OIL & GAS CONSERVATION COMMISSION
MEETING: January 18, 1967
Mr. John Bannister, Exec. Sec. y

OIL AND GAS CONSERVATION COMMISSION Room 204, West Adams Phoenix, Arizona

AGENDA

Meeting

January 18, 1967

9:30 a.m. Call to order

- 1. Approval of minutes of meeting of November 16, 1966 (tapo; pg.1, pg 3, 7, 8
- 2. Executive Secretary's Report
- Geologist's Report
- 01d business
 a. Well spacing
 Harless
- 5. New business
 Exec Comm. mtg-Biloxi
 6. Adjourn minutes
 Financial Reports

1. ELECT CHAIRMAN OF COMMISSION Lockhar

OLD BUSINESS

2. SPACING

SUGGEST LEAVE RULE AS IS. POINT OUT THAT HE DO HAVE ABILITY TO MAKE ANY NECESSARY CHANGES.

HIGHT CONSIDER SUGGESTION MADE BY STATE OF UTAH IN BROADENING ADMINISTRATIVE POWERS OF EXCEPTION.

WE MUST HAVE A HEARING BEFORE WE CAN EFFECT ANY CHANGES.

3. HARLESS

ATTORNEY GENERAL'S LETTER OF JANUARY 9, 1967 POINTS OUT

THAT WE MUST HAVE A HEARING PRIOR TO ATTEMPTING TO ENFORCE

PLUGGING OF THESE WELLS. DO WE WANT TO CALL A HEARING

FOR OUR FEBRUARY MEETING?

YES.

NEW BUSINESS

4. WITH THE ATTORNEY GENERAL NOW CALLING FOR US TO HAVE A HEARING ON HARLESS, IS THIS NECESSARY IN ALL CASES? Yes PROBABLY IT IS NECESSARY IN ALL CASES. IF THIS IS SO, DO WE WANT LEGISLATION TO WORK QUICKLY TO AVOID C ONTAMINATION AND COSTS?

THERE ARE STANDING VIOLATIONS, AS IN THE HARLESS CASE,
SO THAT WE CAN CANCEL THIS PERMIT AND THUS PREVENT FURTHER OPERATIONS.

THE MONEY ONCE PAID BY A BONDING COMPANY GOES INTO THE GENERAL FUND, WHICH WE CANNOT REACH UNTIL APPROPRIATED. BUT WE NEED MONEY TO PLUG THESE WELLS TO COMPLY WITH

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reference of the order

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OUR STATUTORY OBLIGATIONS. DO WE WANT THE BOND FORM CHANGED IN SUCH A WAY SO THAT WE HAVE OPTION TO ACCEPT MONEY OR TO GET BONDING COMPANY TO PLUC THE WELL?

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IF WE WANT LEGISLATION ON THESE THINGS WE WILL HAVE TO MOVE RIGHT NOW.

- THIS COMMISSION HAS NO AUTHORITY TO INTERPERE. STATE

 LAND DEPARTMENT IS INVESTIGATING THOROUGHLY, AND IP

 INVESTIGATION WARRANTS, WILL ATTACK DROP IN PRICE.
- 6. MEBTING OF EXECUTIVE COMMITTEE, IOCC, BILOXI, MISSISSIPPI, MARCH 6, 1967

 SENATOR LOCKHART AND JOHN BANNISTER HAVE BEEN SPECIFICALLY REQUESTED TO ATTEND.
- 7. MINUTES

CHANGE TO WRITTEN HINUTES TO RECORD DATE, TIME, PLACE,

THOSE PRESENT, AND ONLY THE ACTION TAKEN BY THE COMMISSION,

THUS ELIMINATING THE LENGTHY DISCUSSIONS.

8. MONTHLY FINANCIAL REPORT

OFFICE MUST SUBMIT A MONTHLY REPORT TO POST AUDITOR CON-TAINING THE SAME INFORMATION ALSO FURNISHED TO THE COMMIS-SIONERS. IF SATISFACTORY, WILL FURNISH EACH COMMISSER A COPY OF THE REPORT SUBMITTED TO THE POST AUDITOR RATHER THAN PREPARING THE ADDITIONAL REPORT.

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SAMUEL P. GODDARD GOVERNOR

LYNN LOCKHART

ORME LEWIS

HIRAM S. CORBETT MEMBER

LUCIEN B. OWENS

GEORGE T. SILER

OFFICE OF

JOHN BANNISTER EXECUTIVE SECRETARY

J. R. SCURLOCK PETROLEUM GEOLOGIST

Oil and Gas Conservation Commission

STATE OF ARIZONA ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

January 11, 1966

Memo to:

Commissioners

From:

J.R. Scurlock, Geologist

Report of Activities

Jan. 4, 1967

Show Low: Tenneco Federal B. Have logged well and tested. No shows except slight show of helium in upper Supai for-

Flagstaff: Steinberg-Babbitt. Had to abandon first hole and move rig 50 feet to west. Spudded second well. Drilling with Air.

