ENVIRONMENTAL RESTORATION PROJECT
Los Alamos National Laboratory/University of California
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U.S. Department of Energy
Los Alamos Area Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

TA-5

Date: March 1, 2002
Refer to: ER2002-0162

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

SUBJECT: WELL COMPLETION FACT SHEETS FOR R-13

Dear Mr. Young:

Enclosed are two copies of well completion fact sheets for Characterization Well R-13, located in the TA-5, Motrandad Canyon.

If you have any questions, please call Dave McInroy at (505) 667-0819 or Bob Enz at (505) 667-5793.

Sincerely,

Warren Neff for
Julie A. Canepa, Program Manager
Los Alamos National Laboratory
Environmental Restoration

Sincerely,

Thomas J. Wilson for
Mat Johansen, Project Manager
Department of Energy
Los Alamos Area Office

JC/MJ/th

Enclosure: Well R-13 Fact Sheet (ER2002-0111)

2817

Cy (w/enc.):
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T. Trujillo, DOE-AL, MS A906
J. Davis, NMED-SWQB
M. Leavitt, NMED-GWQB
S. Yanicak, NMED-DOE OB, MS J993
J. Young, NMED-HWB (1 extra copy of Attachment)
IM-5, MS A150
E/ER File, MS M992
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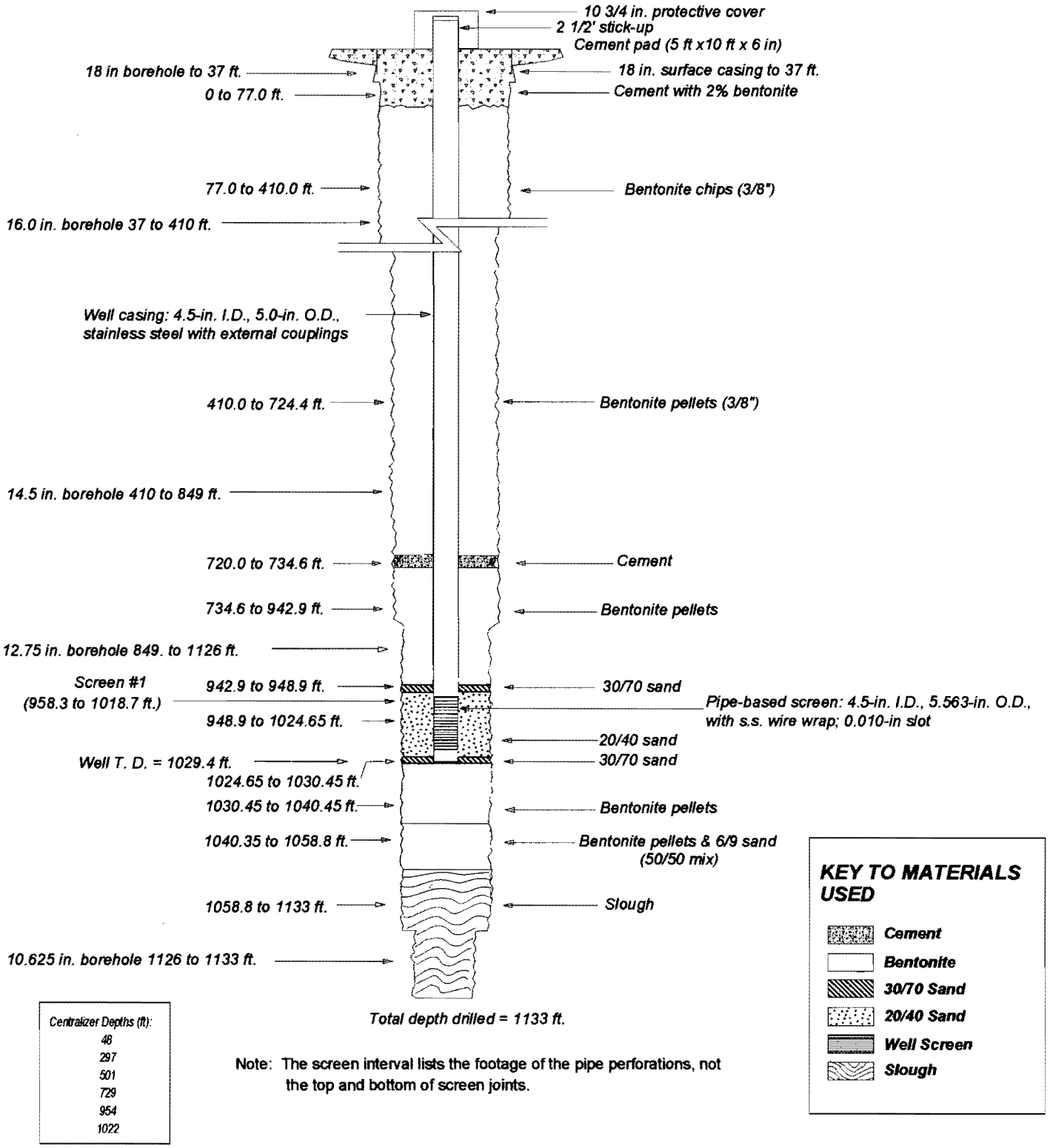
Drawing Not to Scale

