

OIL & GAS CONSERVATION COMMISSION  
Meeting: September 21, 1984  
A. K. Doss, Executive Director



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
1645 WEST JEFFERSON, SUITE 420  
PHOENIX, ARIZONA 85007  
PHONE: (602) 255-5161

A G E N D A

Meeting  
September 21, 1984  
1645 West Jefferson, Room 420  
Phoenix, Arizona

10:00 A.M.

Call to order

1. Approval of Minutes of Meeting of February 24, 1984
2. Report of Executive Director  
A. K. Doss covers items pertaining to Legislation, Administration and Field Inspections
3. Report of Enforcement Section  
R. A. Ybarra reports on Well Operations
4. 1985 - 1986 Budget Approval
5. Executive Session for Audit Review pursuant to ARS 38-431.03.A.2 & ARS 41-1279.05
6. Adjourn

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



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**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
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TO THE HONORABLE SECRETARY OF STATE  
AND THE CITIZENS OF THE STATE OF ARIZONA

Pursuant to A.R.S. § 38-431.02, notice is hereby given that a regular meeting of the Oil and Gas Conservation Commission will be held at 10:00 a.m. on September 21, 1984 at the Commission's offices at 1645 West Jefferson Street, Suite 420, Phoenix, Arizona.

Notice is hereby also given pursuant to A.R.S. § 38-431.02.B. that in the course of the regular meeting, the Commission may go into Executive Session for advice from legal counsel pursuant to A.R.S. § 38-431.03.A.3.

Dated this seventh day of September 1984.

OIL AND GAS CONSERVATION COMMISSION

By

  
A. K. Doss  
Executive Director

Telephone Contact: 255-5161

OIL AND GAS CONSERVATION COMMISSION  
1645 West Jefferson Street  
Suite 420  
Phoenix, Arizona 85007

Minutes of Meeting  
February 24, 1984

Present:

Mr. Ralph W. Bilby, Chairman  
Dr. J. Dale Nations, Vice-Chairman  
Mr. L. A. Palmer, Member  
Mr. Forrest R. Rickard, Member  
Mr. Watson M. Tomerlin, Member

The regular Commission meeting of February 24, 1984 was called to order by Ralph W. Bilby, Chairman, at 10:00 a.m.

Mr. Palmer moved to accept the minutes of the November 18, 1983 meeting, and Dr. Nations seconded the motion. Motion carried.

Ralph J. Pomeroy of Cam-Roy Research and Development Corporation and Dr. Ellis Armstrong, former Commissioner of Reclamation for the U. S. Government, requested an extension of time for a temporary abandonment involving two Powers Ranch geothermal wells which were permitted to Geothermal Kinetics, Inc. These wells are located in Higley, Arizona, which is east of Chandler. It is necessary to move in a rig to service the wells, and adequate time to evaluate the wells will be needed to determine if further exploration work is justified in that area for a proposed housing unit and use for domestic heat. Since Geothermal Kinetics wants to be relieved of plugging these wells, Mr. Pomeroy expressed an interest to assume that responsibility. If a bond is necessary, he will furnish it. Mr. Doss advised that this is a valuable project, and if successful, it would help the state considerably. Dr. Nations requested the present-day status of the wells. Casing has been set and it is necessary to check and rejuvenate the flow of steam. The wells are now shut in. The maximum temperature is 380°. Schlumberger made a detailed analysis. Mr. Pomeroy said it may be necessary to deepen the wells and he wants adequate time for the investigation. He plans to keep things moving. Mr. Palmer moved that a one-year extension from June 30, 1984 to June 30, 1985 be granted for this project, that Mr. Pomeroy is to supply a bond for the wells and that the project is to

proceed as quickly as possible. Mr. Rickard seconded the motion. Motion carried.

Mr. Doss advised he had a request from Paul Dowling of Dowling Petroleum in Midland, Texas for a six months' temporary abandonment of its #1-A State well south of Yuma. Mr. Bilby read a telegram addressed to him from Mr. Dowling which states:

"We formally request that the Dowling State #1-A well be placed on temporarily abandoned status for a 6-month period."

Mr. Doss stated since Paul Dowling had a business meeting in Dallas on the 24th and Sam Bakke, vice-president, was ill due to a flu epidemic in Midland, there was no representation from their firm at our meeting. An explanation of temporary abandonment was given by Mr. Doss who said that no work would have to be done in the six months' period unless the necessary funds were secured. The well is shut in and casing was run to 5,006', total depth. No log has been filed as it is not required until completion of the well. Dowling is required to file logs within 30 days from the date of the Commission's letter. Mr. Doss suggested to honor the temporary-abandonment request. Dr. Nations said the other option would be to plug and abandon the well right away, but there would be no benefit from their end and no contamination is involved. Mr. Doss stated if the well is abandoned, an application will have to be made to re-enter the well. Dr. Nations moved to grant the request to temporarily abandon the Dowling well for six months. Mr. Palmer seconded the motion. The motion carried.

Mr. Doss reviewed his activity report. He advised that the Commission was undergoing an audit by the Auditor General's office and also the sunset review. Mr. Bilby was recently interviewed and the remaining commissioners will be contacted. The audit should be completed by the first of September. A lump sum of \$138,000.00 for the fiscal year 1984 - 1985 has been recommended by the Executive Budget office and the Joint Legislative Budget Committee. An additional request of \$1,000.00 was made for printing costs, but approval has not been received from the subcommittees involved.

An explanation was given by Mr. Doss of Shell Oil Company's takeover of state acreage formerly belonging to Phillips Petroleum. Phillips drilled eight wells and the majority ended in granite. Shell's interest is in the counties of Mohave,

Minutes of Meeting  
February 24, 1984  
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Graham, Cochise, northwestern Maricopa, northern Yuma and southern La Paz. Dr. Nations stated that the Tombstone well proved a thrust fault. It is a matter of interpretation of Shell's taking over some of Phillips' acreage. Leasing itself is expensive. Rentals are \$1.00 an acre. In Cochise and Yuma Counties, acreage has gone to \$5.00 - \$7.50 an acre for private lands.

Mr. Ybarra, Enforcement Director, was in Apache County witnessing the second plugging of a well by Amerada Hess Corporation. While the plan was approved by the BLM and the BIA for Amerada Hess to initially plug the well, after the rig was removed, the Indians decided to plug and cement two more zones. It was necessary for Mr. Ybarra to attend the second plugging.

