ENVIRONMENTAL RESTORATION PROJECT

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U.S. Department of Energy
Los Alamos Area Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
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ENTERED

LANL TA5

Date: February 6, 2002
Refer to: ER2002-0103

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: CHARACTERIZATION WELL FACT SHEETS MCOBT-8.5

Dear Mr. Young:

Enclosed are two copies of well completion fact sheets for Hydrogeologic Characterization Well MCOBT-8.5, located in the TA-5, Mortandad Canyon.

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

Sincerely,

Julie A. Canepa, Program Manager
Environmental Restoration Project
Los Alamos National Laboratory

Sincerely,

Mat Johansen, Project Manager
Department of Energy
Office of Los Alamos Site Operations

2816

JC/MJ/DB/th

Enclosure: Characterization Well MCOBT-8.5 (ER2002-0063)

Cy (w/enc.):
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GWFA, File, MS M992
E/ER File, MS M992
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Characterization Well MCOBT-8.5:

Location: TA-5, Mortandad Canyon

Survey coordinates (brass marker in cement plug):
x = 1,636,710.2 ft (NAD 83),
y = 1,768,725.7 ft (NAD 83),
z = 6780.5 ft asl (NGVD 29)

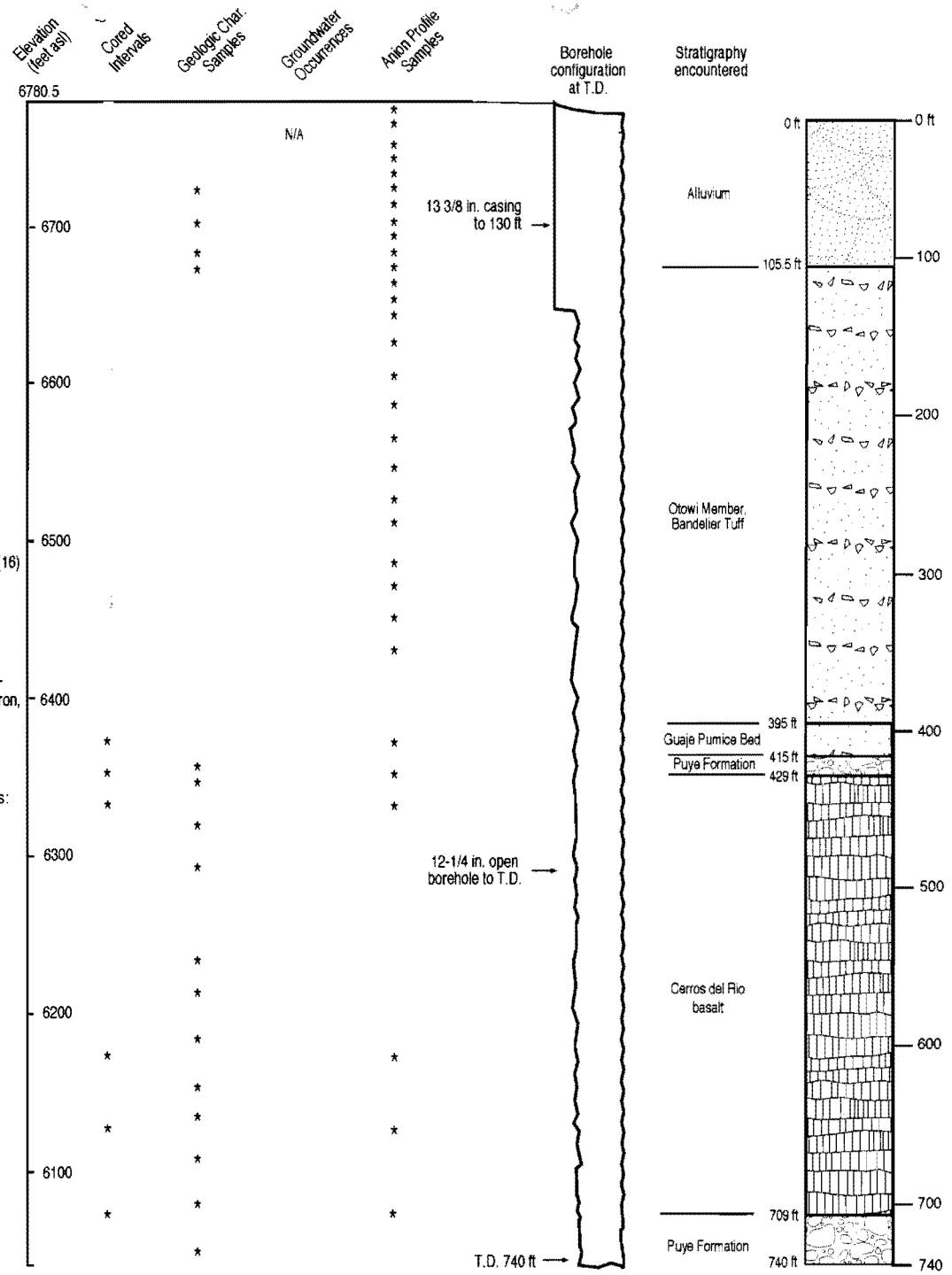
Drilling: hollow stem auger (Phase 1) and fluid-assist air rotary reverse circulation with casing advance (Phase 2)
- Phase 1 Start date: 6/8/01
- Phase 1 End date: 6/14/01
- Phase 2 Start date: 6/17/01
- Phase 2 End date: 6/23/01

