

**ENVIRONMENTAL
RESTORATION
PROJECT**

Los Alamos National Laboratory/University of California
Environmental Science and Waste Technology (E)
Environmental Restoration (ER) Project, MS M992
Los Alamos, New Mexico 87545
(505) 667-0808/FAX (505) 665-4747



U.S. Department of Energy
Office of Los Alamos Site Operations, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: January 22, 2002
Refer to: ER2002-0047

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 CHARACTERIZATION FACT SHEET FOR CdV-R37-2

Dear Mr. Young:

Enclosed are two copies of well completion fact sheets for 260 Corrective Measures Study (CMS) Well CdV-R37-2, which is located in the Water Canyon Watershed. Their format is based on the R-12 fact sheet that was informally reviewed and approved by your bureau.

If you have any questions, please call Dave McInroy at (505) 667-0819 or Lance Woodworth at (505) 665-5820.

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

JC/MJ/NR/vn



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Enclosure: Well R37-2 Fact Sheet (ER2002-0048)

Cy (w/enc.):

A. Dorries, E/ER, MS M992
D. Hickmott, E/ER, MS M992
M. Kirsch, E/ER, MS M992
D. Broxton, E/ER, MS M992
D. McInroy, E/ER, MS M992
D. Neleigh, US EPA (2 copies)
N. Riebe, E/ER, MS M992
C. Rodriguez, E/ER, MS M992
L. Soholt, E/ER, MS M992
M. Johansen, OLASO, MS A316
G. Turner, OLASO, MS A316
L. Woodworth, OLASO, MS A316
J. Davis, NMED-SWQB
M. Leavitt, NMED-GWQB
S. Yanicak, NMED-DOE OB, MS J993
IM-5, MS A150
E/ER File, MS M992
RPF, MS M707

Cy (w/o enc.):

J. Canepa, E/ER, MS M992
J. Bearzi, NMED-HWB
J. Parker, NMED-DOE OB

Characterization and CMS Well CdV-R37-2:

Location: TA-37, Canon de Valle for PRS 16-021(c)-99

Survey coordinates (brass marker in NW corner of cement pad):
 x = 1,619,219.0 (NAD 83) ,
 y = 1,759,327.3 (NAD 83) ,
 z = 7330.6 ft asl (NGVD 29)

Drilling: fluid-assist air rotary reverse circulation with casing advance
 Start date: 7/20/01
 End date: 8/6/01

Borehole drilled to 1664 ft

Data collection:
 Hydrologic properties:
 Field Hydraulic Testing: Injection test on Screen #3.

Cores/cuttings submitted for geochemical and contaminant characterization: (0)
 Groundwater samples submitted for geochem. and cont. characterization: (2)
 Geologic properties:
 Mineralogy, petrography, and chemistry (14)
 Borehole logs:
 Lithologic (0-1664 ft)
 Video (LANL tool) 0-768 ft and 795-1372 ft
 Natural gamma (LANL tool): cased 0-822 ft, open hole 25.8-794 ft and 822-1656 ft.
 Induction log (LANL tool): 0-794 ft.
 Schlumberger Logs (0-822 ft cased, 822-1656 ft open hole): Compensated Thermal and Epithermal Neutron, Spectral Gamma, Combined Magnetic Resonance, Formation Micro-Imager, Elemental Capture Sonde, Array Induction, and Litho-Density

Contaminants Detected in Borehole Samples:
 Regional groundwater: Tritium < 5 pCi/L