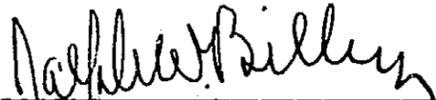
Messrs. Doss and Ybarra witnessed the location of Redbird Oil Company on "The Island" in the Yuma area. Due to the changing of the channel of the Colorado River, state trust lands which were located in Arizona became in California. While the rig is on the location, it needed work done on it. Solid rust was inside the mud pump. In drilling the surface hole, the main drive shaft was broken on the rig. Joe Faull, the operator, is going to request temporary abandonment until all the problems are solved. A fence has been built around the site for protection.

Dr. Nations advised that he, Mr. Doss and Mr. Ybarra wrote reports on oil development in Arizona for the Four Corners Geological Society, and they will be given to the Commissioners when completed.

The next meeting is scheduled for Friday, April 20, in Phoenix.

The meeting adjourned at 10:57 a.m.

APPROVED

  
\_\_\_\_\_  
Ralph W. Bilby  
Chairman

Minutes of Meeting  
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Guests in attendance were:

Ralph J. Pomeroy	Cam-Roy Research and Development Corp.
Neal Pomeroy	Cam-Roy Research and Development Corp.
Dr. Ellis Armstrong	Cam-Roy Research and Development Corp.
John Wactor	Attorney General's Office
Mark Jordan	State Land Department
Jack Nock	United Press International
Pat Krueger	Auditor General's Office
Cheryl Fruckter	Auditor General's Office
Walter Mattern	The Phoenix Gazette
Hector Villalobos	Bureau of Land Management
Jinette Karabees	



OFFICE OF

**Oil and Gas Conservation Commission**

STATE OF ARIZONA

1645 WEST JEFFERSON, SUITE 420

PHOENIX, ARIZONA 85007

PHONE: (602) 255-5161

ACTIVITY REPORT

September 7, 1984

A. K. Doss  
Executive Director

LEGISLATIVE

Met with Al Moore, Executive Vice-President, of Giant Industries and Mike Brophy, attorney, on January 5, 1984 in support of HB 2101 pertaining to refineries entitled to purchase oil taken in kind by the State Land Department on any future oil produced on State Trust Lands. Testified before the Senate Natural Resources Committee on March 31, 1984 on behalf of the amendment to the bill.

FIELD INSPECTIONS

1. Sanchez-O'Brien (SOB) bond release March 19, 1984. Met Charles Tucker, geologist, for SOB at the Roosevelt Lake location. The drill site was adequately cleaned up for bond release.
2. Central Oil Co. #1 Aman  
Witnessed setting of surface pipe in the Yuma area March 31, 1984 to April 4, 1984.
3. Central Oil Co. #1 MCP Blank (Yuma area)  
May 25, 1984 witnessed setting and cementing surface pipe.  
May 29, 1984 witnessed logging and abandonment.
4. High Plains Petroleum #1 Federal, Chambers, AZ.  
August 14, 1984 inspected location for clean-up and bond release. Pits still not back filled, etc. Notified cannot release bond until clean-up is accomplished.

ADMINISTRATIVE

1. POMEROY GEOTHERMAL PROJECT.

This project near Higley, AZ hasn't gotten started yet, but many meetings have taken place with Mr. Pomeroy who still has not filed bonds with the Commission. We are still holding Geothermal Kinetics' bonds in effect.

2. ARCO, Special Land Use Permits (SLUPS)  
Worked with ARCO and State Land Department to expedite issuing of the SLUPS for exploration work on state lands.
3. BUDGET  
A great deal of time has been spent in preparation for the budget request for FY 1985 - 86. At present we are working with \$138,000, but our request for FY 85 - 86 is \$158,400. The increase includes (not in our present budget) approximately \$10,000 for rent, \$1,000 for printing, the increase in personal services and employee related expenditures, etc.
4. The new pay package produced by DOA's personnel department will be a big headache for all agencies before it settles down, especially for the large agencies. Numerous meetings and workshops have been held so far in an attempt to explain it. There will no longer be any automatic merit increase, but rather merits by performance only.
5. FOUR CORNERS GEOLOGICAL SOCIETY (FCGS) REPORT  
There are copies of the final report for each of the Commissioners. The preparation of this report consumed considerable time for Dr. Nations, Mr. Ybarra and myself. FCGS hopes to have its report available to the public around the end of September. It will cost \$50 - \$60 per copy. I suspect this will limit its exposure; therefore, the Commission plans to publish our portion of the report as a regular part of our own publication list. This will give Arizona greater coverage.
6. RULES AND REGULATIONS  
Our Attorney General cannot give us a time certain when they can have our rules on hearings and re-hearings ready to present to the Governor's Regulatory Review Council; consequently, our public hearing is still somewhere in the nebulous future.
7. WATER QUALITY CONTROL COUNCIL MEETING  
This meeting was held in Show Low on August 15, 1984. The most crucial item on the agenda was the action to be taken against Phelps Dodge Corporation for failure to clean up pollution from the Morenci mine feeding into Sweetwater *chase* Creek and the San Francisco River. A subsequent lawsuit has been filed in Federal Court in an attempt to remedy the situation.  
  
Ask Commission to vote on going into Executive Session.
8. PERFORMANCE AUDIT AND SUNSET REVIEW  
This audit has been ongoing since January 1984. The Commission received the first draft of the audit on August 13, 1984. The staff filed a written response to the draft on

Activity Report  
Executive Director

Page - 3 -  
September 7, 1984

August 31, 1984 and another exit conference was held on September 4, 1984 in the Auditor General's offices. The draft contained numerous erroneous statements and omissions. Hopefully, these statements and omissions were taken care of at the September 4, 1984 conference.

As a result of the audit, the staff intends to revise R 12-7-110 pertaining to surface pipe requirements, increase the single well bond from \$5,000 to \$10,000 and give the Department of Water Resources ten days to reply to applications for permits to drill before issuing the permits. The audit draft is to remain in a confidential status until the Auditor General makes it public information.



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ACTIVITY REPORT

August 3, 1984

R. A. Ybarra  
Enforcement Director

During this report period two wildcat wells were drilled by Central Oil Co., Inc. in the south Yuma area and one well was re-abandoned in the Black Rock Field (inactive).

