

OIL & GAS CONSERVATION COMMISSION
Meeting: August 17, 1973



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

*Minutes DK
Reports - accepted
Assessing Geothermal Program
Fee Determining for collection System
DK*

A G E N D A

Meeting
August 17, 1973
Arizona Public Service Building
Hearing Room - 2nd Floor
301 W. Cherry
Flagstaff, Arizona

10:00 a.m.

Call to order

*Eds offer
to meet in Tucson
19th Oct or Nov*

- 1. ✓ Approval of minutes of meeting of June 21, 1973
- 2. ✓ Report of Executive Secretary
- 3. ✓ Report of Enforcement Section
- 4. ✓ Report of Geology Section
- 5. Old Business
- 6. New Business - ~~1974~~ in ~~Sec~~ *Planning* *which*
 - A. Consider 1974-75 Budget
 - B. Consider proposed fee structure for commission hearings, maps, publications, and duplicate copies of documents - DK
- 7. Adjourn

*Meeting in Tucson
Geophysics
Geothermal*

IF YOU ARE UNABLE TO ATTEND THIS MEETING, PLEASE NOTIFY THIS OFFICE AS SOON AS POSSIBLE.

10/16-19/74

*October -
THURSDAY*

APS
301 W. CHERRY
774-4501

WELCOME TO THE A.P.S. AUDITORIUM

Kowalski:

DONNA ~~Kowalski~~!

We will appreciate your observing the following rules when using our auditorium.

1. No alcoholic beverages permitted on the premises.
2. Maximum number of people using this room is 50 set by fire regulations.
3. During regular working hours (8 am to 5 pm, Monday/Friday) please do not park vehicles in customer/employee parking lot on the west side of the building.
4. When using the room after regular office hours please turn off the lights, leave the key in the drop box and secure all doors.
5. All trash can be put in dumpster container adjacent to alley behind Master Cleaners.
6. You are responsible for the conduct of your group and guests.

This room is provided by A.P.S. as a community service. Enjoy and use it with that thought in mind.

OIL AND GAS CONSERVATION COMMISSION
4515 N. 7th Avenue
Phoenix, Arizona 85013

Minutes of Meeting
June 21, 1973

Present:

Mr. Ralph W. Bilby, Chairman
Mr. Robert A. Bledsoe, Member
Mr. F. Keith Benton, Member

Absent:

Mr. W. Roger Hafford, Vice
Chairman

The regular Commission meeting for the month of June, 1973 was called to order by Chairman Ralph Bilby at 10:00 a.m.

Minutes of the meeting of April 20, 1973 were approved as written.

Reports of Executive Secretary, Enforcement Section and Geology Section were accepted.

Executive Secretary enlarged on his written report to the Commission regarding the midyear meeting of the Interstate Oil Compact Commission in Tulsa, Oklahoma June 10 to 13th. Discussion followed on the potential national energy shortage and its effect on the State of Arizona.

Jack Conley was instructed to make a report at the next Commission meeting on the possibility of requesting the Arid Lands Studies Office at the University of Arizona to undertake a project of mapping throughout the State of Arizona, using funds supplied by NASA.

Executive Secretary advised that he has been named by the Interstate Oil Compact Commission as a member of a task force to undertake a study of the activities of the Geological Survey Division of the Department of Natural Resources of the State of Michigan, expenses to be paid by the State of Michigan. Approval was given for Executive Secretary to travel to Michigan August 21 - 23, 1973.

It was unanimously agreed to cancel the July meeting and to hold the next meeting August 17, 1973 in Flagstaff, Arizona.

Meeting adjourned at 11:30 a.m.

APPROVED

Ralph W. Bilby, Chairman

Minutes of Meeting
June 21, 1973
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Also present at meeting:

Mr. A. K. Doss
Chief, Minerals Section
State Land Department
Phoenix, Arizona

OIL AND GAS CONSERVATION COMMISSION
4515 N. 7th Avenue
Phoenix, Arizona 85013

The regularly scheduled meeting for July 20, 1973 was
not held because a quorum would not be present.

Ralph W. Bilby, Chairman



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

August 8, 1973

Memo: Commissioners
From: John Bannister

Reservations have been made for Thursday, August 16, 1973 at the Little America Motel, which is just off Highway I-40 in Flagstaff. Arrangements have been made for the Commissioners, staff, and their wives to have dinner Thursday night at 7:30 p.m. at the Continental Country Club. I suggest leaving the hotel around 7:15 p.m.

The meeting of the Commission will be held Friday morning, August 17th, at the Arizona Public Service Auditorium, 301 West Cherry Street in Flagstaff. It was impossible to arrange a suitable meeting place at Little America, inasmuch as they are completely booked for conventions. However, parking is readily available at the auditorium and I feel it will be no great inconvenience. We have previously been advised that Mr. Benton cannot be with us.

Attached you will find a recommended fee structure which the Finance Department has recommended for the reproduction of our records, logs, maps, etc. We have discussed these charges in depth with the Finance Department and a few minor changes will be made. One change which has been requested is that the fee structure not be made mandatory but that the Commission, in its discretion, can furnish maps, etc., free of charge to such organizations as governmental agencies, libraries, etc. In addition to the fee structure the Finance Department is recommending a method of accounting for all fees and monies collected by this Commission. This system will be put into effect with the endorsement of the Finance Department and the Auditor General and will become effective September 1st.

We are winding up the Four Corners Regional Commission grant work as rapidly as possible and hope within the very near future to have all obligations to the Four Corners Commission completed and all monies owing paid. As a result of this project, much useful information will be continuously developed and distributed by this Commission and, hopefully, the University of Arizona. As you are aware, the Four Corners Regional Commission

Memo: Commissioners
August 8, 1973
Page Two

officially ceased doing business June 30, 1973, however a minimal staff is being maintained until probably the end of this year in order to allow completion of certain projects.

Attached you will find summary sheet of the proposed 1974-75 budget. This will be discussed in depth at our meeting.

The attempted storage project in the Holbrook area has been abandoned and the two wells and cavern have been plugged. The plugging was accomplished by filling the cavern with saturated brine solution. The wells have been cemented. This procedure should be quite ample to prevent any damage to the water sources in the area and to prevent any potential collapsing of the area. At the request of the land owner, the surface pits will be left intact. The City Manager of Holbrook, Mr. W. S. Carpenter, was contacted and this procedure is acceptable to the city authorities. There has been indication that another storage reservoir in this same property will be attempted some time in the future.

