

MINUTES OF

ARKANSAS RIVER COMPACT ADMINISTRATION  
ANNUAL MEETING

December 8, 1959

Court House

Lamar, Colorado

Attendance:

For Colorado:

David Jenkins, Las Animas  
Hacket Smartt, Lamar  
Felix L. Sparks, Denver

For Kansas:

Carl E. Bentrup, Deerfield  
Logan N. Green, Garden City, Vice Chairman  
R. V. Smrha, Topeka

For the United States:

Carl G. Paulsen, Washington, D. C., Chairman

Others Attending:

F. C. Snyder	Division Engineer	Pueblo, Colo.
Francis M. Bell	U. S. G. S.	Denver, Colo.
John T. Martin	Corps of Engineers	Albuquerque, N. M.
Edward J. Tripp	U. S. G. S.	Denver, Colo.
R. J. McGrath	Water Comm. #66 & #67	Lamar, Colo.
James E. Bone	U. S. Engineers	John Martin Dam
Guy M. Vincent	Kansas Water Comm.	Garden City, Kans.
Ross W. Moor	U. S. G. S.	Lamar, Colo.
Col. Albert L. Reed	Dist. Eng'r., U.S. Eng'r Dist.	Albuquerque, N. M.
Robert C. Woodson	Chief Eng'r. Div. " " "	" " "
J. Edgar Chenoweth	Member of Congress	Trinidad, Colo.
Sisto Guidotti	Amity Canal	Bristol, Colo.
Fred L. Boydston, Jr.	Colo. Water Conservation Board	Denver, Colo.

Chairman Paulsen called the meeting to order at 9:40 A. M. and asked for consideration of the minutes of the last meeting. Mr. Bentrup's motion to forego reading the minutes of the October 6, 1959 meeting was seconded by Mr. Smartt and was passed. Mr. Smrha and Mr. Smartt noted small errors in the minutes and Mr. Bentrup then moved that the minutes be approved as corrected. The motion was seconded by Mr. Smartt and was passed.

Mr. Paulsen said he had no report to make as Chairman.

Mr. Smartt gave the Secretary's report as follows:

December 8, 1959

#### Secretary's Report

After adjournment of our October 6th meeting, Mr. Jenkins stated that he had asked Mr. Paulsen about his securing one of the large books which contains the records of the Kansas-COLORADO ARKANSAS RIVER COMPACT ADMINISTRATION. Mr. Paulsen suggested that the Secretary should let him have one, and it was agreed that Mr. Jenkins should sign a receipt for same and, upon his retirement from the board, return it to the Compact Administration office. It was handled in this manner.

The Secretary mailed to Mr. Smrha's office the tables showing the demands for water by both Kansas and Colorado the past water season. The same were furnished to Mr. Sparks' office in Denver.

The Secretary also received from Mr. Smrha's office the water diversions of the Kansas ditches this past season.

On November 22, Mr. R. W. Rollins was contacted by telephone and it was arranged with him to have the annual accounts audited which was done and are here for this meeting.

Other than paying current bills, this concludes the Secretary's report.

A motion to accept the Secretary's report was made by Mr. Smrha, seconded by Mr. Bentrup and passed.

Mr. Smartt then read the Treasurer's Report and distributed copies of the Auditor's Report which was then discussed. These reports follow:

REPORT YEAR  
November 1, 1958, to October 31, 1959

Balance on Hand October 31, 1958, Auditor's Report \$4512.86

Receipts

State of Colorado, September 10, 1959	\$2400.00	
State of Kansas, September 23, 1959	<u>1600.00</u>	
		<u>4000.00</u>
		\$8512.86

Disbursements by the Administration---November 1, 1958, to October 31, 1959:

Voucher No.	Date	Payee & Purpose	Amount
258	1-1-59	R. W. Rollins, Audit and Service	\$ 65.00
259		Treasurer of U. S., Deposits by States	9.00
260		Secretary Salary, Nov. & Dec.	195.50
261		Mtn. States T. & T. Co., Nov. & Dec. Service	26.03
262	3-5-59	Mtn. States T. & T. Co., Jan. & Feb. Service	23.60
263		U. S. Geological Survey, Cooperative-Agreement	375.00
264	3-25-59	Peerless Printing	648.00
265	4-6-59	Treasurer of U. S., Deposits by States	15.00
266	4-5-59	Secretary Salary, Jan., Feb., & March	292.50
267	5-2-59	Mtn. States T. & T. Co., Mar. & Apr. Service	24.85
268		U. S. Geological Survey, Cooperative-Agreement	250.00
269	6-30-59	Secretary Salary, Apr., May, & June	292.50
270		Treasurer of U. S., Deposits by States	15.00
271		Mtn. States T. & T. Co., May & June Service	34.75
272	8-3-59	U. S. Geological Survey, Cooperative-Agreement	250.00
273		Mtn. States T. & T. Co., July & Aug. Service	39.15
274	9-30-59	Lamar Daily News, Letter heads & envelopes	18.67
275		Secretary Salary, July, Aug. & Sept.	292.50
276		Treasurer of U. S., Deposits by States	15.00
277		Valley Agency, Treasurer's Bond	25.00
278	10-31-59	Mtn. States T. & T. Co., Sept. & Oct. Service	45.85
279		Secretary Salary, Oct.	97.50
280		U. S. Geological Survey, Cooperative Agreement	725.00
281		Secretary-Mileage, Pstg. & Mail, Typing	<u>126.52</u>
Total Disbursements			\$3901.92
			<hr/>
Balance on hand October 31, 1959			\$4610.94

ROBERT W. ROLLINS  
CERTIFIED PUBLIC ACCOUNTANT  
LA JUNTA, COLORADO

December 4, 1959

To the Representatives  
Arkansas River Compact Administration  
Lamar, Colorado

Gentlemen:

In accordance with your request, an examination has been made of the financial transactions of the Arkansas River Compact Administration for its "Report-Year" November 1, 1958 to October 31, 1959. The results of the audit are expressed in the attached statement of cash receipts and disbursements, Schedule I, Page No. 4. The remarks which follow are offered as additional information and tend to describe the extent of the audit work performed.

General Comments

Schedule I, reflects the beginning balance of cash in bank, revenue assessments received from the States of Colorado and Kansas, expenditures by classification and the ending balance of cash in bank.

As provided for in the budget of the Administration's meeting of July 8, 1958 and to comply with action taken by the Board at its July 28, 1959 meeting, funds due from Colorado (60% share) of \$2,400.00 and Kansas (40% share) of \$1,600.00 were received for the budget year ending June 30, 1960 and placed on deposit with the First National Bank in Lamar, Colorado, on the respective dates of September 10th, 1959 and September 23, 1959.

All disbursements were made by checks drawn on the Administration's account at the First National Bank in Lamar, Colorado. The individual checks were examined for amount, signature, and endorsement. Amounts so expended were substantiated by verification to payees' statements, authorization of payment as evidenced in minutes of the Compact's meetings, or other supporting documents.

Consistent with prior years' practices, the Secretary's salary for the current year of \$1,200.00 has been reduced by the Old-Age and Survivor's Insurance deductions amounting to \$29.50. It will be noticed on Schedule I, that only \$27.00 of this amount together with the Administration's related contribution, are shown under the classification of taxes. The October 1959 payroll deduction of \$2.50 will be remitted in the subsequent period.

Travel expense of the Secretary for the fiscal year ending October 31, 1959 amounted to \$101.52 or 1269 miles at \$0.08 per mile.

Payments made to the U. S. Treasurer totaling \$54.00 during the year were accompanied by related returns reflecting the Old-Age and Survivor's Insurance information on the Secretary.

Expenditures to the U. S. Geological Survey for the year under review totaled \$1,600.00 and consisted of:

<u>March 5, 1959</u> (Period 7/1/58-12/31/58)		
Original agreement-second quarter based on \$500.00 per annum	\$125.00	
Supplemental agreement-first and second quarters	<u>250.00</u>	\$375.00
<u>May 2, 1959</u> (Period 1/1/59-3/31/59)		
Agreement based on \$1,000.00 per annum		250.00
<u>August 3, 1959</u> (Period 4/1/59-6/30/59)		
Agreement based on \$1,000.00 per annum		250.00
<u>October 31, 1959</u> (Period 7/1/59-9/30/59)		
Agreement based on \$2,900.00 per annum		725.00
	<u>Total</u>	<u>\$1,600.00</u>

Cash in bank at October 31, 1959, per Schedule I, amounting to \$4,610.94 was reconciled to the amount directly confirmed by the First National Bank in Lamar, Colorado. Notation (1) on Schedule I, shows an amount held in trust, arising from the payroll deduction on the Secretary's salary for the month of October 1959 of \$2.50, leaving a balance of \$4,608.44 available for general use of the New Year.