The two wells, No. 1 Aman in Sec. 5, T. 10 S., R. 23 W. and No. 1 MCP Blank in Sec. 32, T. 10 S., R. 23 W., were approved on March 15 and April 16, respectively.

Well No. 1 Aman was spudded on March 31, and after encountering lost-circulation problems was drilled to 700', the proposed depth for the surface casing (7 inch). Poor hole conditions prevented running of more than 200' of casing so the operator decided to pull the casing and under-ream and recondition the hole. On the second effort the operator managed to run 390' of casing. The fresh waters in this area are well above this depth so we gave approval to start cementing. The 7", 26 lb., K-55 casing was cemented at 390' with 65 sacks of cement without returns to the surface. With 3/4" PVC pipe hanging at 57', 2 yards of cement were displaced, filling the annulus to the surface. Unable to drill deeper than 2511', some 300' short of the basement objective, the operator decided to log and place the well on a "temporarily abandoned" status and wait for a larger capacity rig to resume drilling to basement. This larger rig would be available after drilling of the MCP Blank well.

Well No. 1 MCP Blank was spudded on May 24 and on May 25, we witnessed the cementing of 7", 26 lb., K-55 casing at 700' with 255 sacks of cement with returns to 24' below the surface. The well was drilled to 2550', logged, and plugged as per Commission requirements. The rig was moved to the Aman well location.

The Aman well was re-entered on June 5 and the hole was found in poor condition, especially at about 1800'. After reconditioning the hole, the well was deepened to 2883'. A complete suite of logs could not be run because of the hole conditions but Welx

managed to run an Induction Log in the deepened portion of the hole. A Sidewall Core Gun was run and managed to shoot 3 cores before hanging up at 2640'. After considerable effort the tool was worked loose and managed to fire an additional 24 cores. The hole was then reconditioned and 4½", 15 lb., casing was cemented at 2830' with 336 sacks of cement. The operator has requested a "temporarily abandoned" status on the well and plans to re-enter and test sometime in December.

In February, I reported on the abandonment operations that I witnessed on Amerada Hess Corp. Well No. 1 Navajo in Black Rock Field. I considered this a pretty decent abandonment by anybody's standards.

Anyway, the operator (Amerada) was "asked" to re-enter the well and do some additional work which I felt would not provide that much more protection to the well. To perform the additional work of shooting and squeezing holes in the 5½" casing at 3100' and 1550', the operator had to drill out the surface plug (12'-120') and mill out the cement retainer at 1000', plus the cement below the retainer. This does not consider the cost of the rig and the cost of replacing the drilled out plugs.

The quality of a drilling mud is engineered to protect against formation pressures and fluid entry while drilling the well. This is the same quality of mud that occupies the space behind the 5½" casing from 4300' ± to 1050'. Add to this the protection of the cement plugs below and above the mud column. In my judgment, and in this specific case, cement plugs in the place of good quality mud would add little to the integrity of the abandoned condition.

#### Oil Spill

On May 31, I received a call from Kerr-Mcgee in Amarillo, Texas to report an oil spill at the Dineh-Bi-Keyah Field, as follows:

A 6" oil-gathering line was damaged when a landslide occurred on May 28, spilling about 15 barrels of crude into a nearby wash. The crude traveled downslope some 100' before entering a fresh water stream which carried the crude several hundred feet to an existing collector pit where most of the spill was contained. However, small amounts were carried beyond the pit.

Cleanup operations were started immediately and completed under supervision of the BLM by June 4. The pipeline was repaired, all crude and contaminated waters were removed by vacuum trucks, and all oil-saturated soil was removed by hand and replaced with clean fill.

I immediately notified the Department of Health Services as listed in the Arizona Contingency Plan.

AGENCY OIL & GAS CONSERVATION COMMISSION

DIVISION \_\_\_\_\_ IDENTIFICATION CODE NO. \_\_\_\_\_

1		2		3		4	
CLAIMS PAID YEAR TO DATE		OBJECT CODE NO.	DISTRIBUTION OF EXPENDITURES CLASSIFICATION		CLAIMS PAID MONTH OF AUG. 1984		
6917	37	6011	1	Salaries: Staff	3942	62	
5034	65	6057	2	Appointed Official	2869	54	
		6058	3	Per Diem: Commission Members			
880	49	6111	4	Emp. Related: F.I.C.A.	476	86	
476	76	6113	5	Health Insurance	317	84	
54	00	6115	6	D&L Insurance	36	00	
62	91	6117	7	Unemployment Insurance	34	06	
98	97	6119	8	Workmen's Comp	58	82	
749	40	6155	9	Retirement	427	12	
150	98	6183	10	Personnel Com. Pro Rata Chg.	81	76	
61	62	6118	11	Dental Insurance	41	08	
		6293	12	Prof. Serv.: Court Reporter			
		6499	13	Cartographic Symbols			
		6499	14	Cartographer			
		6511	15	Travel-State: Air Fare			
		6531	16	Taxi			
		6541	17	Mileage-Private Vehicles			
95	67	6551	18	Mileage-State Vehicles	95	67	
		6569	19	Parking			
		6569	20	Telephone			
60	00	6581	21	Subsistence	60	00	
		6599	22	Registration Fees; Other			
		6611	23	Travel-Out of State: Air Fare			
		6631	24	Taxi			
		6639	25	Rail Fare			
		6641	26	Personal Auto			
		6669	27	Parking			
		6669	28	Telephone; Other			
		6681	29	Subsistence			
		6699	30	Registration Fee			
		7019	31	Legal Advertising			
		7036	32	Postage Stamps			
78	00	7044	33	Telephone Service: ATS Service (WATS)	78	00	
22	50	7045	34	Central System	22	50	
5	30	7046	35	Toll Service	5	30	
52	79	7047	36	Taxes, Dir. Assistance	52	79	
		7047	37	Miscellaneous			
689	64	7066	38	Insurance (Risk Management)			
		7103	39	Occupancy: Office Rent			
34	03	7188	40	Telephone Equip.: Lease/Rent	34	03	
		7311	41	Printing			
		7532	42	Furniture			
		7532	43	Adder/Calculator			
		7532	44	Reader/Printer			
70	00	7553	45	Typewriter			
247	50	7553	46	Copy Machine			
		7607	47	Library Supplies			
		7621	48	Stationery/Envelopes			
		7623	49	Printed Forms			
		7624	50	Reproduction Supplies			
		7625	51	Blue Prints/Office Supplies			
		7628	52	Printing Maps			
		7628	53	Printing Miscellaneous			
		7962	54	Revolving Fund			
		7967	55	Books			
TOTAL							

OFFICE

DO NOT WRITE BELOW THIS LINE

FIELD

AGENCY OIL & GAS CONSERVATION COMMISSION

DIVISION

IDENTIFICATION CODE NO.

