

EarthFax

Engineering, Inc.
Engineers/Scientists

August 15, 1985

RE: Contract 85-5323
July Monthly Report

Mr. Dave Hooper
Reclamation Hydrologist
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Dave:

Project work on Contract No. 85-5323 is progressing well. In the last week of July we measured the stream flow of Chalk Creek and the intermittent stream, changed the charts on the rain and stream gages, and collected water samples from both the Morby and the Boyer wells.

Water Quality Samples

Water quality samples were collected from both the Morby well and the Boyer well. The appropriate field analyses were completed and samples were also submitted to CMS for laboratory analyses. Appendix A contains the field test results. Also included in Appendix A are the results of the laboratory analyses from the first suite of samples which were collected from Chalk Creek and the intermittent stream.

Stream Gaging Stations

Charts were changed on the Chalk Creek and intermittent stream recorders during the July field trip. Copies of these charts are included in Appendix B of this progress report. Again, the pens used on the recorders smeared excess ink during the first part of the month. A traceable pen line is discernable. New types of pens have been ordered for the recorders and will be installed during the next field trip. Flow measurements were also made at the Chalk Creek stations (see Appendix B). The intermittent stream was not flowing at the time of the field trip. Thus, no sample was collected.

During changing of the chart on Chalk Creek (SS-6) it was observed that the inlet to the stilling well for the recorder was only minimally submerged. Hence, the stilling

Mr. Dave Hooper
August 15, 1985
Page 2

well was deepened 0.68 feet. This depth will be added to all previous stage measurements at the station during data analyses.

Recording Rain Gage

The chart on the recording rain gage was changed and the bucket emptied. A copy of the chart is included in Appendix C. Unfortunately, the rain gage was apparently bumped shortly after the last chart change and the pen was knocked off of the chart. Hence, only the initial and final data points were collected. Missing data will be estimated by correlating data collected at the site rain gage with that collected at the National Weather Service station at Coalville for the period of record.

Ephemeral Streams

Insufficient flows occurred in the ephemeral streams to collect a water quality sample. However, flow did occur at SS-3, with a peak flow depth of 0.20 foot measured at the crest-stage gage (see Appendix B).

Our next regularly scheduled visit will be on August 31. If you have any questions or need additional information, please call.

Sincerely,

Richard B. White for

Randolph B. Gainer
Project Manager

Enclosures

APPENDIX A
Water-Quality Data

APPENDIX B
Streamflow Data

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SS-1

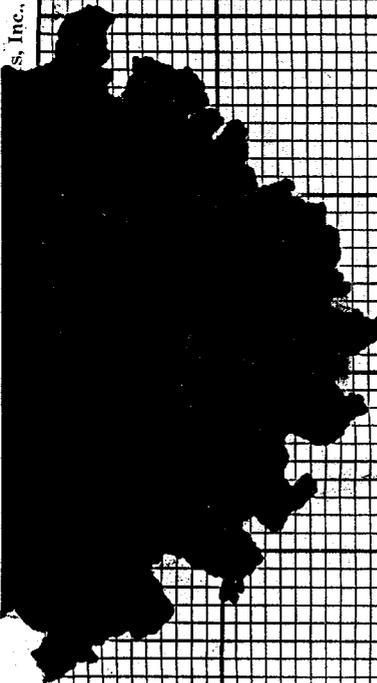
OFF

29 Jul 1985

No flow



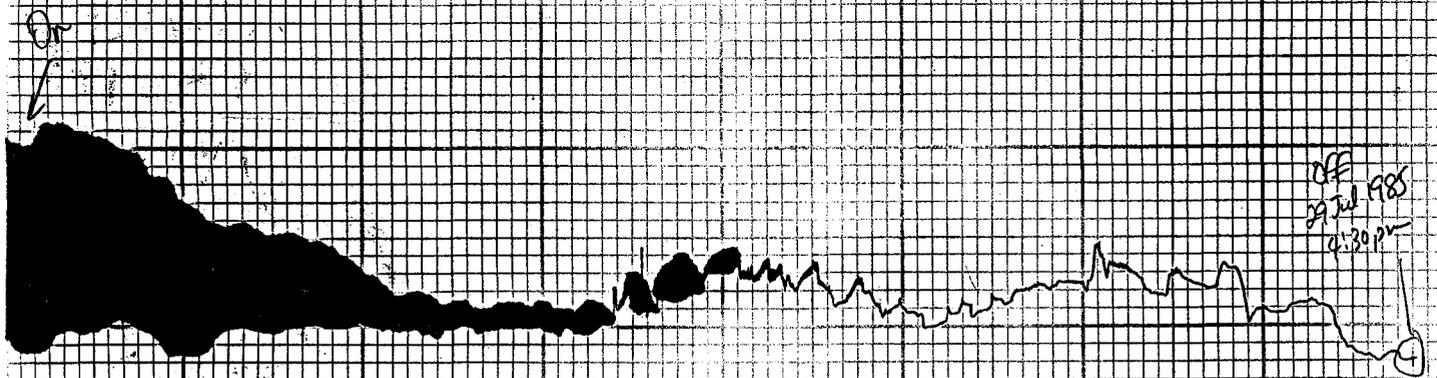
s. Inc. Beaverton, Ore.



