



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Reply to:
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Las Vegas, NV 89101

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Date: June 4, 1992

TO: Charlotte Abrams, HLPD, M/S 4 H 3

FROM: Paul T. Prestholt, On-Site Licensing Representative

SUBJECT: Two Preliminary Field Composite Borehole Log Reports completed 4/13/92 (USW UZN-38) and 4/17/92 (USW UZN-64); Regulatory Compliance and Permit Status Report for Site Characterization for the period April, 1992; EG&G Progress Reports, March and April, 1992; USGS Detailed Monthly Status Report for March, 1992, USGS YMP Monthly Summary, March and April, 1992, and monthly status report for Water-Resources Monitoring Program for period 4/1-30/92

Please find enclosed the above-referenced reports.

cc: Joseph Holonich, M/S 4 H 3 w/o encs.

all enclosure in ship.

9206170171 920604
PDR WASTE
WM-11 PDR

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WM-11
N403*



Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608

WBS 1.2.3.5
QA: N/A

APR 28 1992

Carl H. Johnson, State of Nevada, Carson City, NV
Phillip Niedzielski-Eichner, Nye County, Chantilly, VA
Dennis A. Bechtel, Clark County, Las Vegas, NV
Albert C. Douglas, City of Las Vegas, Las Vegas, NV
~~Paul J. Presbolt, NRC, Las Vegas, NV~~

PRELIMINARY FIELD COMPOSITE BOREHOLE LOGS

For your information, enclosed is a copy of the Preliminary Field Composite Borehole Log for borehole USW UZN-38 which was developed by the Drilling Support and Sample Management Department of Technical and Management Support Services. Drilling of the borehole was completed on April 13, 1992.

If you need additional information regarding the log, please contact Uel S. Clanton at (702) 794-7943.

RSER:USC-3049


Carl P. Gertz
Project Manager

Enclosure:
Composite Borehole Log

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT

PRELIMINARY FIELD COMPOSITE BOREHOLE LOG

BORE HOLE ID: USW UZN-38

STUDY PLAN NO.: 8.3.1.2.2.1

CORE SIZE: HQ/2.25"

DRILL DATES: 4/8/92 - 4/13/92

GROUND ELEVATION: 4150 ft MSL (est.)

GROUND COORDINATES: N 767,610 E 563,150 (est.)

TOTAL DEPTH: 94.3 ft




ANGLE FROM VERT.: NA

BEARING: NA

LOG FINAL DATE

4/14/92

geology by Drilling Support Division, Drilling Support and Sample Management Dept., T&MSS

RUNS/DATES/ RECOVERY CORE LOSS	DRILLING RATE (min/run) ft/hr BIT RECORD			FRAC FREQ (X/5 FT)		DEPTH STRAT COL	LITHOLOGY/REMARKS
	0	10	20	0	50		
	20	70	120	50	100		
4/8/92	NA DRIVE-CORE			NA			0.0 - 17.9 Alluvium; light brown to light red, poorly consolidated; poorly sorted from silt size to cobbles; slightly moist at surface
DC-1							
DC-2							
DC-3							
DC-4							
DC-6							
DC-7							
DC-8							
DC-9							
17.9/17.9 100%							ALLUVIUM/TIVA CANYON CONTACT @ 17.9 17.9 - 50.1 Tuff, ashflow; pale red to grayish red, densely welded, devitrified; 1-2% phenocrysts of sanidine, minor altered biotite; 3-4% pumice, 2 mm - 1 cm in diameter; vapor phase crystals in cavities from 24.6 - 41.1, several thin partially devitrified zones; increase in lithics content to 3% near bottom of interval, to 1.5 cm in diameter
2 4/9/92	(25)* 3.3	10					
3	(14) 8.1	13					
4	(16) 11.7						
5	(21) 14.3	11					
							

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PRELIMINARY FIELD COMPOSITE BOREHOLE LOG (cont.)