1	2	3	4
CLAIMS PAID YEAR TO DATE	OBJECT CODE NO.	DISTRIBUTION OF EXPENDITURES CLASSIFICATION	CLAIMS PAID MONTH OF
	7971	1 Organization Dues	1
	7975	2 Registration Fees	2
	7997	3 Subscription; Newspaper	3
	7997	4 Technical Journal	4
626	6081	5 Temporary Help	5
		6	6
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		55	55
16,468	71	TOTAL	8633 99

OFFICE

DO NOT WRITE BELOW THIS LINE

FIELD

**MONTHLY FINANCIAL REPORT**

RECEIPTS MONTH OF AUG 1984	CLASSIFICATION	APPROPRIATED RECEIPTS	UNAPPROPRIATED RECEIPTS	TOTAL ALL RECEIPTS YEAR TO DATE
	1 Permits to Drill			3,977 00
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17			
	TOTAL CURRENT MONTH RECEIPTS			XXXXXX
XXXXXX	TRANSFERS IN			
	BALANCES BROUGHT FORWARD		2,977 00	XXXXXX
	<b>TOTALS - MONTH AND YEAR TO DATE</b>		<b>2,977 00</b>	

CLAIMS PAID MONTH OF AUG. 1984	FUND TITLES	TOTAL AMOUNT AVAILABLE YEAR TO DATE	CLAIMS PAID YEAR TO DATE	OUTSTANDING ENCUMBRANCES	UNENCUMBERED BALANCE
6,812 16	1 Personal Services	106,900 00	12,578 15		94,321 85
1,472 54	2 Emp. Related Exp.	22,800 00	2,525 13		20,274 87
-	3 Professional Services	400 00	-		400 00
155 67	4 Travel - State	7,700 00	155 67		7,544 33
-	5 Travel - Out of State	-	-		-
192 62	6 Other Operating Exp.	4,500 00	1,199 76		3,300 24
	7 Capital Outlay-Equipment				
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8,633 99	<b>TOTALS</b>	142,300 00	16,468 71		125,831 29

OIL AND GAS CONSERVATION COMMISSION  
STATE OF ARIZONA

DATE	NAME	REPRESENTING
4-27-84	Joseph Swartz	SELF
5-16-84	Blondy J. Daniels	SELF
5-17-84	Mike McArthur	SELF
5-17-84	Gonzalo Enciso	SHELL WEED INC.
5-22-84	J. E. WARNE JR.	SELF
5-25-84	MERRYL K. KEENE	WILLIAM F. GUYMAN ASSOC. INC.
5-29-84	W. K. ROONEY	SELF
6-6-84	Ernest W. Blinson	Solar Energy Commission
6/13/84	<del>Ernest W. Blinson</del>	General Energy Services
6/14/84	Dr. Bobt. Fisher	W & S Investments
6-17-84	Nickie McArthur	Kenneth Stewart Co.
6-25-84	PATRICK ROLS	OHIO HYDROCARBONS INC.
3-84	DR. JOE SWARTZ	Oil Center Energy
8-3/84	General Manning	Frank W. Jernstedt
8/2/84	Kurt W. Jost	Petroleum Information
8/6/84	Townsend & Sylvia Buck	Self - Petrol. Investigator
8/9/84	Robert W. Robinson	Self - Solar Energy Commission
8/14/84	James B. Buck	Olympic Energy Corp
8/22/84	Wm. Charles A. Russell	W & S Energy
	George Q. Butler	US Bank

OIL AND GAS CONSERVATION COMMISSION  
STATE OF ARIZONA

DATE	NAME	REPRESENTING
2-14-84	Jim Fulton	
2-15-84	Walter C. Brown	Brown & Associates
2/16/84	Jim B. S.	Scott Exploration
2/27/84	James R. Brockman	Dept Water Resources
2-28-84	John H. ...	
3-15-84	Michael ...	Central Oil Co. Inc.
3-15-84	Edward ...	" " "
3-16-84	J. F. ...	" " "
3-20-84	Paul ...	SELF
3-26-84	John ...	SELF
3-30-84	James R. Brockman	Deco Energy
3/30/84	Andy Frant	ARPS Antiquities
4-1-84	...	N.A.L.
4/12/84	Bill ...	DRG Petroleum
4/12/84	Clara ...	Self -
4/12/84	Clara ...	Pacific Mountain Energy
4/12/84	G. Southard	" "
4/25/84	Ronald E. Wilbur	Tucson Citizens
4/25/84	Z. Mowbray	Phase Oilman (Independent)



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**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
1645 WEST JEFFERSON, SUITE 420  
PHOENIX, ARIZONA 85007  
PHONE: (602) 265-5161

MEMO

September 10, 1984

TO: Office of the Governor  
Attention Jane Rosenbaum

FROM: A. K. Doss  
Executive Director

SUBJECT: Interstate Oil Compact Commission

In response to the letter dated August 13, 1984 to Governor Bruce Babbitt from Timothy Dowd, Executive Director, of the IOCC, please be advised of the following.

ARS 27-601 et seq authorizes the state to join the IOCC and designates the Governor as the official representative. This was done by the laws of 1955. For many years the annual dues set by the IOCC was budgeted for in the Office of the Governor. Some years back, the Office of the Governor decided that the Oil and Gas Conservation Commission should assume the budgetary obligation. The Commission had no objections as long as the money was provided. In recent years budgetary constraints have caused our JLBC and EBO analysts to reduce the IOCC's dues to a token payment and to eliminate all out-of-state travel so that if we were still a paid-up member, we couldn't attend the meetings for lack of travel funds.

Timothy Dowd's letter infers that the IOCC is reluctant to hold a meeting in a state that only makes a token payment of its annual dues, but he doesn't say that if Arizona again becomes a member in good standing they will hold a meeting here. Since 1955 I can only recall one meeting ever held in Arizona.