Jan. 11, 1967

Heber: Tenneco #1 Federal A. Total depth 1700 feet. Have logged. Tested fresh water in Coconino. Will move rig to Tenneco #1 Federal (proposed 1400 foot test), about five miles southwest of pinedale.

Holbrook: Arkla has samples for Farmington cut.

Flagstaff: Steinberg #1 Babbitt: Drilling 2968 Naco for-

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ORME LEWIS

GEORGE T. SILER

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA ROOM 202 1624 WEST ADAMS

Phoenix, Arizona 85007 PHONE: 271-5161

January 10, 1966

Memo to: Commissioners

From: John Bannister, Executive Secretary

Re: Report of Activity

On January 9, 1967 the Attorney General answered our letter of December 9, 1967 concerning the Harless situation. Copies are attached for your information.

You will note that the Attorney General now requires we hold a hearing prior to seeking enforcement of a plugging order.

As you are aware, the meeting of Interstate Oil Compact Commission in Phoenix, December 12 through December 14, 1966, was a great success and the staff of IOCC has expressed the opinion that this was far and away the most outstanding and successful ever held. I would like to take this opportunity to thank each of you for your contribution to the success of this meeting.

Kerr-McGee Corporation has recently announced a reduction of its selling price of helium from \$35.00 per MCF to \$28.00 per MCG of pure helium. The effect of this is to lower the price of helium for State royalty purposes from \$1.76 to \$1.02 per MCF of raw gas.

The payment table, as established by the Superior Court, is such that as the sale price of pure helium declines, the value of raw gas for royalty purposes declines more rapidly, and in effect grants a greater profit margin at the lower sales price. For example, with gas selling at \$35.00 the value of the gas for royalty purposes is \$1.76. Kerr-McGee then in effect was paying \$22.00 for gas they were selling at \$35.00, reaching a differential of \$13.00. Reducing the selling price to \$28.00, the value of the raw gas for royalty purposes is \$1.062 per MCF, which in effect means that for every MCF of pure helium Kerr-McGee is paying \$13.275, the differential being \$14.725.

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LYNN LOCKHART

HIRAM S. CORBETT MEMBER LUCIEN B. OWENS

JOHN BANNISTER EXECUTIVE SECRETARY

J. R. SCURLOCK PETROLEUM GEOLOGIST

The point of greatest profit in the Court set table is a selling price of \$22.00 per MCF, at which point Kerr-McGee would be paying \$5.787 with the differential being \$16.213.

The Land Department is of course greatly agitated by this action and is currently studying the situation to see if in any way they can attack Kerr-McGee's new lower selling price.

It is my opinion that the Oil and Gas Conservation Commission has no standing in this matter, inasmuch as we have no rule allowing us to investigate price structure except in the case of discrimination within a proven field. Such is not the case at hand.

Each of you has received my brief comments on well spacing. Copies of those letters received since our previous mailing on this subject are enclosed. Again, I might say in general the companies prefer larger spacing and the individuals prefer smaller spacing.

Mr. Earl Huggins of Sedona recently bailed the Yucca Petroleum #1 Crary well, which is an offset to the Harless operations, and recovered some fluid. This fluid has been analyzed and has been identified as #2 dies1 fuel. O'Donnell & Ewing Drilling Company, the driller on this well, did use some #2 diesel in the operations and it is assumed this is the diesel fuel recovered by Mr. Huggins.

Tenneco has plugged two wells in its initial exploration of the Mogollon Rim area. The hole located near Heber is at this time being logged and we should have some additional information as to the outcome of this well by the time of our meeting. Three more wells are still scheduled in this initial program.

The Steinberg well, southeast of Flagstaff, is drilling ahead and apparently the danger zone which caused the loss of their first hole has been successfully bypassed.

The Champlin Petroleum #1 Navajo was plugged and abandoned after reaching their total depth, 5,287 feet.

A question concerning the basic right of the Registrar of Contractors to require registration of oil and/or gas well drillers in the State of Arizona has jointly been submitted to the Attorney General by the Registrar of Contractors and this office. We expect to have an answer to this question shortly.

As you are aware, Young Drilling Company, the contractor for Tenneco, was challenged by the Registrar as drilling without having been registered by him. A complaint against Young Drilling was filed by O'Donnell-Ewing Drilling Company. However, prior to the hearing date of the complaint, an amicable settlement between all parties was reached and no hearing was held. Young Drilling Company now is successful-

ly registered with the Registrar of Contractors.

WORLD OIL JANUARY 1967

Looking Ahead

Texas crude allowables shoot upward... Railroad Commission set Texas allowables at 37.5 percent of potential for January, boosting output to 3.32 million bopd—a new record. Percentage was one point higher than December and nearly 10 points higher than 28-29 percent allowables producers were living with for a long time before upward trend began in November '65.