The following summary compares the Administration's financial position at October 31, 1959 with that of a year ago.

Arkansas River Compact Administration  
Lamar, Colorado  
Comparative Balance Sheet

<u>Assets</u>	<u>October 31, 1959</u>	<u>October 31, 1958</u>	<u>Increase (Decrease)</u>
Cash in bank	\$4,610.94	\$4,512.86	\$98.08
Equipment (Portable typewriter)	92.50	92.50	-0-
<u>Total Assets</u>	<u>\$4,703.44</u>	<u>\$4,605.36</u>	<u>\$98.08</u>
<u>Capital</u>			
Unexpended fund balance	\$4,610.94	\$4,512.86	\$98.08
Expended fund balance for equipment	92.50	92.50	-0-
<u>Total Capital</u>	<u>\$4,703.44</u>	<u>\$4,605.36</u>	<u>\$98.08</u>

Because the "Budget Year" covers the period July 1, 1958 to June 30, 1959, it has been necessary to combine related months of the last two "Report Years", in order to compare actual expenditures with the related budgeted items. Such a

comparison is set forth for year review in the following summary.

Comparison of Disbursements With Budget  
Budget Year July 1, 1958 to June 30, 1959

<u>Classification</u>	<u>Disbursements</u>	<u>Budget</u>
<u>Personal Services</u>		
Secretary's salary	\$1,400.00 (*)	\$1,200.00
Taxes-O.A. and S.I.-Administration's share	37.50 (*)	50.00
Gage Reports	875.00 (**)	500.00
Professional services (audit of accounts)	65.00	75.00
<u>Capital Outlay</u>	-0-	300.00
<u>Maintenance and Operation</u>		
Bond-Treasurer	25.00	25.00
Printing	648.00	600.00
Official publications	-0-	100.00
Travel expense-Secretary	34.72	150.00
Typing and mailing	20.00	200.00
Investigation and inspection	-0-	150.00
Telephone and telegraph	208.19	300.00
Office supplies	-0-	150.00
<u>Totals</u>	<u>\$3,313.41</u>	<u>\$3,800.00</u>

Notes

(\*) It will be remembered, Secretary's salary for May and June of 1958, totaling \$200.00 was paid in July 1958. This in turn caused an increase in the Administration's share of O.A. and S.I. tax during the "Budget Year".

(\*\*) \$125.00 of this amount is applicable to the prior "Budget Year".

As anticipated by the Administration, as evidenced in the Meeting of July 8, 1958, sufficient funds were on hand at June 30, 1959 to provide a carry over of \$1,800.00. This amount together with the \$4,000.00 received from the States of Colorado (60%), Kansas (40%), in September 1959, will insure the \$5,800.00 estimated expenditures for the Budget Year- July 1, 1959 to June 30, 1960.

Respectfully submitted,

/s/ Robert W. Rollins  
Robert W. Rollins  
 Certified Public Accountant

Arkansas River Compact Administration  
Lamar, Colorado  
Statement of Cash Receipts and Disbursements  
November 1, 1958 to October 31, 1959  
(Refer to comments in text of audit)

Cash in bank at November 1, 1958 (per audit) \$4,512.86

Receipts

Revenue from assessments		
Colorado portion 60%	\$2,400.00	
Kansas portion 40%	1,600.00	
<u>Total Receipts</u>		4,000.00
<u>Total Available Funds</u>		<u>8,512.86</u>

Disbursements

Salary of secretary	\$1,200.00	
Less: O.A. and S.I. deductions	29.50 (1)	
Sub total		1,170.50
Printing- Annual report	648.00	
Telephone and telegraph	194.23	
Travel expense of secretary	101.52	
Audit fee (Fiscal year ended 10/31/58)	65.00	
Premium on treasurer's bond	25.00	
Typing and mailing	25.00	
Office supplies, stationery, etc.	18.67	
Taxes- O.A. and S.I. payments		
Deductions from employees	\$27.00 (1)	
Administrations portion	27.00	54.00
Surface water investigations by the U.S. Geological Survey	1,600.00	
<u>Total Disbursements</u>		<u>3,901.92</u>