I personally believe it is good for Arizona to be a member and in good standing, but when \$2000/year dues eats into this Commission's operating budget, some other statutory programs must suffer. If the budget analysts wish to provide the funds, this Commission will be pleased to continue as the agency to make the annual dues' payments.

  
A. K. DOSS  
Executive Director

/kb

bcc: J. Dale Nations PhD

# INTERSTATE OIL COMPACT COMMISSION

HEADQUARTERS OFFICE: 900 N. E. 23RD STREET

P. O. BOX 53127

TELEPHONE: (405) 525-3556

GOVERNOR'S OFFICE  
OKLAHOMA CITY, OKLAHOMA 73152

AUG 16 8 52 AM '84

Address Reply to Headquarters Office

TONY ANAYA  
Chairman  
Governor of New Mexico

W. TIMOTHY DOWD  
Executive Director

August 13, 1984

RECEIVED

SEP 10 1984

O & G CONS. COMM.

Honorable Bruce E. Babbitt  
Governor of Arizona  
State Capitol  
Phoenix, Arizona 85007

Dear Governor Babbitt:

The Interstate Oil Compact Commission has been privileged to have the State of Arizona as a signatory member since 1955. Since that time we believe that the IOCC has made a contribution to oil and gas regulatory activities in the state. It is recognized that Arizona is not a major oil and gas producing state, but many of the services and activities of the IOCC benefit the smaller states, with limited staffs, more than those states which have the professional expertise in abundance. The IOCC has also had the pleasure of meeting in Arizona on several occasions, the most recent being shortly after you became Governor in 1978.

In the past few years the financial problems of the state governments have become chronic and near universal. The IOCC is well aware that this includes the State of Arizona. Budgetary restrictions on the Oil and Gas Conservation Commission have resulted in Arizona's membership contribution to the IOCC being reduced for each of the last three years, from \$2,000 to a token payment of \$100. Under the terms of the charter of the IOCC, all contributions from the states are voluntary and the reduction in contributions cannot have the effect of making Arizona any less a member than it already was. However, there is a practical effect and it is the purpose of this letter to address that practical effect.

To be candid, there is a reluctance on the part of the Commission members to hold a meeting in a state which has unilaterally reduced its annual fund allocation to a token sum. That is unfortunate for all concerned because the IOCC participants are deprived of a delightful and popular location and the State of Arizona loses an economic benefit. Recently figures have been brought to my attention that will demonstrate what I mean.

We will usually attract approximately 500 persons into the state for a three-day meeting. According to studies made by the Bureau of Business and Economic Research at Arizona State University, a convention of the size held by the IOCC will, on the average, have an economic impact of

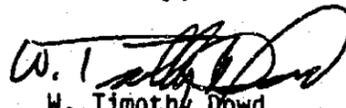
MEMBER STATES: ALABAMA - ALASKA - ARIZONA - ARKANSAS - CALIFORNIA - COLORADO - FLORIDA - ILLINOIS - INDIANA - KANSAS - KENTUCKY  
LOUISIANA - MARYLAND - MICHIGAN - MISSISSIPPI - MONTANA - NEBRASKA - NEVADA - NEW MEXICO - NEW YORK - NORTH DAKOTA - OHIO  
OKLAHOMA - PENNSYLVANIA - SOUTH DAKOTA - TEXAS - UTAH - VIRGINIA - WEST VIRGINIA - WYOMING  
ASSOCIATES: GEORGIA - IDAHO - NORTH CAROLINA - OREGON - SOUTH CAROLINA - WASHINGTON

\$266,500 on the state and community in which the meeting is held. This represents the amount of money that out-of-state visitors will spend in the community during the course of a three-day meeting for food, lodging, transportation, etc. It does not include airfare to and from the host state. This figure also does not include the multiplier effect of economics in which the persons employed in the hotel and restaurant business, for example, spend for barbers, accountants, clothes, etc., as a result of having been employed for these meetings. Needless to say, the convention visitor pays sales tax, as much as \$8,000 for a meeting such as I am describing. The jobs generated also create taxes which flow through to the state.

I am certain that you have long since figured out what I am leading up to. It seems to me that if Arizona were to pay its annual contribution of \$2,000 and if the IOCC were to continue to hold meetings in Arizona every four to six years, that the net winner would be the State of Arizona from the standpoint of its economy and tax bases.

Governor Babbitt, I have been involved in state government for a number of years and I understand that things are not this simple. However, I believe that this is a matter that can be resolved to the benefit of all concerned if it is brought to your attention. I would appreciate having your views on this proposal.

Sincerely,

  
W. Timothy Dowd

WTD/gnb

cc: Dale Nations  
A. K. Doss



PROGRAM INFORMATION

Agency Oil and Gas Conservation Commission Program                       
Program Director A. K. Doss Title Executive Director Phone 255-5161

Regulate the development and production of oil, natural gas, helium and geothermal resources within the State, for conservation and protection of these resources.

Develop geological information encouraging proper and orderly development of the above-named products. Determine natural gas prices according to Federal Energy Regulatory Commission guidelines, and control Class II injection wells as per Section 1425 of the Safe Drinking Water Act.

GOALS: Prevent waste of oil, natural gas and geothermal resources. Promote the development of these resources in Arizona.

1984 - 1985  
142,300  
Appropriated Funds  
FTE Positions 4

SUMMARY OF EXPENDITURES AND BUDGET REQUESTS

Agency Oil & Gas Conservation Commission Program Oil & Gas Conservation Commission

Expenditure Classification	Actual Expenditures 1983-1984	Estimated Expenditures 1984-1985	Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986	Recommend 1985-1986
FTE POSITIONS . . . . .	4	4	///					
PERSONAL SERVICES . . . . .	99,700	106,900	3,800				110,700	
EMPLOYEE RELATED EXPENDITURES	20,800	22,800	1,500				24,300	
ALL OTHER OPERATING EXP . . . . .	9,500	12,600	10,800				23,400	
SUB-TOTAL . . . . .	130,000	142,300	16,100				158,400	
OTHER . . . . .								
TOTAL APPROPRIATED . . . . .								
ADD FEDERAL FUNDS . . . . .								
ADD OTHER FUNDS . . . . .								
* TOTAL PROGRAM . . . . .	130,000	142,300	16,100				158,400	

