Thirty-fifth Annual Report

Arkansas River Compact Administration

(1983)

For The Report-Year November 1, 1982 to October 31, 1983

> LAMAR, COLORADO May 1, 1984

THE ADMINISTRATION

FRANK G. COOLEY Chairman and Representative of the United States

LEO IDLER, CARL G. GENOVA and J. WILLIAM McDONALD for Colorado

CARL E. BENTRUP, GUY E. GIBSON/DAVID POPE, and RONALD OLOMON for Kansas

> 1000 South Main Street Lamar, Colorado 81052

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Annual Report Of

ARKANSAS RIVER COMPACT ADMINISTRATION 1983

Report-Year November 1, 1982 to October 31, 1983

TO: THE PRESIDENT OF THE UNITED STATES AND THE GOVERNORS OF THE STATES OF COLORADO AND KANSAS

Sirs:

Pursuant to Article VIII of the Arkansas River Compact, the Arkansas River Compact Administration submits its report for the Report-year November 1, 1982 through October 31, 1983, as follows:

1. Members of the Administration

Representative of the United States:

Frank G. Cooley

Colorado Representatives:

Leo Idler, Lamar Carl G. Genova, Pueblo J. William McDonald, Denver

Kansas Representatives:

Carl E. Bentrup, Deerfield Guy E. Gibson/David Pope*, Topeka Ronald Olomon, Garden City

2. Officers of the Administration

Chairman:

Frank G. Cooley

Vice Chairman:

Carl E. Bentrup

*Mr. David Pope became the new member of the Kansas delegation at the March 25, 1983 meeting upon the retirement of Mr. Guy Gibson.

Recording Secretary:

Leo Idler

Operations Secretary:

Robert Jesse

Treasurer:

Leo Idler

3. Standing Committees:

Administrative and Legal Committee:

J. William McDonald (Chairman) Carl E Bentrup

Engineering Committee:

Guy E. Gibson/David Pope Carl G. Genova (Chairman)

Operations Committee:

Leo Idler (Chairman) Ronald Olomon

The Representative of the United States is an ex-officio member of all standing committees.

4. Meetings:

December 14, 1982	• • •
,	Annual Meeting
February 1, 1983	Lamar, Colorado
February 1, 1983	Special Meeting (cancelled)
February 2, 1983	Special Telephonic Meeting
March 25, 1983	Special Meeting (cancelled)
March 25, 1983	Special Meeting
August 26, 1983	Garden City, Kansas
August 20, 1963	Special Meeting
Part A	Denver Coloredo

The minutes of these meetings are included in Apppendices "C-1", "C-3" and "C-4".

5. Fiscal:		
TREASURER'S REPORT		
July 1, 1982 through June 30, 198	3 •	97 700 00
CASH BALANCE, JULY 1, 1982		31,133.00
RECEIPTS:		
- A - A A	1 000 00	
- 1 000	7 706 00	
A00	.,	
	4.000.00	22,147.00
TOTAL RECEIPTS		p22,14·.00
DICOTIDEEMENTS:		
—	100.00	
Coological Survey	10,845.00	
Element on the second of the s	2,483.00	
m desistant Phone	250.00	
oce - Compline	550.00	
To the Americal Population and the second se	1,849.00	
o	3,359.00	
Towns 11 Marros	482.00	
	1,336.00	
and the second difference and accompanies to the second se	326.00	
	12.00	
- 1 - 1 - 4 Mantinge	73.00	
Secretarial	1,927.00	22 =02 00
		. 23,392.00
		/1 44E (C)
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EXCESS OF RECEIPTS UNDER DISBURSE CASH BALANCE, JUNE 30, 1983 BALANCE SHEET July 1, 1983 thru December 10,		*36,354
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EXCESS OF RECEIPTS UNDER DISBURSE CASH BALANCE, JUNE 30, 1983 BALANCE SHEET July 1, 1983 thru December 10, CASH BALANCE, JULY 1, 1983 RECEIPTS: Revenue from Assessments: Colorado—60% Kansas—40%	1983 \$17,454.72 11,636.48 2,082.36	\$36,354.68
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EXCESS OF RECEIPTS UNDER DISBURSE CASH BALANCE, JUNE 30, 1983 BALANCE SHEET July 1, 1983 thru December 10, CASH BALANCE, JULY 1, 1983 RECEIPTS: Revenue from Assessments: Colorado—60% Kansas—40% Interest TOTAL RECEIPTS DISBURSEMENTS: Insurance U.S. Geological Survey Professional Fees Office Supplies Printing Annual Report Secretary's Salary Net Payroll Taxes	1983 \$17,454.72 11,636.48 2,082.36 100.00 11,995.00 300.00 90.82 1,679.40 241.20 747.50	\$36,354.68
EXCESS OF RECEIPTS UNDER DISBURSE CASH BALANCE, JUNE 30, 1983 BALANCE SHEET July 1, 1983 thru December 10, CASH BALANCE, JULY 1, 1983 RECEIPTS: Revenue from Assessments: Colorado—60% Kansas—40% Interest TOTAL RECEIPTS DISBURSEMENTS: Insurance U.S. Geological Survey Professional Fees Office Supplies Printing Annual Report Secretary's Salary Net Payroll Taxes Telephone	1983 \$17,454.72 11,636.48 2,082.36 100.00 11,995.00 300.00 90.82 1,679.40 241.20 747.50 87.14	\$36,354.68
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Office Expense	19 10
Bank Charges	14.10
TOTAL DISBURSEMENTS	10.00
EXCESS OF RECEIPTS OVER DISBURSEMEN	JTC 14 410 40
CASH BALANCE DECEMBER 10, 1983	50.705 00
Checking Account\$ 74.1	1
Savings Account 50,690.9	7
\$50,765.0	
•	100,100.00
(a) Pursuant to provisions of the Compact (Article	e VIII-E(3)) and
of the Dy-Laws of the Administration (A ##:	ala VIII/ell AL-
receipts and dispursements of the Administra	ation during the
compact year have been audited, and the repor	rt of the audit is
hereto attached as Appendix "A."	
BUDGET	
Fiscal Year July 1, 1984-June 30, 1985	
A. SALARIES	.
1. Recording Secretary \$3,60	9,941.20
2. Operations Secretary 6,100	U.UU B. AA
3. Payroll Taxes 24.	0.00 1.20
B. GAUGING STATIONS:	
1. Maintenance and Operation	16,250.00
A. Cooperative-changed to Dec. 13, 1993	
Agreement\$15,750.00	
Agreement	
John Martin Dam	
Granada Gauge 500.00	
C. OPERATING EXPENSE:	4,600.00
1. Treasurer's Bond	. 00
** Amuan Report 1.650	.00
3. Uffice Expense	
A. Telephone	
B. Supplies	
C. Printing 350.00	
4. Travel and Meetings 200	.00
o. Audit sen	Δ0.
D. CONTINGENCY: E. TOTAL BUDGET	,
	\$31,791.20
Colorado (60%)	.72
Kansas (40%)\$11,216	.48

Budgeted expenditures in excess of assessments will come out of surplus. This was adopted Dec. 13, 1983.

6. Facts about the John Martin Project:

The John Martin Reservoir Project was built by the Corps of Engineers, United States Army. The project was authorized by Congress in the Flood Control Act of June 22, 1936, when the federal responsibility for flood control throughout the country was assigned to the Corps of Engineers. It is located on the Arkansas River, 58 miles upstream from the Colorado-Kansas stateline and 18 miles upstream from the city of Lamar, Colorado. Construction of the project began in the fall of 1939, but work was suspended by World War II from the spring of 1943 to the spring of 1946. The project was completed in October 1948 at a cost of about \$15 million. The War Department Civil Appropriation Act of June 24, 1940, changed the name of the project from Caddoa Reservoir Project to John Martin Reservoir Project, in honor of the late Congressman John A. Martin of Colorado. It is operated by the United States Army Engineer District, Albuquerque, New Mexico. Mr. Russell Smith has been the resident superintendent of the project since October, 1976.

The John Martin Reservoir Project is part of the comprehensive plan for the control of floods and the development of the water resources of the entire Arkansas River basin. The reservoir provides 270,375 acre-feet of storage capacity for flood control. It protects the fertile Arkansas River Valley below the dam. It provides 350,951 acrefeet of storage space for conservation and recreation. John Martin Reservoir supplies water to the irrigated lands below the dam as far as Garden City, Kansas. The top of the conservation pool is 3,851 feet above mean sea level, which provides 350,951 acre-feet of storage for irrigation. The release of stored flood waters in excess of the conservation and recreation pools and above elevation 3,851 feet is planned so that, when combined with flows originating downstream from the dam, the capacity of the channel will not be exceeded. Upon request of the Arkansas River Compact Administration, irrigation water for downstream water users is released through the outlet works in the base of the dam. Downstream flood damages prevented by John Martin dam already exceed the cost of the project. Benefits have already passed the \$92 million mark.

Recreation and favorable fish and wildlife habitats are derived from this project. With reservoir lands open to all, there are many attractive public use areas for outdoor recreation, water sports, fishing and boating, or just relaxed living. During construction some embankment material was obtained from a 75-acre tract of land immediately downstream of the dam. This excavated area, averaging 12 feet deep, filled with water and formed Lake Hasty, the center of year-round

recreation.

John Martin Dam consists of a concrete gravity structure 1,644 feet long and 120 feet high, and an earthfill structure 2,600 feet long. The concrete gravity structure contains a gated spillway provided with sixteen 30 feet by 64 feet tainter gates with their operating machinery. There are earthen wing dams on either side of the main dam. The north wing dam is 3,880 feet long, connecting to the earthfill structure of the main dam at the north abutment. The south wing dam is 5,807 feet long and connects to the south end of the concrete structure of the main dam. A bituminous-surfaced roadway, 21 feet wide, extends along the crest of the north wing dam, main dam, and south wing dam. The overall length of the structure is 2.6 miles. Detailed project data are shown below.

Total length, feet Maximum height above streambed, feet Width of roadway on dam, feet	
Ath 40	

SPILLWAY

Total length, including piers, feet	1,174
Crest gates, 30' x 64' Discharge capacity, cubic feet per second 6	• • •

OUTLET WORKS

Sluicing conduits, 6' x 7½'		
Regulating conduits 4' - 4'	•	4
Regulating conduits, 4' x 4'		2

RESERVOIR

Capacity, acre-feet	
Flood control storage, acre-feet 270.37	26
Conservation (irrigation) and recreation, storage, acre-feet	5
Water surface at spillway crest, acres	<u>5</u> 1
Water surface at top of conservation and	Ю
Water surface at top of conservation pool, acres 11,65	i5
Water surface at top of flood control pool, acres 17,63	Ю
Drainage area, square miles	5

A ½-mile of the historic Santa Fe Trail north of the reservoir has been enclosed by a fence. An appropriate sign perpetuates this bit of Americana for posterity.

7. Cooperative Studies and Activities:

- (a) Article VIII G (1) of Arkansas River Compact requires the Administration to cooperate with the Chief Official of each of the states of Colorado and Kansas charged with the administration of water rights in their respective States, and with the Federal agencies in systematically determining and correlating the facts pertaining to the flow and diversion of the water of the Arkansas River and to the operation and siltation of John Martin Reservoir and other related structures. Article VIII G (2) requests the Director of the United States Geological Survey, the Commissioner of the United States Bureau of Reclamation, and the Chief of the Engineers, United States Army, to cooperate and collaborate with the Administration and with appropriate State officials in such determinations and correlations of stream flow and related data. Under the By-Laws of the Administration, these cooperative studies and activities are assigned to the Engineering Committee of the Administration.
- (b) During the year covered by this report the Administration has received excellent cooperation from all agencies referred to in the foregoing provisions of the Compact. The United States Geological Survey has continued the operation of the compact

gaging stations and the analysis and compilaton of the hydrologic data presented in this report and used in the ad-

ministration of the Compact.

(c) The Corps of Engineers continued to operate the conservation pool of John Martin Reservoir in accordance with the terms of the Compact and the orders of the Administration. A new area capacity table for John Martin Reservoir was issued by the Army Corps of Engineers and put into effect August 12, 1981.

8, Water Supply, Reservoir Operations and Hydrologic Data:

The 1983 Arkansas River Compact year and the winter storage season for John Martin Reservoir began at 0001 hours November 1, 1998 with 12,241.0 acre-feet in the reservoir distributed as follows:

Agreement Accounts = 8,866.8 a.f.

Permanent Pool = 3,374.2 a.f.

Winter Storage ended at 1636 hours on May 18, 1983 with a total of \$4,516.47 a.f. stored during this period in the following accounts: 90,539.47 a.f.

Compact Water

Amity Winter Water

23,977.00 a.f.

Following the transfer of the stored inflows to John Martin Reservoir into the agreement accounts in accordance with the Operating Plan, adopted April 24, 1980, the allocation of the reservoir gentents at 2400 hours May 18, 1983 were as follows:

91,661.95 a.f.** Agreement Accounts* Λ a.f. **Compact Water** a.f. 0 **Amity Winter Water** 3,006.42 a.f. Permanent Pool

94,668.37 a.f.

Summer storage period began at 1636 hours May 18, 1963. At that time the Conservation Pool was empty. During the summer season inflow to the Conservation Pool totalled 210,438.72 a.f. This total, minus evaporation losses, was all released into accounts in accordance with the Operating Plan, adopted April 24, 1980. The Conservation Pool was empty at 2400 hours, October 31, 1983. The summer operations of the Conservation Pool are tabulated as follows:

May 18 June 1 July 1 Aug. 1 Sept. 1 Oct. 1	Contents, A.F. Beginning Date Shown 0 409.28 43,287.42 41,890.25 0 0	A.F. 3,262,20 113,016.59 77,428.18 16,731.75 0	A.F. 0 574.94 1,964.57 556.43 0	A.F 2,852.92 69,563.51 76,860.78 58,065.57 0 0	43,287.42 41,890.25 0 0
TOTALS		210,438.72	3,095.94	207,342.78	

*includes:

Kansas Account

Kansas Transit Loss Account

Colorado Ditches Accounts

**includes carryover from previous year

and to not be summer storage period two major purchases of trans-mountain water were made by the Cotorado Division of Wikilife and delivered to the John Martin Reservoir Permanent Pool. These were:

to surrive and the surriverse of t October 1 1983

4,215, 15 an

4,215, 15 an Kansas Agreement Account

15,112.19 a.f.

16,112.19 a.f.

16,1 Total

The technical data for this section was complied by the Colorado Water. Conservation Board staff tilling data from the Operations Secretary. Arkansas River Compact Administration, till U.S. Geological Survey, Colorado Division of Water Resources and the minutes and correspondence of the Arkansas River Compact Administration. sumy wanter water. Following the stored inflows to John march Reservoir into the agreement accounts in accordance with the Operating Plan, adopted April 24, 1980, the allocaling Plan, adopted April 24, 1980, the April 25, 1980, the allocaling Plan, adopted April 24, 1980, the allocaling Plan, adopted April 25, 1980, the adopted Apri In general, streamflow records of satisfactory accuracy were obtained at the Compact stations. Emphasis was again placed on obtaining more field data, particularly in the form of discharge measurements at various stages of flow. Several more measurements were made at each site than are required under agreement with the Compacts Measurements made by personnel of the Colorado State Engineers were incopporated into the records

During part of the loss water year, computations of discharge were
made at many of the Compact sites using data transmitted by satellite
communication and compact sites using data transmitted by satellite
survey and personnel of Fuggrammanial Resource and recinology Inc.
The methods of computation proved beneficial in providing real-time
data at the sites as well as in identifying meableing. Data transmitten data at the sites as well as in identifying problems. Data transmission at the sites was discontinued by February 1963.

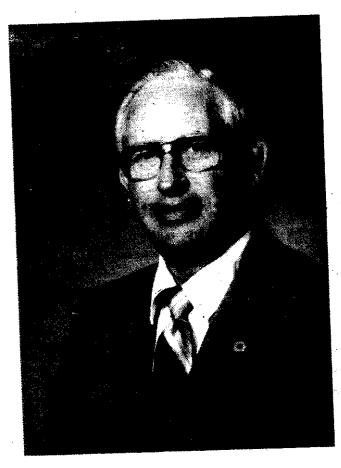
There were no critical problems at the stations during the year, with the exception of the continuing unstable changes and controls.

The administration approved a cooperative agreement with the U.S. Geological Sorvey for the fiscal year October 1, 1962, to September 30, 1963, in the amount of \$16,850 \$2.425 for each party. These funds are for supplemental measurements at the sites; the operation of one station Arkaneae River hear Cranada Chimado: maintenance of radio station, Arkansas River near Granada, Colorado; maintenance of radio equipment, and the preparation of records for the annual report. /.3**5**() 10. Findings of Fact by the Administration TOTALS

There were no findings of fact made by the Administration during Compact Year 1983. neludes:

Hansas Account

*Contents of Kansas Transit Loss Account were transferred to other Agreement Accounts at 0001 hours. November 1019895370100



GUY E. GIBSON

Mr. Guy E. Gibson retired on August 23, 1983, after serving as a representative of the State of Kansas on the Arkansas River Compact Administration since 1972 and as Chief Engineer Director, Division of Water Resources Kansas State Board of Agriculture.

Mr. Gibson served in World War II as First Lieutenant, U.S. Air Force Pilot and Engineer in charge of building and grounds at air base in China; Distinguished Flying Cross, Air Medal with Oak Leaf Cluster, three battle stars, theatre ribbons and received the British R.A.F. Wings as a pilot.

His many years of outstanding contribution to the Arkansas River Compact Administration have been appreciated by both Kansas and

This appreciation has been expressed in a resolution adopted by the Administration at its Special Meeting on March 25, 1983.

APPENDICES FOR ANNUAL REPORT OF THE

ARKANSAS RIVER COMPACT ADMINISTRATION

For the Report-Year November 1, 1982, to October 31, 1982

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Appendices:	
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	Proble Calanada
Appendix "B-2"	Daily Discharge; Arkaness River at Les Animes, Colorado Daily Discharge; Purgateire River near Let Animes, Colorado
	Las Antonia Calmada
Appendix "B-s"	Delly Discharge Barrier 1
	Las Animas, Colorado
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	July River Flow into John Martin Reservoir
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	John Martin December
Annendix "R.te	John Martin Reservoir "Deily Contents of John Martin Reservoir
	Anna Committee in Name William Wood-Adf.
Annually (40.4)	Committee Pool
Withaman D.A.	Daily Cutflew from John Martin Reserveir
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Without D-1	PURE PROPERTY : APPENDED EXTENS of
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Annual till all	Grunde, Cutrade.
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A	Colorado Kannas Statelline
whitemax 12-10.	
* -	North Vol. Committee Park Inte
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Plate I	Arkansas River Compact Administration
	4450W, CORLOW AND CONCERNS of John Martin
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APPENDIX "A-1"

Auditors's Report

Crimond, Farmer & Co.

CERTIFIED PUBLIC ACCOUNTANTS 203 East Oak Lamar, Colorado 81052 Richard P. Crimond, C.P.A. Ronny R. Farmer, C.P.A.

To the Representatives Arkansas River Compact Administration Lamar, Colorado 81052

We have examined the Statement of Assets and Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1983, and the Statement of Cash Receipts and Disbursements, Changes in Cash Balance and the Statement of Cash Receipts and Disbursements with Budget Comparison for the year ended June 30, 1983. Our examination was conducted in accordance with generally accepted auditing standards, and accordingly, ncluded such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

As described in Note 1 of the Notes to Financial Statements, the accompanying statements are prepared on the cash basis of accounting and accordingly they are not intended to be presented in conformity

with generally accepted accounting principles.

In our opinion, the financial statements present fairly the Assets and Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1983, and the results of Cash Transactions for the year then ended on a basis consistent with the previous year.

Crimond, Farmer & Co. **Certified Public Accountants**

August 8, 1983 Lamar, Colorado

EXHIBIT A

ARKANSAS RIVER COMPACT ADMINISTRATION STATEMENT OF ASSETS AND LIABILITIES ARISING FROM CASH TRANSACTIONS JUNE 30, 1983

ASSETS:	
Cash and Savings	***
Equipment Control	···· ¥36,354
Concrete Control	
Volta de Volta di	8,000
TOTAL ASSETS	\$53,938
LIABILITIES:	
CASH BASIS EQUITY:	
Expended:	*
Equipment	
Concrete Control	····¥ 9,584
Concrete Control Unexpended	8,000
	\$36,354
TOTAL CASH BASIS EQUITY — NOTE 1a	
- OTHE OFFICE DANG EQUIT - NOTE 18	 \$ 53,938
TOTAL LIABILITIES AND CASH DAGG TOTAL	
TOTAL LIABILITIES AND CASH BASIS EQUITY	··· \$ 53,938
The accompanying notes are an integral part of the statements.	financial

EXHIBIT B

ARKANSAS RIVER COMPACT ADMINISTRATION STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS AND CHANGES IN CASH BALANCE FOR YEAR ENDED JUNE 30, 1983

•		t97 700
CASH BALANCE, JULY 1, 1982		, <i>50</i>
RECEIPTS:		
Danama from Accesments	11 000	
Colorado	11,000	
Voncac	7,130	
Interest	2,803	
Miscellaneous		99 147
TOTAL RECEIPTS		22,147
TYPEDITE CEMENTS:	4.00	
Two words	100	
Coological Survey	10,845	
The same and	2,483	
Declaral Rees	250	
Office Supplies	550	
Printing	1,849	
Secretary's Salary—Net	3,359	
Payroll Taxes	482	
Telephone	1,336	
Telephone	326	
Typing and Mailing	12	
Bank Charges	73	
Travel and Meetings	1.927	
Secretarial TOTAL DISBURSEMENTS		\$23,592
TOTAL DISBURSEMENTS		, ,
EXCESS OF RECEIPTS OVER (UNDER)		(1.445)
DISBURSEMENTS		\$36,354
DISBURSEMENTS BALANCE, JUNE 30, 1983		
The accompanying notes are an integral part statements.	of the	financial

EXHIBIT C

ARKANSAS RIVER COMPACT ADMINISTRATION STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS WITH BUDGET COMPARISON FOR THE BUDGET YEAR JULY 1, 1982 TO JUNE 30, 1983

CASH BALANCE, JULY 1, 1982	BUDGET		ACTUAL OVER (UNDER)
RECEIPTS:	₹	\$37,799	\$37,799
Revenue from Assessments:			
Colorado — 60%	11 coe	11 400	_
Kansas — 40%	7790	11,608	3
Interest	1,130	7,736	_
TOTAL RECEIPTS	10.044	2,803	2,803
TOTAL TO ACCOUNT FOR	19,341	22,147	2,806-
DISBURSEMENTS:	19,341	59,946	40,605
U.S. Geological Survey			
Socretory's Salama No.	8,500	10,845	2,345
Secretary's Salary—Net		3,359	(241)
Bond and Insurance	100	100	
Telephone	1,500	1,336	(164)
Payroll Taxes	241	482	241
Typing and Mailing		325	325
Travel and Meetings	1,000	73	(927)
Professional Fees	650	2,177	1,527
Office Supplies	500	, 551	51
Printing	1,250	1,849	599
Contingency	2,000	2,483	483
Bank Charges		12	12
TOTAL DISBURSEMENTS	19.341	\$23,592	_
CASH BALANCE, JUNE 30, 1983\$,- 4-	\$36,354	(4,251)
· · · · · · · · · · · · · · · · · · ·		700,002	\$3 6,354

The accompanying notes are an integral part of the financial statements.

ARKANSAS RIVER COMPACT ADMINISTRATION NOTES TO CASH BASIS STATEMENTS JUNE 30, 1983

Note 1 — Summary of significant accounting policies:

a. The Administration maintains financial records using the cash basis of accounting. By using the cash basis of accounting certain key accounts needed to present financial position and results of operations are omitted; examples of these accounts are accounts receivable and accounts payable.

EXHIBIT D

CRIMOND, FARMER & COMPANY Richard P. Crimond, C.P.A. Ronny R. Farmer, C.P.A. 203 East Oak Lamar, CO 81052 September 8, 1983

Arkansas River Compact Administration Lamar, Colorado 81052

Gentlemen:

This letter is being written at your request to explain the variance in Colorado assessment on the report submitted for the year ended June 30, 1983, and the budget amount as set by the Compact.

There was included on a deposit slip with the Colorado contribution, a miscellaneous reimbursement item in the amount of \$3.71, which erroneously was included as part of the Colorado assessment. When rounded to whole dollars this caused a \$3 variance between actual and budget which in fact does not exist but was the result of a very minor misclassification of a receipt. We regret any inconvenience caused you by this and trust our explanation will suffice to clear the item.

Respectfully submitted, Crimond, Farmer & Co.

/s/ Richard P. Crimond

RPC/lk

APPENDIX "B-1"

ARKANSAS RIVER ABOVE PUEBLO, COLORADO

					USGS	Report-Ye Records— USGS Ga	eport-Year ending October 31, accords—Provisional, Subject 1 USGS Gaging Station #07099400	Report-Year ending October 31, 1983 Records—Provisional, Subject to Revision USGS Gaging Station #07099400	963 Revision			
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APPENDIX "B-2" ARKANSAS BIVER AT LAS ANIMAS, COLORADO

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APPENDIX "B-3" PURGATOIRE RIVER NEAR LAS ANIMAS, COLORADO

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APPENDIX "B-4" RIVER FLOW INTO JOHN MARTIN RESERVOIR

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The Riverflow into JMR is the sum of the using now rear rear Las Animas (Appendix B-3).