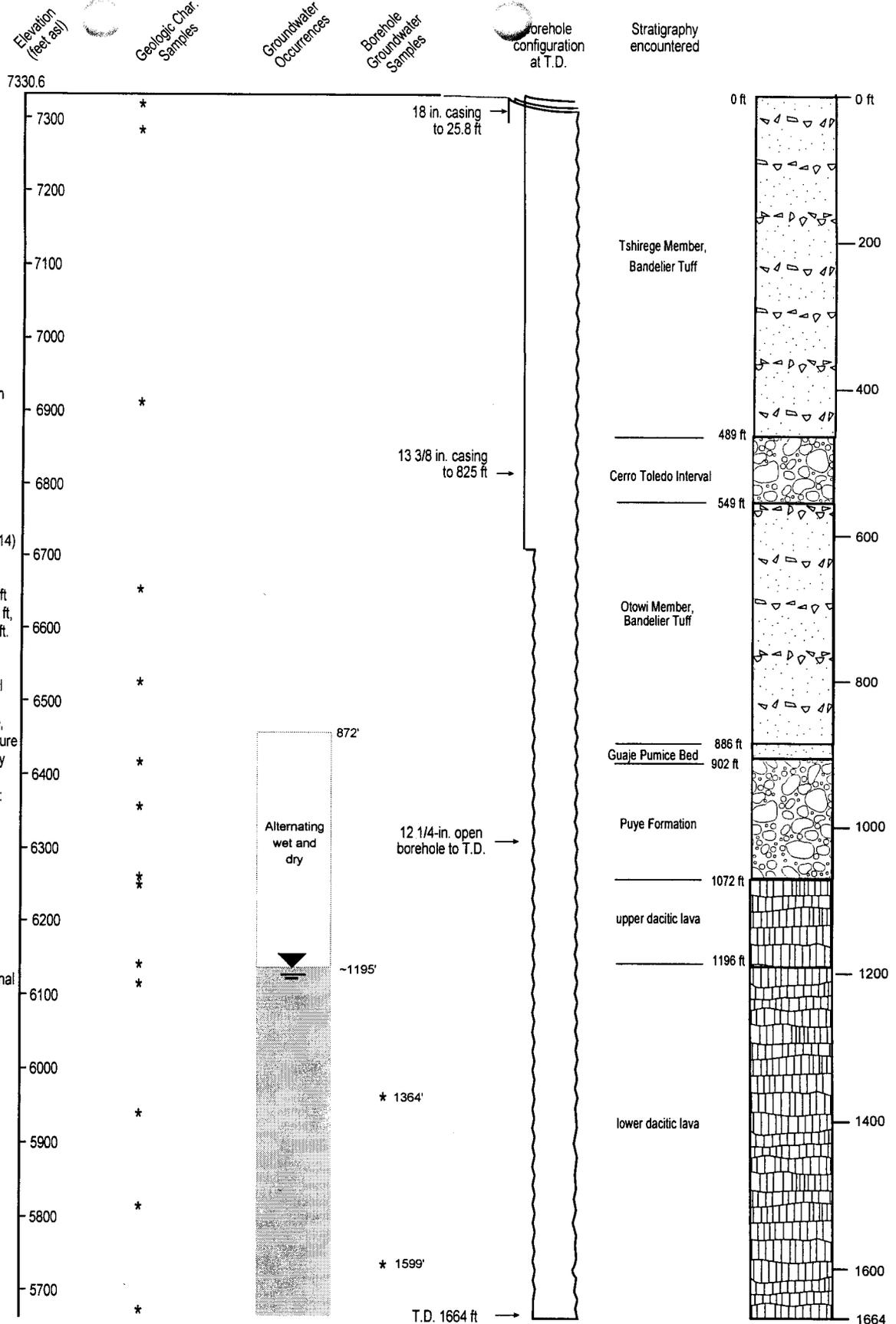
Well construction:
 Drilling Completed: 8/6/01
 Contract Geophysics: 8/6/01
 Well Constructed: 8/8/01-8/18/01
 Well Developed: 8/22/01 - 9/21/01
 Westbay Installed: 9/28/01 - 10/08/01

Casing: 4.5-in I.D. stainless steel with external couplings

Number of Screens: 4
 4.5-in I.D. pipe based, s.s. wire-wrapped; 0.010-in slot

Screen (perforated pipe interval):
 Screen #1 - 914.4 - 939.5 ft
 Screen #2 - 1188.7 - 1213.8 ft
 Screen #3 - 1353.7 - 1377.1 ft
 Screen #4 - 1549.3 - 1556.0 ft

Well development consisted of brushing, bailing, and pumping. A total of 28,970 gallons were removed during development.