Cash in bank at October 31, 1959 \$4,610.94

Consisting of:

Amount held in trust- Payroll deduction on secretary's salary for month of October 1959		\$ 2.50 (1)
Cash available for expending in subsequent period		<u>4,608.44</u>
<u>Total</u>		<u>\$4,610.94</u>

Cash on deposit at First National Bank, Lamar, Colorado

Per direct confirmation at October 31, 1959		\$5,605.81
Less: Outstanding checks of:		
No. 278 Mountain States Tel. and Tel. Co.	\$ 45.85	
279 Hacket Smartt- Salary	97.50	
280 U.S. Geological Survey	725.00	
281 Hacket Smartt-Mileage, etc.	126.52	994.87
<u>Adjusted Cash on deposit at Bank</u>		<u>\$4,610.94</u>

A motion by Mr. Smrha, seconded by Mr. Green, was made to accept the Auditor's Report of December 4, 1959. The motion passed. Another motion to accept the Treasurer's Report was made by Mr. Bentrup, seconded by Mr. Jenkins and passed.

Mr. Green said that the Legal Committee had no report to make.

Mr. Smrha said that the Engineering Committee had no report to make.

Mr. Bentrup read the report of the Operations Committee and then read the reports on Kansas ditches and Colorado ditches all of which follow:

Operation Committee Report

From Oct. 6, -59 to 12-8,59

The river flow through John Martin reservoir remained under the Administration of the State Engineer until 8:30 A.M. Oct. 31, at which time the gates were closed, because the Colo. Ditches below the Dam cancelled their demands for water at this hour.

Water in storage 8:00 A. M. Dec. 8-59 6,548 A.F.

/s/ Carl Bentrup  
Carl Bentrup, Chairman,  
Operation Committee

ARKANSAS RIVER COMPACT ADMINISTRATION  
LAMAR, COLORADO

December 3, 1959

Arkansas River Compact Administration  
Lamar, Colorado

Gentlemen:

At the July meeting of the Arkansas River Compact Administration the Operations Committee was instructed to inspect the measuring devices on all canals in Colorado and Kansas that are making use of water that is released from John Martin Reservoir and on December 2, 1959, such inspections were made by Carl E. Bentrup from Kansas and Hacket Smartt from Colorado. They were accompanied on the inspection trip



by Ross W. Moor and Charles Keliher of the U. S. Geological Survey, and by Guy M. Vincent and R. J. McGrath, Water Commissioners for Kansas and Colorado respectively.

Listed below are conditions as they were found on the Kansas ditches:

Frontier Ditch-Parshall Flume, 6 foot, steel. Two Recording Gages.

Alamo Canal-No Flume. Recording Gage.

Ft. Aubrey Canal-Concrete paved ditch section. Recording Gage.

Amazon Canal-Box Flume, 17 foot, timber. Recording Gage.

South Side Ditch-No Flume. Recording Gage. Steel Foot Bridge.

Great Eastern Canal-All water for this canal is diverted through the Amazon Canal and is measured by the Amazon Canal measuring devices.

Farmers Ditch-No Flume. Recording Gage. Steel Foot Bridge.

Garden City Canal-Parshall Flume, 4 foot, steel on Main Canal. Concrete Box Flume on Jones Lateral. Two recording Gages.

It is the opinion of the committee that the measuring devices on the Frontier Ditch, the Amazon Canal, and the Garden City Canal Main Ditch are satisfactory and that the measuring devices for the Great Eastern Canal, at this time, are of no concern to the administration.

While it is realized that the adequacy of measuring devices on the Kansas Ditches, with the exception of the Frontier Ditch, are of no immediate concern of the Administration, in the interest of the accuracy of reports it is recommended that the Alamo Canal, Ft. Aubrey Canal, South Side Ditch, and Farmers Ditch be equipped with Parshall Flumes.

The flume on the Jones Lateral section of the Garden City Canal does not function satisfactorily on account of a bad sanding condition but because of the limited reach on which a flume could be placed no solution for the problem was immediately apparent, however, it is recommended that further study be made of this condition and any improvements be made that will help to increase the accuracy of reporting of diversions. The portion of the Garden City Canal water that is diverted through the Jones Lateral is very small.