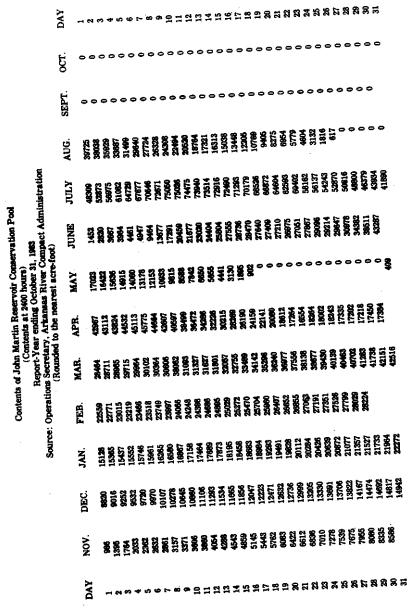
APPENDIX "B-5"

CONTENTS OF JOHN MARTIN RESERVOIR

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APPENDIX "B-5a"

CONTENTS OF JOHN MARTIN RESERVOIR CONSERVATION POOL



APPENDIX "B-6"

OUTFLOW FROM JOHN MARTIN RESERVOIR ARKANSAS RIVER BELOW JOHN MARTIN RESERVOIR

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APPENDIX "B-7" ARKANSAS RIVER AT LAMAR, COLORADO

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APPENDIX "B-8" ARKANSAS RIVER NEAR GRANADA, COLORADO

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APPENDIX "B-9" ARKANSAS RIVER AT THE COLORADO-KANSAS STATELINE

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APPENDIX "B-10"

TRANSFER OF COMPACT WATER FROM THE JOHN MARTIN RESERVOIR CONSERVATION POOL INTO AGREEMENT ACCOUNTS

			E	Transfer of Compact Water from the John Martin Reservoir Conservation Pool	ompact We	iter from t	he John Ma	ırtin Reser	oir Conser	vation Pool			
				Source: O	perations S	ecretary,	nto Agreement Accounts 1/ cretary, Arkansas River Co (Acre-feet)	ounts 1/ liver Comp	Source: Operations Secretary, Artanasa River Compact Administration (Acre-feet)	stration			
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70		-	>		•		1984		2479	0	-	0	3
TOTAL	•	•	0	0	•	53244	37933	69560	76949	58069	c	•	
THE YEAR 295,655 acre-feet	295,655 ac	re-feet					}	,	3	Oberes	>	>	

1/ All conservation pool water was apportioned as follows into Colorado and Kansas Accounts: 40% to Kansas and 60% to Colorado, as described in the 1890 Colorado-Kansas Storage Resolution, and 35% of all "other water" delivered to John Martin Reservoir to the Kansas transit loss account.

APPENDIX "B-11"

DEMANDS BY COLORADO FOR AGREEMENT ACCOUNT WATER IN JOHN MARTIN RESERVOIR

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		SEPT.		8 8	630	909	909	609	969	800	8 6	(4)	767	792	431	743	834	842	827	802	802	80Z	2	832	812	36	711	612	250	201	363	285	388	\$		10095	
teservoir	ration	AUĞ.		1429	1429	1395	1290	1941	170	147	1241	1231	1367	1408	1432	1439	1439	1439	1423	1388	1373	1360	1353	1353	1353	1371	1382	1333	1259	1232	1181	1137	1010	914	192	40070	
ın Martin F	t Administ	Y.IIII.		8	626	S	02.0	į	1010	1221	1293	1338	1355	1355	1340	1331	1377	1396	1323	1226	1226	1208	1325	1374	1422	1469	1477	1477	1489	1509	1516	1454	1425	1429	1429	Agrada	40/01
ater in Job	er 31, 1963 er Compac	HIME	9005	874	867	96	5 3	3 3	E	827	820	755	650	288	526	8	610	671	863	663	3	£	863	675	902	805	898	1012	1107	1094	1016	953	996	981			23/82
recount Water in John Martin Reservoir	Report-Year ending October 31, 1963 Secretary, Arkansas River Compact Administration	(Acre-feet)	MAI	g	5 5	2 -	17 1	171	125	282	370	370	782	1113	1142	1142	1142	1142	1167	1275	1316	1918	96	6	200	Ę	218	223	223	28.	145	7	184	545	\$		16896
Agreemen	ort-Year en cretary, Ar	_	APR.	<	> <		-	>	0	0	0	0			,		,	•	•	> <	•		-	•	> <	• <	> <	. =	• •	• •	> <	? ?	5 5	8	3		328
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APPENDIX "B-12"

DEMANDS BY KANSAS FOR AGREEMENT ACCOUNT WATER IN JOHN MARTIN RESERVOIR

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			SEPT.	i	E	783	70	2 6	2 2	2	38	26	28	282	2	52	50	200	2 2	<u> </u>	3	~	0	0	0	•	0	0	0	0	0	0	0	0	0		:	12259
Bervoir			AUG.		8	1190	1190	8	8 5	2	8	1190	1190	1190	1190	1190	1190	130	1180	1190	1190	1190	1190	1190	1190	1190	1190	1190	8	1190	1190	1190	1190	1190	1041	783		4634 4
Martin R	ry, 1983		JULY	<	>	0	0	-	ò	8 5	2 8	28	Ž	26	28 28	8 20	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	26	1190	BE 1	961	1190	1180	1190	1190	1190	1190		7706
er in John Jeaner)	31, 1963 18 Secreta	!	JONE	•	ه د	-	•	0	-		•	٠ -	-	•	0	•	0	•	•	•	•	0	•	0	0		.	.	5 6	- (٠,	-	•	•	0	•	2	ब =
Demands by Kansas for Agreement Account Water in John Martin Reservoir (Not including transit loss relesses)	Report-year ending October 31, 1993 Source: Annual Report of the Operations Secretary, 1993	feet)	MAY	•	•	>	•	0	•	38.4	202	2 2	2	25	83	8	8	8	똻	33	33	2 <u>8</u>	88 8	3	E 2	32 5	2 2	2 2	3 9	> 0	.	-	۰,	.	.	0	£	2
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		NOV.		۰.	•	0		•	-	.	•	0	•	0							_		_	_	_	_	_	_										966 acre
														-	_	-	_	-		_	_		_	_	.	9	•	0	0	•	0	0	•	•)	THE YEAR 98,966 acre-feet
	•	DAY	•		×	e	•	· u	> 4	9 1		∞	•	2	=	21	2	7	12	97	11	81	18	8	ĸ	ន	ន	ā	19	R	5	8	23	8	R	i	TOTAL	

APPENDIX "B-13" STATELINE FLOWS OF DAYS OF KANSAS DEMANDS

						(Cubic feet per second)	(Cubic feet per second)	esd)				ļ	
DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEPT.	3	
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	ŀ	1	ı		1	1	452		8		4	3	
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TOTAL							1098	•	13894	20066	96 6	2360	
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APPENDIX "B-14a"

DIVERSION BY DITCHES IN COLORADO WATER DISTRICT 14

					Acretect	3							
NAME OF CANAL	NOV.	DEC	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.		YEAR
Bessemer (River) Res. or Imported Total Bessemer	2061 0 2061	•••	000	000	2113 0 2113	792 792 6909	9544 673 10217	12207 206 12415	17414 215 17629	14658 1908 16566	6339 2860 850 850 850	4308 55 503	74651 6811 81462
Minnequa-Ft. Union	9717	7504	7482	9519	6272	7134	7203	4839	2463	3907	25. 80.	5724	76201
West Pueblo (River)	•	ę		0	•	•	. 25	23	248	28	. 21	•	759
Excelsior (River) Res. or Imported Total: Excelsior	000	•••		⊕ .⇔	000			•••	ညီ ခ လိ		•••	000	လို ့ လ
Collier	0	•	•	•	•	٥	•	•	0	•	•	•	٥
Colorado Canal (River) Res. or Imported Total: Colo. Canal	000	•••	•••	6225 6225 0	12335 3430 15765	8732 1376 10108	22010 6861 28871	21699 0 21699	29116 1578 30694	7775 17466 25241	1028 9262 10290	0 5716 5716	102685 51914 154609
Highline (River) Res. or Imported Total: Highline	3172 0 3172	000		• • •	3172 236 3408	7114 2239 9053	12116 1872 13968	14569 1738 16307	22558 2125 24683	15284 7258 22542	8446 4758 13204	10278 0 10278	96709 20226 116985
Oxford Farmers (River) Res. or Imported Total: Oxford Farmers	98 0 98	•••	000		974 974	3875 0 3875	4511 0 4511	22.00 0 0.00 0 0.00	7261 0 1261	7867 0 7867	6073 56 6135	1063 15 1078	36705 71 36776
Native District #14 Import District #14 Total: District #14	13408 0 13408	7504 0 7504	7482 0 7482	12381 0 12381	28459 73 28532	29762 383 30145	57223 7604 64827	59828 0 59828	94495 1578 86073	68550 7545 76085	45690 580 580 580	27159 0 27159	441941 17763 459704

APPENDIX "B-14b"

DIVERSION BY DITCHES IN COLORADO WATER DISTRICT 17

YEAR

			Z &	version by Wal	Diversion by Ditches in Colorado Water District 17 Report-Year ending October 31, 1963	in Color et 17 ctober 31	ado 1983					
		υ)	ource: W	ater Com	Imissioner (Acre-feet)	r's Montl D	Source: Water Commissioner's Monthly Reports (Acre-feet)	sa sa				
NAME OF CANAL	NOV.	DEC.	JAN	FEB.	MAR.	APR.	MAY	JUNE	MILY	AUG.	SEPT.	OCT.
Otero	0	0	•	•	0	0	1321	3067	2802	1521		£63
Res. or imported Total: Otero	00	•	• •		• •	•	1321	3067	2802	1521	.	\$
Catlin Canal (River)	4235	•	•	•	3026	996	10547	13011	18343	17735	12577	8857
Res. or Imported Total: Catlin	4235	•	00	• •	908 0	788 0 88	10547	0 13011	0 18343	20013 20013	2768 15345	2811 11668
Hollwook (Bivor)	1697	•	-	•	12	2005	9689	20683	13062	13638	3465	•
Res. or Imported	9	•	•	• •	0	616	8	0	95	2887	2481	3005
Total: Holbrook	1667	•	•	•	1273	7621	7124	20683	13708	16525	2846	3000
Rocky Ford	3356	1406	139	8	2228	3387	4746	5194	5635	5439	4826	4176
Ft. Lyon (storage)	10364	19039	17554	14461	4754	3282	4103	•	0	5830	•	•
Ft. Lyon (Riv.) Res or Imported	23249	00	00	00	8 8 9	24474	48771	90316 0	25 55 55 55 55 55 55 55 55 55 55 55 55 5	58529	21117	10187 0
Kicking Bird*	•	• •	•	. 0	•	•	•	23703	17634	1742	900	0
Total: Ft. Lyon-K.B.	33613	19039	17564	14461	10256	277756	52874	114019	95827	66101	21717	10187
Las Animas Consol.	1279	•	•	•	38	2875	3582	3378	707	9889	4083	2328
Native—District #17	44180	20445	17693	15160	16345	49408	80194	159352	143386	116479	52017	31824
Import—District #17 Total District #17	44180	20445	0 17693	15160	0 16345	49408	8019 4	0 159352	143386	116479	52017	31824
Native Dist. #14-#17	57588	27949	25175	27541	4804	79170	137417	219180	227881	185029	70778	28883
Import Dist. #14#17 Total Dist. #14-#17	0 57588	27949	0 25175	0 27541	44877	28 85 83 83 83 83 83 83 83 83 83 83 83 83 83 8	7604	219180	15/8 229459	7574 192574	98287	28983

*Bifurcation from Fort Lyon

GRAND TOTAL 1206187

APPENDIX "B-15"

DIVERSION BY DITCHES IN COLORADO WATER DISTRICT 67

Diversion by Ditches in Colorado Water District 67
Report-Year ending October 31, 1983
Source: Water Commissioners Monthly Reports
(Acre-feet)

NAME OF CANAL	NOV.	DEC	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Fort Bent	8	911	S ·	0	•	٠;	257	3	4382	5180	88	1887	19170
Amity	R °	3 0	-		• •	? -	14 s 18	13135	2098	27857	18291	1 20 E	111577
Lamar	2461	1000	ž	673	85	1317	2300	9889	9136	10654	87.8	2112	5379A
Hyde	•	•	•	•	0	-	•	0	0	-	126	33	212
Manvel	-	•	-	•	0	•	•	•	•	•	3 5	•	1509
X, Y, & Graham	2	•	-	0	•	•	1475	1556	1837	2067	1570 1570	毙	9885 2
Buffalo	2	178	•	0	2	K	9535	370	4582	1 38	3	23 28 28	24632
TOTAL: District 67	57.52	1436	8	67 5	9	1428	28331	27314	41939	51506	37487	28279	225696
Trans Mtn. Diversions	•	۰	•	•	•	•	•	•	0	•	•	•	•
GRAND TOTAL	22.2	3	98	25	745	1428	28531	27314	41939	51506	37447	28279	225696

APPENDIX "B-16" DIVERSION BY DITCHES IN KANSAS STATELINE TO GARDEN CITY

	YEAR	8552 0	8652	20641 32487 19412	22776 2612	828	106480
	.0CT		•	3028 1298 2030	416	11532	11532
	SEPT	\$ °	\$	2818 5550 3541	\$ \$	16640	17045
	AUG.	25 °	2322	\$224 2257 8778 8778	50 20 20 20 20 20 20 20 20 20 20 20 20 20	24746	27098
	SOLVE	1856	1856	\$233 5251 2741	210	14050	15906
2 E	ULCES RE	1261	1261	1620 3938 1409		2969	8228
Diversions by Ditches in Kansas Report-Year ending October 31, 1963 (Acre-feet)	Other Ditches: Kanes Division of Water Resources Records JAN. FEB. MAR. APR. MAY JUNE JUL.	955	988	5162	3170	.12050	14309
by Ditches in ending Octol (Acre-feet)	ion of Wa APR.	g =	S	900		900	1001
Year end	MAR.	••	•	000	900	2056	2056
Diver Report	reb.	-		00	- 85 c	139	139
	other Dite	•			-		•
) ()	1	> \$	••	8 2 E	200	3470
	ACM	<u>.</u>			2 261	380	2860
		Frontier Ditch	rt. Aubrey Canal Total Stateline To Syramise	Amazon Canal Great Eastern Canal	South Side Ditch Farmers Ditch	Total Syracuse To Garden City	Total Stateline To Garden City

*3647 acre-feet returned directly to the river.

APPENDIX "B-17"

TRANSMOUNTAIN DIVERSIONS

	TOTAL 3	2590.2 1982 3602 458 22710 59105 87351 9255 8231
	130	0 0 0 0 744 0 160 1874
	SEPT.	64.9 106.75 75 0 0 1274 766 201 709
	AUG.	228 230 230 103 0 6639 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 112425 11242 11242 11242 11242 11242 11242 1124 124
	JULY	806 518 719 181 0 21317 32191 4190 715
	JUNE	1451 1022 2388 174 0 25401 38612 3361 3258 75847
7	MAY	40.3 104 140 0 0 0 1822 3156 115 274 2653.3
ersions 31, 1983 gineer sion #2	APR.	0 0 0 0 89 89 0 0 0 0 0 0 0 1861 1863 31, 1963
October 1, 1962 to October 31, 1983 Source: Division Engineer Colorado Water Division #2 (Acre-feet)	MAR.	0 0 0 0 0 103 0 0 0 0 0 7754 7754
1, 1962 to curce: Di clorado W	FEB.	0 0 0 0 0 1722 1726 0 0 0 0 0 0 1, 1982 to Oc
October Se	JAN.	0 0 0 0 0 175 175 0 0 0 0 ttober 1, ;;
	DEC.	60 633 633 0 0 0 0 0 433 433
	NOV.	0 0 0 0 0 0 0 0 0 68 854 854
	i.	34.3 23.2 7.3.2 7.3.2 14.5 0 0 0 508 1128 2803.3 smountai
		Columbine Ditch 34.3 0

APPENDIX "B-18"

SUMMARY TABULATION

		_	Novembe	November 1, 1962 to October 31, 1983	o October	31, 1983						ļ		
•	NO.	DEC	NAL	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	X EAR	
Arkansas River at Las Animas. Colorado—cfs		00	\$ Q	3945	4924 9770	2911 5770	3645	43147 85580	52 96 0 104850	5866 11640	25 A	8458 16780	281530	
Purgatoire River near Las Animas, Colorado—cfs —a.f.	1075 2130	286 1960	1435	1309	2515 4990	12551 24890	11578 22960	21735 43110	2875 5700	1879 3730	98 20 166	965 1910	117811	
River Flow into John Martin Reservoir—cfs —a.f.	4644 9210	5885 11670	60 11 13710	525 10420	7439	15462	15223 30190	64982	55735 110650	7745 15360	2735 5420	18690	399340,	
Contents of John Martin Reservoir at end of Month—a.f.	tr 23117	35390	49702	60274	76834	103378	88888	174662	180350	117657	81898	67540		
Net Change in Reservoir contents—a.f.	+10858	+12276	+14309		+10572 +16560	+26544	-1479	+85763	+5688	29829 -	-35759	-14358		
Outflow from John Martin Reservoir—cfs —a.f.	8. 8.	8 24.08 . 4.08	. ♣. \$. 8	4 39.2 78 .	### ### ### ### ### ### ### ### ### ##		231.5 21677 459 43000	11961	37300 73980	39601 78550	20653 40770	16029 31790		
Diversion in District 67,	5810	1442	\$18	98	752	1428	28331	27285	41939	51500			212122	
Arkanas River at Colorado- Kansas Stateline—a.f.	208	1963	0890	900,0	989	2962	18060	7970	28880	38780	1 222		a composition of the composition	
Diversion by Ditches in Kansas Stateline to Garden City—a.f.	2000	3470		0 139	2056	4037	14309	8228	15906	27088	17045	11532	106490	

APPENDIX "C-1"

MINUTES OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

REGULAR ANNUAL MEETING

December 14, 1982 Cow Palace Inn, Lamar, Colorado

The regular annual meeting of the Arkansas River Compact Administration was held at the Cow Palace Inn in Lamar, Colorado, on December 14, 1962. The meeting was called to order at 9:50 a.m. (MST) by Mr. Frank G. Cooley, Chairman and United States representative. Other members in attendance were:

For Kansas:

Carl E. Bentrup — Deerfield, Kansas Guy E. Gibson — Topeka, Kansas Ronald Olomon — Garden City, Kansas

For Colorado: Carl Genova — Pueblo, Colorado

Leo Idler — Lamar, Colorado

J. William McDonald — Denver, Colorado

Mr. Bentrup introduced the Kansas members of the Administration, Mr. John Campbell from the office of the Kansas Attorney General, and persons in the audience from Kansas. Mr. McDonald introduced the Colorado members of the Administration, members of his staff, and Mr. William Paddock from the office of the Colorado Attorney General.

Mr. Cooley asked if there were any changes to the agenda for the meeting (see Attachment A). There being none, Mr. Olomon moved, seconded by Mr. McDonald, that the agenda be approved without change. There being no discussion, the motion passed upon the affirmative vote of both states.

With respect to agenda item 3, the approval of minutes was deferred until after the noon recess in order to give the members of the Administration an opportunity to review the minutes which had just been provided to them.

Under agenda item 4, the reports of officers, Mr. Cooley indicated that he had no report to make. Mr. Idler, Recording Secretary, presented his written report (see Attachment B). After brief discussion, Mr. Genova moved, seconded by Mr. Bentrup, that the report be approved and received into the record. There being no further discussion, the motion passed upon the affirmative vote of both states.

With respect to the Treasurer's report, Mr. Idler presented balance

sheets for FY 1981-1982 and for the period July 1, 1982, through December 10, 1982 (see Attachment C), and a list of checks written since July 1, 1982 (see Attachment D). In light of the cash balance on hand in the Administration's savings account, investment of that surplus so as to gain a higher rate of return than that from a passbook savings account was discussed. After this discussion, Mr. Gibson moved, seconded by Mr. Olomon, that Mr. Idler, Mr. Bentrup, and Mr. Genova be appointed by the administration as a temporary, ad hoc committee responsible for investing the Administration's surplus in interest bearing bank paper insured by the Federal Depository Insurance Corporation within the next 10 days. There being no further discussion, the motion was passed upon the affirmative vote of both states and the chairman instructed Messrs. Bentrup, Genova, and Idler to proceed accordingly. Mr. McDonald then moved, seconded by Mr. Gibson, that the Treasurer's report, in the form of Attachments C and D, be approved and received into the record. There being no further discussion, the motion was passed upon the affirmative vote of both states.

Finally, Mr. Cooley called upon Mr. Bob Jesse to make the Operations Secretary's report. Mr. Jesse indicated that, in his capacity as Colorado Division Engineer for Division 2, he had provided an accounting of the operation of John Martin Reservoir for compact year 1982 to the Operations Committee on November 12, 1982, as required by Section VII. A of the operation plan for John Martin Reservoir. Mr. Jesse very briefly summarized the contents of his report and highlighted the operations of John Martin Reservoir. Mr. Bentrup asked how transit losses for deliveries to Kansas were to be computed for 1983. Mr. McDonald noted that for 1982, Mr. Howard Corrigan, the Kansas Water Commissioner, and Mr. Jesse had agreed upon a means of determining transit losses as provided for in Section II. E(4) of the operating plan for John Martin Reservoir. Mr. McDonald indicated that he assumed that Mr. Jesse and Mr. Corrigan would likewise develop procedures for 1983. After brief discussion it was agreed that Mr. Corrigan and Mr. Jesse should again determine the means by which transit losses would be calculated during 1983 and report their agreement to the Administration.

With respect to agenda item 5, Mr. Idler noted that the audit of the Administration's financial records had been completed by Crimond, Farmer & Company, transmitted to him under cover of a letter dated July 22, 1962, and subsequently distributed by him to members of the Administration. Mr. McDonald then moved, seconded by Mr. Genova, that the audit report be approved and ordered printed in the 1982 annual report. There being no further discussion, the motion was agreed

upon the affirmative vote of both states.

With respect to committee reports, Mr. Cooley called upon Mr. McDonald as chairman of the Administrative and Legal Committee. Mr. McDonald indicated that the committee had not held any meetings during compact year 1962 and therefore had no report to make. Mr. Cooley then called upon Mr. Gibson in his capacity as chairman of the Engineering Committee. Mr. Gibson indicated that the committee had likewise held no meetings during compact year 1982 and therefore had nothing to report.

Mr. Idler, in his capacity as chairman of the Operations Committee, was asked by Mr. Cooley to provide that committee's report. Mr. Idler submitted a written report, including Mr. Jesse's November 12 accounting of the operations of John Martin Reservoir (see Attachment E, which reflects Mr. Jesse's report as originally submitted; a subsequent amendment to the report is set forth later in these minutes). Mr. Gibson noted that the committee's report indicated that 38,006 acre-feet of water were released from John Martin Reservoir to Kansas. He asked what actual deliveries at the state line were, as opposed to the releases from John Martin. Mr. Jesse noted that the 38,006 acre-foot figure was composed of 32,769 acre-feet of Kansas account water and 5,237 acre-feet for transit losses (see Table IX in the November 12 report). Mr. Jesse indicated that 36,030 acre-feet of the water released from John Martin Reservoir reached the state line, which is the sum of the "total combined delivery" entries under the four Kansas delivery events in his November 12 report to the Operations Committee. He stated that the 36,030 acre-feet was an "over delivery" relative to the 32,769 acre-feet of Kansas account water which was released, which "over delivery" was caused by rain storms below John Martin Reservoir which occurred during the course of two different reservoir runs.

Mr. Bentrup questioned Mr. Jesse's characterization of the 36,030 acre-feet as an "over delivery," noting that it was his view that Kansas should benefit from precipitation which occurred below John Martin Reservoir during a release from the Kansas account. Discussion ensued among the members of the Administration and Mr. Jesse concerning the difference between the 38,006 acre-foot and 36,030 acre-foot figures, the fact that actual state line flows were over 40,000 acre-feet, and whether there was an "over delivery." It was eventually agreed that the discussion of this item would be laid over until after the lunch recess so that Mr. Jesse could consult with Mr. Corrigan. Action on the report of the Operations Committee was likewise deferred.

Mr. Cooley then called for the election of officers for compact year 1983. Mr. McDonald nominated Mr. Bentrup as Vice-Chairman. Mr. Gibson moved, seconded by Mr. McDonald, that the Chairman be instructed to close the nominations and cast a unanimous ballot in favor of Mr. Bentrup. There being no discussion, the motion was passed upon the affirmative vote of both states. Mr. McDonald then nominated Mr. Idler as Recording Secretary. At this point Mr. Bentrup suggested that all remaining officers be reelected for compact year 1983, whereupon Mr. McDonald withdrew his nomination of Mr. Idler. Mr. Bentrup then moved, seconded by Mr. McDonald, that the persons serving as Recording Secretary, Operations Secretary, and Treasurer during compact year 1982 be reelected for compact year 1983 (i.e., Mr. Idler as Recording Secretary and Treasurer and Mr. Jesse as Operations Secretary). There being no discussion, the motion was passed upon the affirmative vote of both states.

Mr. Cooley asked Mr. McDonald to advise the Administration of the status of the annual report for compact year 1981. Mr. McDonald reminded the members of the Administration that the draft 1981 Annual Report had been distributed to them under cover of a Sep-

tember 15, 1962, memorandum from Mr. Eugene Jencsok of his staff. Final corrections to the draft report had been provided in a December 7, 1962, memorandum to the members of the Administration from Mr. Jencsok. Mr. McDonald indicated that the only other correction which needed to be added to those listed in the December 7, 1982, memorandum was the addition of the minutes of the August 6, 1981, special meeting of the Administration, assuming their approval later in this meeting. Mr. Genova moved, seconded by Mr. McDonald, that the 1981 Annual Report be approved for printing and public distribution with the changes itemized in Mr. Jencsok's December 7, 1982, memorandum and with the addition of the minutes for the August 6, 1981, special meeting of the Administration subject to their approval. There being no discussion, the motion was passed upon the affirmative vote of both states.

Mr. Cooley then turned to agenda item 10 for the reports of Federal agencies. He called first upon Mr. Jerry Hughes, Pueblo Subdistrict Chief, U.S. Geological Survey. Mr. Hughes briefly commented on the work performed by the Geological Survey during federal FY 1982 pursuant to the cooperative agreement between the Geological Survey and the Administration for the operation and maintenance of certain stream gaging stations. His report included information on the number of readings taken and the other elements of activity required of the Geological Survey by the cooperative agreement. A few questions were asked of Mr. Hughes by members of the Administration and brief discussion ensued. Mr. Hughes called upon Mr. Russ Livingston, Kansas State Office, U.S. Geological Survey, to report on that office's activities with respect to the gaging stations located in Kansas.

Mr. Cooley then asked Mr. Mike Mocek, Southern Colorado Project Engineer, Albuquerque District, to report for the Corps of Engineers. Mr. Mocek provided a brief oral report on the Corps' activities on the Arkansas River from Great Bend to John Martin Reservoir under the authority of a previously enacted Congressional study resolution. He also reported briefly on the Corps' ongoing analysis of the potential for a small-scale hydropower facility on John Martin Reservoir. With respect to the channelization of the Arkansas River from John Martin Reservoir to the state line, a matter about which the Administration had expressed interest, Mr. Mocek reported that it did not appear that such a project would be economically justified under federal planning criteria. Finally, Mr. Mocek indicated that the Corps expected to commence a flood control study in the Lamar area at the request of local interests.