The Navajo Tribe will hold an oil and gas lease sale on the 28th of August. Only a small amount of Arizona acreage is involved at this time, consequently I do not anticipate much Arizona action as a result of this sale.

The first of the Humble wells, i.e., State 74 #1 near Eloy, has now become public information and requests for copies of logs, etc., have been quite brisk. Since we are not prepared at this time to sell copies of the logs, we have arranged that one complete set be made into a loan set and these logs be copied at the convenience and expense of the ones requesting the service.



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ACTIVITY REPORT

August 6, 1973

Memo from W. E. Allen, Director
Enforcement Section

The two wells drilled in Holbrook by Aritex Development Corporation to establish storage for LPG have been plugged. I was present when the wells were plugged.

The operators put some 200,000 gallons of propane into this storage for test purposes several years ago. They were unable to recover the vast majority of this product. The unrecoverable product may still be trapped in a conical area of the reservoir ceiling, or it may have escaped into some permeable section that was exposed when the reservoir was being formed. Whatever the disposition of this product, I believe that the area is safe. We will maintain close surveillance of the area for several years.

Geothermal Kinetics Systems are still having trouble on their Power Ranches No. 2. At this time they are attempting to wash-over the remaining four drill collars that are stuck in the hole at approximately 6,300'. The Power Ranches No. 1 has been shut-in for an indefinite period. The operators will check this well for temperature build up.

American Fuels Corporation is moving a rig onto their Navajo "G" No. 1, located in the SW/SW Section 34-T41N-R28E. This will be their seventh well in Arizona. Their first well, Navajo "B" No. 1, SE/SW Section 9-T40N-R29E, has officially been put on production. This is a very small producer from the Pennsylvanian. The July production from this well was 133 barrels of oil, 150 barrels of water and 2926 MCF gas. Initial test from some of the other wells do not indicate any prolific production of either oil or gas.

We still have not received the bond from Universal Resources to cover the well they plan to drill in the NW/SE Section 22-T40N-R29E, Apache County.

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Activity Report - 8-6-73
W. E. Allen

Zoller & Danneberg, Inc., have been issued a permit to re-enter a well drilled several years ago by Continental Energy in the SE/SW Section 19-T36N-R30E. This well is a north offset to a producing well in the Dineh-bi-Keyah. Two years ago Republic Minerals re-entered this hole and deepened it to 4,200'. Zoller & Danneberg plan to deepen to 4,400'.

We have completed production curves on all producing wells in the state. The curves on some of the wells are very interesting and indicate that further reservoir studies might be advantageous.

All of you are aware of the criticism that has been raised concerning the Four Corners Power plant and its detrimental effect on the environment. A summary of a recent study made on the stack effluent is attached to this report. I found it interesting.

WEA/r1b



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ACTIVITY REPORT

August 8, 1973

J. N. Conley
Director, Geology Section

PUBLICATIONS

Very few requests for any of our publications were received this past month. Our Sources of Information booklets, however, proved useful in answering several requests for availability of geologic and other types of maps from this Commission and other governmental agencies.

PUBLICATIONS PLANNED - FIRST AND SECOND QUARTERS

County Well Location Maps. The Mohave and Yavapai maps will be printed this month, and the Pima-Santa Cruz map is scheduled to be printed in October.

Paleozoic Outcrop Sections. This project, consisting of a map showing the location of important Paleozoic outcrop sections, and the accompany tabulation, has been temporarily delayed. The printing cost of the originally planned "fold-out" tabulation is excessively high. Alternate presentations of this data are now being investigated.

Oil and Natural Gas Occurrence in Arizona. A limited distribution of the preliminary publication was made last month, with the recipients being requested to comment on the chart format presentation, omissions, and errors. The chart is now being revised to conform with some of the suggestions received, and a few omissions and errors corrected. It will be printed next month.

INVESTIGATIVE PROJECTS

Holbrook Area, Apache, Navajo and Coconino Counties. Considerable progress has been made in mapping the Precambrian surface, and in assembling data for the preparation of subsurface structure and other kinds of maps.

Northeast Apache County. Subsurface studies of the Paleozoic rocks in the general East Boundary Butte - Dineh-bi-Keyah area are progressing slowly.

Activity Report
August 8, 1973
Page Two

Ed Koester reports that the study has revealed that Tertiary sills have intruded rocks primarily of Devonian, Triassic and Jurassic ages. These sills are areally larger than the thinner sills found to date in Permian and Pennsylvanian rocks. Shows of oil have been noted in both sills and intruded rock. No shows of oil have been reported in the Pennsylvanian rocks at Dineh-bi-Keyah; the oil accumulation is confined to the intruded sill.

Southeast Arizona. We are doing some preliminary work in this area, utilizing the geophysical report of the area by Aiken and Sumner to good advantage.

Northern Arizona. The Geology Department of Northern Arizona University is gradually assembling for us a tabulation of outcrop sections measured by the students and faculty. Most of this information has not been published, except in master's theses, and is not generally available to earth scientists.

GENERAL

Visitors. Ed R. Hayes, consulting engineer, Salt Lake City, Utah; interested in developing salt production in the Detrital Valley area, Mohave County.

Andrew Alpha (geological executive of Mobil Corporation), Gary Spraul, geologist, Mobil, and Dick Rush, local geologist, made a plane reconnaissance tour of much of Arizona recently. Spraul and Rush visited this office briefly afterwards. Mobil would like to do some field work on the San Carlos Indian Reservation, but have not been able to get permission from the Tribal Council to do so.

* * * * *

Humble (Exxon) 1 State 74, Pinal County. The confidentiality period for this deep stratigraphic test expired July 27th. Superior Oil Company and Mobil Oil Corporation have gone to considerable expense to obtain copies of the geophysical logs. American Stratigraphic Company is going to examine the drill-bit cuttings of this borehole. We will get a copy of the log.

* * * * *

On a recent trip to Flagstaff I obtained stratigraphic information on 60 plus water wells in Navajo County, on which we had no information in our files. All of these wells reached the Permian Coconino Formation, and can be used in preparing a subsurface structure map on the top of this formation.