Two days before Texas decided to hike production, IPAA warned that '67 production gains will drop sharply in '67 because producers ate into future production during '66 by substantially exceeding market demand.

Prediction is that output will average 8.5 million bond in '67, only 175,000 bond more than last year. In '66, output jumped 521,000 bond, to 8.325 million bond.

IOCC turns "thumbs down" on drilling incentives . . . Presenting results of study assigned to him last June, IOCC Executive Veep Lawrence Alley told those attending annual session in Phoenix last month that IOCC should not take action on several drilling incentive proposals that have cropped up in recent months. He asked for additional time to study merits of proposals, with another report to be made at IOCC annual session in New Orleans next December.

Proposals include: bonus allowables for discoveries, bonus per foot drilled, and allotment of imports to producers to increase exploration capital. Alley believes most proposals are either ineffective or impractical. He noted that in 1965 two states offering no discovery allowables, New Mexico and Louisiana, reported the highest percentage of discoveries in the nation.

North Sea operators drill four wells for each discovery... Boxscore on North Sea activities to date is eight potential producers from five potentially commercial gas reservoirs, plus Burmah Oil's highly promising gas and oil discovery. Success ratio: 25 percent. Burmah Oil's discovery, 15 miles offshore in Block 48/22, produced 4,000 barrels of good quality crude during four-day test last November. Other new developments:

British Petroleum has named pioneer gas discovery in UK North Sea Block 48/6 the West Sole field. Second deviated well drilled from platform A was spudded November 25. The semi-submersible barge Sea Quest, having completed first West Sole field production well, is ready to spud a wildcat about 6 miles northwest of initial discovery.

Gas Council-Amoco group wildcat tested 25 MMcfd from Rotliegendes Formation in UK North Sea Block 49/23, five miles south of group's first gas find in Block 49/18. Further drilling will determine whether two wells are in same field. Self-elevating platform Orion, which drilled discovery, will spud in next in Block 49/27, where Leman Bank field, found in Shell-Esso's Block 49/26, already has been extended into 49/27.

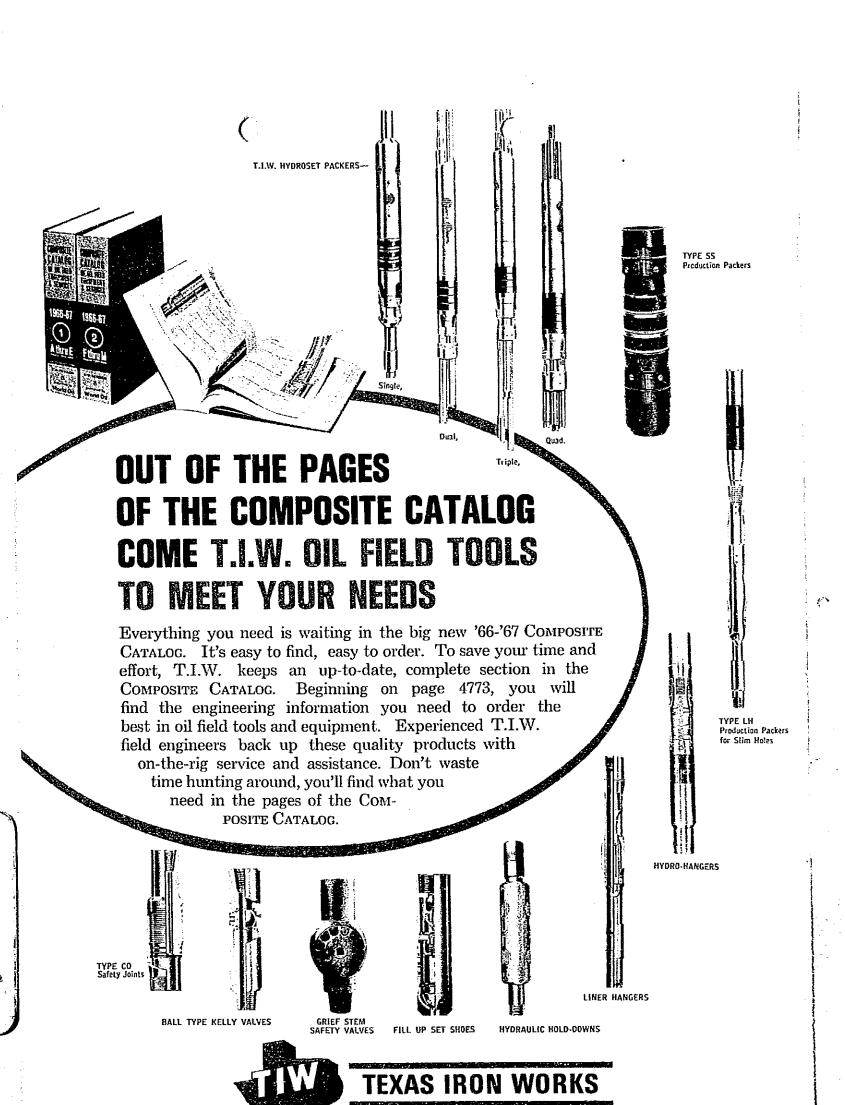
What's happening in the gas and oil country... Phillips Petroleum may have opened entirely new oil province in Egypt's Western Desert; Alamein Well IX, 21 miles south of El Alamein, flowed 2,796 bopd 34 gravity crude from 5-foot perforated interval below 8,200 feet; pay zone is about 250 feet thick... On Alaska's North Slope, Union of California will drill its northernmost wildcat yet, Kookpuk 1, to 10,500 feet... Alaska's Kenai gas field will be drilled up on 320-acre spacing... Midland Oil's first offshore wildcat off coast of South Africa was dry at 9,000 feet; second test may go to 15,000 feet... Russia announces it will start wildcatting early in '67 in Baltic Sea, about 9 miles off coast of western Latvia.