All depths are feet below ground surface



Centralizer Depths (ft):
48
297
501
729
954
1022

Note: The screen interval lists the footage of the pipe perforations, not the top and bottom of screen joints.

As-built well completion diagram of Well R-13 rev. 1 (2/27/02).

Characterization Well R-13:

Location: TA-5, Mortandad Canyon

Survey coordinates (brass marker in NW corner of cement pad):
x = 1640991.7 ft (NAD 83)
y = 1766994.2 ft (NAD 83),
z = 6659.7 ft asl (NGVD 29)

Drilling: fluid-assist air rotary reverse circulation with casing advance
Start date: 8/21/01
End date: 9/20/01

Borehole drilled to 1133 ft. total depth (TD)

Data collection:
Hydrologic properties:
Field Hydraulic Testing: N/A

Cores/cuttings submitted for geochemical and contaminant characterization: 0
Groundwater samples submitted for geochemical and contaminant characterization: 1
Geologic properties:
Mineralogy, petrography, and chemistry: 12
Borehole logs:
Lithologic: (0-1133 ft)
Video (LANL tool): 760-828 ft
Natural gamma (LANL tool): 0-830 ft (cased 0-760 ft), 0-1053 ft (cased 0-850 ft), 0-1125 ft (cased 0-1126 ft)
Schlumberger Logs: 0-1058 ft (cased 0-850 ft); Compensated neutron, array induction, litho-density, electron capture, natural gamma, formation micro-imager.