Mr. Cooley called upon Mr. Bill Fraser, Project Engineer, Fryingpan-Arkansas Project, to report on behalf of the Bureau of Reclamation. Mr. Fraser indicated that he had no particular items upon which to report. Members of the Administration asked a few brief questions of Mr. Fraser concerning a variety of matters.

Mr. Cooley then asked Mr. John Kaliszewski, a representative of the COMSAT Corporation, to report on that company's satellite monitoring network of stream gaging stations in Colorado on the Arkansas River. Mr. Kaliszewski gave a brief oral report concerning the satellite monitoring network, the status of the installation of the necessary

equipment, and the kind of information which could be derived from this communication system. A number of questions were asked of Mr. Kaliszewski concerning the costs of individual stations and the funding problems which COMSAT was encountering. Mr. Kaliszewski was not able to provide a breakout of the costs of the individual stations in which the Administration might be interested. Mr. Cooley indicated that the Administration would follow with interest the efforts of water users in the Arkansas River basin and throughout Colorado to obtain funding for the permanent implementation of a satellite monitoring network.

With respect to agenda item 12, Mr. Cooley asked what action was needed on the review of the expenditures for FY 1982-1983. Mr. McDonald pointed out that the Administration's expenditures for FY 1982-1983 would be in excess of the budget approved by the Administration at its December 9, 1980, regular annual meeting. This would happen because the contract between the Administration and Mr. Jesse's office for the secretarial support services required for Mr. Jesse in his capacity as the Administration's Operations Secretary was an expense not considered until the Administration's January 4, 1982, regular annual meeting. Mr. McDonald reminded the Administration that at the January 4, 1982, meeting it was agreed that the expense of the contract with Mr. Jesse's office for FY 82-83 would be taken from the Administration's surplus. Mr. McDonald noted that he merely wanted to be sure that the members of the Administration recalled that we would be over budget in FY 1982-1983 as a result. All agreed that this was the case and that no further action was needed.

With respect to the FY 1983-1984 budget, Mr. McDonald reminded the Administration that it had been adopted at the January 4, 1982, regular annual meeting. Since that time, Mr. McDonald indicated that two matters had arisen which he believed deserved further consideration: (1) questions concerning the amount budgeted for the cooperative agreement with the U.S. Geological Survey for the maintenance and operation of gaging stations and (2) the need to budget an expenditure for the contract between the Administration and Mr. Jesse's office to provide the support he needs in his capacity as the Administration's Operations Secretary.

Concerning the matter of the cooperative agreement with the Geological Survey, Mr. Cooley called for discussion. The discussion continued at some length without arriving at any conclusions, whereupon Mr. Cooley recessed the meeting for the lunch hour at 12:15 p.m.

The meeting was reconvened at 1:30 p.m., at which time Mr. Cooley asked that the Administration return to the approval of the minutes of previous meetings under agenda item 3. Mr. Olomon moved, seconded by Mr. Genova, that the minutes of the August 6, 1981, special meeting, the January 4, 1982, regular annual meeting, and the January 29, 1982, special telephonic meeting be approved as printed and distributed, with the exception that the marked up draft materials following Attachment H of the January 4, 1982, minutes, which had inadvertently been included by Mr. McDonald's office when the minutes were mailed out, be deleted. There being no discussion, the motion was passed upon the

affirmative vote of both states. Thereupon, the certification of adoption at the end of each set of minutes was executed by Mr. Cooley and Mr. Idler.

Mr. Cooley then requested that the Administration return to the report of the Operations Committee. Mr. Cooley suggested that a sentence be added to the Operations Committee report which referenced Table IX in Mr. Jesse's November 12, 1982, report on the operation of John Martin Reservoir. Discussion ensued during which it was concluded that Mr. Jesse would draft a brief sentence for the Administration's consideration later in the meeting.

Mr. Cooley then came back to agenda item 12.b, the budget for FY 1983-1984. Mr. McDonald moved, seconded by Mr. Gibson, that the previously approved budget for the cooperative agreement between the Administration and the U.S. Geological Survey for the maintenance and operation of gaging stations be reduced from \$15,000 to \$12,000 and the subtotals and totals adjusted accordingly. After brief discussion, the motion was passed upon the affirmative vote of both states. Mr. McDonald then moved, seconded by Mr. Gibson, that the previously approved budget for the Operations Secretary be increased from \$5,000 to \$6,100 and the subtotals and totals adjusted accordingly. There being no discussion, the motion was passed upon the affirmative vote of both states. Mr. Cooley then asked that the amended budget for FY 1983-1984 be retyped and included in the record (see Attachment F).

Mr. Cooley called the Administration's attention to the proposed budget for FY 1984-1985. Mr. McDonald requested that the amount budgeted for the Operations Secretary be increased from \$5,000 to \$6,100. With respect to the cooperative agreement between the Administration and the U.S. Geological Survey for the maintenance and operation of gaging stations, discussion ensued concerning the necessity of having supplemental measurements taken at both Colorado and Kansas gaging stations. It was ultimately decided that the amount for the cooperative agreement should be decreased from \$16,500 to \$12,000. Finally, Mr. Idler suggested that the amount for the annual audit of the Administration's financial records be increased from \$300 to \$350. Subject to the changes identified above, Mr. Olomon moved, seconded by Mr. McDonald, the adoption of the budget for FY 1984-1985. Mr. Cooley directed that the approved budget be included in the record (see attachment G).

With respect to agenda item 13, Mr. Cooley called upon Mr. Duane Helton, consulting engineer to the Highland and Ninemile Canal Companies, to present a proposal on their behalf for the storage of winter water in John Martin Reservoir. Mr. Helton indicated that while the companies had forwarded their request to Mr. McDonald for consideration, they were not asking the Administration to act on their request at this time due to the fact that some additional information was needed. Mr. Helton briefly explained what it was the companies would seek to do and asked that the Administration consider the companies' request at a later date. At the conclusion of Mr. Helton's comments, Mr. McDonald acknowledged that a request had been forwarded to him by the companies and stated that Colorado would

expect to bring this matter before the Administration at a later date.

Mr. Cooley again returned to the report of the Operations Committee and called upon Mr. Jesse to suggest language which would clarify the distinction between actual state line flows and the releases of water from the Kansas account in John Martin Reservoir. Mr. Jesse suggested that beneath Table IX in his November 12, 1982 report, which table is entitled "Releases to State of Kansas, A.Ft.," the following sentence be inserted:

During various periods when Kansas demanded release of water from John Martin Reservoir, a total of 32,769.35 acre-feet was released and a total of 40,104 acre-feet from all sources arrived at the Coolidge gage during the above periods.

Mr. Olomon moved, seconded by Mr. Genova, that this sentence be added to Mr. Jesse's report at the indicated location. There being no discussion, the motion passed upon the affirmative vote of both states. Mr. Gibson then moved, seconded by Mr. Genova, that the Administration approve and receive into the record the report of the Operations Committee, including Mr. Jesse's November 12, 1982, report as amended by the preceeding motion. There being no discussion, the motion passed upon the affirmative vote of both states.

Mr. Cooley then asked that the Administration turn to agenda item 14 concerning Trinidad Reservoir. Mr. Bentrup indicated that Kansas wished to offer a resolution concerning Trinidad Reservoir, whereupon he asked Mr. Campbell to read the proposed resolution into the record (see Attachment H). Upon the completion of the reading of the proposed resolution, Mr. Bentrup moved, seconded by Mr. Olomon, the adoption of the resolution.

Mr. McDonald indicated at this point that he had a substitute motion to offer in the way of an alternative resolution to that presented by Kansas. He passed out this resolution (see Attachment I) and briefly summarized its contents, whereupon he moved, seconded by Mr. Genova, as a substitute motion for the motion before the administration the adoption of Colorado's resolution concerning Trinidad Reservoir (i.e., Attachment I). Mr. McDonald then read the proposed Colorado resolution in full.

Discussion ensued at length about the Colorado resolution. Mr. Gibson noted that the third whereas clause in the proposed Colorado resolution was not, in his opinion, a true statement. He asked that the record so reflect. Mr. Bentrup indicated that Kansas' fundamental concern with the operation of Trinidad Reservoir since 1979 had been that it violated the Five Kansas Conditions of 1967 in that no more than 20,000 acre-feet of water could be stored under the Model Decree in Trinidad Reservoir at any given time.

Mr. McDonald responded by noting that there had been no showing by Kansas that the waters of the Arkansas River had at any time been materially depleted in usable quantity or availability for use to the water users in Colorado and Kansas. He also noted that Kansas had thus far presented no facts which contradicted any of the information which Colorado officials had provided to the Administration or to Kansas state officials. Finally, Mr. McDonald observed that to the

extent the proposed Kansas resolution purported to reach conclusions about a decree of a Colorado water court, the Administration had no

authority to reach conclusions about such a decree.

With respect to the process for dealing with the issues concerning the operation of Trinidad Reservoir, Mr. McDonald indicated that it had been his understanding that when the proposed resolution concerning Trinidad Reservoir offered by Kansas at the January 4, 1982, annual meeting of the Administration failed to pass (see Attachment E to the minutes of that meeting), Kansas considered the matter to be out of the hands of the Administration. Mr. McDonald further noted that he understood this matter to be in the hands of the Attorneys General of Kansas and Colorado in light of the meeting which the Kansas Attorney General had requested with the Colorado Attorney General in August, 1982, in Denver. Finally, Mr. McDonald noted that the retiring Colorado Attorney General had not had the opportunity to respond to the Kansas Attorney General because he wished to consult with the Colorado Attorney General-elect, which he had not yet had the opportunity to do.

Mr. Cooley asked at this point where the exchange of correspondence between the Kansas and Colorado Attorneys General stood. Mr. Campbell indicated that Kansas Attorney General Stephan had not received a response to his initial October 12, 1982, letter to Colorado Attorney General MacFarlane. Mr. Paddock reiterated that Mr. MacFarlane wished to consult with the Attorney General-elect before

responding to Mr. Stephan's letter.

Considerable discussion then ensued among the members of the Administration, Mr. Campbell, and Mr. Paddock concerning various allegations and statements in the resolutions proposed by Colorado and Kansas. There was also a lengthy discussion between Mr. Campbell and Mr. Paddock concerning what were questions of fact, whether Kansas had or had not presented information contradicting that presented by Colorado, and how the two Attorneys General expected to proceed. At 3:05 p.m. Mr. Cooley called for a recess.

At 3:50 p.m. the meeting was reconvened by Mr. Cooley. Some additional discussion concerning the substitute motion was had, after which Mr. McDonald called for the question on the substitute motion. The question having been called for, Colorado voted yes and Kansas voted no, whereupon the substitute motion was declared lost. Mr. Cooley then advised that the original motion was now before the Administration. There being no further discussion, Colorado voted no and Kansas voted yes, whereupon the original motion was declared lost.

Mr. Olomon then moved, seconded by Mr. Genova, that the Administration instruct Mr. Cooley to write to the Attorneys General of Colorado and Kansas and ask them to communicate with each other on the issues concerning the operation of Trinidad Reservoir and report their discussions at a special meeting of the Administration to be held on February 1, 1983. There being no discussion, the motion was passed upon the affirmative vote of both states. The letter which Mr. Cooley subsequently sent is included as Attachment J.

Mr. McDonald then moved, seconded by Mr. Bentrup, that the Administration ask the Administrative and Legal Committee to meet and consider the development of procedures which would implement the provision of Article VIII. D of the Arkansas River Compact pertaining to the arbitration of any matter within the purview of the Administration, with the committee to report on the development of such procedures at the next special meeting of the Administration. After brief discussion, the motion was passed upon the affirmative vote of both states.

Mr. Cooley then asked that the Administration turn its attention to agenda item 15 concerning Pueblo Reservoir. Mr. McDonald advised that the winter storage problem for 1982-1983 had commenced on November 15 and that, as in the past, water which had historically been used for winter direct flow irrigation would be stored in Pueblo Reservoir as well as other reservoirs. Mr. McDonald indicated that except for this brief informational item on Colorado's behalf, this agenda item had been included at the request of Mr. Bentrup.

Mr. Bentrup called upon Mr. Olomon to read a proposed resolution concerning a Pueblo Reservoir operating plan, which Mr. Olomon proceeded to do (see Attachment K). At Mr. McDonald's request, the Chairman called a recess at 4:05 p.m. Mr. Cooley reconvened the meeting at 4:20 p.m. Mr. McDonald provided a proposed letter to the Colorado State Engineer, Dr. Jeris Danielson, for the Administration's consideration (see Attachment L). After brief discussion, Mr. McDonald moved, seconded by Mr. Bentrup, that the chairman be directed to send the proposed letter to Dr. Danielson and that the matter of Pueblo Reservoir be on the agenda for the February 1, 1983, special meeting. There being no further discussion, the motion passed upon the affirmative vote of both states.

In light of the just passed motion, Mr. Bentrup indicated that Kansas would not move the adoption of the resolution concerning a Pueblo Reservoir operating plan which Mr. Olomon had previously read into the record. Mr. Bentrup indicated that Kansas would expect the matter to be acted upon at the special meeting now scheduled for February 1, 1983.

Mr. Gibson asked the leave of the chairman to make a few personal comments. He indicated that he would be retiring from state government and anticipated that this would be his last meeting as a member of the Administration. He expressed his appreciation for the opportunity to serve on the Administration. He suggested that provision be made to fill the chairmanship of the Engineering Committee which he would vacate upon his retirement. It was agreed that Mr. Genova would automatically assume the chairmanship of the Engineering Committee when Mr. Gibson retired and that the person replacing Mr. Gibson for Kansas would become the new member of the Engineering Committee.

There being no further business to come before the Administration, Mr. Cooley adjourned the meeting at 4:30 p.m.

The foregoing minutes were adopted on August 26, 1983, at the special meeting of the Administration held in Denver, Colorado.

/s/ Frank G. Cooley Chairman

/s/ Leo Idler Recording Secretary

ATTACHMENT A

ANNUAL MEETING ARKANSAS RIVER COMPACT ADMINISTRATION

December 14, 1982

Cow Palace, Lamar, Colorado 9:30 a.m. (MST)

- 1. Call to order and introductions
- 2. Approval of agenda
- 3. Approval of minutes
 - a. August 6, 1981 (special meeting)
 - b. January 4, 1982 (recessed annual meeting)
 - c. January 29, 1982 (special telephonic meeting)
- 4. Reports of officers
 - a. Chairman
 - b. Recording Secretary
 - c. Treasurer
 - d. Operations Secretary
- 5. Auditor's report for FY 81-82
- 6. Committee reports
 - a. Administrative and Legal
 - b. Engineering
 - c. Operations
- 7. Election of officers for compact year 1983
 - a. Vice-Chairman
 - b. Recording Secretary
 - c. Operations Secretary
 - d. Treasurer
- 8. Appointment of committee members for compact year 1983
 - a. Administrative and Legal
 - b. Engineering
 - c. Operations
- 9. Approval of annual report for compact year 1981
- 10. Reports of federal agencies
 - a. Geological Survey
 - b. Corps of Engineers
 - c. Bureau of Reclamation
- 11. Presentation of COMSAT gage station monitoring network
- 12. Budget matters
 - a. Review FY 82-83 expenditures
 - b. Review previously adopted FY 83-84 budget
 - c. Prepare and adopt FY 84-85 budget
- 13. Requests to store winter water in John Martin Reservoir
- 14. Trinidad Reservoir
- 15. Pueblo Reservoir
- 16. Adjournment

ATTACHMENT B

RECORDING SECRETARY'S REPORT

We had an above average rainfall this year. It followed a different pattern than it usually does. It fell close to the mountains and not very many heavy thunderstorms fell on the plains above John Martin Reservoir. The snowpack was also above average last winter.

The Account system using conservation pool water stored in John Martin Reservoir that we have been using the last three years required some adjustments this year. These were made before the start of the irrigation season, April 1, 1982.

We will probably have a decision from the Colorado Water Court this next year on Amity Canal's proposed change of their Great Plains water into John Martin Reservoir. This change will, I believe, make more water available for all the irrigators below John Martin Reser-

As we continue to work on our account system and make water available to irrigators at more opportune times, thru the use of reservoirs on the Arkansas River, I believe that we can keep our irrigation system viable.

Respectfully submitted, /s/ Leo Idler

Dec. 14-'82

ATTACHMENT C

TREASURER'S REPORT July 1, 1981, thru June 30, 1982

CASH BALANCE, JULY 1, 1982	•	A
RECEIPTS:		\$31,554.00
Revenue from Assessments:		
Colorado—60%	# 40.04	
Kansas—40%	\$13,614.00	
Interest Miscellaneous	9,076.00	
Miscellaneous	2,273.00	
TOTAL RECEIPTS	2.00	
TOTAL RECEIPTS. TOTAL TO ACCOUNT FOR	• • • • • • • • • • • • • • • • • • • •	24,965.00
TOTAL TO ACCOUNT FOR	• • • • • • • • • • • • • •	56,519.00
Insurance		
U.S. Geological Survey	100.00	-
Equipment	5,700.00	•
Equipment Professional Fees	4,600.00	100
Office Supplies	1,348.00	4.5
Office Supplies	155.00	
Printing Annual Report	1,146.00	
Secretary's Salary Net	3,357.00	
Payroll Taxes	480.00	
Telephone	1,570.00	
Typing and Mailing	167.00	
48		

Travel and Meetings 97,00	0.790.00
Itatel and mooning	
TOTAL DISBURSEMENTS	6 245 00
DECEMBER OF DECEMBER OVER DISKURSEMENTS	0,230.00
CASH BALANCE, JUNE 30, 1982	31,199.00
BALANCE SHEET	
July 1, 1982 thru December 10, 1982	
	27 700 62
CASH BALANCE, JULY 1, 1982	31,190.02
RECEIPTS:	
Povemue from Assessments:	
Colorado—60%	
Kangas—40%	
Interest	
7.0° - 11	
TOTAL DESCRIPTO	12,170.32
TOTAL TO ACCOUNT FOR	49,968.94
DISBURSEMENTS:	
100,00	
U.S. Geological Survey 10,845.00	
Equipment	
Professional Fees	
Professional rees	
Office Supplies	
Printing Annual Report	
SOPPOINT S AGIGLY MOV	
Povroli Taxes	
Telenhone	
Tuning and Mailles	
Travel and Meetings	
Dahart Josep Socretary—	
Salary and Supplies	16 946 10
momat DictilDCFMFNTS	. 10,440;10 no 799 p.4
EXCESS OF RECEIPTS OVER DISBURSEMENTS	53,745.04
Checking Account 143.13	
Savings Account 33,589.71	400 700 C4
\$33,723.84	\$33,723.84

ATTACHMENT D

CHECKS WRITTEN SINCE JULY 1, 1982

		Check	
Date		Number To—For	Amount \$
July		527 Leo Idler—Salary, Postage, Supplies	304.27
July	5	528 rederal Reserve—Payroll Taxes	40.20
July	5	529 Mountain Bell—Telephone	137.47
July	5	530 Helen Bever-Robert Jesse, Secretary	952.00
July	5	531 Lewan & Associates—Supplies	58.70
July	5	532 Lewan & Associates—Supplies	260.95
Aug	5	533 Mountain Bell—Telephone	
Aug	5	534 Guaranty Abstract—Bond	96.53
Aug	5	535 Helen Bever—Robert Jesse, Secretary	100.00 975.00
Aug	5	536 U.S.G.S.—Cooperative Agreement	
Aug	5	537 Federal Reserve—Payroll Taxes	811.00
Aug	5	538 Leo Idler—Salary, Postage, Supplies	40.20
Sept	5	539 Mountain Bell—Telephone	303.58
Sept	5	540 Federal Reserve—Payroll Taxes	97.75
Sept	5	541 U.S.G.S.—Cooperative Agreement	40.20
Sept	5	542 Crimond & Farmer—Audit & Coping	
Sept	5	543 Leo Idler—Salary, Postage, Supplies	350,79
Oct	5	544 Mountain Bell—Telephone	286.67
Oct	5	545 Federal Reseve—Payroll Taxes.	130.91
Oct	5	546 Leo Idler—Salary, Postage, Supplies	40.20
Nov	5	547 Mountain Bell—Telephone	288.39
Nov	5	548 Federal Reserve—Payroll Taxes	83.54
Nov	5	549 Leo Idler—Salary, Postage, Supplies	40.20
Dec	2	550 Void	300,32
Dec	2	551 Mountain Bell—Telephone	00
Dec	2	552 Sir Speedy No. 2024—Supplies	89.53
Dec	2	553 U.S.G.S.—Cooperative Agreement	25.87
Dec	2	554 Federal Reserve—Payroll Taxes	
Dec	2	555 Leo Idler—Salary, Postage, Supplies	40.20
			316.63
		,	16,245.10

ATTACHMENT E

OPERATION COMMITTEE REPORT

The irrigation season for 1982 started when the first call for water came on April 4th. This triggered the start of the account system we have been using at John Martin Reservoir for the last three years. Kansas didn't call for any water for their irrigators till June 21st, 1982. This, we believe, is one of the advantages of the account system; that one state doesn't have to call when the other does for self protection.

During the irrigation season there was 38,006.03 acre feet of water released from John Martin conservation pool for Kansas irrigators. There was 58,952.51 acre feet of water released from the conservation

pool for the irrigators in District 67 of Colorado. At the end of the irrigation season there was 8,866.80 acre feet of water in the various accounts. The permanent pool had 3,374.20 acre feet of water in its account on November 1, 1982. During the summer season there was 62,250.23 acre feet of water stored in the conservation pool.

There was 5,336.08 acre feet of water added to Kansas's 40% share of water from the conservation pool from the transit loss accounts. Also, during the time Kansas irrigators were calling for water, the Lower Arkansas River Pump Association was pumping into the Buffalo Canal (in District 67 of Colorado) thereby releasing that much water at their headgate to get Kansas's 40% share to the state line. The Association delivered 2,219.77 acre feet of water during the time Kansas was calling.

All figures used above came from our secretary, Robert Jesse's report, except those for the pump association which came from the water commissioner for District 67, Lane Hackett's records.

Respectfully submitted, /s/ Leo Idler — /s/ Robert Olomon **Operation Committee Members**

Enc: 11/12/82 Report

REPORT OF THE COLORADO DIVISION ENGINEER November 12, 1982

Delivery of Water to Kansas, 1982

1

Release began at John Martin Reservoir Release ended at John Martin Kansas Account Transit Loss Account Other TOTAL Arrived at Frontier Ditch Headgate Arrived at Coolidge Gage	7- 5-82 14,281.03 1,628.08 0 15,909.11 6-23-82 6-23-82	A. Ft. A. Ft. 2 0001 Hr. 0300 Hr.
Runout ended at Coolidge Gage Total Delivered at Frontier Total Delivered at Coolidge Gage Total Combined Delivery	1,296 15,305	A. Ft.
II		
Release began at John Martin Reservoir Release Ended at John Martin Reservoir	8- 4-82 8-14-82	

Kansas Account Transit Loss Account Other TOTAL	1,808.3	A. Ft.
Arrived at Frontier Ditch Headgate	8- 5-82	1900 Hr.
Arrived at Coolidge Gage	8- 5-82	2200 Hr.
Arrived at Coolidge Gage Runout Ended at Coolidge Gage	8-20-82	2011 Hr. #
Runo	und Release ut taken)	e. Only 6 Day
Total Delivered at Frontier	040	A Ft
Total Delivered at Coolidge Gage	7 761	A ITY
Total Combined Delivery	8.710	A Ft
	-	
# Runout ends seven days after end of release a (Agreement of 3-12-82)	t John Mar	tin.
* No credit taken for flow total over 500 cfs.		
ш		
Release Began at John Martin Reservoir	0.95.09	1900 11
Release Began at John Martin Reservoir Release Ended at John Martin Reservoir	0-29-02	1400 HF.
Kansas Account	7.054.90	1919 HL.
Transit Loss Account	1 202 20	A. Fl. A 174
Utner	970.02	A EM
TOTAL	8 519 9n	л. Гі. Л Гт
	0,010.20	A. Ft.
Arrived at Frontier Ditch Headgate Arrived at Coolidge Gage Runout Ended at Coolidge Gage	8-26-82	2200 Hr.
Arrived at Coolidge Gage	8-27-92	0100 Hr.
Runout Ended at Coolidge Gage	0.000	1010 Tr
Total Delivered at Frontier	660	A 1714
Total Delivered at Coolidge Gage	6.455	M. Ft. A 154
Total Combined Delivery	7 119	M.Fl. ATr+*
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n. F.t.
IV		
Release began at John Martin Reservoir Release ended at John Martin Reservoir	9-14-82	1000 Hr
Release ended at John Martin Reservoir	9-17-82	2114 Hr
Kansas Account	2 774 40	A 1014
Transit Loss Account		
Other	Δ .	A 1774 .
TOTAL	2,774.40	1. Ft.
Arrived at Frontier Headgate	9-15-82	1700 Hr.
Arrived at Coolidge Gage		
Runout Ended at Coolidge Gage	9-24-82	2114 Hr. #
Total Delivered at Frontier		
(to 0700 Hr. 9-23)	318 A	A. Ft.

Total Delivered at Coolidge Gage (to 0700 Hr. 9-23)	3,283	A.	Ft.
Total Combined Delivery (to 0700 Hr. 9-23)			

(NOTE: Deliveries for releases No. I, II & III calculated from USGS Flow Sheets. Delivery for release No. IV calculated from COMSAT data.)

- # Runout ends seven days after end of release at John Martin. (Agreement of 3-12-82)
- * No credit taken for flow over 500 cfs for release No. III nor over 400 cfs for Release No. IV.

OPERATION OF JOHN MARTIN RESERVOIR DURING COMPACT WATER YEAR 1982

WINTER STORAGE IN JOHN MARTIN RESERVOIR NOVEMBER 1, 1981-APRII 17, 1982

Winter storage in John Martin Reservoir began at 0001 Hour, November 1, 1981. At that time the Conservaton Pool was empty. The Reservoir contained 13,712.89 A.F. This water was distributed as follows: 8,152.25 A.F. in Agreement Accounts and 5,560.64 A.F. in the Recreation Pool. Winter storage ended at 1428 Hour, April 17, 1982. During this period a total of 44,426.80 A.F. was stored. This water was allocated to various accounts as specified in the Operation Plan, adopted by the Arkansas River Compact Administration on April 24, 1980. The following tables reflect the status of various accounts during Winter Storage.