JANUARY 1967

WORLD OIL

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GENERAL OFFICE and MAIN PLANT: 1401-1423 Maury Street, P. O. Box 227, Houston, Texas 77001, Other Shops at Victoria and Corpus Christi.

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RECEIPTS (From Permits to Drill) TOTAL Current Fixed Charges TOTAL TOTAL TOTAL Arizona Bureau Mines TOTAL Capital Current Expenditures Other Telephone TOTAL Museum Northern Arizona TOTAL Professional Services Personal Services: TOTAL Travel out-of-State Travel-State: Miscellaneous 0 Outlay Equipment **⊢**3 Staff Commissioners Gasoline/related Staff Commissioners ကြ Expenditures \$2,878.08 \$2,215.00 ÷ \$2,215.00 Current Month Current Month \$ Year to date \$ Balance 161.50 218.80 65.54 445.84 128.41 55.83 184.24 33.00 \$22,653.50 Total
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POSTED PRICE BULLETIN

This is to advise that Kerr-McGee Corporation cannot find sufficient purchasers to take its Navajo, Arizona plant output of Grade "A" helium f.o.b. the plant site at the United States Government Grade "A" helium plant price to commercial purchasers. Consequently, it has become necessary to post a plant price which will enable Kerr-McGee Corporation to sell such helium.

PLEASE TAKE NOTICE effective at 7:00 o'clock A.M. on January 1, 1967, the posted price for Grade "A" helium sold f.o.b. Kerr-McGee Corporation's plant at Navajo, Arizona, will be \$28.00 per Mscf, measured at 14.7 pounds per square inch absolute and at 70° Fahrenheit.

KERR-MCGEE CORPORATION

December 29, 1966

Selling Price.	Value bor	Kerrs Cost	0 11	
\$ 40,00	Royalty B 2.259	Per MCF 28.237	Profit	
39.00	2.159		11.0763	
38,00	2.059	ZL.987	12.013	
37.00	1.959	25.737	17.263	
36.00	1.86	24.487	12.513	
35.00	1.76	23.25	12,75	
34.00	1.66	257	13.00	
33.00	1.561	20,75	13,25	
32.00		19.512	13,488	
	1.461	18,262	13.738	
31.00	1.361	17.012	13,988	
30.00	1.261	15.762	14.238	
29.0D	1.162	14.512	14.488	
Z8.DD	1.062	<u> 13.275</u>	14.725	
27,00	, 962	12,025	14.975	
Z600	. 862	10,775	15.225	
Z5.00	.763	9,537	15,463	
ZA.DO	1663	8.287	<u>. 15,713</u>	
23.00	ं ५६३	7.037	15.963	
00.55	1463	5,787	16.713	
21.00	1431	5.387	15.613	
20.00	, 399	4.987	15.013	
19.00	. 365	4,562	14.438	
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Rps	48,604	60,422	61,019	
May	46,908	65,086	60,523	
June	40,518	59, 836	59,713	
July	43, 423	65, 276	60,726	· , -
Aug	45,726	46,280	74, 136	
Sep	44,584	57, 782	71,845	
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IN THE SUPERIOR COURT OF THE STATE OF ARIZONA

IN AND FOR THE COUNTY OF MARICOPA

KERR-McGEE CORPORATION, a Delaware corporation,

No. 155975

Plaintii

JUDGMENT

vs.

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OBED M. LASSEN, State Land Commissioner, STATE LAND

DEPARTMENT and STATE OF

ARIZONA,

Defendants.

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THIS CAUSE came on regularly for trial before the Court sitting without a jury on the 28th day of March, 1966. COLEMAN HAYES and DEVENS GUST appeared as attorneys for the Plaintiff, KERR-McGEE CORPORATION, a Delaware corporation, and DARRELL F. SMITH, The Attorney General, and WALTER O. HOLM, Assistant Attorney General, appeared as attorneys for the Defendants, OBED M. LASSEN, State Land Commissioner, STATE LAND DEPARTMENT and STATE OF ARIZONA. Opening statements were made and the introduction of evidence was commenced and continued from day to day until March 31, at which time all parties rested. Thereupon the Court took the case under advisement and requested the filing of briefs by both parties, which was accordingly done, and the Court, having heard the testimony, having examined the proof and briefs offered and filed by both parties, and being fully advised in the premises, does hereby ORDER, ADJUDGE AND DECREE:

(1) That the name of the Plaintiff in all proceedings hereafter shall be KERR-McGEE CORPORATION.