ANNUAL FINANCIAL REPORT
1972-1973

RECEIPTS MONTH OF 19	CLASSIFICATION	RECEIPTS	APPROPRIATED RECEIPTS	UNAPPROPRIATED RECEIPTS	TOTAL ALL RECEIPTS YEAR TO DATE
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	TOTAL CURRENT MONTH RECEIPTS				XXXXXX
XXXXXX	TRANSFERS IN				
XXXXXX	BALANCES BROUGHT FORWARD				XXXXXX
	TOTALS - MONTH AND YEAR TO DATE			750 00	3,126 83

June PAID MONTH OF July 19 73	EXPENDITURES FUND TITLES	TOTAL AMOUNT AVAILABLE YEAR TO DATE	CLAIMS PAID YEAR	OUTSTANDING ENCUMBRANCES	BALANCE Reverted
	1 Personal Services	94,238 00	93,371 38		1,866 62
501 36	2 Emp. Related Exp.	11,025 00	10,507 11		517 89
1,254 00	3 Professional Serv.	3,400 00	3,392 00		8 00
110 51	4 Travel-State	7,350 00	4,393 14		2,956 86
	5 Travel-Out of State	3,500 00	2,609 11		890 89
565 34	6 Other Operating Exp.	32,500 00	31,922 25		577 75
213 71	7 Capital Outlay-Equip.	4,310 00	4,257 24		52 76
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
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	19				
	20				
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	22				
	23				
	24				
	25				
	26				
	27				
	28				
	29				
	30				
2,644 92	TOTALS	156,323 00	149,452 23		6,870 77

CLAIMS PAID YEAR	OBJECT CODE NO.	DISTRIBUTION OF EXPENDITURES		CLASSIFICATION	CLAIMS PAID MONTH OF
					⁴ June July 1973
1,410.00	7111	1	Per Diem: Commission Members	1	
90,961.38	7112	2	Salaries: Employees	2	
491.68	7151	3	Industrial Insurance	3	125.05
3,801.31	7153	4	F.I.C.A.	4	226.25
4,548.58	7155	5	Retirement	5	
1,350.54	7156	6	Health Insurance	6	150.06
315.00	7159	7	Personnel Commission	7	
		8		8	
	7215	9	Professional Services: Engineer	9	
3,392.00	7219	10	Professional Services: Other	10	1,254.00
		11		11	
632.20	7221	12	Travel - State: Mileage	12	
1,617.00	7222	13	Subsistence	13	
	7223	14	Public Transp.	14	
2,066.03	7224	15	Vehicle Expense	15	110.51
72.91	7225	16	Reg. Fees; Parking; etc.	16	
		17		17	
848.00	7232	18	Travel - Out of State: Subsistence	18	
1,489.16	7233	19	Public Transp.	19	
	7234	20	Airport Parking	20	
271.95	7235	21	Reg. Fees; Telephone; etc.	21	
		22		22	
22,193.52	7251	23	Occupancy: Office Rent	23	
1.00	7261	24	Warehouse Rent	24	
	7263	25	Warehouse Mtn. & Repair	25	
380.48	7272	26	Mtn. & Repairs: Furn. & Equip.	26	
2,676.54	7280	27	Office Supplies	27	373.99
7,234.34	7300	28	Field Supplies; Film; Am.Strat; P.I., etc.	28	35.65
1,852.69	7331	29	Printing: Reports; Large Maps; etc.	29	155.70
	7332	30	Legal Advertisement	30	
24.50	7333	31	Court Reporter, Notary Commission, etc.	31	
862.69	7334	32	Postage	32	
2,467.80	7335	33	Telephone	33	
17.82	7337	34	Drayage; Express; etc.	34	
67.27	7349	35	Rental, Misc.	35	
143.60	7360	36	Dues & Subscriptions	36	
		37		37	
299.18	7431	38	Capital Outlay: Office Equip; Tpr; etc.	38	213.71
630.06	7434	39	Spec. Equip. (Geol.)	39	
3,328.00	7436	40	Automobile	40	
		41		41	
	7913	42	Revolving Fund	42	
		43		43	
		44		44	
		45		45	
		46		46	
		47		47	
		48		48	
		49		49	
		50		50	
		51		51	
		52		52	
		53		53	
		54		54	
		55		55	
149,452.23			TOTAL		2,644.92

MONTHLY FINANCIAL REPORT

1 RECEIPTS MONTH OF <i>July</i> 1973 -0-	2 RECEIPTS CLASSIFICATION	3 APPROPRIATED RECEIPTS	4 UNAPPROPRIATED RECEIPTS	5 TOTAL ALL RECEIPTS YEAR TO DATE
	1 Permits to Drill			-0-
	2			
	3			
	4			
	5			
	6			
	7			
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	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	TOTAL CURRENT MONTH RECEIPTS		-0-	XXXXXX
XXXXXX	TRANSFERS IN			
	BALANCES BROUGHT FORWARD		3,126 83	XXXXXX
-0-	TOTALS - MONTH AND YEAR TO DATE		3,126 83	-0-

6 CLAIMS PAID MONTH OF <i>July</i> 1973 8,046 00 715 18 - - 6,297 61 1,955 20	7 EXPENDITURES FUND TITLES	8 TOTAL AMOUNT AVAILABLE YEAR TO DATE	9 CLAIMS PAID YEAR TO DATE	10 OUTSTANDING ENCUMBRANCES	11 UNENCUMBERED BALANCE
	1 Personal Services	25,250 00	8,046 00	-	17,204 00
	2 Emp. Related Exp.	3,125 00	715 18	-	2,409 82
	3 Professional Services	550 00	-	-	550 00
	4 Travel - State	2,100 00	-	1,200 00	900 00
	5 Travel - Out of State	3,400 00	-	-	3,400 00
	6 Other Operating Exp.	25,300 00	6,297 61	17,700 70	1,301 69
	7 Capital Outlay-Equip.	2,800 00	1,955 20	317 30	527 50
	8				
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	30				
17,013 99	TOTALS	62,525 00	17,013 99	19,218 00	26,293 01