TABLE I COMPACT WATER

	Contents Beg. of Month A. Ft.	Inflow A. Ft.	Evaporation A. Ft.	Releases A. Ft.	Contents End of Month A. Ft.
November December January February March April 1-17	0 4,687.48 9,307.67 14,543.23 18,568.18 23,565.00	4,750.25 4,734.00 5,389.00 4,321.00 5,555.00 2,064.55	62,77 113.81 153.44 296.05 558.18 312,34	0 0 0 0 0 25,317.21	4,687.48 9,307.67 14,543.23 18,568.18 23,565.00 2400 Hrs. 4/17
TOTALS		26,813.80	1,496.59	9 25,317.2	1

TABLE II
AMITY CANAL WINTER WATER

	Contents Beg. of Month A. Ft.	Inflow A. Ft.	Evaporation	A. Ft. A. Ft.	Contents End of Month A. Ft.
November	0	0	0	0	. 0
December	. 0	4,743.00	37,42	ő	4,705.58
January	4,705.58	5,027.00	91.27	ŏ	9,641,31
February	9,641.31	5,122.00	209.98	Ŏ	14,553.33
March	14,553.33	2,721.00	433.69	Ō	16,840.64
April 1-17	16,840.64	0	14.09	16,826.55	(2400 Hrs. 4/17)
TOTALS		17,613.00	786.45	16,826.55	0

TABLE III AGREEMENT WATER

	Contents Beg. of Month A. Ft.	Inflow A. Ft.	Evaporation A. Ft.	Releases A. Ft.	Contents End of Month A. Ft.
November	8,152.25	0	212,13	192,14	7 747 00
December	7,747.98	0	124.67	0	7,747.98 7,623.31
January	7,623.31	0	100.25	0	
February	7,523.06	Ö	134,21	0	7,523.06
March	7,388.85	Ö	193,78	0	7,388.85 7,195.07
April 1-17	7,195.07	42,143.76	637.12	3,749.55	(2400 Hrs. 4/17)
TOTALS		42,143.76	1,402.16	3,941.69	44,952.16

TABLE IV
PERMANENT RECREATION POOL

	Contents Beg. of Month A. Ft.	Inflow A. Ft.	Evaporation A. Ft.	Releases A. Ft.	Contents End of Month A. Ft.
November December January February March April 1-17	5,560.64 5,412.54 5,325.44 5,255.40 5,161.64 5,026.29	0 0 0 0 0	148.10 87.10 70.04 93.76 135.35 101.45	0 0 0 0 0	5,412.54 5,325.44 5,255.40 5,161.64 5,026.29 (2400 Hrs. 4/17) 4,924.84
TOTALS		0	635.80	0	•

TABLE V ALLOCATION OF RESERVOIR CONTENTS IN ACRE FEET At 2400 Hr. April 17, 1982

Total	Agreement	Compact A	mity Winter	Permanent Pool
Contents	Water	Water	Water	Water
49,877.00	44,952.16	0	0	4,924.84

SUMMER STORAGE IN JOHN MARTIN RESERVOIR APRIL 17, 1982-OCTOBER 31, 1982 CONSERVATION POOL

Summer storage began at 1428 Hour, April 17, 1982. At that time the Conservation Pool was empty. During the summer season, storage in the Conservation Pool totalled 62,250.23 A. Ft. This was all released into accounts in accordance with the Operating Plan, adopted April 24, 1980. The Conservation Pool was empty at 2400 Hour, October 31, 1982.

TABLE VI SUMMER OPERATIONS OF CONSERVATION POOL

	Contents, A. Ft. Beginning Date	Inflow A. Ft.	Evaporation A. Ft.	Release A. Ft.	Contents A. Ft. End of Month
April 17	0	0	0	0 .	ō
May 1	0	0	0	0	0
June 1	0	12,064.32	8.56	12,055.76	0
July 1	0	9,991.11	4.10	4,000.00	5,987.01
Aug. 1	5,987.01	29,781.21	187,61	35,580.61	0
Sept. 1	0	6,944.43	7,77	6,936.66	0
Oct. 1	0	3,469,16	1.01	3,468.15	0
TOTALS		62,250.23	209.05	62,041.18	

TABLE VII STORAGE IN AND RELEASES FROM CONSERVATION POOL

Beginni	ng of Storage	Ending	of Storage	Beginni	ng of Release	Ending	of Release
Hour	Day	Hour	Day	Hour	Day	Hour	Day
1330	June 3	0628	June 6	1330	June 3	0628	June 6
0900	June 19	1124	June 22	0900	June 19	1124	June 19
1000	June 27	1040	June 28	1000	June 27	1040	June 28
2400	July 29	0953	Aug. 8	2400	July 29	0953	Aug. 8
0001	Aug. 12	1229	Aug. 13	0001	Aug. 12	1229	Aug. 13
0900	Aug. 22	0536	Aug. 31	0900	Aug. 22	0536	Aug. 31
0800	Sept. 14	1914	Sept. 17	0800	Sept. 14	1914	Sept. 17
0930	Oct. 1	0914	Oct. 3	0930	Oct. 1	0916	Oct. 3

TABLE VIII
SUMMER OPERATION OF PERMANENT RECREATION POOL

	Contents, A. Ft. Beginning Date Shown	Inflow A. Ft.	Evaporation A. Ft.	Release A. Ft.	Contents, A. Ft. End of Month
April 18	4,924.84	0	72,12	0	4,852.72
May 1	4,852,72	Ŏ	241.14	0	4,611.58
June 1	4,611.58	103,28	234.03	0	
July 1	4,480.83	0	370.69	Ö	4,480.83
Aug. 1	4,110,14	Õ	330.26	0	4,110.14
Sept. 1	3,779.88	22.99	265.76	0	3,779.88
Oct. 1	3,537.11	0	162.91	-	3,537.11
TOTALS	0,001.11	126,27	1.676.91	0	3,374.20

RELEASES FOR IRRIGATION

All waters stored in the Conservation Pool were first transferred to Agreement Accounts in accordance with the Operating Plan, dated April 24, 1980. Water was then released upon order by the Operations Secretary of the Compact Administration.

STATE OF KANSAS

Releases to the State of Kansas were made upon request from their account. In addition, releases were made from both the Transit Loss Account and the Sisson Ditch Account to assist delivery of the Kansas demand to Coolidge, Kansas.

TABLE IX
RELEASES TO STATE OF KANSAS, A. Ft.

	Kansas Agreement Account	Kansas Transit Loss Account	Sisson Ditch Account	Total Release to Kansas
April	0	0	0	0
May	0	0	0	0
June	9,541.67	1,291.66	0	10,833.33
July	4,739.36	336.42	0	5,075.78
	15,159.03	3,101.61	506.99	18,767.63
August	3,329.29	0	0	3,329.29
September October	0,5-0,-0	Ō	0	0
TOTALS	32,769.35	4,729.69	506.99	38,006.03

STATE OF COLORADO

Releases to the State of Colorado were made upon individual request of the various ditches in Colorado. Orders were placed with Water Commissioners who then transmitted them to the Operations Secretary. Appropriate transit losses using U.S.G.S. transit loss data for Reach 6 were deducted from diversions.

TABLE X RELEASES TO STATE OF COLORADO

Month	Acre-Feet
April	16,171.54
May	11,672,93
June	4,319.61
July	3,081,56
August	19,316.79
September .	3,575,42
October	814.66
TOTAL	58,952,51

TABLE XI ALLOCATION OF CONTENTS AT 2400 HOUR, OCT. 31, 1982

	_		TO CE
Conservation Pool	Agreement Accounts	Permanent Pool	Total
0	8,866.80	3,374.20	12,241.00
Other Water	Kansas	Colorado D	itches
0	1,326.83	7,539.9	7

PRECIPITATION IN INCHES

	Leadville	Salida	Pueblo	Trinidad	Las Animas	Lamar	Garden City Kansas
Nov. 1981	0.87	0.03	0.04	0.38	0.13	0.53	
Dec.	2.41	0.17	0.67	0.44	0.48	0.38	
Jan. 1982	1.65	0.09	0.54	0.20	Trace	0.04	
Feb.	0.38	0.07	0.31	0.68	0.91	0.60	
Mar.	1,66 1,66	ena Vista 0.26	0.33	0.44	0.46	0.51	
April	0.82	0.34	0.13	0.28	0.30	0.45	
May	1,16	1.48	2,28	3.14	1.71	3.96	
June	Sugar Loaf 0.88	0.70	1.75	2,77	4.81	3.11	
July	2.41	1.68	2,71	1.80	2.03	2,78	
Aug.	3.36	2.55	4.35	2,73	0.68	0.87	
Sept.	Leadville	2 12	2.24	2,97	1.47	1,47	
Oct.	Not Aveilable	Not Available	0.37	Not Available	Not Available	Not Available	

JOHN MARTIN RESERVOIR Computed Inflow A.F.

Oet.	1,305	1,066	1,029	988	953	865	762	725	705	628	727	ş	835	202	583	679	642	661	652	899	86	86	86	906	826	968	825	768	769	731	614	25.314	
Sept.	1,241	1,174	1,048	1,109	1.090	7.026	1,060	779	974	1,104	1,123	1,315	2,356	2,840	1.244	1,150	837	968	975	1,073	1,223	1,211	1 239	1,249	1,255	988	760	713	25	1,230		41.136	
Aug.	3,999	1,780	801	308	738	343	609	693	776	952	1.411	2,587	908	652	1,020	1,394	1,565	1,237	1,210	\$	1,375	3,796	5,910	3,856	1,917	724	617	614	478	267	8 67	44.168	
July	1,199	1,091	1,133	1,109	186	1,010	1,204	1,156	1,324	1,142	1,318	1,204	1,232	58 6	366	206	1,093	1,043	1,027	1,062	878	1,020	832	672	278	Š	583	7	1,158	2,702	6,369	38,228	_
June	1,128	8 28	2,730	2,194	1,226	9	82	171	733	531	855	814	921	836	87	24	1,032	1,737	1,408	1,048	1,860	986 6	1,338	1,230	1,40 4	1,219	1,639	1,325	902	1,376		35,090	
May	ĸ	0	3	141	29	33	4	88	0	167	æ	Ħ	219	E	90g	445	988	318	393	28	319	963 2306	314	276	330	98	418	83	787	1,007	36	9,130	
Apr.	至	250	\$	88	•	155	162 291	\$	æ	201	2	26	157	ន្ត	125	Ħ	Z	×	152	ĸ	8	8	126	¥	9	8	135	12	328	0		3,453	
Mar.	3	248	181	316	8	113	\$	2	419	487	913	3	\$	81	6	188	187	328	117	딿	187	ន្ល	118	8	153	188 188	119	153	337	121	æ	8,400	
Feb.	493	337	22	152	23	213	214	EZ.	ij	318	350	320	98 7	352	611	416	676	282	463	8	88	8	8	364	និ	863	282	988				9,533	
Jan.	282	374	\$	40	082 28	78B	318	22	317	184	187	215	215	272	83	212	<u> </u>	8	\$	\$	2	275	ž	25.	378 378	1 65	\$	345	573	8	3	10,482	
Dec.	237	ž	313	ğ	320	388	888	88	3 8	314	315	340	358	331	273	300	332	262	33 1	30	ž	366	988	151	2	ផ	313	312	22	885 885	282	009'6	
Nov.	112	象	152	176	131	8	<u>¥</u>	¥	171	150	139	161	15	142	ដ	23	Ħ	7	ĭ	3	<u>\$</u>	123	143	143	168	5	ន្ត	154	199	13 13		4,814	
		~	**	4	₩.	•	~	∞	.	2	=	22	2	=	12	16	12	8	19	8	22	S 3	ន	*	28	*	Zi	8	23	8	ᇤ	TOTAL	

ATTACHMENT F

BUDGET Fiscal Year July, 1983-June 30, 1984

	\$ 9 941 20
A. SALARIES:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1. Recording Secretary\$ 3,600.00	,
2. Operations Secretary 6,100.00	
3. Payroli Taxes 241.20	19 500 00
B. GAUGING STATIONS:	12,500.00
1. Maintenance and Operation	
A. Cooperative	
Agreement\$12,000.00	
B. Telemark Telephone	
John Martin Dam	
Granada 500.00	
C. OPERATING EXPENSE:	4,650.00
1. Treasurer's Bond	ı
2. Annual Report	1
3. Office Expense	
A. Telephone\$ 1,500.00	
B. Supplies 500.00	
C. Printing 500.00	1
4 ITAVEL MILL MICCINIS	='
5. Audit	
D. Contingency: 2,000.00) ************************************
E. Total Budget	\$29,091,20
Colorado (60%)\$17,454.77	2
Kansas (40%)\$11,636.4	3

ATTACHMENT G

BUDGET Fiscal Year July 1, 1984-June 30, 1985

A. SALARIES: \$ 9.041.20
A. SALARIES: \$ 9,941.20 1. Recording Secretary \$ 3,600.00
2. Operating Secretary 6,100.00
3 Dayroll Toron
3. Payroll Taxes 241,20
B. GAUGING STATIONS: 12,500.00
1. Maintenance and Operation
A. Cooperative
Agreement\$12,000.00
B. Telemark Telephone
John Martin Dam
Granada Gauge 500,00
C OPEDATING REVIEWORD.
C. OPERATING EXPENSES: 4,600.00
1. Treasurer's Bond 100.00
2. Annual Report
3. Office Expense
A. Telephone
B. Supplies 350.00
C. Printing 350.00
4 Travel and Mastings
4. Travel and Meetings 200.00
5. Audit 350.00
D. Contingency: 1,000.00
E. TOTAL BUDGET:
COLORADO (60%)\$16,824,72
KANSAS (40%)\$11,216,48

ATTACHMENT H

RESOLUTION CONCERNING OPERATION OF TRINIDAD RESERVOIR

WHEREAS, on the 30th day of June, 1980, the Arkansas River Compact Administration found as follows:

1. It has come to the attention of the Arkansas River Compact Administration that 18,290 acre-feet of water stored under the Model Reservoir Water Right in Trinidad Reservoir during Compact Year 1979 was transferred to the joint use pool on September 28, 1979, by action of the Board of Directors of the Purgatoire River Water Conservancy District without objection from the Division Engineer for Division II, Colorado Division of Water Resources;

2. An additional 20,000 acre-feet was stored in Trinidad Reservoir under the Model Reservoir Right during Compact Year 1980;

 The State of Kansas has questioned whether or not these actions are in conformity with the operating principles for Trinidad Reservoir;

WHEREAS, pursuant to the above, the Compact Administration resolved that pursuant to Article VII, \P H of the Arkansas River

Compact, the Compact Administration should cause an investigation to

be made of these circumstances; and

WHEREAS, pursuant to the above, the Compact Administration further resolved that this investigation should be accomplished on behalf of the Compact Administration by the Colorado Water Conservation Board and the Kansas Division of Water Resources, which entities should conduct said investigation as promptly as possible and report their determinations to the Compact Administration as soon as possible after the adoption of this resolution; and

WHEREAS, a report was submitted by Mr. Guy E. Gibson, Chief Engineer/Director, Division of Water Resources, Kansas State Board of Agriculture, and J. William McDonald, Director, Colorado Water Conservation Board, on the 25th day of September, 1980, pursuant to the Compact Administration's resolution of the 30th day of June, 1980;

and

WHEREAS, said report found in part that 18,290 acre-feet of water was stored by the Purgatoire River Water Conservancy District under the Model Storage Right in Trinidad Reservoir in priority between April 15, 1979, and September 28, 1979; that the Purgatoire River Water Conservancy District transferred this amount of water into the joint use pool of Trinidad Reservoir by resolution on September 28, 1979, thereby leaving the Model Storage account empty, and that this water was still physically located behind Trinidad Dam on June 30, 1980; and

WHEREAS, said report further found, in part, that 20,000 acrefect of water was stored by the District under the Model Storage Right in Trinidad Reservoir in priority during the period April 16, 1980, through May 17, 1980. This water was physically stored behind Trinidad

Dam and in the Model Reservoir account as of June 30, 1980;

NOW, THEREFORE, BE IT RESOLVED, that pursuant to Article VIII, ¶ H of the Arkansas River Compact, the Compact Administration finds as follows:

- 1. The transfer of 18,290 acre-feet of water stored by the Purgatoire River Water Conservancy District under the Model Storage Right in Trinidad Reservoir in priority between April 15, 1979, and September 28, 1979, by resolution of the Purgatoire River Water Conservancy District Board on September 28, 1979, into the joint use pool of Trinidad Reservoir deprived Colorado and Kansas downstream water users of their equitable share of the waters of the Arkansas River, as defined in Article III, ¶ B of the Arkansas River Compact and, therefore, violates Article IV, ¶ D of the Arkansas River Compact, which provides: "(T)he waters of the Arkansas River, as defined in Article III, shall not be materially depleted in usable quantity or availability for the use to the water users in Kansas and Colorado under this contract by future development or construction." Said action also violates Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project, which provides that "there will be no significant increase in water use which would result in the depletion of water yield to other Colorado and Kansas users."
- The storage of 20,000 acre-feet of water by the District under the Model Storage Right in Trinidad Reservoir in priority during the period April 16, 1980, through May 17, 1980, was in violation of the court decree

of the District Court in and for the County of Las Animas, Colorado, Civil Action No. 19793, dated April 15, 1965, which states in part: "The petitioners may store out of the waters of the Purgatoire or Las Animas Rivers in Trinidad Reservoir under priority No. 10, appropriation priority No. 168, and water district No. 19, and the date of the appropriation January 22, 1980, up to 20,000 acre-feet of water in Trinidad Reservoir...."

3. The joint use capacity in Trinidad Reservoir was never intended by the Congress of the United States nor the State of Kansas to provide additional storage space under the Model Reservoir Right and, in practice, has been turned into such, in violation of the laws of the United States, the Arkansas River Compact, the District Court of Las Animas County, Colorado's, order of April 15, 1965, in Case No. 19793, the conditions of operations of the Trinidad Dam and Reservoir Project prescribed by House Document No. 325, 84th Congress, Second Session, January 30, 1956, as implemented by Article IV of the "Operating Principles of Trinidad Dam and Reservoir Project" which is appended to Volume 1 of the United States Bureau of Reclamations' Irrigation Report on said Project (revised September, 1964), as well as the five operating principles approved by the State of Kansas and attached to the Operating Principles, Trinidad Dam and Reservoir Project.

BE IT FURTHER RESOLVED, that the Compact Administration recommends to the chief official of the State of Colorado charged with the administration of water rights in the State of Colorado that he issue an order for the release of 18,290 acre-feet of water from the Joint Use Pool of Trinidad Reservoir in such a manner as to be most beneficial to downstream Colorado and Kansas users, with such release being completed no later than the 1st day of April, 1983.

BE IT FURTHER RESOLVED, that the Compact Administration recommends to the chief official of the State of Colorado charged with the administration of water rights in the State of Colorado that prior to the implementation of any future sale, change, transfer, or regulation of the waters of the Arkansas River, as defined in article III, ¶ B of the Arkansas River Compact, that may affect the flow of water into the John Martin Reservoir, the Arkansas River Compact Administration, established under Article VIII of the Arkansas River Compact, shall be consulted and the approval shall be obtained for said sale, exchange, transfer, or regulation.

ENTERED this 14th day of December, 1982, at the annual meeting of the Compact Administration held in Lamar, Colorado.

Frank Cooley, Chairman Arkansas River Compact Administration

Leo Idler, Secretary Arkansas River Compact Administration

ATTACHMENT I

RESOLUTION CONCERNING THE OPERATION OF TRINIDAD RESERVOIR

WHEREAS, by resolution dated September 25, 1980, the Arkansas River Compact Administration (Administration) went on record recognizing that the operation of Trinidad Reservoir in 1979 and 1980 raised a question as to whether the waters of the Arkansas River had been materially depleted in usable quantity or availability for use to the water users in Colorado and Kansas, and therefore recommending that the Chief Engineer, Kansas Division of Water Resources (Kansas Chief Engineer) confer with the Colorado State Engineer to make further inquiries into this question as expeditiously as possible; and

WHEREAS, by letter dated June 12, 1981, the Colorado State Engineer furnished to the Kansas Chief Engineer preliminary records for the Thatcher gauge on the Purgatoire River, Colorado, for the years 1969 through 1981 to assist the Kansas Chief Engineer in his

inquiries into the operation of Trinidad Reservoir; and

WHEREAS, a meeting was held on July 1, 1981, in Topeka, Kansas, between the Kansas Chief Engineer and the Colorado State Engineer to discuss the operation of Trinidad Reservoir during the years 1979 and 1980, at which meeting the Kansas Chief Engineer stated that if Colorado could demonstrate that the Model Reservoir and Ditch water right had historically diverted more than 38,000 acre-feet in any two-year period, then Kansas would no longer contend that the 1979-1980 operations of Trinidad Reservoir violated article IV, paragraph D, of the Arkansas River Compact (Compact); and

WHEREAS, by letter dated July 29, 1981, the Colorado State Engineer provided the Kansas Chief Engineer with records of the annual diversions by the Model Reservoir and Ditch water right for the period 1925 through 1976, which records demonstrated that the storage of 38,290 acre-feet in 1979 and 1980 was not anomalous in any way and

had occurred in six previous two year periods; and

WHEREAS, as the August 6, 1981, special meeting of the Administration the commissioners from Kansas stated that they would, within the next several weeks, request additional information from the Colorado State Engineer on the administration of Trinidad Reservoir; and

WHEREAS, no request for additional information was thereafter

made by the State of Kansas; and

WHEREAS, on August 30, 1982, at the request of the Kansas Attorney General, a meeting was held in Denver, Colorado, between the Colorado Attorney General, the Kansas Attorney General, the state members of the Administration, and the responsible water officials of both Kansas and Colorado, at which meeting the Colorado State Engineer gave an extensive presentation on the manner of administration of the Trinidad Reservoir and the Trinidad Project, and explained how the strict manner of administration of that project insured that the waters of the Arkansas River had not been and would not be materially depleted in usable quantity and availability; and

WHEREAS, the Colorado Attorney General requested the Kansas

Attorney General to review all of the factual data and to provide Colorado with any factual information which would show that, by the operation of Trinidad Reservoir, the waters of the Arkansas River had been materially depleted in usable quantity or availability for use to users in Colorado and Kansas; and

WHEREAS, the State of Kansas, through its responsible officials, has not provided to either the State of Colorado or the Administration any factual data to support the claim that the 1979 and 1980 operation of the Trinidad Reservoir has violated Article IV, paragraph D, of the Compact.

NOW, THEREFORE, BE IT RESOLVED that the Arkansas River Compact Administration shall not consider further the allegations of the State of Kansas that the 1979 and 1980 administration of Trinidad Reservoir violated Article IV, paragraph D, of the Arkansas River Compact because the State of Kansas has failed to provide any factual evidence in support of its claims.

Entered this 14th day of December, 1982, at the regular annual meeting of the Arkansas River Compact Administration held in Lamar, Colorado.

Frank G. Cooley Chairman

Leo Idler Recording Secretary

ATTACHMENT J

The following letter is as directed to be sent by unanimous action of the Arkansas River Compact Administration at its annual meeting held in Lamar, Colorado, on December 14, 1982

December 15, 1982

The Honorable J. D. McFarlane Attorney General State of Colorado State Office Building 1525 Sherman Street Denver, Colorado 80203

The Honorable Robert T. Stephan Attorney General State of Kansas 2nd Floor, Kansas Judicial Center Topeka, Kansas 66612

The Honorable L. Duane Woodard Attorney General Elect State of Colorado State Office Building 1525 Sherman Street Denver, Colorado 80203

Gentlemen:

At the annual meeting of the Arkansas River Compact Administration held at Lamar, Colorado, on December 14, 1982, the Compact Administration, i.e., the State of Colorado and the State of Kansas, directed me to make the following request: The attorneys general of the States of Colorado and Kansas are requested to communicate with each other and confer as they may be advised concerning the dispute over the storage of water in Trinidad Reservoir and to report on their discussions to a special meeting of the Compact Administration to be held on Feburary 1, 1983. The meeting has been scheduled to receive the reports and the advice of the attorneys general of the two states.

Sincerely yours,
Arkansas River Compact Administration
/s/ Frank G. Cooley, Chairman

FGC:th

cc: Office of Management and Budget State Engineer, State of Colorado Compact Administration Members

ATTACHMENT K

RESOLUTION CONCERNING THE PUEBLO RESERVOIR OPERATING PLAN

WHEREAS, on July 24, 1951, prior to the construction of Pueblo Reservoir, the following Resolution was adopted by the Arkansas River Compact Administration which stated in part:

"There shall be no re-regulation of the native waters of the Arkansas River as proposed in such report until a plan of operation, rules, regulations, procedures and agreements in furtherance thereof, including all pertinent agreements between the Corps of Engineers and the Bureau of Reclamation, shall have been submitted to, and approved by the Arkansas River Compact Administration and the affected water users."

WHEREAS, no such plan of operation, rules, regulations or procedures and agreements have ever been submitted to the Arkansas River Compact Administration for approval and no such operating plan has ever been approved.

NOW, THEREFORE, be it resolved that a draft of the operating plan, as described above, shall be represented by the State of Colorado Compact members to the Arkansas River Compact Administration for approval no later than April 1, 1983.

FURTHER, Be it resolved that the plan of operation shall include, but not be limited to, the following provisions:

- That there shall be an annual review of the actual operation of Pueblo Reservoir to determine if any water was impounded in Pueblo Reservoir that would have reached John Martin Reservoir if Pueblo Reservoir had not existed.
- That this review shall be made by a representative of the Division of Water Resources of the Kansas State Board of Agriculture and a representative of the Colorado State Engineer's office.
- That this review shall begin no later than April 1 of each year and shall be completed no later than the following May 31st.
- 4. That the findings of this review shall be submitted to this Administration upon completion.
- 5. That if it is found that water was stored in Pueblo Reservoir that would have reached John Martin Reservoir, then this amount of water shall be released from Pueblo Reservoir and protected down to John Martin Reservoir no later than August 1.

ATTACHMENT L

Draft Dec. 14, 1982

Dear Mr. Jeris A. Danielson Colorado State Engineer Colorado Division of Water Resources 1313 Sherman, Room 818 Denver, Colorado 80203

Dear Dr. Danielson:

At the regular annual meeting of the Arkansas River Compact Administration held in Lamar, Colorado, on December 14, 1982, the Administration directed me to request that you furnish to the Administration, pursuant to Article VIII, paragraph G, of the Arkansas River Compact, pertinent factual data concerning the operation of Pueblo Reservoir since it began operation through compact year 1982, to include information concerning the storage of water therein, the procedures utilized in operating the reservoir, and the status of water rights stored therein. A response to this request prior to February 1, 1983, would be appreciated.

