

HISTORIC AMERICAN ENGINEERING RECORD

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Index to Photographs

Bartlett Dam  
On the Verde River  
Phoenix vicinity  
Maricopa County  
Arizona

HAER No. AZ-25

NOTE: Photographs no. AZ-25-1 through AZ-25-31 are photocopies of historic photographs, courtesy of the Salt River Project, U.S. Bureau of Reclamation. Photographer is unknown.

- AZ-25-1 VIEW SHOWING CONTRACTOR'S CAMP AND BARTLETT DAM IN THE DISTANCE. THE CONTRACTOR'S MESS HALL, COMMISSARY, RECREATIONAL HALL, DORMITORIES, CAMP HOSPITAL, AND WORKMEN'S COTTAGES ARE ALSO SHOWN.  
February 20, 1939
- AZ-25-2 VIEW OF BARTLETT DAM ACCOMMODATION SCHOOL, WITH THE DAM AND SPILLWAY IN THE BACKGROUND.  
September 10, 1939
- AZ-25-3 VIEW SHOWING "A" FRAME USED TO LIFT ARCH FORMS. HOOK-UP IS FOR RAISING INTRADOS FORM.  
February 6, 1938
- AZ-25-4 VIEW FROM LEFT ABUTMENT, LOOKING ACROSS DAM TOWARD RIGHT ABUTMENT.  
September 4, 1938
- AZ-25-5 GENERAL VIEW OF DAM FROM TOP OF MIXING PLANT, SHOWING BUTTRESSES 6 TO 10 INCLUSIVE. NOTE CONTRACTION JOINTS ARE GENERALLY FILLED TO ELEVATION 1650. PUMPCRETE TRESTLE IS AT ELEVATION 1698.  
April 21, 1938
- AZ-25-6 GENERAL VIEW OF DAM, LOOKING UPSTREAM TOWARD RIGHT ABUTMENT. LEVEL PART OF TRUSSED WALKWAY IS AT ELEVATION 1740. BUTTRESSES 3 (ON EXTREME LEFT), 4, 5, 6 AND 7 COMPLETED TO ELEVATION 1690.  
May 30, 1938

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- AZ-25-7 VIEW SHOWING PROGRESS BEING MADE ON ASSEMBLY OF SLIDE GATES AND CONDUIT. NOTE SLIDE GATE TRASH RACK STRUCTURE.  
June 21, 1938
- AZ-25-8 VIEW SHOWING THE PLACEMENT OF CONCRETE IN RIGHT GRAVITY ABUTMENT BETWEEN ELEVATIONS 1695 AND 1700.  
July 19, 1938
- AZ-25-9 VIEW OF DAM FROM LEFT SIDE. PUMPCRETE PIPE LINES ARE CARRIED ON WALKWAY. UPSTREAM PARTS OF BUTTRESSES ARE FOG-SPRAYED TO PERMIT PROMPT FILLING OF CONTRACTION JOINTS.  
July 30, 1938
- AZ-25-10 VIEW SHOWING THE ARCH FORMS. THE INTRADOS FORM IS COMMONLY LIFTED 3 TO 4 DAYS AFTER POURING. REINFORCING STEEL IS THEN PLACED AND THE EXTRADOS FORM RAISED TO POSITION. THE OPERATING OF MOVING FORMS, PLACING STEEL AND CONCRETE FOR EACH ARCH LIFT REQUIRES, ON AVERAGE, EIGHT DAYS. NOTE THE TWO LINES OF WATER PIPE ON THE EXTRADOS FORM. THESE PIPES ARE FILLED WITH SPRAY NOZZLES WHICH ARE IN PRACTICALLY CONTINUOUS OPERATION EXCEPT WHEN WORK IS BEING DONE ON THE FORMS.  
August 9, 1938
- AZ-25-11 DETAIL VIEW OF THE RIGHT SIDE OF BUTTRESS 3, SHOWING SPRAY NOZZLES USED TO REDUCE CONCRETE TEMPERATURES.  
August 19, 1938
- AZ-25-12 DETAIL VIEW OF THE CONTRACTION JOINT AT STATION 0-10 ON BUTTRESS 6 BETWEEN ELEVATIONS 1730 AND 1760.  
August 31, 1938
- AZ-25-13 VIEW SHOWING AGGREGATE PROCESSING PLANT AND AGGREGATE DEPOSIT.  
August 31, 1938
- AZ-25-14 VIEW LOOKING UPSTREAM BETWEEN BUTTRESSES 8 AND 9, AT COMPLETED OUTLET CHANNEL PAVING. NOTE SLIDE GATE OUTLET STRUCTURE AT UPSTREAM END OF PAVING, AND NEEDLE VALVE OUTLETS AT RIGHT.  
September 9, 1938