USW UZN-38

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geology by Drilling Support Division, Drilling Support and Sample Management Dept., T&MSS

6	(12) 18.5	18	30
7	(5) 14.6		35
8	(5) 15.1	20	40
23.2/22.9 99%	(20) 22.2		45
4/10/92	(4) 15	12	50
10			55
11	(19) 15.8	8	60
12	(6) 50	19	65
13	(13) 23.1	13	70
18.9/18.9 100%	(1) 30		
4/13/92	(19) 14.5	10	
15			
16	(5) 60.0	10	

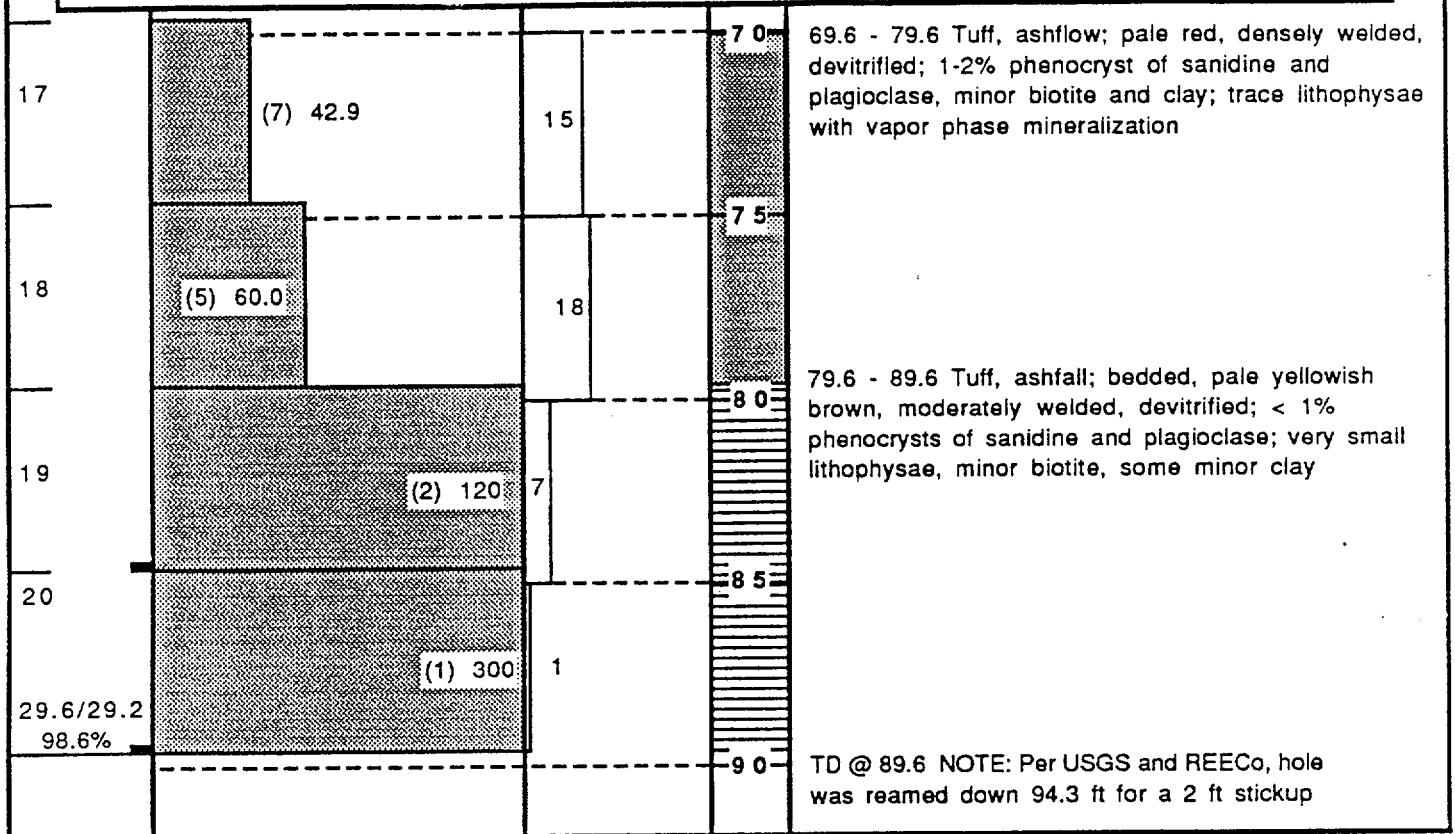
51.0 - 69.6 Tuff, ashflow; pale red to grayish red, densely welded, devitrified; 1-2% phenocrysts of sanidine and plagioclase with minor biotite; 3-4% pumice, to 1cm; minor lithophysae with vapor phase crystals; open fractures filled with dark yellow-orange clay

**YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PRELIMINARY FIELD COMPOSITE BOREHOLE LOG (cont.)**

USW UZN-38

pg. 3 of 3

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**TOTAL CORE DEPTH @ 89.6
TOTAL REAM DEPTH @ 94.3**

Bit No. 23 Stratapak: SN2522556; 15 cutters; 10 water courses; 1/4" x 5/16"; diamonds - 20 stones per carat



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~~Paul T. Prestholdt, NRC~~, Las Vegas, NV

PRELIMINARY FIELD COMPOSITE BOREHOLE LOG

For your information, enclosed is a copy of the Preliminary Field Composite Borehole Log for borehole USW UZN-64 which was developed by the Drilling Support and Sample Management Department of Technical and Management Support Services. Drilling of the borehole was completed on April 17, 1992.

If you need additional information regarding the log, please contact Uel S. Clanton at (702) 794-7943.

RSED:USC-3050

Maxwell Blanchard
for Carl P. Gertz
Project Manager

Enclosure:
Preliminary Field Composite
Borehole Log

**YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PRELIMINARY FIELD COMPOSITE BOREHOLE LOG**

BORE HOLE ID: USW UZN-64

STUDY PLAN NO.: 8.3.1.2.2.1

CORE SIZE: HQ/2.25"

DRILL DATES: 4/16/92 - 4/17/92

GROUND ELEVATION: 4,750 ft MSL (est.)

GROUND COORDINATES: 559,550E 764,300N (est.)

TOTAL DEPTH: 60.0 ft

ANGLE FROM VERT.: NA

BEARING: NA

LOG FINAL DATE
4/20/92

	ALLUVIUM		DENSELY WELDED
	NON-WELDED		BEDDED TUFF
	PARTIALLY WELDED		VITROPHYRE

Geology by Drilling Support Division, Drilling Support and Sample Management Dept., T&MSS