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\$15.00 to \$15.99

Up to \$14.99

(2) That for the purpose of determining the basis on which plaintiff shall account to the State of Arizona for its royalty, the market value at the well of the gas so produced each month from said premises under said leases is hereby determined to be, and shall be computed and accounted for, from first production to the cessation of such production, as set forth in the following price schedule:

	AVERAGE NET SALES PRICE RECEIVED BY KERR-McGEE FOR	•.		••	
ļ	GRADE "A" HELIUM	T113T T1134 (ראז ידעיםיווער זאז י	กราว (กราง สา	PER VOLUME
I	SOLD DURING EACH			8.00	9.00
	MONTH F.O.B. PLANT,	7.00(3)			to
	NAVAJO, ARIZONA, IN	to	to	to o oo	9.99(2)
li	DOLLARS PER MSCF*	<u>7.49</u>	<u>7.99</u>	<u>8.99</u>	9. 99(2)
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-	\$40.00 to \$40.99 (1)	\$1.976		\$2, 259	2. 286
l	~		2.024	2.159	2. 180
l	\$38.00 to \$38.99	1.802	1.930 1.837	2.059	2. 180
	\$37.00 to \$37.99	1.714	1.837	1.959	
	\$36.00 to \$36.99	1.627	1. / 生生	1.860	1.969
ŀ	\$35,00 to \$35,99	1.627 1.539	1.000	1,760	1.863 1.758
l	1 \$34 OO to \$34 99	1.400	1.557	1.660	
	\$33.00 to \$33.99	1.366	1.463	1.561	1.652
Ì	\$32,00 to \$32,99	1.278	1.309	1.401	1.546
1	Q02.00 +0 +		1.277		
Ì		1, 104	1.183	1, 201	1,335
l	\$29.00 to \$29.99	1.016	1.089	1.162	1.230
	\$28,00 to \$28,99	929	. 995	1.062	1.124
	\$27.00 to \$27.99		.902	. 962	1.018
1	\$26.00 to \$26.99	.754	.808	. 862	.913
l	\$25.00 to \$25.99	. 668	.715	. 703	.807
i	\$24.00 to \$24.99	.580	. 622	. 663	.702
	\$23.00 to \$23.99	493	. 528	.563	. 596
	\$22.00 to \$22.99	. 406	.434	. 463	.490
Ì	\$21.00 to \$21.99	· . 377	. 404	. 431	. 456
	\$20.00 to \$20.99		.374		.422
ļ	\$19.00 to \$19.99	.319	.343	.365	
	\$18,00 to \$18,99		.310	. 331	
	\$17.00 to \$17.99	. 260	. 279	. 298	
į	\$16.00 to \$16.99	. 232	. 249	. 265	. 280
	015 001-015 00	203	21.0	23.2	248

^{*} At 14.7 pounds per square inch absolute and at 70° F.

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⁽¹⁾ If sales prices are higher than \$40.99, the price of gas is to be negotiated.

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(2) If helium content is higher than 9.99%, the price of gas is to be negotiated.

(3) If helium content is less than 7.00%, the price of gas is to be negotiated.

(3) Volumes of gas for which KERR-McGEE shall account to the State of Arizona shall be measured at a standard pressure base of 15.025 lbs. per sq. inch absolute and a standard temperature base of 60° Fahrenheit.

(4) That the plaintiff is indebted to the State of Arizona for royalty on gas so produced from said leases, computed on the basis set out above from first production to 7:00 A.M. on the 1st day of August, 1966, in the sum of \$138,312.07, which sum is over and above all sums previously paid to the State of Arizona and which sum shall forthwith be paid by plaintiff to the State of Arizona, and the plaintiff shall thereafter account each month to said State of Arizona for its royalty on gas so produced until the cessation thereof as herein directed.

(5) That each party shall bear its own costs. ENTERED this $8^{\frac{1}{2}}$ day of December, 1966.

Warren L. McCarthy
Judge of the Superior Court

APPROVED AS TO FORM:

Coleman Hayes

Devens Gust

DARRELL F. SMITH The Attorney General

Attorneys for Plaintiff

Walter O. Holm, Special Assistant Attorney General, Attorneys for Defendants

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OIL AND GAS ASSOCIATION OF ARIZONA 510 FIRST NATIONAL BANK BUILDING

PHOENIX, ARIZONA 85004

MIKE O'DONNELL PRESIDENT

CHARLES KALIL, M.D. VICE-PRESIDENT

HALE C. TOGNONI, P.E. SECRETARY-TREASURER

January 13, 1967

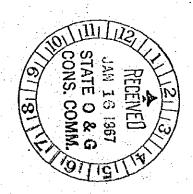
TELEPHONE

MEETING NOTICE:

The next regular monthly membership meeting will be held at 12:00 o'clock noon on Wednesday, January 18, 1967, Neptunes Table, Seventh Avenue and Camelback Road.