CLAIMS PAID YEAR TO DATE	OBJECT CODE NO.	DISTRIBUTION OF EXPENDITURES CLASSIFICATION	CLAIMS PAID MONTH OF July 1973
8,046.00	7111	1 Per Diem: Commission Members	
	7112	2 Salaries: Employees	8,046.00
	7151	3 Industrial Insurance	
235.34	7153	4 F.I.C.A.	235.34
479.84	7155	5 Retirement	479.84
	7156	6 Health Insurance	
	7159	7 Personnel Commission	
		8	
	7215	9 Professional Services: Engineer	
	7219	10 Professional Services: Other	
		11	
	7221	12 Travel - State: Mileage	
	7222	13 Subsistence	
	7223	14 Public Transp.	
	7224	15 Vehicle Expense	
	7225	16 Reg. Fees; Parking; etc.	
		17	
	7232	18 Travel - Out of State: Subsistence	
	7233	19 Public Transp.	
	7234	20 Airport Parking	
	7235	21 Reg. Fees; Telephone; etc.	
		22	
5,548.38	7251	23 Occupancy: Office Rent	5,548.38
	7261	24 Warehouse Rent	
	7263	25 Warehouse Mtn. & Repair	
250.00	7272	26 Mtn. & Repairs: Furn. & Equip.	250.00
169.52	7280	27 Office Supplies	169.52
14.50	7300	28 Field Supplies; Film; Am.Strat; P.I., etc.	14.50
	7331	29 Printing: Reports; Large Maps; etc.	
	7332	30 Legal Advertisement	
	7333	31 Court Reporter, Notary Commission, etc.	
	7334	32 Postage	
	7335	33 Telephone	
	7337	34 Drayage; Express; etc.	
65.21	7349	35 Rental, Misc.	65.21
	7360	36 Dues & Subscriptions	
		37	
1,955.20	7431	38 Capital Outlay: Office Equip; Tpr; etc.	1,955.20
	7434	39 Spec. Equip. (Geol.)	
	7436	40 Automobile	
		41	
250.00	7913	42 Revolving Fund	250.00
		43	
		44	
		45	
		46	
		47	
		48	
		49	
		50	
		51	
		52	
		53	
		54	
		55	
17,013.99		TOTAL	17,013.99



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

August 3, 1973

MEMO TO: John Bannister, Executive Secretary

MEMO FROM: W. E. Allen, Director-Enforcement Section

This memo is intended to bring you up to date on happenings of interest that occurred while you were on vacation.

Aritex Development plugged their two wells on 7-24-73. A Haliburton plug was placed at approximately 700' and 7" casing and 4" tubing were filled with cement. I witnessed this plugging operation. Since the plugging of these wells, I have received information from Kermit Allen on this storage project. If we had had this information prior to the time Aritex plugged the wells, the plugging program would have been changed. Should Norman Eagleton request cancellation of the bonds on these wells while I'm away, please do not honor this request until I have had an opportunity to discuss the situation with you. I don't believe that there is any hazard involved in the manner in which this reservoir has been abandoned, however, I believe we should wait a while before releasing the bond.

I talked with W.S. Carpenter, Holbrook City Manager, regarding Aztec Development operations. He is unaware of any complaints of any nature concerning their operations in the Holbrook area. He also has no objections to the operators leaving the pits in place. He said that they did not contribute to the flooding situation in 1971 and could see no reason to level the pits so long as the owners of the property wanted to leave them intact. Tom Martin has indicated to me that they plan to attempt to establish another storage reservoir on this property some time in the future.

* * * * *

7-25-73

Al Medley and Kermit Allen with Fenix & Scisson and a Mr. Sorenson and Houston with Cal Gas were by today. They anticipated getting kicked off in about 30 days. Barnes will drill the well. They have just about abandoned the idea of installing a brine pit at this time. It is unnecessary while the reservoir is being created.

I believe it would be a good idea to suggest to Fenix & Scisson that scratchers and centralizers be used on the permanent string of casing to

Page 2

be cemented in this well. The scratchers and centralizers should be through the anhydrite section and on up through all fresh water zones. Apparently, we do not have the authority to require this additional protection, however, it would be helpful in assuring a good cement bond between the casing and the bore hole. If they were not willing to use scratchers and centralizers, perhaps they would agree to using Ruf-Kote or a similar product through the crucial interval.

* * * * *

Geothermal Kinetics is still fishing on their Power Ranches No. 2 well. They have four drill collars remaining in the hole and are attempting to wash over. Mike told me a few days ago that they were shutting-in their No. 1 well and would do no more pumping in the foreseeable future. They intend to run a series of temperature profiles on this well.

* * * * *

Zoller & Danneberg have not moved in to deepen the Republic Minerals well. I have talked to Tom Popp regarding this. He has promised to call this office when they were ready to move on location.

* * * * *

There will be a Navajo Tribal Oil & Gas Mining Lease Sale held in Window Rock on 8-28-73. The only Arizona acreage involved in this sale is in Township 40North - Ranges 26 and 27 East. A copy of the notification of the sale is on your desk.

* * * * *

Brown and Thorp requested cancellation of their bond on the Bullard Wash well. I checked this location and found that there was still considerable work that needed to be done before we could release the bond. I so informed Brown & Thorp. A picture of this location is in the file.

John, a copy of the correspondence from Senator Mack regarding the Tucson mining deal, together with my reply, is attached to this memo.

* * * * *

The information on the Humble State 74 No. 1, Eloy well, was released to the public July 27th. Numerous inquiries have been received regarding this well. Several requests for copies of the logs have also been received. Jack and I discussed the situation of handling the request of log reproductions. At my suggestion, and since we have two copies of each log, it was decided that when a request for a copy of the logs was received, we would send the logs to the requestee via certified mail and request the logs be returned in the same manner. One set of logs have been marked "copy", this is the lending set. The second set is marked "original", these will remain in the office at all times.

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Rhema will handle the mailing of these logs. We do not have this well on microfilm at this time. Should you have any questions regarding the above, Jack can fill you in.

* * * * *

We have received a request from Kerr-McGee to commingle oil from the old Humble Tract 88 and 138 with the remainder of oil produced from the Dinehbi-Keyah Field. Since all the oil is produced from the same pool and has the same ownership, I could see no objections. I talked with Phil McGrath about this and he was going to approve. Kerr-McGee's letter of request and my reply is attached to this memo.

* * * * *

8-2-73

Attended meeting of Plan Changes Subcommittee. The changes discussed pertained to Blue Cross and Blue Shield plans only. The disposition of premium rebates were discussed -- whether to reduce premiums or to purchase additional benefits -- the possibility of the funds reverting to the State General Fund, if the carrier was discontinued for any reason, was also a matter of discussion. Harry Pinney said the Legislative Council was drafting a bill regarding the above and he would circulate this legislative draft to all members for comments.