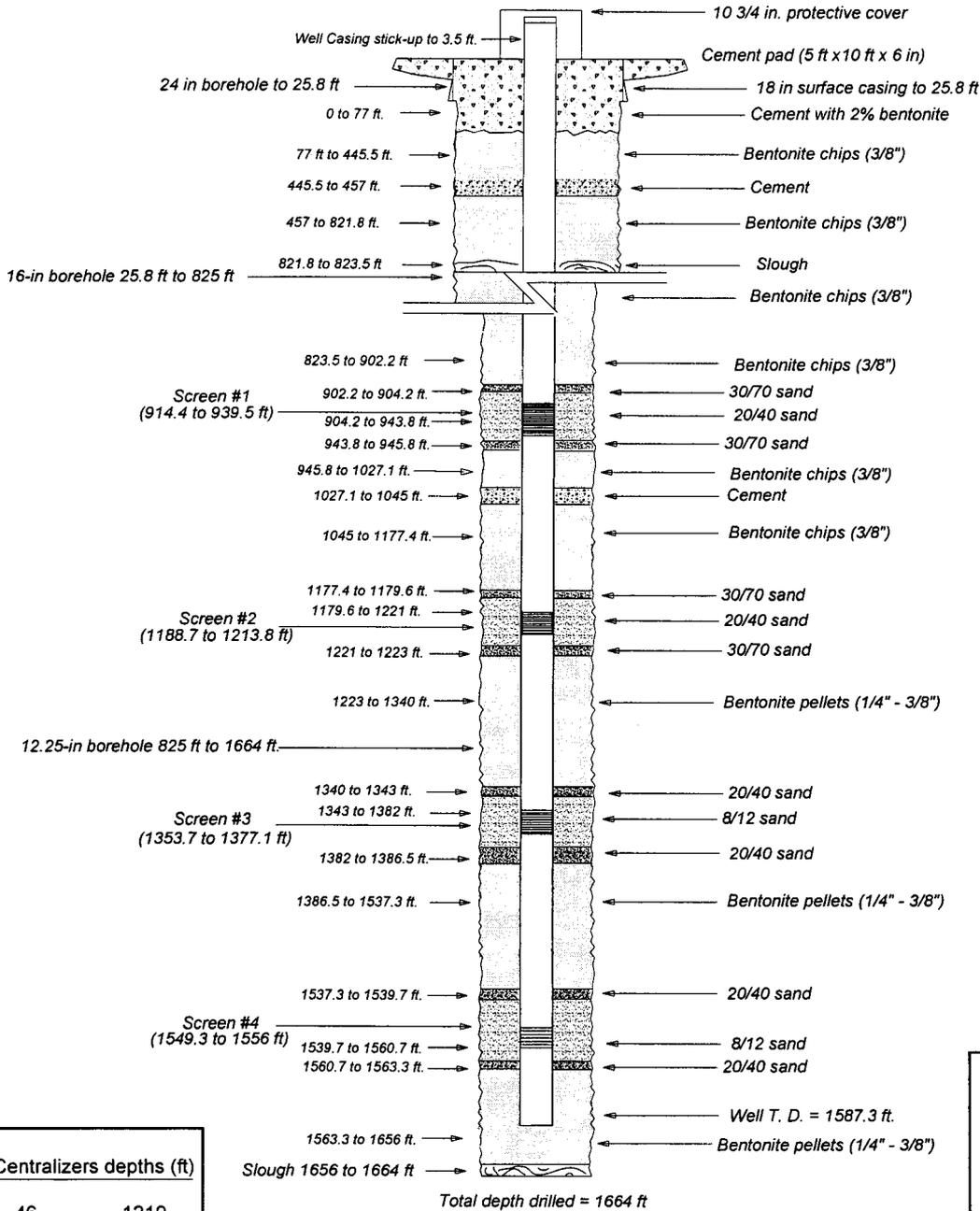


Groundwater occurrence was determined by recognition of first water produced while drilling and borehole video observations. Static water level was determined after the borehole was rested.