A major speaker will be present to speak on incentive bills and the need for a change in the rules and regulations on spacing.

Reservations may be made by calling 258-6481.



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LYNN LOCKHART

HIRAM S. CORBETT

GEORGE T. SILER MEMBER

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202 1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

December 5, 1966

Memo to: Commissioners

John Bannister, Executive Secretary From:

Report of Activity Re:

Pursuant to your instructions during our meeting of November 16 in Tucson, I am making a study of spacing from the information contained in our files in the old spacing hearings. The arguments on both sides are pretty much the arguments we heard in Tucson.

In general, it seems that the independent lease broker prefers smaller spacing, apparently from the thought that larger spacing would hamper leasing activity and exploration. It seems their thought is that a person who possesses only 40 acres would drill his lease if our regulations did not call for 80 acres. However, the obvious fallacy of this argument needs no comment.

Of course, most evidence was presented by major oil companies whose general feeling is that 80 acre spacing allows the quicker defining of a pool once discovered, that it preents costly drilling, and that it allows much greater engineering c ontrol of a reservoir. They further point out that once a well is drilled it cannot be undrilled, and consequently economic waste can develop. Whereas, 80 acre spacing with subsequently developed geology and engineering information, shows that closer drilling is necessary, a company or individual then can come back in and in-field drill.

On the second day of spacing hearings it is interesting to note that Mr. Obed Lassen, who conducted the spacing hearing as the then Commissioner inasmuch as oil and gas functioned under the Land Department, had a prepared statement read wherein he very definitely preferred 80 and 640 acre spacing.

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SAMUEL P. GODDARD GOVERNOR

ORME LEWIS

LUCIEN B. OWENS

JOHN BANNISTER EXECUTIVE SECRETARY

J. R. SCURLOCK PETROLEUM GEOLOGIST

A copy of this study, together with some spacing requirements of other states, will be forwarded to you in the near future.

149-945-55

I might add, that as of this time my personal feelings are definitely to leave the regulations as they currently are. With the great flexibility built into our regulations we can handle any situation that may arise.

I might point out, that during the spacing hearings the one geologist put on by the so-called independent wildcatters ultimately arrived at the point that the assigned state-wide spacing was not too important so long as the Commission had flexibility and could grant spacing either upward or down-wrd from the initial state-wide spacing rules.

In the old Yucca Petroleum #1 Crary Fee well in Verde Valley, NE SW 5-17N-4E, Yavapai County, Mr. Earl Huggins of Sedona claims to have found some free oil floating on top of the water. An attempt was made to recover some of this liquid; however, the homemade bailer was lost.

I have been requested, and will go, to Sedona today to witness another attempt to recover the liquid.

O'Donnel and Ewing Drilling Company drilled the initial well and a similar liquid, as described to me by Mr. Huggins, was noted. However, the properties were such that the operator felt unjustified in spending any moeny on further inestigation of the area.

Texaco Inc. has requested permission to recomplete their #1 Navajo Z well, NW SW 36-41N-30E, Apache County, as a helium well. Texaco reported some time back that they had encountered a helium strata, but were more interested in oil. While the well did produce some oil, it was not economical to produce. If Texaco is successful in completing this well as a helium well, it will be the first production out of the Pinta Dome and Navajo Springs area.

Tenneco's #1X Fort Apache has been plugged and abandoned. They are now drilling on their #1 Federal B, SW NE 4-10N-24E, Apache County.

As to the Harless wells, the Attorney General's Office has requested that the Commission prepare a question to it concerning violations of this type and the necessary course of action to be followed by the Commission. It seems to be the feeling at this time that the order originally issued by the Commission cannot be nforced and that it may be necessary to have a hearing prior to seeking court action to enforce our order.

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I might point out that prior to issuing our order to Harless, a very similar question was asked of the Attorney General. The Attorney General did not choose to answer in writing but they did verbally state that we pursue the course we did.

You will be kept advised as this situation is resolved.

As discussed with you approximately one year ago, the Registrar of Contractors is apparently asking to control the oil and gas drilling within the state. His authority is questionable in this area. His attempts at regulation have not been consisten and have created much distress to Tenneco and its driller, Young Drilling Company of Farmington.

I have discussed this situation with both the Attorney General and Mr. Lewis, following an earlier conversation with the Registrar of Contractors. Mr. Lewis has graciously consented to look into this situation and we hope for an early solution to this problem as it is necessary that this question be resolved so that the drillers in Farmington and elsewhere may contract with confidence to drill oil wells.

