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OF THE

HOUSE OF REPRESENTATIVES

FOR THE

SECOND SESSION OF THE FORTY-EIGHTH CONGRESS,

1884-'85.

WASHINGTON:
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1885.

48TH CONGRESS, } HOUSE OF REPRESENTATIVES. { Ex. Doc. 1,
2d Session. } Part 2.

REPORT

OF THE

SECRETARY OF WAR;

BEING PART OF

THE MESSAGE AND DOCUMENTS

COMMUNICATED TO THE

TWO HOUSES OF CONGRESS

AT THE

BEGINNING OF THE SECOND SESSION OF THE FORTY-EIGHTH CONGRESS.

IN FOUR VOLUMES.

VOLUME II.

PART 3.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1884.

ARMY.

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APPENDIX C C C.

EXPLORATIONS AND SURVEYS IN THE DEPARTMENT OF ARIZONA.

REPORT OF LIEUTENANT THEO. A. BINGHAM, CORPS OF ENGINEERS,
FOR THE FISCAL YEAR ENDING JUNE 30, 1884.

HEADQUARTERS DEPARTMENT OF ARIZONA,
ENGINEER OFFICE,
Whipple Barracks, Prescott, Ariz., June 30, 1884.

GENERAL: I have the honor to submit the following report of this office for the fiscal year ending this day:

PERSONNEL.

I reported for duty as Engineer officer of the Department (per Special Order No. 85, series of 1883, Adjutant-General's Office, Washington) August 9, 1883, relieving Lieut. G. J. Fiebeger, Corps of Engineers.

Topographical Assistants Paul Winckler and E. D. Williams were on duty in the office. The latter has remained throughout the year. The former was discharged December 10, 1883.

On January 1, Oskar Huber, corporal Troop C, Sixth Cavalry, was transferred to fill the vacancy, and has remained since. Two weeks after reporting I left my station to lay out the northern boundary of the White Mountain Apache Indian Reserve.

Returned November 9, 1883.

Submitted report with map, blue print of which was forwarded to your office.

The line laid out was over 90 miles long.

The winter was spent as follows:

Office work of this survey.

Arranging the maps and records of this office, which were in great confusion, so as to be safe from loss and easy of reference.

The usual printing of road-maps of the Territory as called for by officers.

Tracing and printing of many other official drawings, as quarters, plans for water-works, &c.

Two reports were made with drawings on the proposed water supply at Fort Huachuca.

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2400 REPORT OF THE CHIEF OF ENGINEERS, U. S. ARMY.

One with drawings on same at Fort Grant.

Experiments were made in printing by the nigrographic process (black lines on white ground), but could not be satisfactorily carried on for lack of funds.

All unserviceable engineering instruments at the various posts were called in and good ones, as far as possible, issued, together with blank scouting note-books.

At every post in the Territory whence a scout is likely to be ordered, General Orders No. 4, series of 1873, Adjutant-General's Office, Washington; and circular thereto of June 6, 1873, can be complied with. That order and circular were republished at my request as a department general order (General Order 21, of 1883), for the information and guidance of those concerned.

All the unserviceable instruments were examined, and such as could be, repaired here. Inspection report was made on the rest, and all instruments now on my papers are ready for use.

The remoteness of the engineer office from the other department staff offices was found to be a great inconvenience, and was remedied by removal to rooms close by.

March 22, 1884, left station to lay out western boundary of White Mountain Apache Indian Reserve. The northern 30 miles were laid out by my predecessor. I laid out the line from Sombrero Butte to mouth of San Pedro River.

Returned May 29. Rendered report. Map not yet finished.

FIELD WORK.

Survey northern boundary White Mountain Apache Indian Reserve. August to November, 1883. Survey of western boundary of same from Sombrero Butte to mouth of San Pedro River. April and May, 1884. Line of levels, engineer office to signal office. Drainage levels at Whipple Barracks. Rerunning line of post reservation at request of a citizen. Survey of 1,000 yards rifle-range at these headquarters.

OFFICE WORK.

Plotting of above field work. Corrected plan of post and headquarters. Two separate drawings of pumping engine at depot, one finished in water-colors.

Two different plans (4 sheets) for water supply at Fort Huachuca. One plan of same for Fort Grant. All new information got from individuals, and from comparison of maps, and review of field notes on file, has been put on the maps in progress in the office.

All newly-surveyed townships have been likewise inserted.

The large map of the Territory begun under my predecessor was found to have many of these townships wrongly entered, which necessitated a redrawing of the whole map, whose progress has been much delayed by my absences in the field.

Tracings of the boundaries of the White Mountain Indian Reservation, which have been surveyed, have been made, with copies of the field notes, for the Honorable Secretary of the Interior.

A map of this reservation, on scale 4 miles to the inch, showing the surrounding country, also boundary line, township and county lines, m es, &c., is nearly completed.

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