ALL OTHER OPERATING EXPENDITURES DETAILED

PROFESSIONAL & OUTSIDE SVCS . . . . .	-	400	-				400	
TRAVEL - STATE . . . . .	4,600	7,700	-				7,700	
TRAVEL - OUT-OF-STATE . . . . .	-	-	-				-	
OTHER OPERATING EXPENDITURES . . . . .	4,900	4,500	10,800				15,300	
FOOD . . . . .								
EQUIPMENT . . . . .								
* TOTAL ALL OTHER OPERATING . . . . .	9,500	12,600	10,800				23,400	

\* ALL FIGURES ARE ROUNDED

**SERVICE MEASUREMENTS**

Agency Oil & Gas Conservation Commission Program Oil & Gas Conservation

Service Measurements	Actual	Actual	Actual	Estimated	Amount of Difference	Estimated
	1981-1982	1982-1983	1983-1984	1984-1985		1985-1986
<u>Service Quality Measurements</u>						
Maintained effective enforcement of the Commission's statutes and rules and regulations with a minimum of protests from industry and with no appeals for hearings before the Commission or courts	Over 95% effectiveness	Over 95% effectiveness	Over 95% effectiveness	Over 95% effectiveness		Over 95% effectiveness
<u>Service Productivity Measurements</u>						
Hole drilled without any serious accidents to life or property or contamination to the environment	69,000 ft. 51 wells	70,000 ft. 27 wells	20,000 ft. 6 wells	45,000 ft. 12 wells		45,000 ft. 12 wells
<u>Service Quantity Measurements</u>						
Provided assistance to companies and individuals in the oil and gas industry	450	500	450	450		450
Provided input to governmental commissions and agencies and academic institutions where expertise in oil field technology is useful and essential	40	50	40	40		40

STATE OF ARIZONA

SUMMARY OF POSITIONS, PERSONAL SERVICES AND EMPLOYEE RELATED EXPENDITURES

Agency Oil & Gas Conservation Commission Program         

	Personal Services	Actual 1983-1984		Estimated 1984-1985		Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986		Recommend 1985-1986
		FTE	Amount	FTE	Amount					FTE	Amount	
Comm.			420		900	-					900	
Elect & Appoint Positions 6020			36,400		38,837	1,882					40,719	
Regular Positions 6030			62,700		67,141	1,881					69,022	
Overtime . 6040												
Other . . 6050												
TOTAL - 6009												
To Schedule 3			99,500		106,900	3,800					110,600	

EMPLOYEE RELATED EXPENDITURES

MULTIPLIER	Actual 1983-1984	Estimated 1984-1985	Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986	Recommend 1985-1986
21.98	20,800	22,800	1,500				24,300	
Uniform Allowance . . . .								
TOTAL - 6100								
To Schedule 3	20,800	22,800	1,500				24,300	

\* ALL FIGURES ARE ROUNDED

ENVY 011 & Gas Conservation Commission

PROGRAM

Classification Title  
 1 0 Total 1984-1985  
 1 1 FTE Per. Ser.  
 1 2 Base

WORKSHEET

Executive Director 1 37,304  
 Program Administrator 1 33,944  
 Administrative Assistant I 1 17,310  
 Secretary III 1 13,663

Classification Title	FTE	Per. Ser.	Base	1984-85 APPROPRIATION (FROM APPROP'S REPORT) * A	106,000	A.1	106,000
Executive Director	1		37,304				
Program Administrator	1		33,944				
Administrative Assistant I	1		17,310				
Secretary III	1		13,663				
				B.	LESS: GENERAL ADJUSTMENT	B	( 2,600 )
				C.	LESS: PERFORMANCE ADJUSTMENT	C	( 1,200 )
				D.	SUB-TOTAL (A - B - C)	D	102,200
				E.	ADJUSTMENT FOR FULL FUNDING* (F - D)	E	
				F.	SUB-TOTAL (FULL FUNDING* REQUIREMENT)	F	
				G.	7-1-84 EQUITY - ANNUALIZED (FROM EBO ANNUALYST)	G	6.1
				H.	1-1-85 EQUITY - ANNUALIZED (COMPLETED PRIOR TO 3-1-84) (FROM EBO ANNUALYST)	H	H.1
				I.	1-1-85 EQUITY - ANNUALIZED (COMPLETED AFTER 3-1-84) (FROM EBO ANNUALYST)	I	I.1
				J.	ADJUSTED BASE (F + G + H + I)	J	102,200
				ANNUALIZATION ADJUSTMENTS			
				K.	GENERAL ADJUST (1.05 X J)	K	5,110
				L.	EMPLOYEE PERFORM (1.024 X J)	L	2,453
				M.	TOTAL REQUIREMENTS (A.1 + E.1 + G.1 + H.1 + I.1 + K.1 + L.1)	M	109,763
				N.	LESS: 1984/85 APPROPRIATION (FROM APPROP'S REPORT)	N	( 106,000 )
				O.	INCR/DECR TO SCHEDULE 5 (M - N)	O	3,763
				TOTAL			
				102,200			

ALL FUNDING, IN THIS CONTENT, IS DEFINED AS THE FUNDS REQUIRED TO FUND 1984/85 AUTHORIZED FTE'S AT THEIR 7-1-84 GRADE AND PER FOR THE ENTIRE YEAR AT THE PAY SCHEDULE EFFECTIVE 7-1-84.

\* Does not include appropriation for Board

SCHEDULE 5A  
 PERM NO. 6

EMPLOYEE RELATED EXPENDITURES

Agency Oil & Gas Conservation Commission Program                      Fund                     

F.I.C.A. Number of FTE Positions \$41,000 and Above Personal Services Amount (\$)	FTE No.	Perf. Servs. 1984-1985	Rate Factor	Amount	SUB-TOTALS
\$40,999 and Below	//////	106,000	.071	7,526	7,526

	Perf. Servs. 1984-1985	Rate Factor	Amount
WORKMENS' COMPENSATION INSURANCE	106,900	.0078	834
UNEMPLOYMENT INSURANCE	106,000	.005	530
STATE RETIREMENT	106,000	.0627	6,646
PUBLIC SAFETY RETIREMENT	-	-	-
ELECTED OFFICIALS' RETIREMENT	-	-	-
PERSONNEL DIVISION SERVICES	106,900	.01	1,069
			9,079

APPROVED BY:                      DATE: 8/24/84  
 Agency                     

EBO Analyst                       
 JLBC Analyst                     

HEALTH & ACCIDENT INSURANCE	No. FTE Positions	Rate Factor	Amount
Employee Only \$79.46 x 12	2	\$ 954	1,908
Employee & Dependents \$150.98 x 12	1	\$1,812	1,812
Family-Both St. Emp. \$158.92 x 12	1	\$1,907	1,907
LIFE & DISABILITY INS. \$12 x 12	4	\$ 144	576
DENTAL INSURANCE			
Employee only \$7.32 x 12	1	\$ 88	88
Employee & Dependents \$16.68 x 12	3	\$ 203	609
			6,900

NOTE: See reverse side for retirement and insurance eligibility.