I might also add that Mr. Lewis is greatly expediting the Harless situation for this Commission.

New Permits:

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- 372: Steinberg #1 Fowalt-Babbitt Enterprises fee, SE SW 24-19N-10E, Coconino County
- 373 Eastern Petroleum #3 NMA, center 9-16N-25E, Apache County

Inasmuch as the IOCC is meeting in Phoenix on December 12-13-14, it is not contemplated that an official Commission meeting will be called for December. Should you have any questions, I will be glad to meet with you any time during that period.

May this office also take this opportunity to wish each of you and your families a Merry Christmas and a Happy New Year.

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©PURE!

SAMUEL P. GODDARD GOVERNOR LYNN LOCKHART

LYNN LOCKHART
CHAIRMAN

ORME LEWIS VICE CHAIRMAN

HIRAM S. CORBETT MEMBER

LUCIEN B. OWENS MEMBER

GEORGE T. SILER MEMBER OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROON 202 524 WEST ADAMS

Phoenix, Arleona 85007

JOHN BANNISTER EXECUTIVE SECRETARY J. R. SCURLOCK PETROLEUM GEOLOGIST

December 5, 1966

Memo to: Commissioners

From: J.R. Scurlock, Geologist

Re: Report of Acitivities.

November 29: Flagstaff

Checked Steinberg location. Rotary rig drilling

at 539.

November 30: Holbrook

Inspected eight Arkla locations. Dry hole markers set ok. Arkla is reducing office in Holbrook to one geologist and one draftsman. No further drilling activity for the present.

December 1: Four Corners

Champlin: TD 5287 in Pennsylvanian Desert Creek

formation. Logging.

December 2: Showlow

Tenneco Federal 1-B. Drilling at 1100'.

OIL AND GAS CONSERVATION COMMISSION 1624 West Adams - Suite 202 Phoenix, Arizona

Minutes of Meeting November 16, 1966 Holiday Inn, 1010 S. Freeway, Tucson, Arizona

Present:

Mr. Lynn Lockhart, Chairman

Mr. Orme Lewis, Vice Chairman

Mr. H.S. Corbett, Member

Mr. Lucien B. Owens, Member

Mr. George T. Siler, Member

Mr. John Bannister, Executive Secretary

Mr. J.R. Scurlock, Geologist

Mr. Roy Elwell

Mr. Mike O'Donnell, O'Donnell-Ewing Drilling Co.

Mr. Bob Louisville

Mr. James Fulton, Sunland Development Company

Mr. H.D. Hand

Mr. Paul Brown

Mr. Alfred Morgan

Dr. Willard Pye, University of Arizona

Dr. Wes Peirce, Arizona Bureau of Mines

Dr. Charles Kalil

Mr. Loy Turbeyville

Mr. Joe Barrett, Yucca Petroleum Company

Mr. Robert Noble, Envoy Petroleum Company

Chairman Lockhart called the meeting to order at 2:20 p.m.

Minutes of the meeting of September 21, 1966 were approved.

Chairman Lockhart stated the Commissioners had received advance copies of the Executive Secretary's report and asked if anyone wanted it read. After receiving no such request, the Executive Secretary's report was filed.

Mr. Scurlock added to his geologist's report, stating that some later information received was that Eastern Petroleum Company had decided not to drill the location in Section 15, but were moving to Section 9 where they were negotiating the lease. Chairman Lockhart asked the assembly if there were any questions to ask the geologist. There were none. The geologist's report was filed.

Mr. Bannister reported that $Q_{\rm amplin}$ Oil Company was prepared to spud about October 15, but no confirmation of this had been

received as yet.

Mr. Bannister recalled to the Commission its previous discussion concerning applications to drill an oil (rather than gas) exploration well on 80-acre locations in the known helium area and the Commission's warning to these operators that before these wells could be produced they must be brought into compliance with spacing regulations. The Commission had directed Mr. Bannister to suggest something that could be put on the permit to press home the point. Mr. Bannister then handed copies of three suggestions to the commissioners which could be reproduced on a rubber stamp and stamped on each permit, and requested direction from the Commissioners.

Mr. Scurlock suggested that we get voice from the grass roots as to what they want in spacing; that he had heard many comments as he travelled around that much oil money is being kept out of Arizona because of our spacing.

Mr. O'Donnell asked if this were an open meeting. He was assured that it is.

Mr. Lewis pointed out that the topic under discussion concerned the wording of the message for the rubber stamp, and suggested that the shorter the message, the more apt people were to pay attention. However, attention should be called to the fact that they are in compliance with what they ostensibly have in mind when the apply to drill or they wouldn't get the permit.

Mr. Bannister asked if we could accomplish this by adding "with respect to the product to be produced" to the last of the three suggestions and it would then read: "Prior to being allowed to produce this well you must be in full compliance with Rule 105, A through G, with respect to the product to be produced." This then could be stamped on the lower left hand corner of the permit.