Borehole drilled to 740 ft total depth

Data collection:
- Hydrologic properties:
  - Field Hydraulic Testing: N/A
- Cores/cuttings submitted for anion profile: (31)
- Geologic properties:
  - Mineralogy, petrography, and chemistry (16)
- Borehole logs:
  - Lithologic (0-740 ft)
  - Video (LANL tool) 130-729 ft
  - Natural gamma (LANL tool): cased hole 0-130 ft, open hole 130-740 ft.
  - Schlumberger Logs (0-130 ft cased, 130-740 ft open hole): Compensated Neutron, Spectral Gamma, Array Induction, Combinable Magnetic Resonance, and Litho-Density

Contaminants Detected in Borehole Samples:
- Core: Nitrate and perchlorate as soluable anions

Well construction:
- Drilling Completed: 6/23/01
- Contract Geophysics: 6/23/01
- Borehole Plugged & Abandoned: 6/24/01-6/29/01



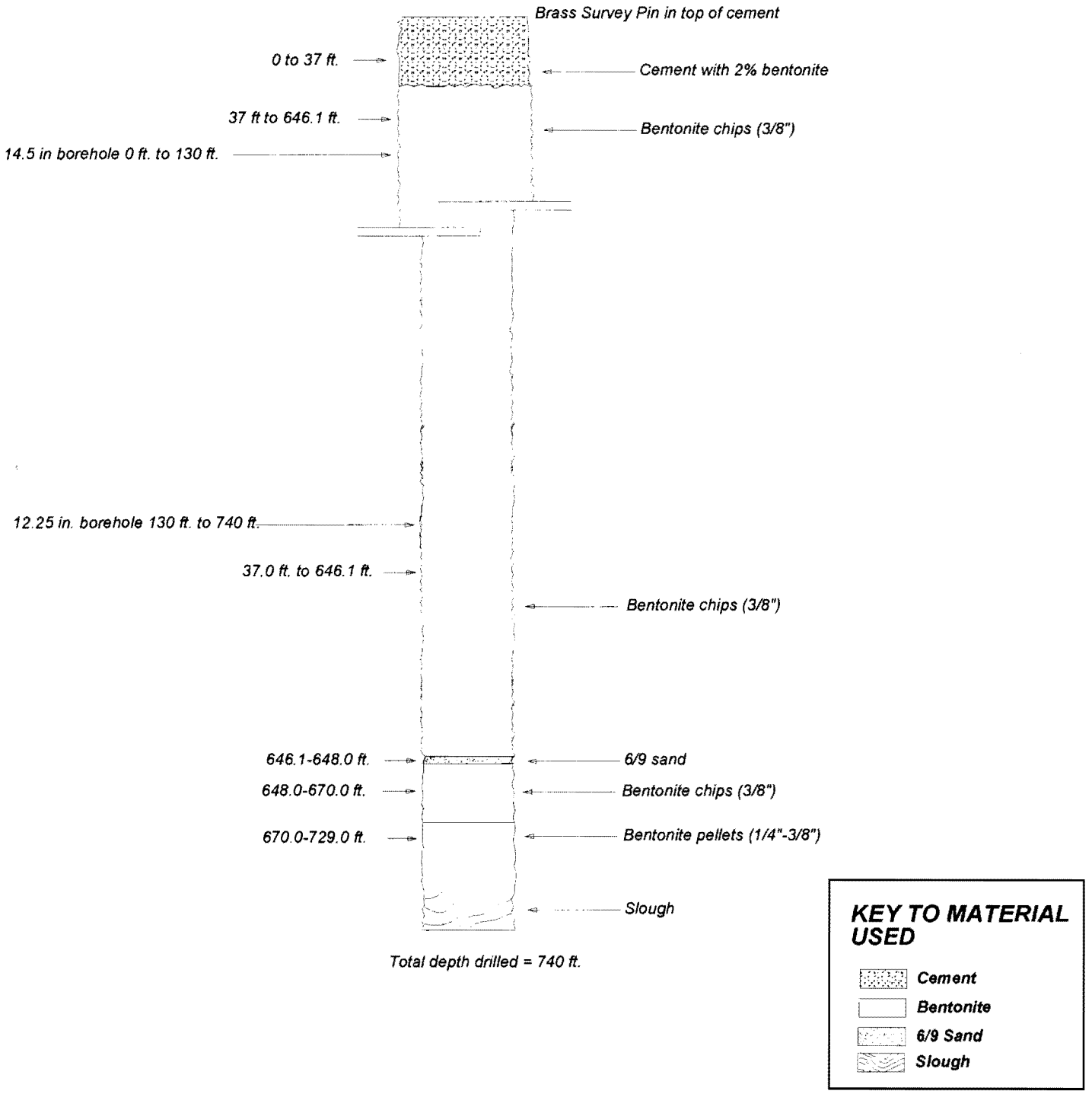
Saturation was not detected in borehole.

Geologic contacts determined by examination of cuttings, petrography, rock chemistry and interpretation of geophysical logs.

Drilling, stratigraphic, and hydrologic information for characterization well MCOBT-8.5 rev 0a (01/31/02).

Drawing Not to Scale

All depths are feet below ground surface



Well abandonment diagram of Well MCOBT-8.5 rev. 0a (01/24/02)