TOTAL 23,505 ; 106,900 (1984-1985 Personal Services) = 1985-1986 FTE 21.98 @ Rate\* to schedule 5.

\* Carry to 2 decimal points

Time, 1984

PROFESSIONAL AND OUTSIDE SERVICES

Agency Oil & Gas Conservation Commission Program         

Expenditure Classification	Actual 1983-1984	Estimated 1984-1985	Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986	Recommend 1985-1986
6230 Cartographic Services	0	400	0				400	
6250								
6270								
6290								
6370								
6470								
<b>TOTAL PROFESSIONAL AND OUTSIDE SERVICES - To Schedule 3 6209</b>	0	400	0				400	

STATE OF ARIZONA  
BUDGET JUSTIFICATION

Agency Oil & Gas Conservation Commission Program \_\_\_\_\_

PROFESSIONAL AND OUTSIDE SERVICES

Cartographic Services:

These services involve the use of a professional draftsman for the purpose of producing maps, graphs, etc. It also includes updating the original map mylars, from which prints are made, for re-printing purposes. Attached is a copy of our publications' list showing the number of publications and maps which must be continually updated.

These services are essential to continued publications of the Commission for producing professional maps, graphs, etc. This type of service will greatly enhance the reception by industry and the public and result in increased sales of the publications.

These publications serve as an aide to the explorationist and an inducement for the oil companies to drill in Arizona.

Enclosure

Price List  
March 28, 1984

Oil and Gas Conservation Commission  
State of Arizona  
1645 W. Jefferson, Ste. 420  
Phoenix, Arizona 85007

ORDER FORM - PLEASE ENCLOSE REMITTANCE WITH ORDER

NAME \_\_\_\_\_  
COMPANY \_\_\_\_\_  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ State \_\_\_\_\_  
DATE \_\_\_\_\_ ZIP \_\_\_\_\_

Qty.	PUBLICATIONS - CURRENTLY AVAILABLE	Unit Price	Amount
	REPORT OF INVESTIGATION		
	RI-3. Potentially favorable areas for petroleum exploration, SE AZ 1974	\$6.25	\$
	RI-4. Selected Paleozoic stratigraphic sections 1973	2.50	
	RI-5. Arizona well information, Supplement 1 1973	2.50	
	RI-6. Thermal gradient anomalies, southern Arizona 1978	4.00	
	RI-7. Areas for energy sources in northeastern Arizona 1979	9.00	
	SPECIAL PUBLICATION		
	SP-1. Review of development of oil & gas resources in No. Ariz. 1974	3.00	
	SP-4. Geologic review of northwestern Arizona 1979	5.50	
	MAPS - WELL LOCATION		
	State: 4. 1:600,000 with pool map and well tabulation 1982	8.50	
	County Series, 1:500,000:		
	1. Maricopa (2 sheets) 1972	2.50	
	3. Pinal 1972	1.50	
	4. Cochise 1972	1.50	
	5. Yavapai 1973	1.50	
	6. Mohave 1973	1.75	
	7. Pima-Santa Cruz 1974	1.75	
	8. Graham-Greenlee 1974	1.50	
	9. Apache-Coconino-Gila-Navajo 1975	5.75	
	Pool Series - Oil, natural gas, and helium, 1:63,360:		
	P-2. Dineh-bi-Keyah 1974	.75	
	Regional - Eastern Mogollon Slope region, east-central Arizona		
	A-1. Well location, 1:250,000 1976	4.00	
	G-6. Top of Permian Coconino Sandstone structure, 1:250,000 1976	4.00	
	Well-data tabulation for Eastern Mogollon Slope region maps 1976	3.00	
	G-6A, G-7, G-8. Set of 3 structure maps, 1:500,000 1977	4.00	
	The above sold as separates:		
	G-6A. (Reduction of G-6) 1.50		
	G-7. Base of Permian Ft. Apache Mbr., Perm. Supai Fm. 1.50		
	G-13. Structure map of southeastern Arizona (2 sheets) 1979	10.50	
	Temperature: GT-2. Mean annual temperature, Arizona, 1:2,000,000 1976	1.75	
	GT-3. Location of wells penetrating subsurface basement and subsurface suprabasement rocks, with tabulation of temperature measurement data 1977	2.25	
	GENERAL GXS-1		
	Cross Sections: Set of 4 structure/correlation, E. Mogollon Slope 1977	3.75	
	Chart: C-1. Oil and natural gas occurrence in Arizona 1974	.25	
	Index of well samples in Arizona, 03/20/84 1984	5.00	
	PRODUCTION REPORTS - monthly per year 15.00		
	PRODUCTION SUMMARY 1954 - 1984 5.00		
	REPRODUCTION: Copies from microfilmed records per copy .30		
	Copies of pages from well records per page .25		
*	RULES & REGULATIONS: Oil, gas and helium 1972	2.00	
	Geothermal resources		
*	AVAILABLE THROUGH ARIZONA SECRETARY OF STATE'S OFFICE - \$3.25 Including Postage		
	POSTAGE INCLUDED . . . . . TOTAL		

PRICES SUBJECT TO CHANGE WITH POSTAL RATE INCREASES

TRAVEL

Agency Oil & Gas Conservation Commission

Program TRAVEL

TRAVEL - STATE	Actual 1983-1984	Estimated 1984-1985	Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986	Recommend 1985-1986
6510 Public Transportation . . . . .	-	250	250				250	
6580 Non-Public Transportation . . . . .	3,022.20	5,086	(75)				5,011	
6580 Subsistence . . . . .	1,616.92	2,364	75				2,439	
TOTAL TRAVEL-STATE - To Schedule 3	4,639.12	7,700	250				7,700	