The Operations Committee

By /s/ Carl E. Bentrup  
Chairman

By /s/ Hackett Smartt  
Member

ARKANSAS RIVER COMPACT ADMINISTRATION  
LAMAR, COLORADO

December 3, 1959

Arkansas River Compact Administration  
Lamar, Colorado

Gentlemen:

At the July meeting of the Arkansas River Compact Administration the Operations Committee was instructed to inspect the measuring devices on all canals in Colorado and Kansas that are making use of water that is released from John Martin Reservoir and on December 2, 1959, such inspections were made by Carl E. Bentrup from Kansas and Hacket Smartt from Colorado. They were accompanied on the inspection trip by Ross W. Moor and Charles Keliher of the U. S. Geological Survey, and by Guy M. Vincent and R. J. McGrath, Water Commissioners for Kansas and Colorado respectively.

Listed below are conditions as they were found on the Colorado Canals:

Fort Bent Canal-Parshall Flume, 12 foot, concrete, under construction. Recording Gage.

Keesee Ditch-Parshall Flume, 3 foot, timber. Recording Gage.

Amity Canal-Parshall Flume, 20 foot, concrete. Recording Gage.

Lamar Canal-Parshall Flume, 15 foot, timber. Recording Gage.

Hyde Ditch-Does not divert water directly from the Arkansas River.

Marvel Canal-Flume consists of 15 feet of concrete retaining wall on South side and timber wall on North side, earth bottom. No gage. Abandoned stilling well is filled with silt and not usable.

X. Y. Canal-No Flume. Staff Gage under Highway Bridge North of Carlton. No Recorder.

Graham Canal-Diverts water from X. Y. Canal and water diverted by this canal has been measured in X. Y. Canal.

Buffalo Canal-Parshall Flume, 8 foot, timber. Discharges through this flume would not conform to standard Parshall Flume rating tables for an 8 foot flume because of loose boards, moss and sand on flume floor and general poor maintenance. Flume is equipped with Staff Gage. No recording Gage.

Sisson Canal-Diverts water only from \_\_\_\_\_ Drain. Has diverted no water for past two years.

It is the opinion of the committee that the measuring devices on the Fort Bent, Keesee, Amity, and Lamar Canals are satisfactory and that measuring devices on the Hyde Ditch, the Graham Canal, and Sisson Canals are, at this time, of no concern to the Administration.

It is recommended that Manvel Canal and X. Y. Canal be equipped with Parshall Flumes, Recording Gages, or other satisfactory measuring devices, and that the Parshall Flume on the Buffalo Canal be rehabilitated and be equipped with a recording gage before the beginning of the 1960 irrigation season.

It is further recommended that Parshall Flumes to be installed new or in replacement of existing flumes be of concrete or steel since the accuracy of wooden flumes become questionable after a comparatively short service life unless they are maintained with meticulous care.

The Operations Committee

By /s/ Carl E. Bentrup  
Chairman

By /s/ Hacket Smartt  
Member

The reports on ditches were discussed extensively and it was generally agreed that all diversions of water in the basin should be measured whether or not it was directly from the Arkansas River.

Mr. McGrath said that about sixty ditches are in the same category as the Hyde Ditch and it would entail extensive travel to check diversions of some small ditches which would not greatly affect the flow of the Arkansas River. Mr. Sparks said that a survey of measuring devices has been instituted on ditches all the way up the Arkansas River. He said that he felt each ditch should have a measuring device although not necessarily a recorder. Mr. Paulsen suggested that ratings should be checked periodically also. After more discussion of the reports and of the measuring devices, Mr. Sparks moved that the three reports of the Operations Committee be adopted and filed, and that the two reports on ditches be forwarded to the respective State Engineers in view of the resolution passed at the July meeting of the Administration. The motion was seconded by Mr. Smrha and passed on a vote by the States.

Mr. Paulsen then asked for consideration of the annual report and copies were distributed to the Administration members. After inspection of the report, Mr. Smrha moved that the eleventh annual report of the Arkansas River Compact Administration be approved subject to proof reading and corrections by members to be made prior to January 1, 1960. The motion was seconded by Mr. Jenkins and was passed by vote of the States.