Recommendations for Plan Changes adopted:

1. Drop Plan "C"
2. Adopt D.P.S. Plan in place of Plan "C". If final adoption is approved, this will be called Plan "H". The cost of D.P.S. Plan would be \$61.00 monthly family rate and \$22.50 single.
3. Raise maximum liability from \$50,000 to a maximum of \$250,000. The additional cost would be 42¢ per month per family.
4. Remove \$600 deductible for pregnancy and have the carrier pay the first \$250 (\$150 to hospital and \$100 to doctor) the balance of the cost of normal pregnancy to be paid by the employee. This would cost approximately \$1.20 additional for family.

A portion of the forementioned refund could possibly be used to cover additional cost that might be incurred because of plan changes. This will require an opinion from the Attorney General.

Discussion on a dental program and split rates were tabled. Blue Cross will offer a program for normal retirees at the prevailing price. This would be a one year trial basis and after one year the cost will be adjusted.

* * * * *

In a recent conversation with Bill Shafer of the Environmental Health Services regarding water analysis, it was suggested that we acquire an electric conductivity meter. This instrument would enable us to take instant checks on the quality of any produced water. These field checks could then be followed up

Page 4

by a complete analysis at the State Lab.

It is my opinion that this conductivity meter would be a valuable tool if we are going to be faced with a fair amount of activity where water disposal might be a problem. This is being mentioned now because the budget is being prepared, and this particular item would cost approximately \$300.

The Production Curves have been completed starting with January 1970 to the present. When I return we will check these for accuracy.

WEA/rlb

MEETING NOTICE
PLAN CHANGES SUBCOMMITTEE
1502 West Jefferson
Thursday, August 2, 1973
1:00 P.M.

There will be a meeting of the Plan Changes Subcommittee in the Health Insurance Section Conference Room at 1502 West Jefferson on Thursday, August 2nd, at 1:00 P.M. Please note the new address--we have moved to the east half of the building where we were located.

This meeting has been called at the request of Herb Bool of Martin Segal in order to discuss the suggested benefit changes and costs. We must finalize our plans at the earliest possible moment in order to be ready for the enrollment periods.

See you Thursday.

HRP:wb

RECEIVED

AUG 01 1973

O & G CONS. COMM.

July 31, 1973

Mr. C. J. Breeden
Kerr-McGee Corporation
626 Amarillo Petroleum Building
Amarillo, Texas 79105

Re: Comingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Dear Mr. Breeden:

We have thoroughly studied your request regarding the comingling of oil produced in the Dineh-bi-Keyah Field and have also discussed the situation with Phil McGrath of the United States Geological Survey in Farmington.

If approval for the comingling of oil from the Navajo Tract 88 and 138 with the oil produced from the remainder of the Dineh-bi-Keyah Field receives no objections from the U.S.G.S. or the Navajo Tribe, then this Commission will concur with their approval.

If comingling is approved by all regulatory bodies, this Commission will still require the individual G.O.R. well test as it has in the past.

If we can be of any help to you in this matter, please let us know.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb



KERR-MCGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105

July 25, 1973

PHONE
806 376-7255

State of Arizona
Oil and Gas Conservation Commission
4515 North Seventh Avenue
Phoenix, Arizona 85013

Attention: Mr. John Bannister

Re: Commingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Kerr-McGee Corporation requests permission to meter and commingle the production from Navajo Tract 88, Navajo Tribal Lease Number 14-20-0603-8812, and Navajo Tract 138, Navajo Tribal Lease Number 14-20-0603-8876, with the production from the Navajo Lease, Navajo Tribal Lease Number 14-20-0603-8823, and Navajo "B" Lease, Navajo Tribal Lease Number 14-20-0603-8889.

The production from these leases are handled in the following manner at the present time.

There are three (3) producing wells on the Navajo Tract 88. Well Numbers Two (2) and Three (3) are produced into four (4) 400 barrel tanks. Well Number One (1) is produced into another 400 barrel tank. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

State of Arizona
July 25, 1973
Page -2-

Well Number One (1) is the only producing well on the Navajo Tract 138. It is producing into six (6) 400 barrel tanks. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

The LACT units are powered by gas driven generators. Often last winter, fuel could not be transported to run these LACT units and casinghead gas was also unavailable. This caused considerable down time for these wells.

Kerr-McGee desires to replace the LACT unit and storage tank system with Floco positive displacement meters installed to meter the production from the Navajo Tract 88 Well Numbers Two (2) and Three (3) and Navajo Tract 138 Well Number One (1). The production from the Navajo Tract 88 Well Number One (1) will continue to be measured in a tank. A 400 barrel tank will be retained at both leases to test and calibrate the meters.

Kerr-McGee intends to install power lines to the above wells which will be metered. Electric motors will be used to power the pumping units and this should decrease the down time on these wells, which has been encountered with the gas engines, which are now being used for power. Kerr-McGee's power plant does not have sufficient generator capacity to include power for the LACT units on the Tract 88 and 138 Leases. The electrical system will be installed so the meter count from each of the metered wells can be recorded on a counter at the Kerr-McGee Warehouse. This will allow better observance of each wells performance.

Metering and commingling such as this has been approved for the Navajo "B" Lease by the United States Geological Survey and the Arizona Oil and Gas Conservation Commission. The working and royalty interest are identical for all of the producing leases in the field with Kerr-McGee Corporation owning all of the working interest in the field.

Granting this request will minimize the wells shut-down time due to inaccessibility of the locations during adverse weather conditions such as were encountered last winter.

State of Arizona
July 25, 1973
Page -3-

Your earliest possible approval of this proposal will be appreciated since this work needs to be completed before winter.

Sincerely yours,

KERR-McGEE CORPORATION

C. J. Breeden

C. J. Breeden
District Production Superintendent

CJB/mm

July 19, 1973

Senator James A. Mack
Senate Natural Resources and
Environmental Committee
State Capitol
Senate Wing
Phoenix, Arizona 85007

Dear Senator Mack:

Mr. Bannister is on vacation and has requested that I convey to you this Commission's position in regard to Continental Oil Company's drilling activities in the South Tucson Mountain area. Conoco's activities in this area, as well as in the Florence vicinity, are strictly in the interest of validating mining claims. This company has prospecting drilling permits which authorize them to evaluate the mineral prospects, specifically copper, under these particular claims.

The Oil and Gas Commission has been aware of Conoco's activities for some time. In fact, the writer has inspected their operations in order to determine the extent of their exploratory drilling program. We have also contacted Conoco's executive offices in Stamford, Connecticut to have this company confirm to us that the drilling they were doing was strictly in search of minerals and was not being carried out on an existing oil and gas lease.