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

Drawing Not to Scale

All depths are feet below ground surface



Centralizers depths (ft)	
46	1219
450	1349
912	1380
944	1547
1051	1558
1186	

Note: The screen intervals list the footages of the pipe perforations, not the tops and bottoms of screen joints.

KEY TO MATERIAL USED

-  Cement
-  Bentonite
-  Fine Sand
-  Coarse Sand
-  Well Screen
-  Slough

As-built well completion diagram of Well CdV-R37-2 (01/17/02).

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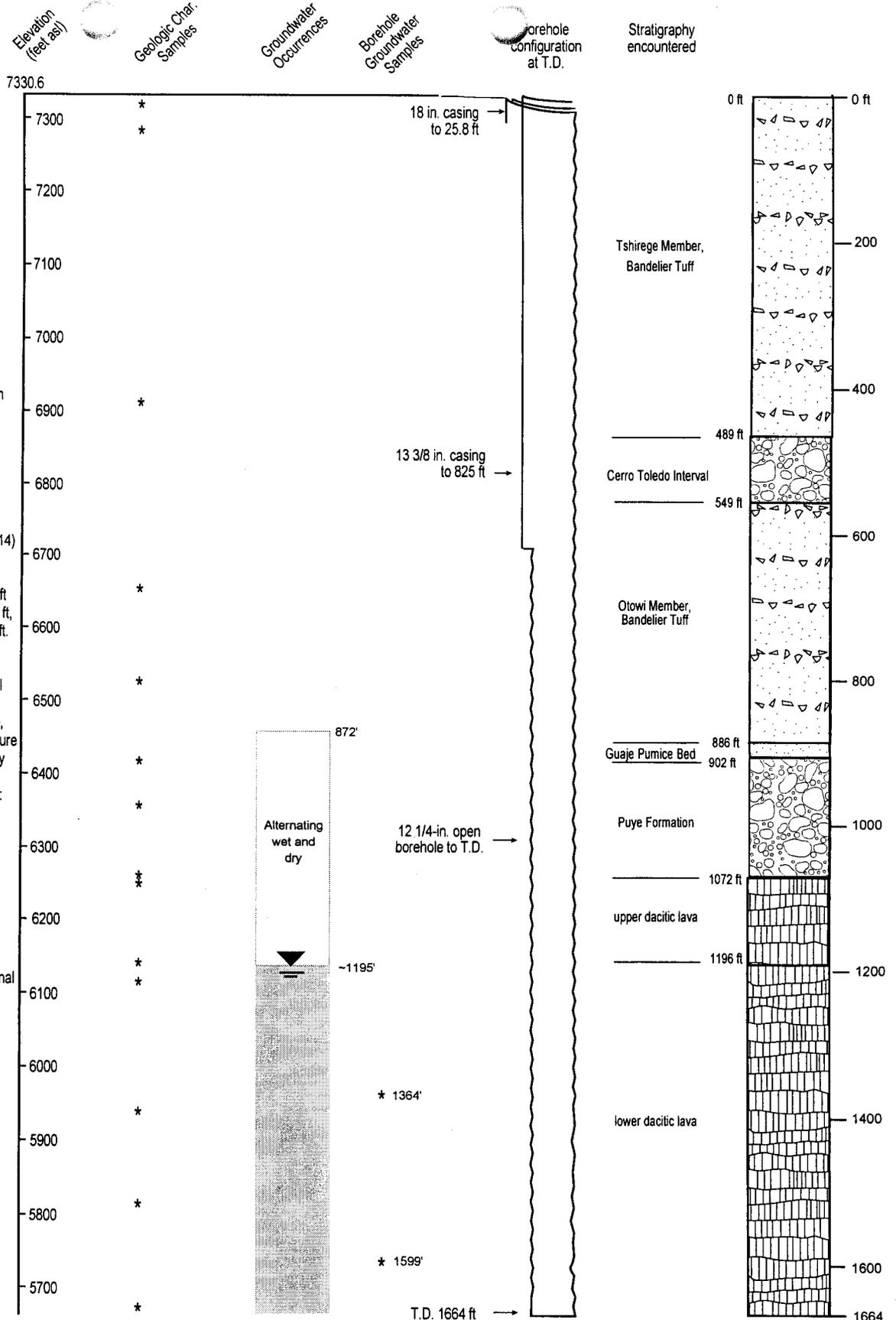
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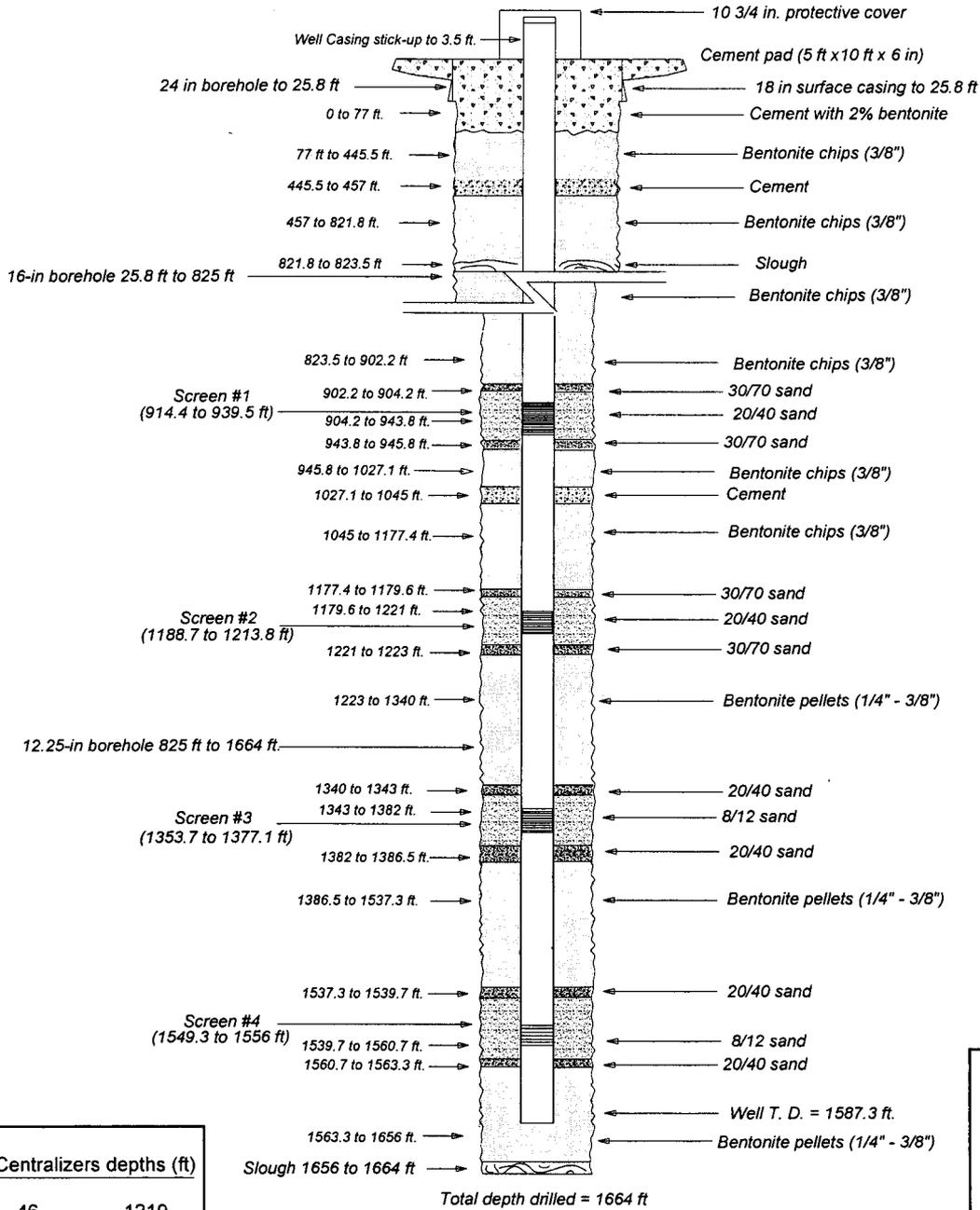


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