Sincerely, Frank G. Cooley Chairman

cc: Members, Arkansas Compact Administration Bob Jesse

APPENDIX "C-2"

MINUTES OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

SPECIAL TELEPHONIC MEETING

February 1, 1983

A special telephonic meeting of the Arkansas River Compact Administration was held on February 1, 1983, in lieu of the special meeting which had been scheduled for Garden City, Kansas, on the same date (see attachment A). This scheduled meeting was cancelled due to inclement weather conditions.

The special telephonic meeting, held by conference call, was called to order at 7:50 a.m. (MST) by Mr. Frank G. Cooley, Chairman and United States representative. Other members participating in the conference call were:

For Kansas:

Carl E. Bentrup — Deerfield, Kansas Ronald Olomon — Garden City, Kansas For Colorado:

Carl G. Genova — Pueblo, Colorado Leo Idler — Lamar, Colorado

J. William McDonald - Denver, Colorado

Mr. McDonald moved, seconded by Mr. Bentrup, the adoption of a resolution concerning the John Martin Reservoir operating plan (see Attachment B). There being no discussion, Mr. Cooley called for a vote. The resolution was passed upon the affirmative vote of both states.

The rescheduling of the cancelled special meeting was briefly discussed. It was tentatively agreed that a special meeting would be held on Friday, March 11, or March 18, 1983, subject to the availability of the Attorneys General of Colorado and Kansas. It was agreed that an effort would be made to finalize the rescheduled date for the special meeting as soon as possible.

There being no further business to come before the Administration, Mr. Cooley adjourned the meeting at 8 a.m. (MST).

The foregoing minutes were approved on March 25, 1983, at a special meeting of the Administration held in Garden City, Kansas.
/s/ Frank G. Cooley /s/ Leo Idler
Chairman Recording Secretary

RESOLUTION

BE IT RESOLVED BY THE ARKANSAS RIVER COMPACT ADMINISTRATION

WHEREAS, Guy E. Gibson, Chief Engineer-Director, Division of Water Resources, Kansas State Board of Agriculture, has served as a Representative of the State of Kansas on the Arkansas River Compact Administration since 1972; and

WHEREAS, Mr. Gibson has voluntarily elected to retire from the office of Chief Engineer-Director, Division of Water Resources, and from the Arkansas River Compact Administration; and

WHEREAS, Mr. Gibson has contributed his professional knowledge, ability and services to the Arkansas River Compact Administration;

NOW THEREFORE, BE IT RESOLVED, that the Arkansas River Compact Administration does hereby acknowledge the outstanding contribution of Guy E. Gibson to this Administration and to the States of Colorado and Kansas and express appreciation to Mr. Gibson and extend to him the best wishes of each member of this Administration for continued good health and happiness in all his future endeavors.

BE IT FURTHER RESOLVED, that this resolution be entered into the records of this Administration and that the Secretary be instructed to send a copy to Mr. Gibson.

Entered this 25th day of March, 1983 at a special meeting of the Arkansas River Compact Administration in Garden City, Kansas.

/s/ Frank G. Cooley
/s/ Leo Idler
Chairman Recording Secretary

MINUTES OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

SPECIAL MEETING

March 25, 1983 Hilton Hotel, Garden City, Kansas

A special meeting of the Arkansas River Compact Administration was held at the Hilton Hotel in Garden City, Kansas, on March 25, 1983. The agenda for the meeting is included as Attachment A. The meeting was called after the special meeting originally scheduled for February 1, 1983, had to be cancelled due to inclement weather.

The meeting was called to order at 10:30 a.m. (CDT) by Mr. Carl Bentrup, Vice-Chairman, in the absence of the Chairman and United States representative, Mr. Frank Cooley, who was unable to attend. Administration members in attendance were:

For Kansas:

Carl E. Bentrup — Deerfield, Kansas Ronald Olomon — Garden City, Kansas David Pope — Topeka, Kansas

For Colorado:

Carl Genova — Pueblo, Colorado Leo Idler — Lamar, Colorado

J. William McDonald — Denver, Colorado

Mr. Bentrup advised that the Attorneys General of Kansas and Colorado could not fly to the meeting due to inclement weather that morning. He asked that the exchange of correspondence between them concerning Trinidad Reservoir be included in the minutes of the meeting. There being no objections, it was so ordered (see Attachments B, C, D, E, F, G, and H).

Mr. Bentrup introduced the members of the Administration. Mr. Pope, a new member of the Kansas delegation, presented his credentials. Mr. Pope serves ex officio, having been appointed Chief Engineer of the Kansas Division of Water Resources following the retirement of Mr. Guy Gibson.

Mr. Bentrup asked Mr. McDonald to present the report of the Administrative and Legal Committee. Mr. McDonald advised that the Administrative and Legal Committee, composed of Mr. Bentrup and himself, had met earlier that morning to discuss draft rules of arbitration, which had been prepared by the staff of the Kansas Attorney General's office. The rules, if adopted, would implement Article VIII. D of the Arkansas River Compact. Mr. McDonald stated that no decisions were reached nor any actions taken and that the committee

had no recommendations to make to the Administration at this time with respect to the proposed rules. There was no discussion of nor

comment on Mr. McDonald's report.

The next item on the agenda was Trinidad Reservoir. Mr. Pope moved the adoption of an "Amended Resolution Concerning Operation of Trinidad Reservoir" (see Attachment I). Mr. Olomon seconded the motion. In response to a question from Mr. McDonald, Mr. Bentrup indicated that this resolution was "amended" in the sense that it differed from the resolution presented by Kansas at the December 14, 1982, annual meeting of the Administration (see Attachment H to the minutes of the annual meeting).

Mr. McDonald noted that this amended resolution included allegations with respect to storage events in 1981 and 1982, as well as allegations of excessive use of water by the Purgatoire Water Conservancy District, not previously raised by Kansas. He asked Mr. Bob Jesse, Colorado Division Engineer for Division 2, to comment on these

Mr. Jesse stated that the storage amounts for 1981 and 1982 shown in the amended resolution differed from the amounts shown in his records. He asked Mr. Howard Corrigan, Kansas Water Commissioner, to explain how the amounts in the amended resolution had been determined.

Mr. Corrigan indicated that storage had been determined by taking the difference between total reservoir inflows and all reservoirs outflows. Considerable discussion ensued among Administration members, Mr. Jesse, and Mr. Corrigan on how storage in Trinidad Reservoir is accounted for. Mr. Jesse noted that simple inflow-outflow calculations do not accurately reflect changes in the storage of water because they do not distinguish between releases of stored water and releases of inflows nor take into consideration transfers between accounts. Mr. Jesse indicated that he would like to discuss Mr. Corrigan's calculations with him and that he would provide his daily reservoir accounting sheets to Kansas. Mr. Corrigan indicated his willingness to discuss these data with Mr. Jesse.

Mr. Bentrup stated that storage of more than 20,000 acre-feet in Trinidad Reservoir was, in Kansas' opinion, a violation of the operating principles for Trinidad Reservoir and that Kansas does not recognize paper transfers among accounts in the reservoir. Mr. Bentrup further stated that Kansas does not recognize the joint use pool in Trinidad Reservoir as additional storage space for Colorado's use. He stated that it was Kansas' view that the joint use pool could be used for storage only when John Martin Reservoir was spilling or by the

acquisition of water rights in addition to the Model decree.

Mr. McDonald indicated that he disagreed with Kansas' view that the operating principles for Trinidad Reservoir govern Colorado's obligations to Kansas with respect to the operation of the reservoir. He stated that it was Colorado's view that the provision of the Arkansas River Compact which refers to material depletion is what governs. He noted that there appear to be significant differences between Colorado and Kansas both with respect to the factual data concerning storage as well as with respect to the legal interpretation of what standard governs Colorado's obligations.

After there was further discussion of storage in Trinidad Reservoir, Mr. McDonald indicated that he would also like to explore Kansas' allegations in the proposed amended resolution concerning water application per acre of land. Specifically, Mr. McDonald noted that records available to Colorado did not support the 4.3 and 4.7 acre-foot per acre application rates set forth in the amended resolution.

Mr. Corrigan explained how he had calculated the amount of water used for irrigation in the Purgatoire Water Conservancy District in 1979 and 1980. Mr. Jesse stated that he did not think the procedures and data used by Mr. Corrigan were adequate. Considerable discussion ensued. The discussion concluded with Kansas agreeing to provide the data and the methods of calculation whick Mr. Corrigan had used to Mr. Jesse for review.

Mr. McDonald then moved, seconded by Mr. Genova, to table the motion to adopt the amended resolution until after Colorado had had an opportunity to review the data submitted by Kansas. This motion to table was passed upon the affirmative vote of both states.

Mr. Bentrup then turned to the agenda item concerning Pueblo Reservoir. Mr. McDonald noted that the Administration, at its December 14, 1982, meeting, had directed Mr. Cooley to write a letter to the Colorado State Engineer, Dr. Jeris Danielson, requesting data regarding the operation of Pueblo Reservoir. Mr. McDonald indicated that Mr. Jesse had compiled the requested information on behalf of Dr. Danielson and had brought it with him to present to and discuss with the Administration.

Mr. Bentrup indicated that his recollection of the situation was different than Mr. McDonald's. He stated that Kansas had received adequate information on the past operation of Pueblo Reservoir and was not requesting more information. Rather, Mr. Bentrup said that Kansas' concern was that a plan of operation as referred to in the Administration's July 24, 1951, resolution had not yet been provided to the Administration for approval. He indicated that he thought that requests for further information were only a delaying tactic.

Mr. McDonald responded by noting that Mr. Cooley's letter to Dr. Danielson requesting information was sent at the direction of the Administration. He reiterated that Colorado wished to have Mr. Jesse provide the information requested by the Administration through Mr. Cooley's letter.

Mr. Jesse then provided a large number of records in response to Mr. Cooley's letter. The index of the materials provided is included herein as Attachment J. He explained in general terms how storage of both winter water and summer flood events in Pueblo Reservoir is handled.

Considerable discussion ensued among the members of the Administration and Mr. Jesse concerning various aspects of the reservoir's operation, how storage and release decisions are made, and which stations are used when gaging summer flood events. Several times during the course of the discussion Mr. Bentrup emphasized that Kansas' concern was not with a lack of information but with the lack of

a written plan of operation which would guide the decisions to be made for storing water.

Following this discussion Mr. Pope distributed and moved the adoption of a "Resolution Concerning the Pueblo Reservoir Operating Plan" (see Attachment K). The motion was seconded by Mr. Olomon. Mr. McDonald requested a recess to discuss the resolution with his Colorado colleagues, which recess was granted by Mr. Bentrup. After several minutes, Mr. McDonald requested additional time, whereupon Mr. Bentrup continued the recess through the lunch hour.

The meeting was reconvened at 1:30 p.m., at which time Mr. McDonald offered as a substitute motion to the motion before the Administration the adoption of a different resolution concerning the Pueblo Reservoir (see Attachment L). Mr. Genova seconded the substitute motion. There being no discussion, Mr. Bentrup called for a vote on the substitute motion. Kansas voted no and Colorado voted yes, whereupon the substitute motion was declared lost.

The original motion by Mr. Pope was then put before the Administration. There being no further discussion, Mr. Bentrup called for a vote. Kansas voted yes and Colorado voted no, whereupon the motion was declared lost.

The next item on the agenda was the John Martin Reservoir operating plan. Mr. McDonald reported that Colorado ditches had resolved their internal problems and were ready to continue with the operating plan for another year. With respect to the transit loss account agreement for 1983 reached between Mr. Corrigan and Mr. Jesse pursuant to Section II. E(4) of the operating plan (see Attachment M), Mr. McDonald moved, seconded by Mr. Olomon, that the Administration approve that agreement. The motion passed on the affirmative vote of both states.

Mr. McDonald indicated that Colorado had some problems with the handling of transit losses in the operating plan and would probably propose revisions for 1984. Mr. Bentrup indicated that Kansas would be willing to listen to any suggestions for changes and improvements.

With respect to the next agenda item, Mr. Bentrup read a proposed resolution (see Attachment N) honoring Mr. Guy Gibson and moved adoption of the resolution. Mr. McDonald seconded the motion. The motion was adopted upon the affirmative vote of both states.

The minutes of the February 1, 1983, special telephonic meeting were then distributed. Mr. McDonald moved their adoption as printed. Mr. Genova seconded. The minutes were approved upon the affirmative vote of both states.

There being no further business to come before the Administration, Mr. Bentrup adjourned the meeting at 2:30 p.m.

The foregoing minutes were adopted on August 26, 1983, at the special meeting of the Administration held in Denver, Colorado.

/s/ Frank G. Cooley

/s/ Leo Idler
Chairman

Recording Secretary

ATTACHMENT A

SPECIAL MEETING ARKANSAS RIVER COMPACT ADMINISTRATION

March 25, 1983 Hilton Hotel Garden City, Kansas 10 a.m. (CST)

- 1. Call to order and introductions
- 2. Approval of agenda
- 3. Report of Attorney General Duane Woodard
- 4. Report of Attorney General Robert Stephan
- 5. Report of Administrative and Legal Committee concerning the arbitration of Art. VIII D of the Compact
- 6. Trinidad Reservoir
- 7. Pueblo Reservoir
- 8. John Martin Operating Plan
- 9. Resolution honoring Guy E. Gibson
- 10. Remarks from the audience
- 11. Adjournment

ATTACHMENT B

July 21, 1982

The Honorable Robert T. Stephan Attorney General of Kansas Judicial Center, Second Floor Topeka, Kansas 66612 Attention: Ms. Pat Clark

Subject: Trinidad Reservoir

Dear General Stephan:

I am writing to confirm our plans for the August 31, 1982 meeting of representatives from Kansas and Colorado to discuss the Trinidad Reservoir and your concerns that its operation is resulting in diminution of Kansas compact water. The meeting has been set for 2:00 p.m. on Tuesday, August 31 at the Rodeway Inn, Greenwood Village, 511 South Valley Highway, Englewood, Colorado. Please note the new location.

Bill McDonald of the Colorado Water Conservation Board has made arrangements to meet your party at the Arapahoe Airport at 1:30 p.m.

and transport you to the Rodeway Inn.

If you have any questions concerning these arrangements, please do not hesitate to contact either me or Bill McDonald.

Very truly yours, /s/ J. D. MacFarlane **Attorney General**

JDM: kl

cc: Bill Paddock Bill McDonald Jerry Danielson

ATTACHMENT C

October 12, 1982

The Honorable J. D. MacFarlane **Attorney General of Colorado** 1525 Sherman Street — Third Floor Denver, Colorado 80203

Dear General MacFarlane:

Re: Operations of Trinidad Reservoir

I want to take this opportunity to thank you and other Colorado officials for meeting with me and Kansas water officials on August 31, 1982, in Denver, Colorado. At that meeting, I announced I would formally present the requests of the State of Kansas with regard to the present and future operation of the Trinidad Reservoir located on the Purgatoire River, a tributary of the Arkansas River. After consultation with the various agencies of the State of Kansas charged with the protection of Kansas water rights, on behalf of the State of Kansas, I hereby make the following requests:

1. Prior to the implementation of any future sale, change, transfer, or regulation of the waters of the Arkansas River, as defined in Article III, Section B of the Arkansas Compact that may affect the flow of water into the John Martin Reservoir, the Arkansas River Compact Administration, established under Article VIII of the Arkansas River Compact, shall be consulted and their approval shall be obtained for said sale, exchange, transfer, or

2. The State of Colorado will agree that the emptying of water from "irrigation capacity" in Trinidad Reservoir, defined in Article I, Section 4, of the operating principles of Trinidad Dam and Reservoir Project, by making a paper transfer of the water in 1979 to the "joint use capacity" in Trinidad Reservoir as defined in Article I, Section 4, of the Operating Principles and allowing more than 20,000 acre-feet of the Operating Principles and

allowing more than 20,000 acre-feet of water to be stored under the Model Reservoir right, in Trinidad Reservoir deprives Kansas water users of their equitable share of the waters of the Arkansas River, and, therefore, violates Article IV, Section D of the Arkansas River Compact which provides: "(T)he waters of the Arkansas River, as defined in Article III, shall not be materially depleted in usable quantity or availability for the use to the water users in Kansas and Colorado under this contract by future development or construction." Said action also violates condition 3 of the Kansas Conditions to the Operating Procedures, Trinidad Dam and Reservoir Project, which provides that "there will be no significant increase in water use which would result in the depletion of water yield to other Colorado and Kansas users."

- 3. The State of Colorado will agree that storage of more than 20,000 acre-feet in Trinidad Reservoir under the Model Reservoir right is in violation of the court decree of the District Court in and for the County of Las Animas, Colorado, Civil Action No. 19793, dated April 15, 1965, which states in part: "The petitioners may store out of the waters of the Purgatoire or Las Animas Rivers in Trinidad Reservoir under priority No. 10, appropriation priority No. 168, and water district No. 19, and the date of the appropriation January 22, 1908, up to 20,000 acre feet of water in Trinidad Reservoir...."
- 4. The State of Colorado will agree that the joint use capacity in Trinidad Reservoir was never intended by the Congress of the United States nor the State of Kansas to provide additional storage space under the Model Reservoir right and, in practice, has been turned into such, in violation of the laws of the United States, the Arkansas River Compact, the District Court of Las Animas County, Colorado's, order of April 15, 1965, in Case No. 19793, the conditions of operations of the Trinidad Dam and Reservoir Project prescribed by House Document No. 325, 84th Congress, Second Session, January 30, 1956, as implemented by Article IV of the "Operating Principles of Trinidad Dam and Reservoir Project" which is appended to Volume 1 of the United States Bureau of Reclamations' Irrigation Report on said Project (revised September, 1964), as well as the five operating principles approved by the State of Kansas and attached to the Operating Principles, Trinidad Dam and Reservoir Project.

The State of Colorado will agree that the water laws of the State of Colorado are subordinate to the provisions of the Arkansas River Compact.

6. The State of Colorado will agree that the questions of law and fact concerning the waters of the Arkansas River as defined in Article III, Section B of the Arkansas River Compact are the proper subject of arbitration, pursuant to Article VIII, Section D of the Arkansas River Compact.

As Attorney General, I feel it is of vital importance that the arbitration procedures provided for in the Arkansas River Compact be fully utilized by our States. I will look forward to hearing from you in

the hope that there will be an agreement to arbitrate any areas of disagreement.

I am confident you surely realize I will do all in my power to defend the full rights of Kansans to the benefits of the Arkansas River. As well, I feel my journey evidenced the fact I seek to reach an amicable and out-of-court solution to the current crisis we face.

I hope your response to this letter will be such as to initiate a new era in the resolution of disputes concerning the Arkansas River, an era in which our two States, and not the federal courts, decide the fate of one of our most precious natural resource, the Arkansas River.

Sincerely. /s/ Robert T. Stephan Attorney General

MC

ATTACHMENT D

November 3, 1982

Hon. Robert T. Stephan **Attorney General** State of Kansas 2d Floor Kansas Judicial Center Topeka, Kansas 66612

Dear General Bob Stephan:

In response to your letter of October 12th concerning operations of the Trinidad Reservoir, I have taken the matter under study and will respond to you in detail in the near future.

Very truly yours, /s/ J. D. MacFarlane Attorney General State of Colorado

JDM/irh

cc: Bill Paddock

Jeris A. Danielson State Engineer William McDonald, Director, Water Conservation Board

Enc:

ATTACHMENT E

December 15, 1982

The Honorable J. D. McFarlane Attorney General of Colorado 1525 Sherman Street, Third Floor Denver, Colorado 80203

Dear General McFarlane:

Re: Operations of Trinidad Reservoir

As you are undoubtedly aware, on December 14, 1982, the Arkansas River Compact Administration passed a resolution which, in part, requests that our two offices maintain an effort to resolve the current crisis concerning the Trinidad Reservoir.

As you recall, I presented the Kansas position in a letter dated October 12, 1982, which you later informed me you had received and were studying.

When I realize you will be leaving public office, I am requesting that you and your staff give this matter the utmost consideration. In addition, I believe any involvement on the part of the Attorney General-elect concerning this situation would be of the utmost help. If I can be of any assistance in your study of this issue, or in clarification of the Kansas position, please contact me immediately.

Very truly yours, /s/ Robert T. Stephan Attorney General

MC

ATTACHMENT F

January 10, 1983

The Honorable Robert T. Stephan Attorney General of Kansas Kansas Judicial Center, 2d Floor Topeka, Kansas 66612

RE: Operation of Trinidad Reservoir AG Alpha No. NR WC FBHD AG File No. CNR8300024/MZ

Dear Bob:

I am writing this letter in response to your letters of October 12, 1962 and December 15, 1962. As you know, I am retiring from public office and I desired to consult fully with my successor, Duane Woodward, prior to responding to your letters. That process has now been completed and I am now in a position to respond.

As you recall, our first meeting on this matter was held August 31,

1982 in Denver. Also present at that meeting were all of the relevant water officials of the State of Colorado and the State of Kansas. That meeting was held for the purpose of discussing the operation of Trinidad Reservoir in hopes of defining and resolving the concerns of the State of Kansas.

At the August 31, 1982 meeting, Dr. Jeris Danielson, the Colorado state engineer, provided a detailed discussion of the history of and the manner of administration of the Trinidad Reservoir. In particular, he explained that the Trinidad Reservoir is operated under conditions which insure that the waters of the Arkansas River will not be materially depleted in usable quantity or availability for use to water users in Colorado and Kansas. The administrative conditions which prevent material depletion include inter alia, a reduction in irrigated acreage in Trinidad area by the project ditches from nearly 40,000 acres to 19,717 acres, the cessation of the practice of winter irrigation, and the regulation of storage in Trinidad Reservoir in such a manner that the quantity of water leaving the Trinidad area in the Purgatoire River, as measured at the Thatcher gauge, will remain and be the same during any consecutive ten year period reckoned in a continuous progressive series, as it would have been had the Model Reservoir storage right not been transferred to Trinidad Reservoir. The combination of these and other operating conditions insure that the operation of Trinidad Reservoir does not materially deplete the flows of the Arkansas River.

In addition, Dr. Danielson made at least three other important observations. First, he stated the State of Colorado was vitally interested in insuring that operation of the reservoir does not materially deplete the waters of the Arkansas River because any such depletion would injure Colorado water users as well as Kansas water users. Second, Mr. Danielson stated that all available records indicated that the operation of Trinidad Reservoir has not materially depleted the waters of the Arkansas River in usable quantity or availability to water users in Colorado and Kansas. Finally, Dr. Danielson stated that many of these records had already been made available to Kansas water officials for their review and analysis and that additional information desired by Kansas could be furnished upon request.

Following Dr. Danielson's presentation I explained to you that it was Colorado's view that the Arkansas River Compact was not intended to impede or prevent the future beneficial development of the Arkansas River Basin in Colorado provided that the waters of the Arkansas River were not materially depleted by such development in usable quantity or availability for use to water users in Colorado and Kansas. I also informed you that the State of Colorado was most willing to sit down with officials of the State of Kansas and discuss any evidence which tended to show that the manner of administration of Trintdad Reservoir had materially depleted the waters of the Arkansas River in violation of Art. IV D of the Arkansas River Compact.

After the presentations by the officials of the State of Colorado the floor was turned over to the officials of the State of Kansas. At that time the Kansas officials expressed concern about the storage of water in Trinidad under the Model Reservoir storage right in two consecutive years without first releasing the amount stored in the first year. After

some discussion it was determined that the officials State of Kansas would consider the matter further, define both their legal and factual concerns about the operation of Trinidad Reservoir and report the same to the State of Colorado. As the meeting thus concluded, I had high hopes that the State of Kansas would respond with detailed factual claims regarding material depletion to the Arkansas River by operation of the Trinidad Reservoir and provide a detailed legal justification of the Kansas position. It was my belief that if Kansas were to perform on this undertaking then areas of substantial dispute, if any, could be readily identified. Thereafter a proper manner of dispute resolution, including the potential for arbitration, could be agreed upon.

You apparently do not share my understanding of what Kansas agreed to undertake as a result of our August 31, 1982 meeting. Instead, in your October 12, 1982 letter to me you stated:

At that meeting, I announced I would formally present the requests of the State of Kansas with regard to the present and future operation of the Trinidad Reservoir located on the Purgatoire River, a tributary of the Arkansas River. After consultation with the various agencies of the State of Kansas charged with the protection of Kansas water rights, on behalf of the State of Kansas, I hereby make the following requests:.....

What followed was a series of six demands about not only operation of Trinidad Reservoir, but also the future administration of all water rights in the Arkansas River Basin in Colorado. Each demand contained only a conclusory statement of its legal and factual justification. You then concluded your letter by reminding me that you would do all in your power to defend the full rights of Kansas to the benefits of the Arkansas River but that you desired to reach an out-of-court solution.

While I do not doubt the desire of Kansas to avoid the time and expense of litigation over this matter, I do question whether your current approach to this matter can be productive. I say this because I do not find a letter of six demands on the State of Colorado containing only conclusory factual and legal justifications conducive to amicable dispute resolution. However, I believe a frank exchange of views is required in order to resolve this dispute. Thus, in an attempt to move our discussions in a more productive direction, I will attempt to provide a detailed response to your October 12, 1962 letter that, if fully answered by you, will help refine areas of dispute. It is my hope that through this process you will be able to more precisely identify the basis of the concerns of the State of Kansas and we can then jointly work toward the amicable resolution we both desire.

In paragraph No.1 of your October 12, 1962 letter you demand that approval of the Arkansas River Compact Administration be obtained prior to any future sale, change, transfer or regulation of the waters of the Arkansas River which may affect the flow of water to John Martin Reservoir. First, I am surprised by this demand because it has no relation to our discussion of the operation of Trinidad Reservoir. Moreover, there is no justification in the Arkansas River Compact for such a demand. Particularly, art. VI A(2) of the compact states:

Except as otherwise provided, nothing in this compact shall be

construed as supplanting the administration by Colorado of the rights of appropriators of waters of the Arkansas River in said state as decreed to said appropriators by the courts of Colorado, nor as interfering with the distribution among said appropriators by Colorado, nor as curtailing the diversion and use for irrigation and other beneficial purposes in Colorado of the waters of the Arkansas River.

(emphasis supplied). This provision properly recognizes the substantial interests of the State of Colorado in controlling the use and administration of waters equitably apportioned to it under the compact. It expressly reserves to the Colorado its unquestionable authority to administer and regulate water and water rights within the State of Colorado.

Only in art. V H does the compact confer upon the Arkansas River Compact Administration any authority to require prior approval of any change in water use practices in Colorado by Colorado water users. That provision is limited to a very specific class of water rights and use. In no other situations does the compact contemplate or require prior approval by the administration of any sale, exchange, transfer or regulation of waters of the Arkansas River. Therefore, on behalf of the State of Colorado I cannot agree to the demand in paragraph No. 1 of your letter.