CA

on 6-28-85 12:10pm

SS=6



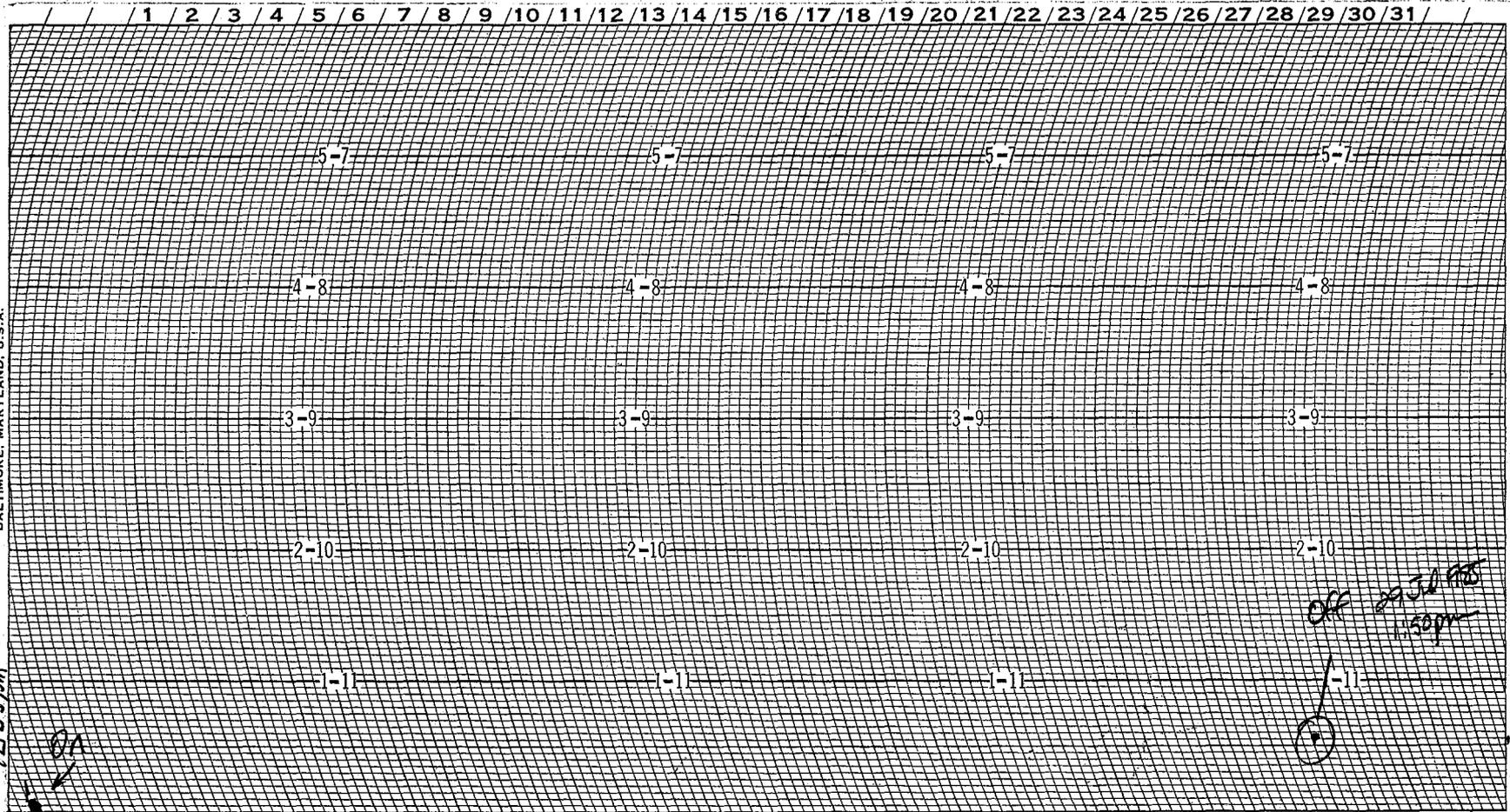
ON 11 AM June 28, 1985 Stage 4.5 inches

APPENDIX C
Rainfall Data

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CHART NO. 15668
12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.

ON 6-28-85
12:25pm



GAGE WITHOUT ADAPTER, 12" CAPACITY, READ CHART DIRECT WITH #1 ADAPTER, 24" CAPACITY, MULTIPLY CHART X 2 WITH #2 ADAPTER, 48" CAPACITY, MULTIPLY X 4

OBSERVER: Gaina
STATION: 41
ON 6-28-85 AM 12:25 19
OFF 2930 hrs AM 1:50 PM