

GEOTHERMAL BRANCH

INTER-OFFICE MEMORANDUM

SUBJECT: Results of Water Analysis for Deeth Drill Hole 1030-39 DATE: July 2, 1981

TO: H. J. Olson, H. D. Pilkington, A. L. Lange

FROM: J. E. Deymonaz

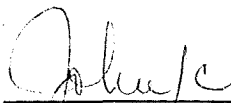
Listed below are the analytical results from water samples taken while drilling hole 1030-39 at various depths. Analytical results of waters from the Termite Mound (TMHS) hot springs and two hot springs four and five miles outh of 1030-39 along the Mary's River (MRHS-1 and MRHS-2) are also given for comparison.

Sample #	W14289	W14290	W14291	W10576	W10574	W10575
Hole depth when sampled(ft)	410.	410.	560.	TMHS	MRHS-1	MRHS-2
Temp °C	27.5	27.5	31.0	52.0	38.0	37.0
GPM	200.	200.	350.	15.	5.	10.
Na	220.	220.	220.	260.	500.	400.
K	36.	32.	31.	42.	34.	33.
Ca	50.	27.	31.	47.	3.	7.
SiO ₂	100.	31.	22.	37.	150.	125.
Mg	22.	17.	1.7	14.	0.4	0.7
Li	0.7	0.7	0.7	0.8	0.	0.1
B	1.1	1.1	1.2	1.6	0.	1.7
SO ₄	<10.	<10.	<10.	12.	NR	NR
Cl	21.	21.	21.	19.	29.	23.
F	2.0	1.9	2.0	2.0	22.	17.
CO ₃	0.	0.	0.	0.	0.	0.
HCO ₃	662.	664.	666.	744.	988.	790.
Mo(PPB)	<2.	2.	<2.	0.	15.	4.
Cu(PPB)	<2.	<2.	<2.	0.	0.	0.
Conductivity umhos/cm	1295.	1284.	1295.	NR	NR	NR
pH	7.0	6.9	6.9	6.8	8.15	7.85

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TSiO ₂ no steam loss	137.	81.	67.	88.	161.	150.
TSiO ₂ max steam loss	133.	84.	72.	91.	153.	143.
TSiO ₂ chalcedony	110.	49.	35.	57.	137.	125.
TNa-Ca-K	205.	204.	201.	208.	197.	196.



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