Paragraph Nos. 2, 3 and 4 of your October 12, 1982 letter do deal with administration of Trinidad Reservoir. From reading these demands I conclude that it is the position of Kansas that the unsedimented portion of the joint use capacity of Trinidad Reservoir may never be used to store water for irrigation purposes if such water is stored pursuant to the transferred Model Reservoir storage right. You apparently contend that under no circumstances may more than 20,000 acre-feet of water be stored in Trinidad Reservoir pursuant to the transferred Model Reservoir storage right.

In paragraph No. 2 you assert that such an occurrence violates both art. IV D of the Arkansas River Compact and condition 3 of the Kansas conditions to the "Operating Procedures, Trinidad Dam and Reservoir Project (operating principles)." However, the art. IV D can only be violated if a material depletion in usable quantity and availability of waters of the Arkansas River has resulted. Similarly, Kansas condition No. 3 only relates to significant increases in water use which result in depletion of water yield to other Colorado and Kansas users. In both instances the question is one of material depletion, and as I have previously emphasized to you, depletion is a question of fact. Kansas has simply failed to come forward with any factual basis to support its claims. On the other hand, Colorado has shown that from the available records there is no evidence of material depletion of the waters of the Arkansas River in usable quantities or availability to water users in Colorado and Kansas by virtue of the current storage of water in Trinidad Reservoir.

In paragraph No. 3 in your October 12, 1982 letter you demand that Colorado agree that the storage of more than 20,000 acre-feet in Trinidad Reservoir under the Model Reservoir storage right violates the decree in Civil Action No. 19793, District Court, Las Animas County, Colorado (Model Transfer Decree). You apparently read that

decree to impose a maximum storage limitation. Your conclusion is based on a misunderstanding of Colorado water law which permits reservoirs one annual filing. In addition, the Model transfer decree expressly requires that the storage of water in Trinidad Reservoir under the Model Reservoir storage right be conducted in accordance with inter alia, the conditions of operations of the Trinidad Dam and Reservoir Project prescribed by House Document 325, 84th Congress, 2d Session, January 30, 1956 (House Document 325) as implemented by art. IV of the operating principles. Those conditions for operation expressly contemplate that at certain times more than 20,000 acre-feet may be stored in Trinidad Reservoir pursuant to the Model Reservoir storage right without materially depleting the waters of the Arkansas River.

However, the Model transfer decree does include conditions which prevent injury to downstream water users, including Colorado's obligations under the Arkansas River Compact. Chief among these conditions is the requirement that the storage of water in the Trinidad Reservoir under the Model Reservoir storage right be regulated in such a manner that the quantity and quality of water occurring in the Purgatoire River at the Thatcher gauge below the project area remain and be the same, as determined by the state engineer, during any period of ten years reckoned in a continuous progressive series, as it would have been had the Model Reservoir storage right not be transferred to the Trinidad Reservoir. As you were informed by the state engineer at our August 31, 1982 meeting, based on the best available information, this and the other operating conditions have been complied with. Thus, there is simply no basis for asserting a violation of the terms of the Model transfer decree.

Finally, the courts of the State of Colorado, not the Arkansas River Compact Administration, are the entities responsible for determining compliance with Colorado's judicial decrees. The Arkansas River Compact Administration has been specifically denied that authority by art. VI A of the compact. Thus, inquiry into the compliance with the Model Transfer decree is simply not germane. Rather, the matter at hand requires a determination of whether the operation of the Trinidad Reservoir has materially depleted the waters of the Arkansas River in usable quantity or availability for use to the water users in Colorado and Kansas.

In paragraph No. 4 of your October 12, 1982 letter you demand that Colorado agree that the joint use capacity in Trinidad Reservoir was never intended by the Congress of the United States nor the State of Kansas to provide additional storage space under the Model Reservoir storage right. I fail to see how either of these claims are germane to the question of material depletion of the waters of the Arkansas River. Even if germane, I am unable to determine what the intentions of the State of Kansas were at that time because you have provided me no information from which that intent can be ascertained. However, I do believe that the Trinidad Dam and Reservoir Project as described by House Document 325, as implemented by the operating principles, did contemplate storage in excess of 20,000 acre-feet could occur in Trinidad Reservoir pursuant to the Model Reservoir storage right.

One of the purposes of the project was to provide an improved water

supply to a reduced acreage by preventing winter irrigation practices and by storage of water. The United States Bureau of Reclamation's Irrigation Report on said project expressly contemplated that in some year there would be carry over storage in excess of 20,000 acre-feet without restriction on the amount of storage in the unused sediment capacity in the following year. The operating principles make provision for this by allowing storage for irrigation purposes in the unsedimented portion of the joint-use capacity under the district storage right. The Bureau of Reclamation's Irrigation reports and House Document 325 also expressly contemplated that this practice could occur without materially depleting the waters of the Arkansas River. For these reasons, I do not believe that storage of water in the joint use capacity of Trinidad Reservoir under the Model Reservoir storage right violates the laws of the United States, the Arkansas River Compact, the Model Transfer decree, the conditions of House Document 325 or the operating principles.

There has also been no violation of the five Kansas conditions to the operating principles because those conditions simply do not address storage of water in the joint use capacity of Trinidad Reservoir under the Model Reservoir storage right. To the extent that the State of Kansas believes this was the intent of those conditions, its remedy lies in seeking an amendment to the operating principles, not in accusing Colorado of compact violations.

In paragraph No. 5 you demand that Colorado agree that the water laws of the State of Colorado are subordinate to the provisions of the Arkansas River Compact. I believe this is an overly broad and inaccurate statement of law. The Arkansas River Compact simply apportions the waters of the Arkansas River between Colorado and Kansas but, as shown inter alia by Art. VI A (2), does not make Colorado water law subordinate to all its provisions.

In paragraph No. 6 of your letter you demand that Colorado agree that the questions of law and fact concerning the waters of the Arkansas River as defined in art. III B of the compact are the proper subject of arbitration pursuant to art. VIII D of the compact. This is an inaccurate statement of what art. VIII D of the compact provides. Arbitration under art. VIII D is limited to matters within the purview of the Arkansas River Compact Administration. Simply because a question of law or fact involves the waters of the Arkansas River it does not mean it is within the purview of the Arkansas River Compact Administration. Therefore, I am unable to agree with the demand contained in said paragraph No. 6.

In concluding your letter you stress your belief in the importance of utilizing the arbitration procedures of the compact and express your "hope that there will be an agreement to arbitate any areas of disagreement." As I told you at our August 31, 1982 meeting, before there can be any agreement to arbitration there must first be something to arbitrate. At this point Kansas has simply failed to establish any factual basis supporting a claim of material depletion of the waters of the Arkansas River by the operation of Trinidad Reservoir. Moreover, were such a factual basis established for arbitration Colorado would insist that such arbitration also include Colorado's substantial concerns regarding the use of the waters of the

Arkansas River by Kansas water users. In conclusion, it is my belief that an amicable resolution of this current controversy will only be possible through a full and frank exchange of views, and not by exchange of unwarranted demands supported only by conclusory justifications. I am, by this letter, again attempting to commence the process of a frank exchange of views. I request the State of Kansas to move forward in this same spirit by providing my successor, Duane Woodard, with a detailed response to the views expressed in this letter. If the current dispute cannot be amicably resolved, then the State of Colorado will take all appropriate action to protect her interests from this most recent challenge by the State of Kansas. I sincerely hope that your response to this letter will be such as to avoid the need for renewed litigation over this river we share.

Sincerely, /s/ J. D. MacFarlane Attorney General

JDM:9478:wp

cc: Duane Woodward J. William McDonald Jeris A. Danielson Frank Cooley Carl Genova Leo Idler

ATTACHMENT G

January 24, 1983

The Honorable Duane Woodward Attorney General of Colorado State Services Building 1525 Sherman Street, Third Floor Denver, Colorado 80203

Dear General Woodward:

Re: Operation of Trinidad Reservoir

This letter is in response to your predecessor's January 10, 1983, reply to my letters of October 12, 1982, and December 15, 1982, concerning the controversy surrounding the operation of Trinidad Reservoir. I hope this will be the beginning of a meaningful dialogue between our offices concerning this and the other problems of administering the interstate waters we share.

I wish to emphasize in this letter a point I feel was perhaps lost with General MacFarlane. Our two states have differing views concerning the operation of Trinidad Reservoir, Certain members of the Kansas government, as well as members of Kansas agribusiness economy, hold deep convictions concerning the Arkansas River and its development. Neither the assurances of Dr. Danielson nor General MacFarlane can readily dissuade these convictions.

With the above in mind, I ask you join with this office in a request to the Compact Administration for the arbitration of the Trinidad issue. General MacFarlane indicated he felt more information was needed before any call for arbitration could be heeded. I now present the following information which I feel is extremely relevant.

Persons of good faith and conscious, both in government and the farm community, believe the Trinidad Reservoir at Trinidad, Colorado, has been operated in such a manner as to deprive the downstream users, both in Kansas and Colorado, of their rightful share of water. In Colorado, we find people who believe Trinidad is not being used in such a manner. I believe this is the exact type of situation which calls for the use of neutral third party deliberations. An arbitration panel, consisting of a representative from each of our States and chaired by a neutral third party, would provide the forum necessary for the presentation and resolution of the Trinidad controversy.

While I fully recognize and respect Colorado's right of sovereignty, it is a fact that we share the Arkansas River. This precious resource so vital to our States is one which should, and must, be administered for the benefit of all. Through arbitration, both our States would be given a full and equal opportunity to present their beliefs, facts, and convictions concerning the Arkansas River. It is an opportunity for in-

terstate cooperation which should not be abandoned.

Therefore, I respectfully request that you join with me on February 1, 1983, in Garden City, Kansas, at the special meeting of the Arkansas River Compact Administration in our request for arbitration concerning Trinidad Reservoir. I will be sending a representative to this meeting with instructions to do all he can to seek an amicable resolution to the Trinidad issue. I firmly believe at this time the very most I can do for our States is to seek the enactment of a resolution calling for the arbitration of our current dispute. I sincerely hope you will join with me in that request.

> Very truly yours, /s/ Robert T. Stephan Attorney General

MC

ATTACHMENT H

March 23, 1983

Honorable Robert T. Stephan Attorney General of Kansas Kansas Judicial Center, 2d Floor Topeka, Kansas 66612

Re: Operation of Trinidad Reservoir

I am writing in response to your letter of January 24, 1983. In that Dear General Stephan: letter you advised me that certain members of Kansas government as well as members of Kansas farm communities believe that Trinidad Reservoir at Trinidad, Colorado had been operated in such a manner as to deprive the downstream users in both Kansas and Colorado of their rightful share of water. Neither in your letter nor at any other time have you explained the factual basis for this belief. Yet, on the basis of this belief alone, you asked me to join with you at the Arkansas River Compact Administration meeting to request arbitration concerning Trinidad Reservoir.

It is, of course, a factual question whether, by the operation of Trinidad Reservoir, the waters of the Arkansas River have been materially depleted in usable quantity or availability for use to water users in Colorado and Kansas. Throughout this controversy it has been the view of the State of Colorado, based on the factual information known to it, that no water users in Colorado and Kansas have been deprived of water to which they are legally entitled by virtue of the operation of Trinidad Reservoir. The factual basis for this view has been explained to the government officials of the State of Kansas and factual data supporting this view has been supplied to the proper Kansas officials. The State of Colorado hoped that by so doing the State of Kansas would, either by use of the data provided or with information known to Kansas, identify and explain to Colorado the factual basis for its claims. To aid in this process this office, by letter dated January 10, 1983, provided you with a detailed written explanation of the views of Colorado and invited a similarly detailed response. Through this process Colorado had hoped to encourage a full and frank exchange of views and information which would lead to an amicable resolution of this dispute. Unfortunately, to date the State of Kansas has not responded with any explanation of the factual basis for its claims.

For a matter to be subject to arbitration under the Arkansas River Compact, it must be a matter within the purview of the administration. Arkansas River Compact, Art. VIII D. Due to the failure of the State of Kansas to identify the underlying factual basis for its claims, I am unable to determine whether arbitration is an appropriate method for dispute resolution. For these reasons, I will not join your request to the Arkansas River Compact Administration for arbitration concerning the operation of Trinidad Reservoir. Instead, I sincerely hope you will encourage the appropriate officials of the State of Kansas to identify and explain to Colorado the factual basis for the claims of the State of Kansas. When Kansas has done so, the precise basis of the dispute can be defined and the proper method for its resolution can be chosen.

Very truly yours, /s/ Duane Woodard Attorney General

DW:mb

cc: J. Wm. McDonald Jeris A. Danielson Frank Cooley Carl Genova Leo Idler

bcc: Robert W. Jesse Charles B. Howe Joel W. Cantrick Janet Miller Clyde Martz, Esq.

ATTACHMENT I

AMENDED RESOLUTION CONCERNING OPERATION OF TRINIDAD RESERVOIR

I

WHEREAS, on the 30th day of June, 1980, the Arkansas River Compact Administration found as follows:

- 1. It has come to the attention of the Arkansas River Compact Administration that 18,290 acre-feet of water stored under the Model Reservoir water right in Trinidad Reservoir during Compact Year 1979 was transferred to the joint use pool on September 28, 1979, by action of the Board of Directors of the Purgatoire River Water Conservancy District without objection from the Division Engineer for Division II, Colorado Division of Water Resources;
- An additional 20,000 acre-feet was stored in Trinidad Reservoir under the Model Storage Right during Compact Year 1980;
- The State of Kansas has questioned whether or not these actions are in conformity with the operating principles for Trinidad Reservoir;

WHEREAS, pursuant to the above, the Compact Administration resolved that pursuant to Article VIII, ¶ H of the Arkansas River Compact, the Compact Administration should cause an investigation to be made of these circumstances; and

WHEREAS, pursuant to the above, the Compact Administration further resolved that this investigation should be accomplished on behalf of the Compact Administration by the Colorado Water Conservation Board and the Kansas Division of Water Resources, which entities should conduct said investigation as promptly as possible and report their determinations to the Compact Administration as soon as

possible after the adoption of this resolution; and

WHEREAS, a report was submitted by Mr. Guy E. Gibson, Chief Engineer/Director, Division of Water Resources, Kansas State Board of Agriculture, and J. William McDonald, Director, Colorado Water Conservation Board, on the 25th day of September, 1980, pursuant to the Compact Administration's resolution of the 30th day of June, 1980;

WHEREAS, said report found in part that 18,290 acre-feet of water was stored by the Purgatoire River Water Conservancy District under the Model Storage Right in Trinidad Reservoir in priority between April 15, 1979, and September 28, 1979; that the Purgatoire River Water Conservancy District transferred this amount of water into the joint use pool of Trinidad Reservoir by resolution on September 28, 1979, thereby leaving the Model Storage account empty, and that this water was still physically located behind Trinidad Dam on June 30,

WHEREAS, said report further found in part, that 20,000 acre-1980: and feet of water was stored by the District under the Model Storage Right in Trinidad Reservoir in priority during the period April 16, 1980, through May 17, 1980. This water was physically stored behind Trinidad

Dam and in the Model Reservoir accounts of June 30, 1980;

WHEREAS, subsequent investigation by Howard Corrigan, Water Commissioner, Garden City, Kansas, Division of Water Resources, Kansas Board of Agriculture, has shown that during irrigation year beginning April 15, 1981, and ending October 14, 1981, an additional quantity of 28,310 acre-feet of water was stored in Trinidad Reservoir by the District under the Model Storage Right.

WHEREAS, subsequent investigation by Howard Corrigan, Water Commissioner, Garden City, Kansas, Division of Water Resources, Kansas Board of Agriculture, has shown that during the irrigation year beginning April 23, 1962, and ending October 14, 1982, an additional quantity of 11,914 acre-feet of water was stored in Trinidad Reservoir by the District under the Model Storage Right.

П.

WHEREAS, the United States Department of the Interior, Bureau of Reclamation, Region 7, Denver, Colorado's Irrigation Report on the Trinidad Project, Colorado, A Corps of Engineers Project, Upper Arkansas River Basin, Volume 1, July, 1964 (Revised September, 1964), states in part:

All waters delivered to the 19,717 acres of District irrigable area will be limited during the irrigation season to the irrigation requirements of the farm headgate as determined by the District. Allowance for canal and lateral losses on the individual ditch system will also be determined by the District.

(Article IV, ¶ B(2).) WHEREAS, the water requirements as determined under Part IV (Page 13) Table 3 indicate the computed average water requirements for the Trinidad Project at 3.10 acre-feet of water per acre of land; and

WHEREAS, the total water applied for lands irrigated by the Trinidad Project in 1979 was 4.3 acre-feet of water per acre of land, and in 1980 was 4.7 acre-feet of water per acre of land; and

WHEREAS, such excessive uses of water by the Purgatoire Water Conservancy District deprived downstream Kansas and Colorado water users of 6,963 acre-feet of water in 1979 and 14,278 acre-feet of water in 1980.

III.

NOW, THEREFORE, BE IT RESOLVED, that pursuant to Article VIII, ¶ H of the Arkansas River Compact, the Compact Administration finds as follows:

1. The transfer of 18,290 acre-feet of water stored by the Purgatoire River Water Conservancy District under the Model Storage Right in Trinidad Reservoir in priority between April 15, 1979, and September 28, 1979, by resolution of the Purgatoire River Water Conservancy District Board on September 28, 1979, into the joint use pool of Trinidad Reservoir deprived Colorado and Kansas downstream water users of their equitable share of the waters of the Arkansas River, as defined in Article III, ¶ B of the Arkansas River Compact and, therefore, violates Article IV, ¶ D of the Arkansas River Compact which provides: "(T)he waters of the Arkansas River, as defined in Article III, shall not be materially depleted in usable quantity or availability for the use to the water users in Kansas and Colorado under this contract by future development or construction." Said action also violates Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project, which provides that "there will be no significant increase in water use which would result in the depletion of water yield to other Colorado and Kansas users."

2. The storage of 18,290 acre-feet of water of the total 20,000 acre-feet of water stored by the district under the Model Storage Right in Trinidad Reservoir in priority during the period April 16, 1980, through May 17, 1980, was in violation of the court decree of the District Court in and for the County of Las Animas, Colorado, Civil Action No. 19793, dated April 15, 1965, which states in part: "The petitioners may store out of the waters of the Purgatoire or Las Animas Rivers in Trinidad Reservoir under priority No. 10, appropriation priority No. 168, and water district No. 19, and the date of the appropriation January 22, 1908, up to 20,000 acre-feet of water in Trinidad Reservoir..."; Article IV, \$\Pi\$ D of the Arkansas River Compact, and Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project.

3. The storage of 28,310 acre-feet of water by the District under the Model Storage Right in Trinidad Reservoir during the period April 15, 1981, through October 14, 1981, was in violation of the court decree of the District Court in and for the County of Las Animas, Colorado, Civil Action No. 19793, dated April 16, 1965; Article IV, ¶ D of the Arkansas River Compact, and Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project.

4. The storage of 11,914 acre-feet of water by the District under the Model Storage Right in Trinidad Reservoir during the period April 23, 1982, through October 14, 1982, was in violation of the court decree of the District Court in and for the County of Las Animas, Colorado, Civil Action No. 19793, dated April 16, 1965; Article IV, ¶ D of the Arkansas River Compact and Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project.

5. The joint use capacity in Trinidad Reservoir was never intended by the Congress of the United States nor the State of Kansas to provide additional storage space under the Model Storage Right and, in practice, has been turned into such, in violation of the laws of the United States, the Arkansas River Compact, the District Court of Las United States, the Arkansas River Compact, the District Court of Las Animas County, Colorado's, order of April 15, 1965, in Case No. 19793, the conditions of operations of the Trinidad Dam and Reservoir Project prescribed by House Document No. 325, 84th Congress, Second Session, January 30, 1956, as implemented by Article IV of the "Operating Principles of Trinidad Dam and Reservoir Project" which is appended to Volume 1 of the United States Bureau of Reclamations' Irrigation Report on said Project (revised September, 1964), as well as the five operating principles approved by the State of Kansas and attached to the Operating Principles, Trinidad Dam and Reservoir Project.

6. The Purgatoire Water Conservancy District is in violation of Part IV (Page 13) Table 3 of the Operating Principles established under the United States Department of the Interior, Bureau of Reclamation, Region 7, Denver, Colorado's Irrigation Report on the Trinidad Project, Colorado, a Corps of Engineers Project, Upper Arkansas River Basin, Volume 1, July, 1964 (Revised September, 1964, and Article IV, ¶ D of the Arkansas River Compact which provides:

The waters of the Arkansas River as defined in Article III shall not be materially depleted in usable quantity or availability for the use to the water users in Kansas and Colorado under this Compact by future development or construction, and Condition 3 of the Kansas Conditions to the Operating Procedures of Trinidad Dam and Reservoir Project.

BE IT FURTHER RESOLVED, that the Compact Administration recommends to the chief official of the State of Colorado charged with the administration of water rights in the State of Colorado that he issue an order for the release of 58,514 acre-feet of water from the Trinidad Reservoir in such a manner as to be most beneficial to downstream Colorado and Kansas users, with such release beginning no later than

BE IT FURTHER RESOLVED, that the Compact Administration recommends to the chief official of the State of Colorado charged with the administration of water rights in the State of Colorado that prior to the implementation of any future sale, exchange, transfer, or regulation of the waters of the Arkansas River, as defined in Article III, ¶ B of the Arkansas River Compact, that may affect the flow of water into the John Martin Reservoir, the Arkansas River Compact Administration, established under Article VIII of the Arkansas River Compact, shall be consulted and the approval shall be obtained for said sale, exchange, transfer, or regulation.

ATTACHMENT J

1. Pueblo Reservoir Operation Orders for the following canal companies:

CF&I Steel Corporation Bessemer Irr. Ditch Co. West Pueblo Ditch Co. Hamp-Bell Comanche Power Plant Riverside Dairy

City of Pueblo Excelsion

Collier

The Colorado Canal Co. High Line Canal Co.

Oxford Farmers Ditch Co.

Otero

Catlin Canal Co.

Holbrook Canal Co.

Rocky Ford Ditch Co.

Las Animas Canal Co.

St. Charles Mesa

Pueblo West

Beaver Park

Lamar Canal

Town of Olney Springs

Fort Lyon Canal Co.

- 2. Pueblo Reservoir Interim Accounting Sheets June 1975-December 1982
- 3. Winter Water Accounts March 1976-September 1977

March 1979-December 1982

4. Compilation reports of Winter Water Storage in Pueblo Reservoir 1975-76, 1976-77, 1978-79, 1979-80, 1980-81 and 1981-82

ATTACHMENT K

RESOLUTION CONCERNING THE PUEBLO RESERVOIR OPERATING PLAN

WHEREAS, on July 24, 1951, prior to the construction of Pueblo Reservoir, the following Resolution was adopted by the Arkansas River Compact Administration which stated in part:

"There shall be no re-regulation of the native waters of the Arkansas River as proposed in such report until a plan of operation, rules, regulations, procedures and agreements in

furtherance thereof, including all pertinent agreements between the Corps of Engineers and the Bureau of Reclamation, shall have been submitted to, and approved by the Arkansas River Compact Administration and the affected water users."

WHEREAS, no such plan of operation, rules, regulations or procedures and agreement have ever been submitted to the Arkansas River Compact Administration for approval and no such operating plan has ever been approved.

NOW, THEREFORE, be it resolved that a draft of the operating plan, as described above, shall be presented by the State of Colorado Compact members to the Arkansas River Compact Administration for approval no later than May 1, 1983.

FURTHER, Be it resolved that the plan of operations shall include,

but not be limited to, the following provisions:

1. That there shall be an annual review of the actual operation of Pueblo Reservoir to determine if any water was impounded in Pueblo Reservoir that would have reached John Martin Reservoir if Pueblo Reservoir had not existed.

2. That this review shall be made by a representative of the Division of Water Resources of the Kansas State Board of Agriculture and a representative of the Colorado State Engineer's office.

3. That this review shall begin no later than April 1 of each year and shall be completed no later than the following May 31st.

4. That the findings of this review shall be submitted to this

Administration upon completion.

5. That if it is found that water was stored in Pueblo Reservoir that would have reached John Martin Reservoir, then this amount of water shall be released from Pueblo Reservoir and protected down to John Martin Reservoir no later than August 1 following the improper storage.

ATTACHMENT L

RESOLUTION CONCERNING THE PUEBLO RESERVOIR **OPERATING PLAN**

WHEREAS, on July 24, 1951, prior to the construction of Pueblo Reservoir, the following Resolution was adopted by the Arkansas River Compact Administration which stated in part:

"There shall be no re-regulation of the native waters of the Arkansas River as proposed in such report until a plan of operation, rules, regulations, procedures and agreements in furtherance thereof, including all pertinent agreements between the Corps of Engineers and the Bureau of Reclamation, shall have been submitted to, and approved by the Arkansas River Compact Administration and the affected water users."

WHEREAS, no such plan of operation, rules, regulations or procedures and agreements have never been submitted to the Arkansas River Compact Administration.

NOW, THEREFORE, be it resolved that the Administration requests the State of Colorado to submit an operating plan for Pueblo Dam and Reservoir to the Administration in order that the Administration can review the plan for compliance with Article IV. D. of the Arkansas River Compact.

ATTACHMENT M February 28, 1983 AGREEMENT

- 1. This agreement will expire November 1, 1983.
- 2. Colorado and Kansas will cooperate in all release rates to secure the most efficient delivery of water to the Stateline and to Kansas water
- 3. Credit for delivery to Kansas will stop at the Stateline 7 days after the end of the run at John Martin Reservoir. No credit for over delivery will be carried forward to any subsequent run.
- 4. 35% of all "other water" will be transferred into Kansas transit loss account. In the event that water in Kansas transit loss account exceeds the transit loss at the end of the irrigation year, the excess balance will be transferred into the Kansas and Colorado storage

/s/ Howard C. Corrigan, Hydrologist Kansas State Board of Agriculture Division of Water Resources

/s/ Robert W. Jesse Colorado Division Engineer

ATTACHMENT N

RESOLUTION

BE IT RESOLVED BY THE ARKANSAS RIVER COMPACT AD-

WHEREAS, Guy E. Gibson, Chief Engineer-Director, Division of MINISTRATION Water Resources, Kansas State Board of Agriculture, has served as a Representative of the State of Kansas on the Arkansas River Compact Administration since 1972; and

WHEREAS, Mr. Gibson has voluntarily elected to retire from the office of Chief Engineer-Director, Division of Water Resources, and from the Arkansas River Compact Administration; and

WHEREAS, Mr. Gibson has contributed his professional knowledge, ability and services to the Arkansas River Compact Administration;

NOW THEREFORE, BE IT RESOLVED, that the Arkansas River Compact Administration does hereby acknowledge the outstanding contribution of Guy E. Gibson to this Administration and to the States of Colorado and Kansas and express appreciation to Mr. Gibson and extend to him the best wishes of each member of this Administration for continued good health and happiness in all his future endeavors.