TRAVEL - OUT OF STATE NONE

LOCATION	EMPLOYEES	DAYS	COST	PURPOSE
6610 Public Transportation . . . . .				
6640 Non-Public Transportation . . . . .				
6680 Subsistence . . . . .				
TOTAL TRAVEL-OUT OF STATE - To Schedule 3 . . . . . 6609				

MILEAGE AND VEHICLE EXPENSE ESTIMATED 1984-1985

Agency Oil & Gas Conservation Commission Program                     

TRAVEL IN-STATE	TYPE OF VEHICLE	NUMBER OF VEHICLES		Mileage Charge		Daily Charge		Total Charges (C)+(F)		
		EXTENDED	TAXI	Miles Driven (A)	Rate (B)	Mileage Charges (C)=(A)x(B)	Days Vehicle Used (D)		Daily Charge Rate (E)	Daily Charges (F)=(D)x(E)
MOTOR POOL	Subcompact		1	14,800	.06	888	350	2.00	700	1,588
	Compact		1	14,000	.07	980	335	2.00	670	1,650
				TOTAL MILES DRIVEN		1,848				5,086
				TOTAL TO SCHEDULE 8						
				TOTAL MILES DRIVEN	37,200					

MILEAGE AND VEHICLE EXPENSE ESTIMATED 1985-1986

TRAVEL IN-STATE	TYPE OF VEHICLE	NUMBER OF VEHICLES		Mileage Charge		Daily Charge		Total Charges (C)+(F)		
		EXTENDED	TAXI	Miles Driven (A)	Rate (B)	Mileage Charges (C)=(A)x(B)	Days Vehicle Used (D)		Daily Charge Rate (E)	Daily Charges (F)=(D)x(E)
MOTOR POOL	Subcompact		1	12,000	.09	1,080	150	3.00	450	1,530
	Compact		1	14,000	.11	1,540	360	3.00	1,080	2,620
				TOTAL MILES DRIVEN		861				861
				TOTAL TO SCHEDULE 8						
				TOTAL MILES DRIVEN	30,200					

STATE OF ARIZONA  
BUDGET JUSTIFICATION

Agency Oil & Gas Conservation Commission Program \_\_\_\_\_

TRAVEL - STATE

The amount of in-state travel is determined by the amount of activity, drilling, production and related operations within the State. A.R.S. Title 27, Chapter 4, Sections 27-501 through 27-539 and Sections 27-651 through 27-666 charge the Commission with the enforcement of the drilling, production and related activities of oil, gas, helium and geothermal resources within the State.

It is anticipated that activity will remain at least as high as last year, and possibly with some considerable increase.

The staff and commissioners will travel approximately 30,200 miles in the performance of their duties and will be away from their assigned posts an estimated 125 days.

OTHER OPERATING EXPENDITURES

Agency Oil & Gas Conservation Commission Program

ACCOUNT Summ Description	Actual 1983-1984	Estimated 1984-1985	Increase (Decrease)	EBO Use Only	Program Change	EBO Use Only	Request 1985-1986	Recommend 1985-1986
7010 Advertising . . . . .	-	-	-				-	
7030 Communication . . . . .	1,698.81	1,500	182				1,682	
7050 Insurance . . . . .	509.18	690	138				828	
7120 Lease/Rental-Land & Bldgs. . . . .	-	-	9,386				9,386	
7140 Lease/Rental-Data Processing . . . . .	-	-	-				-	
7180 Lease/Rental-Vehicles . . . . .	-	-	-				-	
7280 Lease/Rental-Other Machine . . . . .	1,381.29	1,400	64				1,464	
7310 Lease/Rental-Other . . . . .	-	-	-				-	
7310 Printing and Photography . . . . .	140.05	150	1,000				1,150	
7510 Repair/Maintenance-Noncontract . . . . .	68.38	-	-				-	
7540 Repair/Maintenance-Contract . . . . .	362.87	70	-				70	
7570 Operating Supplies . . . . .	519.08	500	24				524	
7670 Repair/Maintenance Supplies . . . . .	-	-	-				-	
7710 Resale Supplies . . . . .	-	-	-				-	
7960 Utilities . . . . .	-	-	-				-	
7960 Miscellaneous . . . . .	220.25	190	4				194	
7009								
TOTAL OTHER OPERATING-TO Schedule 3	4,899.91	4,500	10,798				15,298	

OTHER OPERATING EXPENDITURES

Agency		Oil & Gas Conservation Commission		Program					
Sub Account	ACCOUNT Description	Actual 1983-1984	Estimated 1984-1985	Increase (Decrease)	EOB Use Only	Program Change	EOB Use Only	Request 1985-1986	Recommend 1985-1986
7036	Postage	347.98	265	12				277	
7044	WATS	671.35	675	144				819	
7045	Central System	311.06	320	15				335	
7046	Toll Service	180.65	50	2				52	
7047	Taxes, Dir. Assistance	187.77	190	9				199	
	Total 7030	1,698.81	1500	182				1,682	
7066	Insurance	509.18	690	138				828	
	Total 7050	509.18	690	138				828	
7103	Lease/Rental-Land & Bids.	-	-	9,386				9,386	
	Total 7100	-	-	9,386				9,386	
7188	Lease/Rent Tel. Equip.	1,381.29	1400	64				1,464	
	Total 7180	1,381.29	1400	64				1,464	
7628	Printing	140.05	150	1,000				1,150	
	Total 7310	140.05	150	1,000				1,150	
7532	Repair/Maint-Noncontract	68.38	-	-				-	
	Total 7510	68.38	-	-				-	



STATE OF ARIZONA

BUDGET JUSTIFICATION

Agency Oil & Gas Conservation Commission

Program

OTHER OPERATING EXPENDITURES

The requested increases and other operating expenditures are a result of anticipated increased activity of the agency and reflect the demands of the industry and of the public.

In addition the requested increase includes office rent which is not in the present budget.

The increase in sub-code 7310 is requested because our State Map 4 (best seller) and other publications will have gone three years or more without being updated. The last revision date is one of the first things a purchaser notices, and often is the deciding factor in whether to buy a publication or not. A copy of our publication list is attached to Cartographic Services. These maps and reports contain the type of information an explorationist needs when considering entering a new territory for drilling; therefore, these publications are a real benefit to the industry and constitute the greatest means the Commission has to comply with its statutory obligation provided in ARS 27-502. Failure to be able to provide up-dated information for the industry could result in decreased exploration drilling in Arizona.