1. Coordinates - NM State Plane Grid Central Zone (North America), Datum - 1983 (NAD83); expressed in feet.
2. Elevations - National Geodetic Vertical Datum (NGVD29); expressed in feet above mean sea level.
3. All depths are below ground surface (bgs).

DCN: ALB3DR003 Rev.2

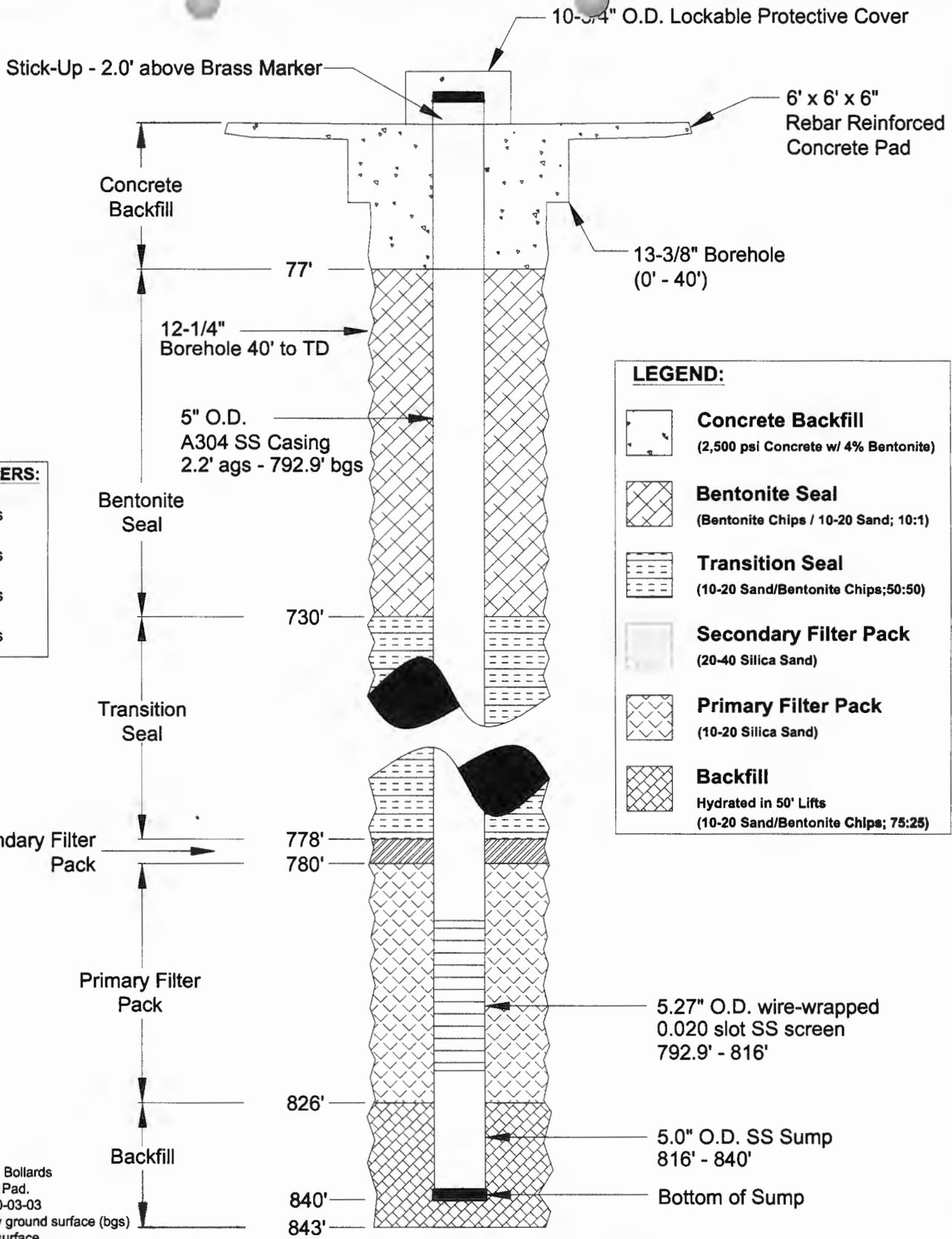


Drawn By: C. Landon	Date: November 2003
Project No.: 37151	Filename: ALB3DR003 REV 2
Scale: Not-To-Scale	Revision: 2
Reviewed By: F. Schelby	Approved By: M. Everett

Construction, Stratigraphic, and Hydrogeologic Information for Characterization Well R-4
Los Alamos National Laboratory
Los Alamos, New Mexico

FIGURE

1



CENTRALIZERS:

- 693' bgs
- 792' bgs
- 804' bgs
- 817' bgs

Keyed Notes:

1. Four 4-in. Protective Bollards Placed Around Well Pad.
2. Completion Date: 10-03-03
3. All depths are below ground surface (bgs)
4. ags: above ground surface
5. Dedicated pump location not shown.

DCN: ALB3DR004 Rev.2

KLEINFELDER	
Drawn By: C. Landon	Date: November 2003
Project No.: 37151	Filename: ALB3DR004 REV 2
Scale: Not-To-Scale	Revision: 2
Reviewed By: F. Schelby	Approved By: M. Everett

**Schematic Diagram of
Characterization Well R-4
Los Alamos National Laboratory
Los Alamos, New Mexico**

FIGURE
2