BE IT FURTHER RESOLVED, that this resolution be entered into the records of this Administration and that the Secretary be instructed to send a copy to Mr. Gibson.

Entered this 25th day of March, 1983 at a special meeting of the Arkansas River Compact Administration in Garden City, Kansas. /s/ Leo Idler /s/ Frank G. Cooley Recording Secretary

Chairman

APPENDIX "C-4"

MINUTES OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

SPECIAL MEETING

August 26, 1983 Denver Federal Center Denver, Colorado

A special meeting of the Arkansas River Compact Administration was held at the Denver Federal Center in Denver, Colorado, on August 26, 1983. The agenda for the meeting is included as Attachment A.

The meeting was called to order at 9:00 (MDT) by Mr. Frank Cooley, Chairman and United States representative. Administration members in attendance were:

For Kansas:

Carl E. Bentrup — Deerfield, Kansas Ronald Olomon — Garden City, Kansas David Pope — Topeka, Kansas

For Colorado:

Carl Genova — Pueblo, Colorado Leo Idler — Lamar, Colorado

J. William McDonald — Denver, Colorado

After the introduction of Administration members, Agenda Item #4 was corrected to read "Report of the Treasurer." The agenda as corrected was approved.

The next item was the approval of Minutes of the December 14, 1982 meeting. Mr. McDonald advised that there was a change to the draft minutes. The correction was on page 8, paragraph 4. The concluding 3 words should read "any given time," rather than "any given year." An editorial change recommended by Mr. McDonald to Attachment E was the inclusion of the following title to the first sheet after the Operations Committee Report: "Report of the Colorado Division Engineer, November 12, 1982." The minutes, with these two changes, were approved and signed by Mr. Cooley.

There were no corrections to the Minutes of the Special Meeting of March 25, 1983. These were also approved and signed by Mr. Cooley.

The next item was the disposition of the tape recordings made of the Administration's meetings. After a general discussion, it was concluded that the official records of the meetings are the written minutes as approved by the Administration. However, it was agreed that the tapes would be preserved by the Administration until a decision was reached on their final disposition.

The next item, Agenda Item #4, was a brief presentation of the

Treasurer's Report by Mr. Idler. Mr. Idler submitted a copy of the audit for the fiscal year ending June 30, 1983 (Attachment B), a copy of checks written since December 14, 1982 (Attachment C), a copy of the most recent bank statement (Attachment D), a copy of the most recent savings account statement (Attachment E), and copies of the Administration's F.Y. 83-84 and F.Y. 84-85 budgets (Attachments F & G)

Mr. McDonald noted that the audit report reflected that the assessment paid by Colorado was about \$3.70 more than was actually paid by Colorado. He requested that Mr. Idler ask for a letter of clarification from the auditors about this error.

The next item was a review of the previously approved F.Y. 1983-84

and F.Y. 1984-85 budgets.

Mr. McDonald stated that Colorado's assessment for 1983-84 had been paid but that there may be problems next year. Mr. Pope stated that Kansas had also paid its 1983-84 assessment. Mr. Jim Blakey, U.S.G.S., stated that the 1983-84 Cooperative Agreement for \$12,000 was satisfactory. It was concluded that there were no changes required in the F.Y. 1983-1984 budget as previously adopted.

Mr. McDonald then stated that the 1984-85 budget had been previously approved and was presented for review to see if any changes were required. Mr. Hughes presented a brief discussion of U.S.G.S. activities in Colorado to be funded by the cooperative agreement. A copy of a letter from Mr. Jerry Hughes to Mr. Cooley detailing the U.S.G.S. program in Colorado is included as Attachment H. Mr. Livingston then briefly outlined the U.S.G.S. program in Kansas for F.Y. 1984-85 (Attachment I). The Administration concluded that the U.S.G.S. program was consistent with the budget and that no changes were required in the budget.

At this time, several persons from Kansas and Colorado were introduced and the meeting was then recessed from 9:50 a.m. to 10:25 a.m.

After recess, Agenda Item #6, Report of Operations Secretary, was postponed and Mr. Cooley went to Agenda Item #7, Reports of the Federal Agencies. Mr. Bentrup then read two statements (Attachment J and K) into the record concerning Trinidad Reservoir and Pueblo Reservoir

Mr. Cooley then invited Colorado to respond to Mr. Bentrup's statements. Mr. William Paddock, First Assistant Attorney General, Colorado Department of Law, stated that Kansas was misinterpreting the operating principles for Trinidad Reservoir as well as the authority of the Administration under the Arkansas River Compact. He noted that the operating principles for Trinidad Reservoir were fully explained to Kansas at the time they were being developed and that Kansas give its accent to them subject to five conditions. The project contemplated a reduction in the then irrigated acreage, which has in fact occurred, to provide a full water supply to the project lands. Necessarily, the project contemplated carryover storage and contemplated storage in the reservoir in excess of 20,000 acre-feet.

Mr. Paddock stated that it is the position of the State of Colorado that the operating criteria have been complied with each and every year and that no more water than the Purgatoire Water Conservancy

District was entitled to store under its various water rights had been stored. He also stated that under the Arkansas River Compact construction of dams and reservoirs is permitted so long as the waters of the Arkansas River are not materially depleted thereby. He stated that it is the position of the State of Colorado that the Trinidad project has caused no such material depletion to the waters of the Arkansas River.

With respect to the Fryingpan-Arkansas Project, Mr. Paddock asserted that Kansas misinterpreted the Arkansas River Compact and the authority of the Administration. He pointed out that in paragraph number 3 of the full resolution adopted by the Administration in 1951,

the following statement appears:

... that regulation of the native waters of the Arkansas concerns the Arkansas River Compact Administration and both Colorado and Kansas in complying with the provisions of the Arkansas River Compact in maintaining the benefits and obligations of the two states under that compact. To that end it is recommended to the governors of Kansas and Colorado and expressed as a policy of the Arkansas River Compact Administration that there be no reregulation of native waters.

Mr. Paddock stated that that paragraph makes clear that the Administration understood at that time, as it should understand now, that it does not administer water rights in Colorado and that in 1951 it was only making a policy statement and recommendation to the Governors of the states, and did not purport to bind them. Mr. Paddock concluded that Kansas' interpretation of the effect of the Administration's 1951 resolution is erroneous.

The next item on the agenda was the presentation by the Corps of Engineers. Mr. Cooley requested that Col. Emory Pylant, Albuquerque District, make his presentation. Col. Pylant read a prepared statement

into the record. This statement is included as Attachment L.

Considerable discussion then ensued among members of the Administration, Corps personnel, and Mr. Bob Jesse, Colorado Division Engineer, concerning the flood control space in Trinidad Reservoir and the operation of the reservoir to temporarily detain inflows which exceed downstream channel capacity. Questions concerning the Corps' role in flood control operations vis-a-vis that of the Division Engineer were also discussed. There was also a discussion of the channel capacity below Trinidad.

Mr. McDonald then asked Col. Pylant whether his two main conclusions - that there was no action of which the Corps was aware that had violated either the Compact or federal law and that the current differences between Kansas and Colorado were not ones into which the Corps should be interjected — were made with respect to the operation of both Trinidad and Pueblo Reservoirs. The Colonel responded that his conclusions were made with respect to both reservoirs. He added that the Corps had complied with state law as well as the Compact and

Mr. Howard Corrigan, Kansas Water Commissioner, then brought up what appear to be discrepancies between Corps and U.S.G.S. storage records on Trinidad Reservoir. Mr. John Cunico, Albuquerque District, stated that the Madrid gage is a poorly located gage and gives a poor record. He noted that the Corps uses the change in storage and

outflow, rather than an inflow-outflow relationship, to determine what is happening. Mr. Hughes agreed that the Madrid gage was poor. He stated that the USGS operates two gaging stations above and two stations below Trinidad, as well as a stage recorder at Trinidad. However, he could not say which of the records were more accurate. Mr. Cooley requested that the Corps and the U.S.G.S. look into this matter and report to the Administration. A letter to the Administration dated September 28, 1963 was subsequently received from Mr. Hughes and is included herein as Attachment M.

Mr. Cooley then requested that Mr. Bill Martin make the presentation for the Bureau of Reclamation. After a general presentation on the Bureau's responsibilities, Mr. Martin asked that Mr. Ray Wilms, Fryingpan-Arkansas Project, to explain the project manager,

operation of the project.

Mr. Wilms explained that the Bureau planned, constructed, and now operates the Fryingpan-Arkansas Project. The project's primary purpose is to divert water from the Colorado River basin to the Arkansas River basin for irrigation, municipal and industrial purposes. The project authorization also recognized the possibility of a winter storage program whereby decreed rights could be stored and used in a more effective manner. Mr. Wilms then described the physical facilities on the east and west slopes. With respect to Pueblo Reservoir, the Corps of Engineers sets the flood control criteria and the Colorado Division Engineer and the Bureau operate the system in accordance with these criteria. The present flood control criteria is that a flow of no more than 6000 cfs is to be maintained at the Avondale gage.

With respect to Trinidad Reservoir, Mr. Wilms noted that the Bureau planned the use of the conservation storage, prepared a report to Congress, drafted the operating criteria, and negotiated with the

conservancy district. The Corps now operates the project.

Mr. Bentrup stated that it is Kansas' position that the Administration has an interest in securing a plan of operation for Pueblo Reservoir. A brief discussion on the authorizing legislation for the Fryingpan-Arkansas project ensued. There followed a brief discussion on whether the Administration's 1951 Resolution, which applied to the then proposed Gunnison-Arkansas project, was applicable to the Fryingpan-Arkansas project.

The meeting was then recessed for lunch at 11:55 a.m. and recon-

vened at 1:20 p.m.

Messrs. Bentrup and Pope reiterated Kansas' position that the 1951 Resolution applied to the operation of Pueblo Reservoir. Mr. Pope stated that the federal government has an obligation to operate the reservoir in compliance with the Compact as well as state law. Mr. Martin responded that the Bureau believes that it is operating in compliance with the Compact because it assumes that the directions it receives from the Colorado Division Engineer for operation of the gates are not inconsistent with the Compact. Kansas restated its position that an operating plan for Pueblo Reservoir should be submitted to the Administration for its approval as per the 1961 Resolution.

Mr. Cooley then requested that Mr. Charles Thomson, general manager, Southeastern Colorado Water Conservancy District, explain the operation of Pueblo Reservoir under the winter storage program. Mr. Thomson briefly reviewed the voluntary winter storage program and stated that Kansas had been on the mailing list since the beginning of the winter storage program and had been advised on a regular basis.

Mr. Bentrup acknowledged that they had been kept informed, but stated again that the Administration should have input into the operation of Pueblo Reservoir both with respect to winter storage, as well as flood flows originating above the reservoir.

Mr. Pope asked if Mr. Thomson objected to submitting an operating plan to the Administration for its consideration. Mr. Thomson stated that he could do that. Mr. McDonald stated that he wanted the record to be clear that Colorado has no objection to the Administration discussing, reviewing, and commenting on any such plan. However, it is Colorado's position that the Administration has no authority to approve any such plan or prevent its implementation if it does not like the plan.

There followed a further discussion of storage in Trinidad Reservoir. Mr. Bentrup reiterated Kansas' objection to the storage of more than 20,000 acre-feet under the Model Storage decree at any given time. In Kansas' view this violates the five Kansas conditions. He asserted that Kansas would not have approved the operating principles if storage pursuant to the Model decree had not been limited to 20,000 acre-feet. Mr. Pope added that it was the Bureau that developed the project and that it was on the Bureau's assurances that certain conditions would be met that Kansas agreed. Now, he stated, these conditions were not being met.

Mr. Tom Gibbons, Bureau of Reclamation, stated that there are provisions in the operating principles that prevent depletions greater than those that occurred historically. The Thatcher gage is the location at which depletions are measured.

Mr. Cooley asked Mr. Clyde Martz, legal counsel to the Purgatoire Water Conservancy District, to comment on this matter. Mr. Martz stated that the Bureau had made extensive studies during the project's formulation and that these studies contemplated carryover storage from year to year to cover uses in dry years and avoid surpluses in wet years. The Bureau's studies did not, he asserted, limit storage under the Model decree beyond limitations required under Colorado law and Colorado law permits the carryover of water from year to year. He said that this was in the report presented to Kansas and that it was on the basis of that report that the Water Resources Board of Kansas advised Colorado that the proposed Trinidad Reservoir would not materially deplete the water supply of the Purgatoire River provided that the five Kansas conditions were met. He stated that it was the District's position that Trinidad Reservoir is in strict compliance with each of those conditions, as well as the operating principles.

Mr. Bentrup asked Mr. Martz to comment on the limits of water use (application per acre). Mr. Martz stated that the 3.2 acre-foot per acre figure used by the Bureau was developed for repayment calculations only and did not necessarily represent the diversion rights of the ditches involved.

Mr. McDonald at this time left the meeting.

Mr. Cooley requested Mr. Blakey to make the presentation for the

U.S.G.S. at. Blakey stated that the purpose of the U.S.G.S. was to provide basic data, information, analyses and reports to help in the administration of the Compact. He then called on Mr. Hughes to give a brief summary of the present and future activities of the $\bar{\mathrm{U}}.\mathrm{S.G.S.}$

Mr. Hughes stated that the U.S.G.S. collects data at 53 surface water stations and numerous groundwater wells throughout the Arkansas River Basin and that this data is available from WAT-STORE, in a computerized data storage system, and a book called "Data for Colorado." The Survey has also prepared and published numerous surface and groundwater studies and investigations. At the present the Survey is preparing a comprehensive water quality and water quantity model for the Arkansas from Leadville to the Colorado-Kansas stateline. There followed several general questions on the U.S.G.S. program.

The next item, Agenda Item #6, was Mr. Jesse's report as the Operations Secretary. Mr. Jesse briefly reviewed the activities of the Operations Secretary. His comments and financial statement are at-

tached (Attachment N).

Mr. Jesse reported that at the height of the 1983 spring runoff out of Pueblo Reservoir, a sewer line ruptured in the Arkansas River channel in the City of Pueblo. Consequently, reservoir releases were reduced from about 5,000 cfs to 200 cfs for a short period. Of the 10,000 acrefeet stored about 7,000 belonged to the intervening ditches and the other 3,000 belonged to John Martin Reservoir. After repair of the sewer line, the 3,000 acre-feet was delivered to John Martin Reservoir.

Also, about 25,000 acre-feet was stored in Pueblo Reservoir to prevent the flow at the Avondale gage from exceeding 6,000 cfs. This water was later delivered to the appropriate persons or locations as

soon as flows went below 6000 cfs.

Mr. Pope questioned Mr. Jesse on the quantities of water used per acre on the Trinidad project lands. He said that Kansas' figures indicated as much use as 16 acre-feet per acre. Mr. Jesse responded that his jurisdiction extends only to the headgate and that he was not specifically advised of any waste of water, did not notice any flagrant waste, and had not made any specific investigations.

Mr. Cooley asked if Mr. Jesse had an opinion regarding the accuracy of the U.S.G.S.'s and the Corps' Trinidad Reservoir storage data. Mr. Jesse stated that he did not. Because the state calculates storage each day in concert with the Corps, he did not know how the U.S.G.S. did it. The state's records and data sheets are identical to the

Corps'.

Mr. Bentrup again raised the issue of crop water requirements and alleged excessive water application on the Trinidad project lands. He felt that more water was used than needed and this prevented water

from coming down the river to John Martin Reservoir. Mr. Cooley asked Mr. Leo Pollart to speak to the Amity Canal Company's 50,000 acre-feet transfer to John Martin Reservoir. Mr. Pollart responded that they would like to see the Amity's account separated from the general accounts system under the resolution for the John Martin Reservoir operating plan. Mr. Cooley stated that Amity's attorney should send a letter to the Administration on this

There being no further business to come before the Administration, Mr. Cooley adjourned the meeting at 3:45 p.m.

The foregoing minutes were adopted on May 10, 1984, at a Special Meeting of the Administration held in Las Animas, Colorado. /s/ Carl E. Bentrup /s/ Leo Idler Vice Chairman **Recording Secretary** for Frank Cooley Chairman

ATTACHMENT A

Special Meeting of the **Arkansas Compact Administration** 9 a.m. (MDT) Friday, August 26, 1983 Room E2411, Building 20 Lower Missouri Region, Bureau of Reclamation Denver Federal Center (West 6th Avenue & Kipling) Denver, Colorado

- 1. Call to order
- 2. Approval of agenda
- 3. Approval of minutes
 - a. December 14, 1982, annual meeting
 - b. March 25, 1983, special meeting
 - c. Disposition of tape recordings of meetings
- 4. Report of Recording Secretary
- 5. Budget matters
 - a. Review of previously approved FY 83-84 assessments and budget
 - b. Review of previously approved FY 84-85 assessments and budget
- 6. Report of Operations Secretary
- 7. Reports from federal agencies on Trinidad and Pueblo Reservoirs
- a. Bureau of Reclamation
 - b. Corps of Engineers
 - c. Geological Survey

Marine and the second of the property of the

8. Adjournment

ATTACHMENT B

ARKANSAS RIVER COMPACT ADMINISTRATION CASH BASIS FINANCIAL STATEMENTS JUNE 30, 1983 with REPORT OF INDEPENDENT

CERTIFIED PUBLIC ACCOUNTANTS

Crimond, Farmer & Company Certified Public Accountants 203 East Oak, P.O. Box 1173, Lamar, CO 81952

ARKANSAS RIVER COMPACT ADMINISTRATION CASH BASIS FINANCIAL STATEMENTS JUNE 30, 1983

ARKANSAS RIVER COMPACT ADMINISTRATION INDEX TO CASH BASIS FINANCIAL STATEMENTS JUNE 30, 1983

·]	Page
Index to Cash Basis Financial Statements	1 1
Accountants' Letter	
Statement of Assets & Liabilities Arising from Cash Transactions	
from Cash Transactions	
Statement of Cash Receipts & Disbursements and Changes in Cash Balance	
and Changes in Cash Balance	
Statement of Cash Receipts & Disbursements	4
Statement of Cash Receipts & Disbut Schools with Budget	5
with Budget Notes to Cash Basis Statements	

Crimond, Farmer & Company Certified Public Accountants

To the Representatives Arkansas River Compact Administration Lamar, Colorado 81052

We have examined the Statement of Assets & Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1983, and the Statement of Cash Receipts and Disbursements, Changes in Cash Balance and the Statement of Cash Receipts and Disbursements with Budget Comparison for the year ended June 30, 1983. Our examination was conducted in accordance with generally accepted auditing standards, and accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

accompanying statements are prepared on the cash basis of accounting and accordingly they are not intended to be presented in conformity

with generally accepted accounting principles.

In our opinion, the financial statements present fairly the Assets & Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1983, and the results of Cash Transactions for the year then ended on a basis consistent with the previous year.

> Crimond, Farmer & Co. **Certified Public Accountants**

August 8, 1983 Lamar, Colorado

ARKANSAS RIVER COMPACT ADMINISTRATION STATEMENT OF ASSETS & LIABILITIES ARISING FROM CASH TRANSACTIONS JUNE 30, 1983

ASSETS:	
Cash & Savings	toc or a
Equipment	PJ0,354
Concrete Control	9,584
Concrete Control	8,000
TOTAL ASSETS	53.938
LIABILITES	,
CASH BASIS EQUITY:	
Expended:	
Equipment	0.504
Concrete Control	9,584
Unexpended:	
	36,354
TOTAL CASH BASIS EQUITY — Note 1a	53.938
TOTAL LIABILITIES & CASH BASIS EQUITY	\$53 938
	-
The accompanying notes are an integral part of the fin statements.	ancial

ARKANSAS RIVER COMPACT ADMINISTRATION STATEMENT OF CASH RECEIPTS & DISBURSEMENTS & CHANGES IN CASH BALANCE FOR YEAR ENDED JUNE 30, 1983

CASH BALANCE, JULY 1, 1982 RECEIPTS:	\$37,799
Revenue from Assessments:	
Colorado	
Kansas 7,736	
Interest	
Miscellaneous	
TOTAL RECEIPTS	99 147
DISBURSEMENTS:	. 22,141
Insurance 100	
Geological Survey	
Geological Survey 10,845	105

	2,483	
Equipment	250	
Payroll Taxes	. 1,336	
Travel & Meetings	1.927	
Travel & Meetings Secretarial		. 23,592
TOTAL DISBURSEMENTS		(1,445)
EXCESS OF RECEIPTS OVER (UNDER) DISBURSEMENTS		. \$36,354
DISBURSEMENTS CASH BALANCE, JUNE 30, 1983		,

The accompanying notes are an integral part of the financial statements.

ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS
WITH BUDGET COMPARISON FOR THE BUDGET YEAR
JULY 1, 1982 TO JUNE 30, 1983

• • • • • • • • • • • • • • • • • • • •			
•		A	CTUAL
			OVER
· .	TO SET	ACTUAL (U	NDER)
	ODGEL	\$37,799	\$37,799
CASH IN BANK, JULY 1, 1982	,	ψο. ,. σο	,
PRORIPTS:			
m	11 000	11,608	3
enor	11,605	7,736	
Kanege — 40%	7,730	•	2,803
		2,803 22,147	2,806
TOTAL DECEMBER	19,341		40,605
TOTAL TO ACCOUNT FOR	19,341	59,946	40,000
TARDITOSEMENTS:		10.045	2,345
TO Contact Street	8,500	10,845	(241)
Comptom/e Salary—Net · · · · · · · · ·	. 0,000	3,359	
named and Incurrence		100	(164)
Melophone	1,500	1,336	241
Payroll Taxes	241	482	325
multipe and Mailing		325	(927)
I A Mostings	1,000	73	,-
Professional Fees	650	2,177	1,527
Office Supplies	. 500	551	51
Printing	1,250	1,849	599
Contingency	2,000	2,483	483
Contingency	. ´	12	12
Bank Charges TOTAL DISBURSEMENTS	\$19,341	\$23,592	4,251
TOTAL DISBURSEMENTS	. s —	\$36,354	\$36,354
CASH BALANCE, JUNE 30, 1983			_
			E

The accompanying notes are an integral part of the financial statements.

ARKANSAS RIVER COMPACT ADMINISTRATION NOTES TO CASH BASIS STATEMENTS JUNE 30, 1983

Note 1 — Summary of significant accounting policies:

a. The Administration maintains financial records using the cash basis of accounting. By using the cash basis of accounting certain key accounts needed to present financial position and results of operations are omitted; examples of these accounts are accounts receivable and accounts payable.

ATTACHMENT C

CHECKS WRITTEN SINCE DECEMBER 14, 1982

	Check	
Date		Amount \$
Jan	5 556 Mountain Bell—Telephone	\$ 199 or
Jan	5 55/ Federal Reserve—Payroll Taxes	40.96
Jan	5 558 Kings Kitchen Center—Computer Equip	01.00
Jan	5 559 Gobin's—Supplies	. 37.83
Jan	5 560 Leo Idler—Salary & Supplies	· 333,70
Feb	4 501 Betz Publishing Co.—Ream of Paner	90.90
Feb	4 562 Leo Idler—Salary & Supplies-Postage	. 39,40
Feb	4 563 Federal Reserve—Payroll Taxes	. 287.46
Feb	4 564 Mountain Bell—Telephone	40.20
Mar	8 565 Mountain Bell—Telephone	148,98
Mar	8 566 Federal Reserve—Payroll	144.20
Mar	8 567 Leo Idler—Salary & Postage	. 40.20
Mar	30 568 Garden City Hilton Inn—Meeting Hall	304,36
Apr	5 569 Mountain Bell—Telephone	72,80
Apr	5 570 Federal Reserve—Payroll Taxes	107.06
Apr	5 571 Leo Idler—Salary & Postage	40.20
May	5 572 Mountain Bell—Telephone	314.45
May	5 573 Federal Reserve—Payroll Taxes	93.98
May	5 574 Void—Typing Mistake	40,20
May	5 575 Leo Idler—Salary-Supplies-Postage	A==
Jun	6 576 Crimond, Farmer & Co.—Copying	297.90
Jun	6 577 Mountain Bell—Telephone	90.02
Jun	6 578 Void	83.25
Jun	6 579 Betz Publishing Co.—Printing	
	Annual Report (1981)	1 000 00
Jun	6 580 The Xerox Store—Computer,	1,822.00
	Robert Jesse-Supplies	2 201 0=
Jun	6 581 Federal Reserve—Payroll Taxes	4,391.95
Jun	6 582 Leo Idler—Salary Dostore	40.20
Jul	6 582 Leo Idler—Salary-Postage. 8 583 Video Concepts—Computer Supplies. 8 584 Void	310.74
Jul	8 584 Void	1,309.30
Jul	8 585 Leo Idler—Salary-Supplies-Postage	
Jul	8 586 Lawan & Accorder Debut To	293,98
	8 586 Lewan & Associates—Robert Jesse-Supplies	202.80

	8 587 Federal Reserve—Payroll Taxes	40.20
Jul	8 28t Length Describer 1 whom series	182,24
July	8 588 Mountain Bell—Telephone	
Aug	5 589 Guaranty Abstract Co.—Treasurer's Bond	100.00
Aug	5 590 Void	308.00
Aug	5 591 Leo Idler—Salary-Supplies-Postage	306.00 144.96
Aug	5 592 Mountain Bell—Telephone	40.20
Aug	5 593 Federal Reserve—Payroll Taxes	40.20

ATTACHMENT D

STATEMENT OF ACCOUNT

FIRST NATIONAL BANK in LAMAR 200 South Main • Lamar, Colorado 81052 • 303/336-4351

2	OO BOULLI MALLE		
ARKANSA COMPAC c/o LEO I ROUTE 2 LAMAR,		PION	mber 00-025-4 Date 07/29/83
Beginning Balance 114.69	No. of Checks 4	Total Amount of Checks Paid 719.22	Service Charge .00
	o. of posits 1	Total Amount of Deposits 2,028.32	Average Balance 661.00
Date 07/20 07/21 07/26	Check 293.98 40.20 182.24 202.80	Dėposi 2,028.3	

ATTACHMENT E

STATEMENT OF ACCOUNT

FIRST NATIONAL BANK in LAMAR 200 South Main • Lamar, Colorado 81052 • 303/336-4351

ARKANSAS RIVER
COMPACT ADMINISTRATION
COUNTY BLDG. ANNEX
1001 SOUTH MAIN STREET
LAMAR, CO 81052

Account Number 07-544-0

Statement Date 07/29/83

*9.000 PERCENT IN EFFECT THIS STATEMENT PERIOD

Beginnir Balance 36,279.71	ng		Service Charge 2.00
Date 07/20 07/28	Check 2,028.32	Deposit	Balance 34,251.39
07/29	2.00 SC	¹¹ ,636.48 263.78 IN	45,887.87 46,149.65
No. of Checks 1		Total of Cho	Amount ecks Paid 2,028,32
No. of Deposits		Tota of I	l Amount Deposits 11,636.48

Average Balance 36,382.00

ATTACHMENT F

BUDGET Fiscal Year July, 1983-June 30, 1984

Fiscal 1 car out,		
		\$ 9,941.20
A. SALARIES: 1. Recording Secretary	\$ 3,600.00	1
1 Recording Secretary	6,100)
1. Recording Secretary 2. Operations Secretary	241.20)
2 Payroll Taxes		12,500.00
- CATICING STATIONS.		
1 Maintenance and Operation		
	00.00	
Agreement	00.00	
B. Telemark Telephone		
- L. Mostin Dam	500	
Granada	300	4,650.00
	100.	00
Treasurer's Bond Annual Report	.,,,,,,,	
- Malanhana	500.00	
n Complies		
	500.00 250	00
		0.00
4. Travel and Meetings		2,000.00
D. CONTINGENCY:		
D. CONTINGENCY: E. TOTAL BUDGET	¢17 45.	
E. TOTAL BUDGET	ቀւ _{የተ} ነገር የተነ	6 48
COLORADO (60%)		0, 10
VWMOUP / 10 to		

ATTACHMENT G

BUDGET Fiscal Year July 1, 1984-June 30, 1985

A. SALARIES: 1. Recording Secretary 2. Operation Secretary	\$ 9,941.20
2. Operation Secretary	····· 6,100
3. Payroll Taxes B. GAUGING STATIONS.	241,20
B. GAUGING STATIONS: 1. Maintenance and Operation	
A. Cooperative	,
Agreement	
Agreement B. Telemark Telephone	\$12,000.00
John Martin Dam	
Granada Gauge	500.00
C. OPERATING EXPENSES:	4,600.00
1. Treasurer's Bond	
2. Annual Report 3. Office Expense	1,650.00
A Tolonham	
A. Telephone	1,600.00
B. Supplies	350.00
C. Printing	350.00
4. Travel and Meetings	200.00
5. Audit	350.00
D. CONTINGENCY: E. TOTAL BUDGET:	
KANSAS (40%)	\$11.216.48
•	, , ==, 10

ATTACHMENT H

August 23, 1983

Mr. Frank Cooley, Administrator Arkansas River Compact Administration P.O. Box 98 Meeker, Colorado 81641

Enclosed is the program of hydrologic data collection by the U.S. Dear Frank, Geological Survey, Water Resources Division (WRD), Colorado District, for the Arkansas River Compact Administration in Fiscal Year 1984 (FY 83) - October 1, 1983 to September 30, 1984. The program includes those data-collection activities recommended by the Compact for continuation in FY 84.