Rule 203 of the Rules and Regulations of the Oil and Gas Conservation Commission of the State of Arizona states in part: "Any hole drilled for stratigraphic purposes provided in a valid and subsisting oil, gas and helium lease, must comply with all rules and regulations pertaining to the drilling of a well." Since Conoco is not carrying out their exploratory program on oil, gas, helium or geothermal resource leases, this Commission is without authority to regulate or intervene in this matter.

While on the subject of project drilling for minerals, allow me to suggest that this Commission would certainly appreciate, and I am sure find very valuable, the ability to acquire certain geological information that the mining companies gather in the search for hard minerals.

Page 2
Senator Mack
June 19, 1973

The mining companies are generally very reluctant to share any geological information that they accumulate.

If this Commission can be of service to you or your committee, please let us know.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

5824 W. Tumbling F ST.

Tucson, Arizona 85713

July 8, 1973

Senator James Mack
1101 E. Broadmor Drive
Tempe, Arizona 85282

Dear Senator Mack,

I recently had occasion to talk to Senator John Scott Ulm about the activities of the Continental Oil Co. (conoco) in the south Tucson Mountains area. Senator Ulm suggested the possibility of convening the Natural Resources and Environment Committee in Tucson to investigate their exploratory program.

I personally feel that this is an excellent idea as the results of such an investigation could only be beneficial to all the people of Arizona. We hope your committee, after their inquiry, they might suggest legislation which would protect all the people of Arizona. Please advise me as soon as possible as to whether or not such an investigation is possible. Thanking you in advance for your assistance and looking forward to meeting you in the near future.

Sincerely,

John Dore

John Dore

Pres. S.M.A.R.T.

RECEIVED

JUL 14 1973

O. S. G. CONS. COMM.

JAMES A. MACK
DISTRICT 27
STATE CAPITOL - SENATE WING
TELEPHONE 271-5564



COMMITTEES:
NATURAL RESOURCES AND
ENVIRONMENT, CHAIRMAN
TRANSPORTATION
AGRICULTURE, COMMERCE AND LABOR

Arizona State Senate
Phoenix, Arizona
July 17, 1973

Mr. John Doré
5824 W. Tumbling F. Street
Tucson, Arizona 85713

Dear Mr. Doré:

Thank you for the recent letter you wrote me after visiting with Senator Ulm, with regard to activities of Conoco Oil Company in the South Tucson Mountains area.

Prior to calling for an investigation by the Senate Committee on Natural Resources and Environment, I feel an obligation to the taxpayers to first refer the matter to the proper state agency to review the facts surrounding their exploratory program.

As soon as I have a report from the Oil and Gas Conservation Commission, I will contact you and Senator Ulm.

Thanking you for your interest and concern, I am

Sincerely,

James A. Mack, Chairman
Senate Natural Resources & Environment Committee

e.
cc: Senator John Scott Ulm
John Bannister, Executive Secretary ✓
State Oil & Gas Conservation Commission

RECEIVED
JUL 16 1973
O & G CONS. COMM.

JAMES B. ROLLE, JR.
BRYANT W. JONES
F. KEITH BENTON
RONALD F. JONES
TOM C. COLE
WALDO W. ISRAEL
LARRY W. SUCIU

LAW OFFICES
ROLLE, JONES, BENTON & COLE
350 WEST 16TH STREET, SUITE 300
POST OFFICE BOX 5240
YUMA, ARIZONA 85364

TELEPHONE 783-7895
AREA CODE 602

July 30, 1973

Oil and Gas Conservation Commission
4515 North Seventh Avenue
Phoenix, Arizona 85013

Gentlemen:

I am in receipt of the July 12, 1973 correspondence indicating the August meeting will be held in Flagstaff on August 17, 1973. I have just returned from vacation and find an extremely busy trial schedule in August. If it appears that the remaining members of the Commission will be present, I will not attempt to attend.

Very truly yours,

ROLLE, JONES, BENTON & COLE

F. Keith Benton
F. Keith Benton

FKB:amw



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

July 12, 1973

THE REGULARLY SCHEDULED MEETING
FOR JULY 20, 1973 WILL NOT BE
HELD BECAUSE A QUORUM WILL NOT
BE PRESENT.



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

July 12, 1973

Memo: Commissioners
From: John Bannister

Since our last meeting the Commission's financial year has ended June 30, 1973. All necessary documents to close out the 1972-73 fiscal year have been completed and we are now into the 1973-74 budget.

In this connection, we have ordered the 3M Reader. As you will recall, this machine is the one which will be used in read-out and printing information from our microfilm files. This instrument should be received in this office in the near future.

The State Finance Department has been aiding us in setting up a schedule of charges for reproduction of our various records and selling maps, etc., in accordance with A.R.S. 27-515.4 which, as you will recall, was the bill authorizing the Commission to make these charges and passed in the last session of the Legislature. The Finance Department will develop a system of charges and accounting for monies received. It is anticipated that these recommended charges will be presented to you gentlemen in August at our next meeting for your approval. Upon approval, we will institute these charges effective September 1st.

The next meeting of the Commission will be held in Flagstaff on or about August 17th. Of course, prior to this meeting I will get together with Mr. Bilby and set the meeting up. You will be advised in plenty of time as to what facilities have been chosen.

Fenix & Scisson, Inc., have indicated to us that they intend to install an underground storage facility for CAL-GAS in the salt dome located west of Phoenix and near Luke Air Force Base. Apparently all problems of zoning, etc., have been worked out and it is anticipated that initial work will be commenced some time in August. They anticipate creation of underground storage in the neighborhood of 500 thousand

Memo: Commissioners
7-12-73
Page 2

barrels of propane and the creation of brine storage at the surface of approximately an equal amount. The brine will be used to displace the propane for production and, as the propane is pumped into the caverns for storage, the brine, in turn, will be displaced. Jerry Grott of Southwest Salt Company will dispose of the salt brine resulting from the creation of the storage cavern itself.



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

ACTIVITY REPORT

July 17, 1973

Memo from W. E. Allen, Director
Enforcement Section

The much predicted gasoline shortage may be easing up a bit.

"For the third week in a row, gasoline stocks continued in a contraseasonal rise. The American Petroleum Institute reported that refinery runs for the week ending June 22 averaged 13,109,000 bbls per day compared with 12,893,000 bbls the previous week and 11,948,000 bbls a year ago. It was the fourth record in the last five weeks. API reported that stocks have risen 908,000 bbls this year compared with a decline of about 6.5 million bbls in the same length of time last June. Gasoline stocks are still 7,000,000 bbls below last year. Inventories of heating oils remain above 1972 levels."