Chairman Paulsen then introduced Colonel Reed who in turn introduced the Corps of Engineer personnel in attendance. Mr. Paulsen then introduced others in attendance.

Mr. Smrha then noted that the Peerless Printing Company of Denver had previously done the printing of the annual report and asked if a bid had been submitted by them. When informed that a bid had been received from them, Mr. Smrha then moved that the bid of the Peerless Printing Company be accepted in the amount of \$605.00 for 500 copies. The motion was seconded by Mr. Green and was passed. It was noted that this bid is about seven percent greater than the cost of printing the ninth annual report.

Mr. Sparks said he wished to report on the status of projects which concern the Administration. The Colorado Water Conservation Board reviewed an informal report by the U. S. Bureau of Reclamation on the effect of the Trinidad Project on downstream rights. The operating principles were not satisfactory to the State and a new study using new criteria is now under way. The U. S. Bureau of Reclamation is making the study and Colorado is contributing \$10,000 to the study. Mr. Smrha asked if this is an authorized project and Mr. Sparks replied that it is, explaining that the Bureau of Reclamation is charged with development of the irrigation features and the Corps of Engineers with the flood control features. The Model reservoir storage transfer is the main conservation feature of the project. Due to the new study, the plans of the project will probably be delayed about six months. Petitions are now being signed to establish a conservancy district to negotiate a repayment contract. \$75,000 of planning money was allocated to the Corps of Engineers this year for the Trinidad Project. Mr. Paulsen asked if the Bureau of Reclamation and the Corps of Engineers make separate reports, and Colonel Reed asked Mr. Woodson of his staff to explain how the reports are made. Mr. Woodson then said that the Bureau and the Corps make separate reports and briefly explained the preconstruction planning. In discussing the feasibility of the project he said that flood control alone is not feasible nor is conservation storage alone feasible. Mr. Sparks said that when the operating principles are completed they will be sent to the Administration and to the irrigators in the valley.

Mr. Paulsen then asked Mr. Sparks the status of the Fryingpan-Arkansas Project and Mr. Sparks replied that Colorado and New Mexico had given formal approval to the Ruedi Reservoir report and identical bills for the Fryingpan-Arkansas project have been introduced into both houses of Congress for its authorization. Mr. Smrha remarked that the Ruedi report has been submitted to Kansas for comments. Mr. Sparks said that another project under way is a salvage water survey being conducted in the Arkansas Valley. In the upper Arkansas the use of bentonite is being tried in order to salvage water. The research is being conducted with Colorado State University personnel through contributions of the State of Colorado. The lower valley seepage losses will be studied next. Low swell bentonite is available in the valley and it is being used in the experiments. Under this program the ditch companies must pay for the bentonite, and the University personnel will direct its application. The use and installation methods of bentonite were discussed. Mr. Jenkins told of damage to canal bottoms by use of the wrong kind of dynamite in breaking ice jams, and also discussed the use of winter water. Mr. Sparks said that the Fryingpan-Arkansas Project will provide upstream storage for winter water and research is necessary to determine what benefits, if any, are to be found by use of winter water. Colorado State University is now experimenting on irrigation results, but controlled experiments are necessary and small plots will be required in the valley to determine the yield of various methods of irrigation. A general discussion ensued on the cost of producing crops, use of upstream

water, and the time and quantity of application of winter water. It was generally agreed much of the winter water is wasted, and upstream storage is necessary to make more water available during the normal irrigation season.

Mr. Paulsen called for election of officers and Mr. Smartt nominated Mr. Green for Vice-Chairman. The nomination was seconded by Mr. Sparks and Mr. Green was elected unanimously.

Mr. Smrha nominated Mr. Smartt for Secretary. Mr. Bentrup seconded the nomination and Mr. Smartt was elected unanimously.

Mr. Smrha nominated Mr. Smartt for Treasurer. Mr. Bentrup seconded the nomination and Mr. Smartt was elected unanimously.

Mr. Paulsen then called for selection of the Engineering, Legal and Operations Committees. Mr. Smartt moved that the committees and the chairmen of the committees continue as for the past year. Mr. Jenkins seconded the motion and it passed on votes by the States.

Mr. Paulsen asked if there were any remarks from those attending the meeting, and there being none, he said that that constituted the business of the Administration at this meeting.

The meeting adjourned at 11:45 A. M.