Assuming the program is acceptable, a joint-funding agreement will be forwarded to Compact secretary from our District office in Lakewood, Colorado in the amount of \$16,500; \$8,250 from the Arkansas River Compact Administration and \$8,250 in Federal matching funds provided by the U.S. Geological Survey, WRD, Colorado District. A separate program and joint-funding agreement will be issued by the Kansas District of the WRD for work performed by them.

Should you have any questions or want to discuss the program,

please call me at (303) 544-7155.

Sincerely. Jerry L. Hughes Subdistrict Chief

Enclosure

cc: Leo Idler, Secretary, Arkansas River Compact Administration

JLHughes:ps:8-24-83

bcc: Blakey (w/enclosure) Steger, Hughes w/enclosure file 0010

> WATER RESOURCE PROGRAM Arkansas River Valley, Colorado FISCAL YEAR 1984 — October 1, 1983 to September 30, 1984 U.S. Geological Survey, Water Resources Division, Colorado District in cooperation with

Arkansas River Compact Administration

This proposal is for continuing hydrologic-data collection in the Arkansas River Valley, Colorado. The funding shown in the table reflects the contribution from the Arkansas River Compact Administration which will be matched equally by the U.S. Geological Survey upon mutual acceptance of the program. The funding and activity is for Fiscal Year 1984 — October 1, 1983 through September 30, 1984.

Surface-water station

Surfa	ce-water station	Funding	
07124000	Arkansas River at Las Animas 1		
	1. Supplemental dischange	67	_
07128500	I uigatuire Kiver near Lac Animos	\$750	2
	Supplemental discharge measurements John Martin Reservoir	750	2
	1. Maintenance of tolerants	457-	
0/130500	Arkansas River below John Martin Reservoir	475 1	
	2. Maintenance of telemost	750	2
07133000	Arkansas River at Lamar	475	
07134500	Supplemental discharge measurements Arkansas River at Granada	750	2
	1. Operation and maintenance	2,150	9
	2. Supplemental discharge measurements	2,150 3 750 2	
	o. manitenance of telemark	475	6
	Radio relay stations	טיד	
	1. Operation and maintenance	925 4	ı
	TO	TAL: \$8,250	I.

- Operation and maintenance of station funded by U.S. Geological Survey and includes about 12 discharge measurements per year plus computation of record.
- 2 Provides for six additional discharge measurements per year during the period April to November.
- 3 Provides for operation and maintenance of station and includes about 12 discharge measurements per year plus computation of record.
- 4 Provides for operation and maintenance of three relay stations in Colorado; repair or replacement of radio antennas, Texas Instruments Silent 700 computer terminal, and DARDC units.

ATTACHMENT I

Water Resources Division 1950 Constant Avenue — Campus West University of Kansas Lawrence, Kansas 66044-3897

August 22, 1983

Mr. Frank Cooley, Administrator Arkansas River Compact Administration P.O. Box 98 Meeker, Colorado 81641

The attached table summarizes the activities and related costs for Dear Frank: FY 1984 (October 1983-September 1984) for the operation, maintenance, etc., of gaging stations and other related facilities under the jointagreement between the Arkansas River Compact Administration and U.S. Geological Survey, Kansas District. Note that for your information the table also includes direct federal funding that is provided to support these activities as part of our Collection of Basic Record (CBR) program. For FY 1984, the total cost of the joint-funding agreement will be \$7,500, of which \$3,750 is repay funds from the

There has been considerable discussion about the cost of additional Administration. discharge measurements and possibly reducing the number partially funded through the Administration budget. The program proposal herein includes 11 additional measurements at the station, Arkansas River near Coolidge, resulting in a total of about 23 measurements during each water year. As briefly discussed during the Compact meeting of December 14, 1982, the Kansas District is completing an intensive evaluation of its entire surface-water data program. The attached figure illustrates one component of this evaluation: the uncertainty function for a streamflow gaging station. Based on a statistical analysis of historical discharge measurements, this uncertainty is represented by the relation between standard error of instantaneous discharge and number of measurements made during the year. For example, this figure shows, for the Arkansas River near Coolidge gage, that 12 measurements result in an error of about 22 percent while the additional 11 measurements (23 total measurements) reduce this error to about 14 percent. Because of the shape of the uncertainty function, considerable improvement in the quality of record is realized with each additional discharge measurement when 20-25 or fewer total measurements are made during the year. The above example showed an 8 percent reduction in standard error with the 11 additional measurements; to reduce the error another 8 percent could require more than 80 additional measurements.

The foregoing discussion is perhaps somewhat confusing, but provides important information that has not previously been available to the Administration. We have long recognized the general importance of discharge measurements as they influence the quality of final streamflow records. It is only recently, however, that a technique has been available to quantify this relationship, even though the quantification is statistical and therefore inherently subject to error and interpretation. I would be glad to provide you additional explanation or information concerning the technique or its application to data networks.

Sincerely yours, Russell K. Livingston Associate District Chief

cc: Mr. David Pope, Chief Engineer/Director Division of Water Resources, Kansas Mr. J. Williams McDonald, Director, CWCB, Colorado Mr. Leo Idler, Secretary, Arkansas River Compact Administration

FY 1984 (October 1983-September 1984) SUMMARY OF PROGRAM

U.S. Geological Survey (Kansas District)/ Arkansas River Compact Administration and

U.S. Geological Survey, Collection of Basic Records

Station number 07137500	Arkansas R. near Coolidge	Notes A B C	Funds \$5,500 2,770 1,000
07137000	Frontier Ditch Radio relay stations (5 in KS)	D C E	2,900 310 2,920
	Federal OBR Program To Cooperative Program To TOTAL PROGRAM	otal :al	\$ 8,400 7,500 \$15,900

Note A. Funding includes basic station 0&M with about 12 discharge measurements per year.

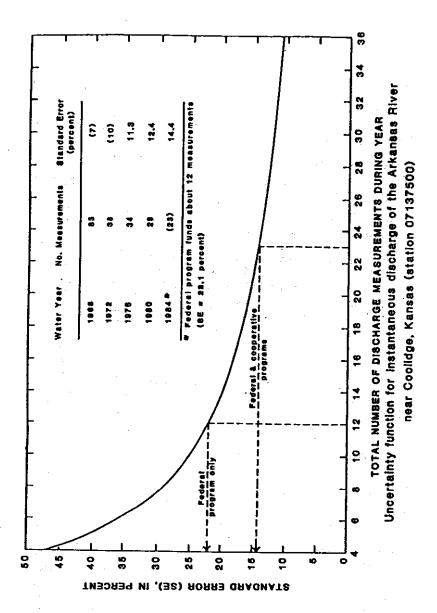
Note B. Funding includes about 8 additional routine discharge measurements per year (March-November) and about 3 flood measurements per year.

Note C. Funding includes monthly (current) record processing.

Note D. Funding includes only check discharge measurements (no routine measurements are made).

Note E. Funding includes maintenance, repair or replacement of radio antennas, Texas Instruments Silent 700, and DARDC's.

Support program
Federal CBR program
USGS/Compact Coop program
USGS/Compact Coop program
Federal CBR program
USGS/Compact Coop program
USGS/Compact Coop program
USGS/Compact Coop program



I would like to review the events leading up to the present controversy over the operation of Trinidad Reservoir.

At a meeting of the administration on June 8, 1966, Mr. Ogilvie of the Bureau of Reclamation reviewed in detail the proposed operating principles of the Trinidad Project. He was assisted by Mr. Saunders, Attorney for the Conservancy District and Mr. Sparks of the Colorado Water Conservation Board. To quote from the minutes of the meeting held June 8, 1966:

"Mr. Ogilvie said that he would be glad to answer questions and review the operating principles but to facilitate matters he had with him a screen and projector and would like to project the principles upon the screen and discuss them in this manner. Mr. Ogilvie then showed some charts on the reservoir illustrating how the 114,000 acre-foot reservoir would be distributed into flood control, conservation, sediment and recreation space. Other charts were shown to illustrate water utilization with and without the project, crop requirements, shortages and reduction of shortages. Other graphs showed that with historic distribution of the water crop requirements were over supplied in the early part of the irrigation season and under supplied in the late season but with storage the crop requirements could be met most of the time."

It was offered and accepted that Mr. Ogilvie and Mr. Saunders meet with the Kansas water users at Lakin, Kansas for a presentation of the operating principles. At the Lakin meeting we again reviewed and assurances were given that 1). The Model storage space was limited to 20,000 acre-feet. 2). The Joint Use Pool would not be used for any additional storage other than that provided under Article IV, Paragraph A, 2 b which states that "such other rights to store water in the reservoir as the District may lawfully acquire by appropriation or purchase." Or when John Martin Reservoir is spilling.

After this meeting the Kansas ditches with the exception of the Kearny County Irrigation Association agreed to the construction of Trinidad Dam. The Arkansas River Compact approved the Trinidad project on June 6, 1967.

One of the main concerns was the transfer of the Model Storage Right. We were assured that Model Storage could never contain more than 20,000 acre-feet. Trinidad Project Report Vol. 1 July 1964 Rev. 9/64 under Plan of Development, Page 2, states that water rights for the 20,000 A.F. Irrigation Pool will be provided by transfer of the storage decree from the existing Model Reservoir to the Trinidad Reservoir. In the District Court in and before the County of Las Animas under Civil Action No. 19,793 ordered, adjudged, and decreed by the Court (Page 10) that the petitioners may store out of the waters of the Purgatoire or Las Animas River in the Trinidad Reservoir, under Reservoir Pirority No. 10, Appropriation Priority No. 168 in Water District No. 19 and date

of appropriation of January 22, 1968 up to 20,000 acre-feet of water

In June, 1980 Kansas became aware that 59,000 acre-feet of water was stored in Trinidad Reservoir and has exceeded the 20,000 acre-feet limit since 1979. It was also pointed out that the operating principles limited the Conservancy District to a given number of acres and the amount of water that could be used on each acre. The irrigable land was set to be 19,717 acres, broken down by individual ditches as to acres irrigated. The Trinidad Project Report Vol. 1 July, 1964 Rev. 9/64 under Operations Principles and Criteria, Page 24, Paragraph 4, state that deliveries, except for 1,500 acre-feet of stockwater are to be made only during the irrigation season and are to be restricted to crop requirement for the 19,717 acres of irrigable land which constitute the service area. Computations show that the total quantities used in excess of crop requirements (discounting the 1,500 acre-feet stockwater) should have been allowed to flow through the Purgatoire River to John Martin Reservoir are 1979 = 15,849 A.F., 1980 = 21,656 A.F., 1981 = 20,516 A.F., 1962 = 21,793 A.F. Total for the four years equals 79,814 A.F.

Also during the irrigation years 1981 and 1982 there was 55,850 acrefeet of water stored in excess of the 20,060 acre-feet storage limit. This in addition to the 79,814 acre-feet of water used in excess of crop requirements makes a total depletion of 135,664 acre-feet to the Purgatoire River

Since the Bureau of Reclamation was very active in securing the consent of the State of Kansas and the Kansas water users to the Trinidad Project, we feel the Bureau as a promotor and signee also has a responsibility toward the enforcement of the operating principles.

Sincerely, or control of the section of the Bentrup

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ands, calibratio, habit-brook, aridges, and after engineering works in On July 24, 1951, prior to construction of the Pueblo Dam, the following resolution was adopted by the Arkansas River Compact Administration which states in part:

There shall be no re-regulation of the native waters of the Arkansas River as proposed in such report until a plan of operation, rules, regulations, procedures and agreements in furtherance thereof, including all pertinent agreements between the Corps of Engineers and the Bureau of Reciamation. shall have been submitted to and approved by the Arkaneae River Compact Administration and the affected water users.

On March 25, 1983 at a special meeting of the Arkansas River Compact Administration, a resolution requesting the State of Colorado comply with its commitments of 1951 was submitted to the Administration and vetoed by the delegates of the State of Colorado.

The delegates from Colorado admitted the existence of said resolution.

but refused to observe the provisions of said resolution.

Inasmuch as no plan of operations, rules, regulations, accordance, and agreements baves ever been submitted to the Arkenses Bixer Compact Administration for apprecial, I now, on behalf of the State of Kansas, request that the United States Bureau of Regionaction refuse to impeand one water other than that water brought into the Arkansas. River Basin through the Frying Pan Gunnisen Project Sincerely

Carl E. Bentrup

CEB/inh 3

ATTACHMENT

ALBUQUERQUE DISTRICT STATEMENT TO ARKANSAS RIVER COMPACT ADMINISTRATION AUGUST M. 1983

HISTORICAL PERSON TIVE

I think it would be appreciated to begin my noneathe today with a brief restions of the history of the U.S. Army Coupe of Booties particularly, as it concerns the avalution of our pale in this day of water manuscreen. With much a norion, A hope to provi background for more specific discussion on our responsibilities and authorities the Arkaness River Issin

Our "primery" szienien han abueza been to previde combat ang to the fighting Army. That is why the Continuous Congress and for the establishment of Arroy engineers in 1775. That is also soly 1802, the Corps of Engineers was directed to conduct a military academy of West-Point, New York, For meath a quarter of a gentury this United States Military Academy men the only engineering ach the nation 4:02:

As the Revolutionary War anded, our new matien was in need of roads, milroads, lightheanes; bridges, and ather anginessing works in supports accommic development. The Corps of Regineen, the on available argunized angles suice dence, was called appear to decipe as day a build them. In the 1000's the Curps became beauty involved with surveys for westment superstantil, the exploration of such anginess. SULVEYS FOR WESTWARD STREET officers.ne Bebulen Bile and dalas Fremontes

The Surps hagen work in the development of the Nation's water rescurrencies della volume Sangrens renignes di Alba job el classing essessionale della volume della condica della Mindralega Alivara del Sandilla della condica della con navigetien: its: 46f0; the Gerre' cole; on the Mindestoni Mive panded de sinclade dische de control cuith, the greatien of the A M. Blygt Was P River Generalesian ille the menting green, matterwide interest in Section of control and statement according to the control accordi authorizatioshin-affector and affections to property series of all prohemina megesta maramente la marama de la regenta la addensa da se

need for water resources development for purposes of navigation, flood control, and hydropower. Many of these "308 reports" recommended the construction of projects. Most of the projects recommended in the "308 reports" were authorized for construction in the Flood Control Act of 1936. This act is recognized as the initiator of nationwide water resources developed by the Corps of Engineers.

With this background, let me become more specific about the development and operation of projects that are used to help you manage your water.

AUTHORIZATION AND CONSTRUCTION OF JOHN MARTIN DAM AND RESERVOIR

One of the projects recommended in a "308" report and later authorized in the 1936 Flood Control Act was Caddoa Reservoir, to be later known as John Martin Dam and Reservoir. The project was authorized for flood control and irrigation purposes. Construction began in August 1940. The project was completed in October 1948 after some delay due to the war effort. The original project authorization was modified by the Flood Control Act of 1965 to "authorize and direct" the Corps to use up to 10,000 acre-feet of reservoir flood control storage for fish and wildlife and recreation purposes.

Operating procedures for John Martin Dam are described in the Water Control Manual, which was originally printed in 1953 and was updated in February 1983. We have a limited supply of these manuals available for anyone who needs a copy but has not already received

AUTHORIZATION AND CONSTRUCTION OF TRINIDAD DAM AND LAKE

The original authorization for a project on the Purgatoire River at Trinidad is contained in the Flood Control Act of 1944. The project plan was essentially a channel and levee system. However, in 1945 the House Committee on Flood Control requested the Corps to review that plan to determine if changes should be made in order to provide flood control for Trinidad and at the same time make more water readily available for agricultural and industrial uses. That review resulted in House Document 325 which recommended the construction of Trinidad Lake, primarily for the purposes of flood control and irrigation. The project was authorized in the Flood Control Act of 1958. In the Flood Control Act of 1965 the City of Trinidad was relieved of its obligation to make a cash contribution toward the project cost. Instead, the city agreed to maintain a Purgatoire River channel capacity of 15,000 cfs through the city.

Construction on Trinidad Lake began in May 1968. Deliberate impoundment began in August 1977. As with John Martin, operating procedures at Trinidad are described in the Water Control Manual dated July 1978. A limited number of copies of this manual are also available.

I should point out that our water control manuals are developed for use in the District Office and by the project operation staff. The manuals are general in nature on the day-to-day operation of a project,

and concentrates more on how the project should be operated during a flood event.

PROJECT OPERATION

We in the Corps of Engineers were somewhat surprised by the letter, dated June 2, 1963, from Attorney General Stephans of Kansas to General Bratton, Chief of Engineers. I suppose our surprise was more from the lack of knowledge of Kansas' concern than the allegations of wrongdoing by the Corps in the operation of our Trinidad Project. To set the record straight, the Corps did not construct and does not operate Pueblo Dam as alleged in Attorney General Stephan's letter; we do, however, prescribe the flood control operating criteria for the project. Furthermore, we are not aware of any action on our part that is a violation of the Arkansas River Compact or any other federal or state law.

We have known of the disagreement between the states of Colorado and Kansas over the operation of Trinidad Dam and have furnished the State of Kansas various data on the operation of the project. However, to my knowledge, prior to receipt of Attorney General Stephan's letter, no one from Kansas had alleged to me or my staff any wrongdoing or violation of the Arkansas River Compact. I would have liked to have been given the opportunity to solve the problem at the District level, in lieu of the problem having been escalated immediately to the Chief of Engineers.

Be that as it may, it is our position that the dispute over the storage and release of water from Trinidad, other than for flood control operation, is between the States of Kansas and Colorado, and in no way should the Corps of Engineers be interjected into the dispute. If Kansas and/or Colorado has documentation that indicates the Corps of Engineers' operation of the flood storage at Trinidad is in violation of the Arkansas River Compact or other federal or state laws, we will be more than happy to meet with the states to resolve these issues.

The Albuquerque District Corps of Engineers physically operates the Trinidad Lake project and as such, except for flood control operations, responds to requests of the Colorado State Engineer's Office to store or release water at the project. The allegation that the flood pool at Trinidad Lake has been misoperated is somewhat puzzling, however, considering the project has not been operated for flood control since it went into operation in 1979.

ATTACHMENT M

United States Department of the Interior Geological Survey Water Resources Division P.O. Box 1524 Pueblo, Colorado 81002-1524

September 28, 1983

Mr. Frank Cooley, Chairman Arkansas River Compact Administration Box 98 Meeker, Colorado 81641

Dear Frank,

At the special meeting of the Arkansas River Compact Administration in Lakewood, Colorado on August 26, 1983, the Corps of Engineers and U.S. Geological Survey, Water Resources Division, were asked to explain the disparity between storage content of Trinidad. Reservoir computed by the two agencies at comparable times.

Some of the discrepancies result from the Corps using reservoir stage data recorded at 0800 hours to compute daily contents while the Survey uses 2400 hours as their index for computation. The State of Colorado distributes water based on an 0800 hour reading. During the time differential many factors could affect instantaneous storage including storm events, evaporation, release of water, and a skewing of the lake surface by wind. Unfortunately, these factors are probably not the main reason for the observed differences. Apparently the Corps began using a new area-capacity table for computation of storage in the reservoir in July 1981 but the Survey was not provided a copy and was incorrectly using a table dated 1976. The State has been using the table provided by the Corps in 1981. Therefore, the contents records of Trinidad Reservoir published by the Survey for the Corps during the period 1981 to present must and will be corrected in the Water Year 1983 publication.

Please call me at (303) 544-7155 if you have any additional questions or require clarification of this explanation. Also, note that distribution of this letter did not include Compact members or other possibly, interested parties. That remains for your discretion.

Sincerely yours, /s/ Jerry L. Hughes Subdistrict Chief

ATTACHMENT N

OPERATIONS SECRETARY'S COMMENTS

1982 was above average in snow pack as well as summer precipitation. A table of precipitation is enclosed in this Report.

No significant problems in administration were encountered during

the year. The COMSAT Program was used extensively and was found to be quite valuable, although some improvement is still needed in communicating the latest shifts to the COMSAT.

All deliveries to Kansas were made on schedule, and the Secretary had excellent cooperation from Kansas Water Resources in Garden

During the year, State hydrographers made a total of 32 stream measurements on the Compact gauges and a total of 323 visits or personal gauge readings to verify gauge heights or make estimates of ice affected flows.

Also enclosed in this Report is a table showing the computed inflow to John Martin. This is a computation and includes all measured as well as un-measured inflow using the Daily Change in Contents.

FINANCIAL STATUS OF OPERATIONS SECRETARY

1982 Contract between Colorado State Engineer Jeris Danielson and Arkansas River Compact Administration.

Within and a second	
Salary for Secretary: May	952.00
May	952.00
June	
Office Supplies: \$ Calculators (2)	260.95
Calculators (2)	58.70
Calculators (2) Misc. Supplies	00.
Telephone:	•
Installation of	270.65
Telephone: Installation of COMSAT Terminal Jack	
	2 494 30
TOTAL	-, == 3.00

Contract allocated \$2500 to the Operations Secretary. All invoices and a copy of the Contract are hereto attached.

INVOICE

M. Helen Beyer 1914 Sherwood Lane Pueblo, Colorado 81005

Secretary, Month of May

\$952.00

INVOICE

M. Helen Bever 1914 Sherwood Lane Pueblo, Colorado 81005

Secretary, Month of June

\$952.00

/s/ M. Helen Bever

CONTRACT

THIS AGREEMENT is made this 3rd day of May, 1982, by and between the State Engineer of the State of Colorado for the use and benefit of the Colorado Division of Water Resources (State Engineer), 1313 Sherman Street, Room 818, Denver, Colorado 80203, and the Arkansas River Compact Administration, 1001 South Main, Lamar, Colorado 81052.

WHEREAS, the Division Engineer, Water Division II in the Colorado Division of Water Resources serves as Operations Secretary for the Arkansas River Compact Administration; and

WHEREAS, the Arkansas River Compact Administration has previously approved of the use of up to \$2,500.00 of its funds for the maintenance of the office of the Operations Secretary for the six month period ending June 30, 1982.

NOW THEREFORE, it is hereby agreed that:

- 1. The Division Engineer, in his capacity as the Operations Secretary, shall:
 - A. Regulate the gates of John Martin Reservoir in accordance with the Arkansas River Compact and any operating plans or procedures adopted thereunder; and
 - B. Keep accurate daily records on the water stored in John Martin Reservoir, including all matters appurtenant thereto such as the amount of water residing in or being transferred to special reservoir accounts, evaporation of water from the reservoir which is to be prorated among such accounts, and the determination of transit losses and the procedures for computing such

in all matters regarding water being transferred to or from said reservoir and accounts therein; and

C. Prepare accurate reports of deliveries of water which reports shall be presented to the Administration's operations committee.

2. In consideration of the services to be performed by the Division Engineer as Operations Secretary, the Arkansas River Compact Administration shall:

A. Pay a secretary for the office of the Operation's Secretary at a rate of \$952.00 per month for the months of May and June, 1982;

B. Pay \$596.00 for the installation of a telephone, computer access, and incidental office expenses; and

C. Make all disbursements upon receipt of a properly prepared invoice from the Operations Secretary.

Colorado Division of Water Resources

By /s/ Jeris A. Danielson, State Engineer

Arkansas River Compact Administration

By /s/ Frank Cooley, Chairman ICOMO FEET

NOVEMBER 1, 1942 TO OCTOBER 31, 1963

THOUSANDS OF ACRE FEET