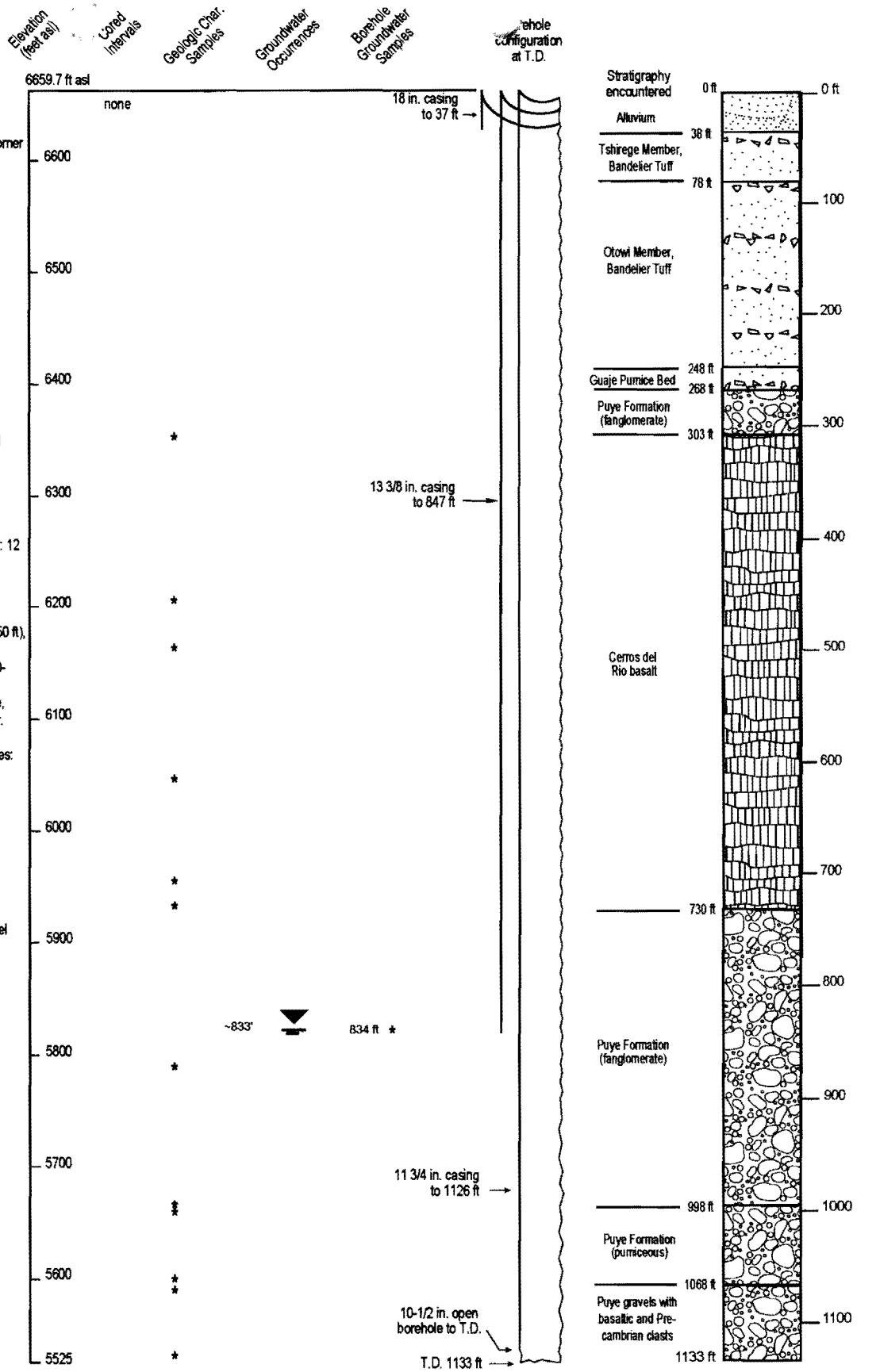
Contaminants Detected in Borehole Samples:
Regional groundwater: none

Well construction:
Drilling Completed: 9/20/01
Contract Geophysics: 9/24/01
Well Constructed: 9/26/01 - 10/6/01
Well Developed: 10/11/01 - 10/30/01
Dedicated Pump Installed: Feb. 02

Casing: 4.5-in ID, 5.0-in OD stainless steel with external couplings

Number of Screens: 1
4.5-in ID, 5.563-in OD pipe based, s.s. wire-wrapped; 0.010-in slot

Screen (perforated pipe interval):
Screen #1 - 958.3 - 1018.7 ft



Well development consisted of brushing, bailing, and pumping.

Groundwater occurrence was determined by recognition of first water produced while drilling. Static water levels were determined after the borehole was rested.

Preliminary geologic contacts determined by examination of cuttings and interpretation of geophysical logs.

Drilling, stratigraphic, and hydrologic information for characterization well R-13 Rev. 0 (2/25/02)