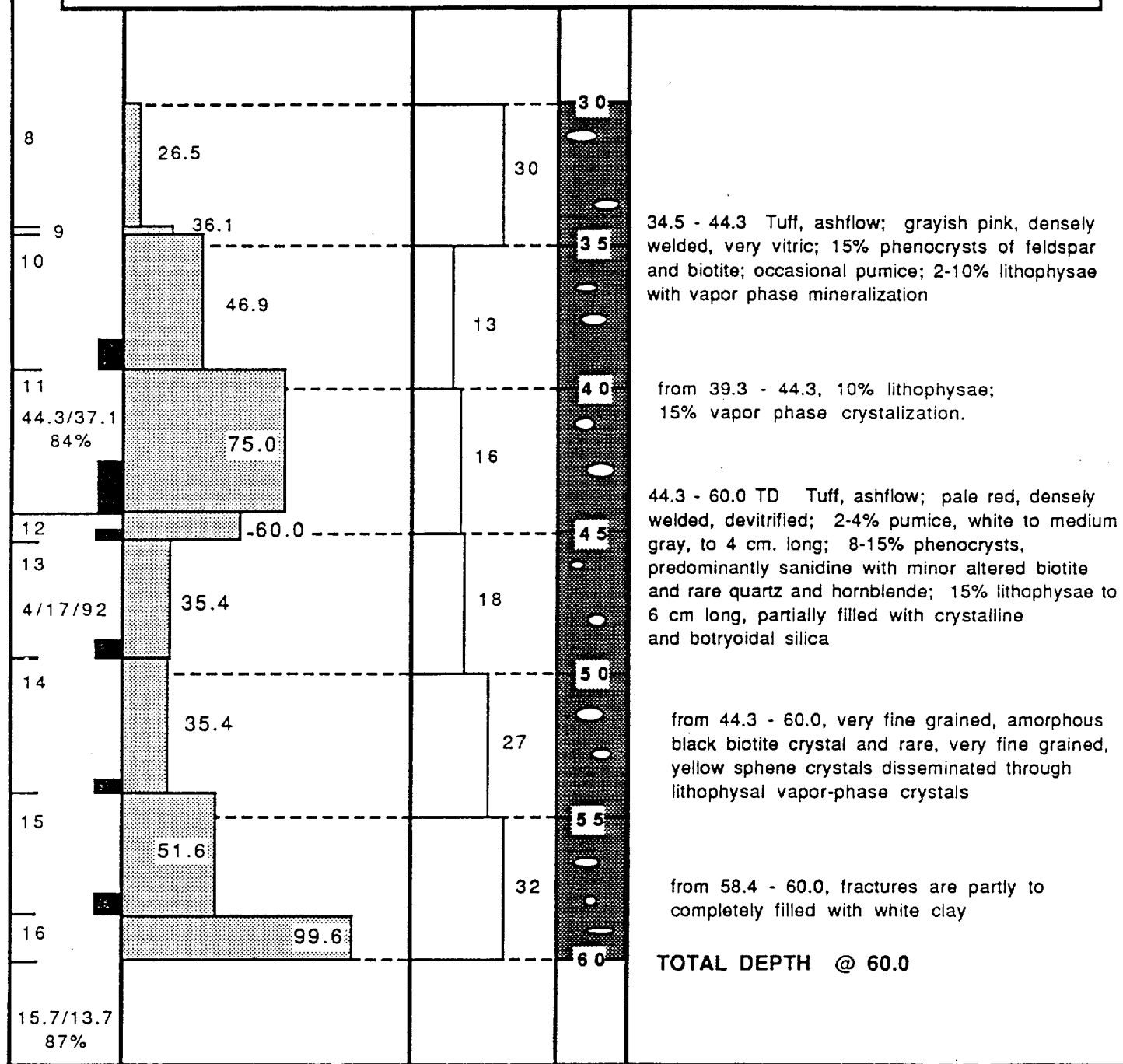
RUNS/DATES/ RECOVERY CORE LOSS	DRILLING RATE (ft/hr) BIT RECORD			FRAC FREQ (X/5 FT)	DEPTH STRAT COL	LITHOLOGY/REMARKS
	0	10	20			
	20	70	120			
4/16/92	NA Drive Core					0.0 - 1.8 Alluvium; pebbles, sand, and silt; no obvious clay boundary; occasional organics
1		37.5		21	0	ALLUVIUM/TIVA CANYON CONTACT @ 1.8
2		32.6		15	5	1.8 - 19.3 Tuff, ashflow; grayish pink, moderately welded, devitrified; pumice, light grey and porous; 2-10% phenocrysts of plagioclase and rare biotite; 10% lithophysae, 2-5 cm, vapor phase minerals common
3		30.0		11	10	
4		60.0		42	15	from 14.3 - 19.3, very vitric.
5		44.4		22	20	19.3 - 34.5 Tuff, ashflow; moderately to densely welded, grayish pink, vitric; 10-15% phenocrysts of feldspar and biotite with minor quartz; 1% lithophysae with vapor phase mineralization; scattered fractures with calcite fill
6		75.0		14	25	
7		34.0			30	

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
PRELIMINARY FIELD COMPOSITE BOREHOLE LOG (cont.)

USW UZN-64

pg 2 of 2

geology by Drilling Support Division, Drilling Support and Sample Management Dept., T&MSS



Blt No. 23: 15 - 5/16" PDC, s/n 2522556, 10 air ways