In my opinion, the fuel situation could become very critical if the coming winter should be severe. Last winter fuel oil was in fairly plentiful supply. Since refiners are now concentrating heavily on manufacturing gasoline, fuel oil as well as natural gas could very well be in short supply.

The week of July 8 was spent in the field. Kerr-McGee is just now getting all their wells in the Dineh Bi Keyah Field back on production following the severe winter. Roads to several of their wells were blocked by mud slides during the spring thaw and one pumping unit serving the Humble 88-3 was completely destroyed by a mud slide. This well was placed back on production July 11.

American Fuels is drilling on their sixth well in the Four Corners area and have plans to install a gathering system in order to have a market for their gas. The proposed pipe line has been surveyed. American Fuels has assumed operational responsibility for the two gas wells drilled by Cities Service.

Universal Resources has submitted an Application to Drill a Pennsylvanian Test in Section 22-T40N-R29E, Apache County. This will be their second test in the area and is a south offset to their Navajo 1-15 that was drilled last year. The Permit will be issued as quickly as a bond for this well is received.

Page 2
July 17, 1973
Activity Report - W. E. Allen

Ari-Tex Development Corporation has decided to abandon the L P G Storage project in Holbrook. We will witness the plugging of the holes involved in this project.

Geothermal Kinetics is having considerable mechanical difficulties on their Power Ranches No. 2. They have been fishing for stuck drill pipe and drill collars for over three weeks. At the last report they were attempting to wash over the drill collars. Some difficulty has also been experienced with the Reda Pump in the Power Ranches No. 1. When this well is pumping, the produced water is too cool to flash to steam.

We are in the process of drawing production curves on all producing wells in the State. Our initial plans are to plot these curves from 1970 forward, however, it may be advisable to go back to the first production on some wells. These curves could be helpful in determining spacing patterns, production and conservation practices.



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4315 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

ACTIVITY REPORT

July 16, 1973

J. N. Conley
Director, Geology Section

PUBLICATIONS

Sources of Information Booklet. One hundred copies of this completely revised and expanded booklet have been offset printed. To date approximately 66 copies have been distributed to interested persons, companies, libraries and governmental agencies.

Bouguer Gravity Anomaly Map of Arizona. Preparation of this map by the Geophysical Laboratory, Geosciences Department, The University of Arizona, for publication was financed by this Commission through a technical assistance grant obtained from the Four Corners Regional Commission. The map has been completed; approximately 73 copies will be distributed for us by the Four Corners Regional Commission.

Station density varies from very good to poor. The best control is within the valleys and basins of Maricopa, Pima, and Cochise Counties. The map will be particularly useful in these areas to professional and scientific personnel interested in many disciplines, including those pertaining to the search for petroleum, geothermic, hydrologic and metallic resources.

Oil and Natural Gas Occurrence in Arizona. The principal purpose of this publication was to provide a ready reference in chart form showing the geologic stratigraphic unit or period in which shows of petroleum have been noted in Arizona, and information relative productive horizons, discovery date, number and status of wells, cumulative production and the deepest stratigraphic unit reached in the oil and gas pools found to 1/1/73 in northeastern Apache County.

It is currently classified as a Preliminary Open-File publication; only a limited distribution will be made at this time.

Activity Report
July 16, 1973
Page Two

Holbrook Area Well Location & Geologic Base Map. This map, and the accompanying tabulation of wells, has been completed. The principal purpose of this Preliminary Open-File publication was to provide a suitable controlled base map for use by this Commission and others in preparing local and regional subsurface geologic structure, isopachous and other types of maps that will be useful in evaluating the oil, natural gas, helium, halite, potash and water resources of the Holbrook area. To facilitate the use of the map in geologic and other kinds of investigations the tabulation presents pertinent data and references to the basic records of 435 wells drilled for oil, gas, helium, and water, and wells drilled for stratigraphic and other information purposes.

PUBLICATIONS PLANNED - FIRST & SECOND QUARTER

County Well Location Maps. Mohave and Yavapai County maps will be printed in August; Pima-Santa Cruz in September or October.

Compilation of Important Paleozoic Stratigraphic Measured Sections. Work has been resumed on this project. A map will show the location of the outcrop sections. It will be supplemented with a tabulation of the outcrop sections listing the key number shown on the map, location by township, range and section, the principal stratigraphic interval encompassed by the section, name, and the number(s) of the references in which the section is described or mentioned.

INVESTIGATIVE PROJECTS --

Four Corners Regional Commission Technical Assistance Grant. The contract specified that four projects were to be completed by June 30, 1973: 1) Geophysical investigation of the Holbrook area; 2) Geophysical investigation of valleys and basins in southeastern Arizona; 3) Publication of a Bouguer gravity anomaly map of Arizona; and 4) A study of the biostratigraphy of the Kaibab Formation in northern Arizona.

Number 1 was completed early this year. It resolved some subsurface problems, but the sparse gravity station density materially reduces its usefulness in the preparation of subsurface geological interpretations.

Number 2 was received recently. A preliminary examination indicates that it will be a very useful report to this Commission, governmental agencies, academic institutions, the oil industry, and the mining industry.

Activity Report
July 16, 1973
Page Three

Number 3 - completed and discussed on Page 1 of this activity report.

Number 4 - project abandoned.

Current Projects - Subsurface.

Subsurface investigation of Dineh-bi-Keyah field. Correlation of Pennsylvanian stratigraphic units in this field with those of oil and gas pools in the northeast corner of the state is progressing satisfactorily. Log studies are developing some interesting occurrences of intrusive igneous sills in many different units ranging in age from the Devonian to the Cenozoic Pliocene (?).

Subsurface investigation of the East Boundary Butte pool area in Apache County.

Preliminary maps of the topography on top of the Precambrian basement surface, Devonian thickness and paleogeography of the Holbrook area in Apache, Navajo and Coconino Counties, utilizing gravity and magnetic control, have been completed. The interpretations are highly speculative because of the very poor gravity station density and limited deep subsurface well control.

Current Projects - Miscellaneous.

A card file of all wells, primarily water, for which we have drill-bit cuttings in our library, or for which the Museum of Northern Arizona has lithologic or drillers' logs, is being updated.

