

INTER-OFFICE MEMORANDUM

SUBJECT: Seismograph Records of Bingham Mine Blasts

DATE November 11, 1976

TO: W. M. Dolan, H. J. Olson, H. D. Pilkington, J. Roth,
Geothermal Staff

FROM: A. L. Lange

In order to plan for the seismic attenuation study of the Cove Fort, Utah area, I have asked Mark Sherbring to pull out our seismograph records from the Rowley Mine for comparison with the blast times as logged by the University of Utah (see attached letter). During the operating period 13 May to 22 May 1976 10 blasts were shot at Bingham, between about 0800 and 1500 MDT. During three of the blasts, the seismograph* was not operating. Of the remaining seven, all but one were clearly recorded on two channels, operating at 84db. The blast of 20 May was not evident on the record; possibly the time is incorrect. The results are as follows:

1976:	May 13	2042	UTC	1442	MDT	Not operating
	14	2046		1446		Recorded
	15	1739		1139		Recorded
	16	1524		0924		Recorded
	17	1757		1157		Recorded
	18	1926		1326		Not operating
	19	2055		1455		Recorded
	20	2043		1443		Not evident on record
	21	1742		1142		Not operating
	22	2035		1435		Recorded

In addition to the Bingham blasts, we saw, on the average 7 local micro-earthquakes per day in addition to other large regional events. This seismicity and the blast responses seem appropriate for a seismic attenuation study in the area.

A. L. Lange
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*VR-60 dual channel smoked-paper seismograph. This unit has between 6 and 12 db greater sensitivity than the MEQ-800.

Figure 1. Bingham blast of
15 Ma, 1976 on the record
of the Rowley Mine. This is
typical of the blasts.

— May 15 1739 UTC —

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1739