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- AZ-25-15 VIEW LOOKING DOWNSTREAM TOWARD THREE 50 FEET BY 50 FEET SPILLWAY GATES.  
September 20, 1938
- AZ-25-16 VIEW LOOKING DOWNSTREAM AND TOWARD RIGHT ABUTMENT. CROWN OF HIGHEST ARCH IS WITHIN 8 FEET OF TOP OF DAM.  
September 29, 1938
- AZ-25-17 VIEW OF LEFT GRAVITY ABUTMENT EXCAVATION, SHOWING PROGRESS OF TRENCHANT AT UPSTREAM END OF DAM.  
October 10, 1938
- AZ-25-18 VIEW SHOWING, LEFT TO RIGHT, H. J. LAWSON, ALLEN MATTISON, SENATOR CARL HAYDEN, LIN B. ORME, PAUL ROCA, AND J. A. FRAPS. THE UPSTREAM FACE AND SPILLWAY GATES ARE VISIBLE IN THE BACKGROUND.  
October 1938
- AZ-25-19 VIEW OF CONCRETE AGGREGATE PLANT TAKEN FROM SAND STOCK PILE.  
October 19, 1939
- AZ-25-20 VIEW OF TRUCK IN AGGREGATE TUNNEL.  
November 9, 1939
- AZ-25-21 DOWNSTREAM VIEW OF BARTLETT DAM.  
October 31, 1938
- AZ-25-22 VIEW SHOWING THE PLACING OF POROUS CONCRETE AROUND DRAINS IN SPILLWAY PAVING BLOCK ADJACENT TO THE GATE STRUCTURE AND THE LEFT WALL.  
November 9, 1938
- AZ-25-23 VIEW LOOKING UPSTREAM AND TOWARD LEFT ABUTMENT OF DAM. NOTE FORMS FOR LEFT GRAVITY ABUTMENT AT UPPER RIGHT CORNER OF PICTURE. ARCHES 3, 4, 5, AND 7 COMPLETED TO ELEVATION 1795.5 OR 7.5 FEET BELOW TOP OF PARAPET WALL.  
November 29, 1938

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- AZ-2S-24 VIEW LOOKING INTO SPILLWAY CHANNEL AND TOWARD GATE STRUCTURE. CONCRETE IN FOREGROUND IS DOWNSTREAM FACE OF SPILLWAY BUCKET. (NOTE WET BURLAP AT CENTER OVER RETAINING WALL.)  
December 9, 1938.
- AZ-2S-25 VIEW SHOWING SLIDE GATE OUTLET TRASH RACK STRUCTURE AT BASE OF ARCH 8. NOTE TWO SECTIONS OF NEEDLE VALVE TRASH RACKS IN PLACE BETWEEN ARCHES 8 AND 9.  
December 20, 1938
- AZ-25-26 VIEW SHOWING NEEDLE VALVE TRASH RACK NEARING COMPLETION. ARCHES VISIBLE IN THIS PICTURE ARE 8, 9, 10, AND 11, WHICH HAVE BEEN COMPLETED TO SPRINGING LINE ELEVATIONS 1700, 1744, 1766 AND 1766 RESPECTIVELY.  
January 1, 1939
- AZ-2S-27 VIEW FROM TOP OF SPILLWAY GATE STRUCTURE, LOOKING ACROSS TOP OF DAM TOWARDS LEFT ABUTMENT. NOTE PUMPCRETE PIPELINE OF CATWALK WHICH IS USED TO DELIVER CONCRETE TO INCOMPLETE ARCHES ON LEFT SIDE.  
January 1, 1939
- AZ-25-28 VIEW SHOWING LOCATION OF CONCRETE MIXING PLANT AND CABLEWAY TO PUMPCRETE GUN IN RELATION TO THE DAM.  
February 20, 1939
- AZ-2S-29 CLOSE-UP VIEW OF COMPLETED ARCHES ADJACENT TO RIGHT GRAVITY ABUTMENT. NOTE PARAPET WALL AND FLASHBOARD INSERTS ON ARCH 2.  
February 1939
- AZ-2S-30 VIEW LOOKING LEFT TO RIGHT AND SHOWING ONE OF THE 50 FEET BY 50 FEET SPILLWAY GATES, HOIST CHAIN, AND TRACK AND ROLLER ASSEMBLY. MAN IS STANDING ON COUNTERWEIGHT.  
March 9, 1939
- AZ-2S-31 PHOTOGRAPH OF WILLIAM BARTLETT  
c. late 1920, courtesy of Carl Moore.

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The following photographs were taken by Mark Durben, Salt River Project, in 1989:

- AZ-25-32 DOWNSTREAM VIEW OF BARTLETT DAM, SHOWING SPILLWAY, SPILLWAY CHUTE, BUTTRESSES AND OUTLET WORKS
- AZ-25-33 DOWNSTREAM VIEW OF BARTLETT DAM FROM STREAM BED. SPILLWAY RETAINING WALL IS AT UPPER LEFT
- AZ-25-34 VIEW OF SPILLWAY CHUTE, SHOWING CONCRETE APRON AND GUNITE USED TO RETARD EROSION
- AZ-25-35 VIEW OF UPSTREAM SIDE OF SPILLWAY. RESERVOIR, PARAPET AND FLASHBOARDS ARE AT LOWER LEFT; GATE OPERATING ROOM WINDOWS ARE AT CENTER TO UPPER RIGHT
- AZ-25-36 VIEW LOOKING ACROSS DOWNSTREAM FACE OF DAM FROM WEST SIDE. FLASHBOARDS ARE VISIBLE ATOP PARAPET WALL. IRRIGATION RELEASE VALVE HOUSE IS AT CENTER RIGHT
- AZ-25-37 VIEW OF VERDE RIVER FROM ATOP BARTLETT DAM
- AZ-25-38 VIEW OF BARTLETT LAKE FROM ATOP BARTLETT DAM
- AZ-25-39 VIEW OF GATE OPERATING ROOM ABOVE SPILLWAY GATES. NOTE "USBR 1937" INSCRIPTION
- AZ-25-40 VIEW OF WEST END OF SPILLWAY GATE OPERATING ROOM, SHOWING MAINTENANCE CRANE ABOVE MACHINERY
- AZ-25-41 VIEW SHOWING IRRIGATION WATER BEING RELEASED FROM VALVE HOUSE
- AZ-25-42 INTERIOR VIEW OF VALVE HOUSE, SHOWING LOWER VALVE. UPPER VALVE IS BEING REPLACED

The following of photocopies of drawings. Original drawings are on file at the Salt River Project, U. S. Bureau of Reclamation:

- AZ-25-43 BARTLETT DAM, RESERVOIR AND VICINITY MAP. April 23, 1936
- AZ-25-44 BARTLETT DAM, GEOLOGIC MAP AND SECTIONS. February 5, 1939

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- AZ-25-45 BARTLETT DAM, EXCAVATION DETAILS. August 19, 1939
- AZ-25-46 BARTLETT DAM, GEOLOGY AND GROUTING. August 17, 1939
- AZ-25-47 BARTLETT DAM, PLAN, ELEVATIONS AND SECTIONS. April 23, 1936
- AZ-25-48 BARTLETT DAM, BUTTRESS, PLAN AND SECTIONS. December 10, 1936
- AZ-25-49 BARTLETT DAM, BUTTRESS DIMENSIONAL DIAGRAM. August 14, 1936
- AZ-25-50 BARTLETT DAM, ARCH AND BUTTRESS DIMENSIONAL PLAN AND SECTIONS. August 13, 1936
- AZ-25-51 BARTLETT DAM, BUTTRESS NO. 3, CONSTRUCTION RECORD. March 2, 1938
- AZ-25-52 BARTLETT DAM, BUTTRESS NO. 4, CONSTRUCTION RECORD. December 3, 1938
- AZ-25-53 BARTLETT DAM, BUTTRESS NO. 5, CONSTRUCTION RECORD. February 24, 1938
- AZ-25-54 BARTLETT DAM, BUTTRESS NO. 6, CONSTRUCTION RECORD. November 20, 1937
- AZ-25-55 BARTLETT DAM, BUTTRESS NO. 7, CONSTRUCTION RECORD. October 8, 1937
- AZ-25-56 BARTLETT DAM, BUTTRESS NO. 8, CONSTRUCTION RECORD. June 21, 1937
- AZ-25-57 BARTLETT DAM, LEFT GRAVITY SECTION, PLAN, ELEVATION AND SECTIONS. April 19, 1937
- AZ-25-58 BARTLETT DAM, RIGHT GRAVITY SECTION, PLAN AND SECTIONS. October 8, 1937
- AZ-25-59 BARTLETT DAM, WALKWAY AND PARAPET, PLAN AND SECTIONS. August 29, 1938
- AZ-25-60 BARTLETT DAM, SPILLWAY, GENERAL PLAN AND SECTIONS. April 23, 1936

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- AZ-25-61 BARTLETT DAM, SPILLWAY GATE STRUCTURE, SUPERSTRUCTURE.  
April 23, 1936
- AZ-25-62 BARTLETT DAM, SPILLWAY, 50 FOOT BY 50 FOOT REGULATING  
GATE, GENERAL INSTALLATION ASSEMBLY. November 16, 1936
- AZ-25-63 BARTLETT DAM, SPILLWAY, 50 FOOT BY 50 FOOT REGULATING  
GATE HOISE, COMPLETE ASSEMBLY. February 20, 1937
- AZ-25-64 BARTLETT DAM, NEEDLE VALVE HOUSE, PLANS, ELEVATIONS, AND  
SECTIONS. March 26, 1937
- AZ-25-65 BARTLETT DAM, NEEDLE VALVE INTAKE STRUCTURE, PLAN,  
ELEVATION AND SECTIONS. October 19, 1936
- AZ-25-66 BARTLETT DAM, NEEDLE VALVE OUTLETS, PLAN AND SECTIONS.  
April 23, 1936
- AZ-25-67 BARTLETT DAM, OUTLET WORKS, 72-INCH OUTLET PIPES.  
November 6, 1936
- AZ-25-68 BARTLETT DAM, SLIDE GATE OUTLETS, PLAN AND SECTIONS.  
March 29, 1937
- AZ-25-69 BARTLETT DAM, SLIDE GATE OUTLETS, PLAN AND SECTIONS.  
April 23, 1936
- AZ-25-70 BARTLETT DAM, SADDLE DAM, REINFORCEMENT DETAILS  
November 15, 1938