* * * * *

A viewer and print-out machine for our microfilms of well data and logs has been received. Print-out copies of many of the logs at a reduced scale (1"=100') will be made for use by the Geology Section of this Commission.

EXPLORATION ITEMS

Mobil Oil Corporation has requested that it be placed first in line to examine the drill-bit cuttings of the Exxon Company U.S.A. 1 State (74) in Pinal County. The confidentiality period for this stratigraphic test hole expires the 27th of this month. It may not be possible to accede to the request, as American Stratigraphic Company is presently first on the list, if it decides to examine the cuttings.

Activity Report
July 16, 1973
Page Four

Based on oral communications, Mobil's research department is continuing micropaleontological studies of drill-bit cuttings of wells drilled in the Basin and Range province. Two or more Mobil geologists are planning to visit this office later this week, and then go to the field to check some areas on the ground.

* * * * *

Arizona Public Service Company is establishing a small group to screen submitted oil and gas deals. W. Ferguson, exploration coordinator for APS, and E. Buell, vice president, Research and Development Company, both of Phoenix, visited this office recently to get copies of Commission publications. A Joe A. Laird, consulting petroleum geologist and engineer, Houston, Texas, has been retained by APS to evaluate submittals selected by the local "screening" group.

* * * * *

The Arizona State Land Department expects to complete soon an investigation of areas in the State possibly offering geothermal resources. Geothermal leases on State Lands on prospects developed will be offered to industry and interested persons via the competitive filing route.

GENERAL

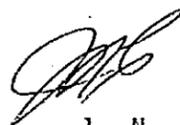
Fenix & Scisson, consulting engineering firm, Tulsa, Oklahoma, have a client interested in developing salt caverns for the storage of natural gas. Such caverns must be located near a gas transmission pipe line. The salt body at Luke is one being investigated.

* * * * *

Ed R. Hayes, consulting engineer, Salt Lake City, Utah, will possibly visit this office soon relative plans to develop salt production in the Detrital Valley area, Mohave County.

* * * * *

A recent slight increase in requests for some of our publications may have been occasioned by their listing in the completed environmental reports released this month by the Colorado Plateau Environmental Advisory Council.



J. N. C.

JNC:st

MONTHLY FINANCIAL REPORT

1 RECEIPTS MONTH OF June 1973 50 00	2 CLASSIFICATION	3 RECEIPTS	4 APPROPRIATED RECEIPTS	5 UNAPPROPRIATED RECEIPTS	6 TOTAL ALL RECEIPTS YEAR TO DATE
	1 Permits to Drill			50 00	700 00
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
50 00	TOTAL CURRENT MONTH RECEIPTS			50 00	XXXXXX
XXXXXX	TRANSFERS IN				
	BALANCES BROUGHT FORWARD			3,076 83	XXXXXX
	TOTALS - MONTH AND YEAR TO DATE			3,126 83	700 00

6 CLAIMS PAID MONTH OF June 1973 7,914 24 989 32 525 03 382 76 493 02 571 48	7 EXPENDITURES FUND TITLES	8 TOTAL AMOUNT AVAILABLE YEAR TO DATE	9 CLAIMS PAID YEAR TO DATE	10 OUTSTANDING ENCUMBRANCES	11 UNENCUMBERED BALANCE
	1 Personal Services	94,238 00	92,371 38	-	1,866 62
	2 Emp. Related Exp.	11,025 00	10,005 75	503 67	515 58
	3 Professional Services	3,400 00	2,138 00	1,262 00	-0-
	4 Travel - State	7,350 00	4,282 63	408 99	2,658 38
	5 Travel - Out of State	3,500 00	2,609 11	-	890 89
	6 Other Operating Exp.	32,500 00	31,356 91	793 86	349 23
	7 Capital Outlay-Equip.	4,310 00	4,043 53	213 71	52 26
	8				
	9				
	10				
	11				
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	28				
	29				
	30				
10,876 35	TOTALS	156,323 00	146,807 31	3,182 23	6,333 46

1 CLAIMS PAID YEAR TO DATE	2 OBJECT CODE NO.	3 DISTRIBUTION OF EXPENDITURES CLASSIFICATION	4 CLAIMS PAID MONTH OF <i>June</i> 19
1,410.00	7111	1 Per Diem: Commission Members	180.00
90,961.38	7112	2 Salaries: Employees	7,234.74
366.63	7151	3 Industrial Insurance	
3,575.06	7153	4 F.I.C.A.	452.50
4,548.58	7155	5 Retirement	386.76
1,200.48	7156	6 Health Insurance	150.06
315.00	7159	7 Personnel Commission	
		8	
	7215	9 Professional Services: Engineer	
2,138.00	7219	10 Professional Services: Other	
		11	
632.20	7221	12 Travel - State: Mileage	87.80
1,617.00	7222	13 Subsistence	207.00
	7223	14 Public Transp.	
1,955.52	7224	15 Vehicle Expense	226.48
77.91	7225	16 Reg. Fees; Parking; etc.	3.75
		17	
848.00	7232	18 Travel - Out of State: Subsistence	188.00
1,489.16	7233	19 Public Transp.	179.76
	7234	20 Airport Parking	
271.95	7235	21 Reg. Fees; Telephone; etc.	15.00
		22	
22,193.52	7251	23 Occupancy: Office Rent	
1.00	7261	24 Warehouse Rent	
	7263	25 Warehouse Mtn. & Repair	
380.48	7272	26 Mtn. & Repairs: Furn. & Equip.	47.99
2,302.55	7280	27 Office Supplies	58.19
1,198.69	7300	28 Field Supplies; Film; Am.Strat; P.I., etc.	14.50
1,696.99	7331	29 Printing: Reports; Large Maps; etc.	
	7332	30 Legal Advertisement	
24.50	7333	31 Court Reporter, Notary Commission, etc.	
862.69	7334	32 Postage	230.00
2,447.80	7335	33 Telephone	384.34
17.82	7337	34 Drayage; Express; etc.	
67.27	7349	35 Rental, Misc.	
143.60	7360	36 Dues & Subscriptions	8.00
		37	
85.47	7431	38 Capital Outlay: Office Equip; Tpr; etc.	37.96
630.06	7434	39 Spec. Equip. (Geol.)	533.52
3,328.00	7436	40 Automobile	
		41	
-0-	7913	42 Revolving Fund	(250.00)
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146,807.31		TOTAL	10,876.35