Mr. Fulton asked, that if in the spacing for hydrocarbon gas or for helium, do the rules state you must be 2,000 feet from the section lines? Mr. Bannister affirmed this and that the section must be a government section.

Mr. Fulton then asked if a man, due to 80-acre spacing for an oil well got helium, how is he going to make a legal location out of that for production. Mr. Bannister replied the only possible way is to ask the Commission for an exception.

Mr. Fulton then pointed out that the State Land Department allowed a man to take an oil, gas or helium lease on 40 acres or more. If the man spent his money for a 40-acre lease, he isn't allowed to drill that. There is a terrible difference between the Oil and Gas Conservation Commission Rules and Regulations and the State Land Department.

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Mr. Lewis replied that it appears on the surface that there is a conflict, and further that the federal government is in conflict also. BLM does not have the same requirements for leasing to meet the various requirements for spacing in the many states. It is believed that they too work on the 40-acre principal. Assume that a man had only an 80-acre lease and he intended to drill an oil well. But he hit helium. The 40acre lease provisions enable him to pick up, if available, any series of acreage necessary to meet the requirement.

Mr. Lewis again pointed that that the topic under discussion was the wording for the rubber stamp and that it must be concluded. Mr. Lewis moved that the wording as suggested by Mr. Bannister be approved. The motion carried.

Mr. Bannister recalled to the Commission that he had been directed to contact various other states concerning incentives. He reported briefly on the replies received:

Canada re-adjusted the prorationing, allowing a new hole to produce more; Floridda passed a \$50,000 bonus bill and if the discovery were on state land waived the state's royalty for five years. Rumble did collect this money, but then added another \$10,000 and gave each of the two state universities \$30,000. Iowa proposed in 1953 a \$100,000 bill for several categories of wells but it failed to pass the legislature. Nebraska in 1939 and in 1950 paid a \$10,000 bonus to Ohio Oil Company, but it was felt that the money was not an incentive. Oregon had considered a bill from \$100,000 to \$1,000,000, but there was no action because a study by the legislature concluded that the bonus would not accomplish the desired purpose. Tennessee in 1953 had a \$50,000 bonus for either an oil or gas well. The appropriation lapsed for lack of takers. Tennessee spokesman said it did not affect exploration and they felt the best incentive was to develop geology information that could be made available to the companies.

Mr. Owens asked if dry hole support was being offered. Mr. Banreplied that dry hole support has not been attempted in the United States. Australia offered to pay 51% of the bill to anyone coming in to find oil. It has been a most successful program. The 51% will be recovered from production.

Mr. Lewis asked how much this had cost Australia. Mr. Bannister replied that it was about \$50,000,000, but this was a cumulative figure and he could not break it down by years. Australia did accomplish their purpose.

Mr. Bannister reported that a study of the nine shut in helium wells revealed all were in conformance with spacing requirements with the exception of five drilled by Apache Drilling Company; they were on 80-acre spacing. The Attorney General in reply to a Commission request for opinion stated that it was the duty of the Commission to look upon the application as it was presented; if the application is regular on its face, then it is the

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Commission's obligation to issue the permit.

Mr. Lewis asked if permits for these wells had been granted by this Commission or before the existence of this Commission. Mr. Bannister replied that one was granted by the State Land Department, three were issued under the 1959 rules which had been declared invalid. In effect, the only wells that may be in violation are the five Apache Drilling Company wells.

Mr. Lewis asked, of the nine shut-in wells, how many are in compliance with the current spacing rules. Mr. Bannister replied that four of the shut-in are fine. There are five on 80-acre spacing but they are not producing.

Mr. Lewis commented then that all nine wells were valid based upon their applications.

Mr. Bannister commented that the operator of the five wells on 80-acre spacing has been warned that they cannot be produced as helium wells under the current dedication; they must comply with the 640-acre rule.

Chairman Lockhart asked what relief would this company have. Mr. Bannister replied the company now is making an intensive study of the area with the ultimate intention to come before the Commission and request that this area be put on 160 acre spacing for gas wells.

Mr. Lewis pointed out that since they have no way of collecting this gas then really there is no problem at the moment. The Commission recognizes fully that the situation may exist where a fellow asks for a helium well on proper spacing, but later wants a helium well on 80-acres because of the peculiarities of geology of the area. Also he may ask for an oil well. Whether he drills it as a calculated risk or with the idea he might hit helium, if he can show the geology for such, that it is wise to drill on 80 acres, 60 acres, or 90 acres, because of the peculiarities of the geology, we are willing to hear it. But we don't want to turn ourselves into a constant hearing board merely for the purpose of adjusting well spacing.

Mr. Owens asked if any of these wells were on contiguous acres. Mr. Bannister replied that they were widely scattered.

Mr. Noble commented that we should have a structure geology study made to determine spacing for an area.

Mr. Bannister pointed out that Arizona has state-wide spacing only. But the rules do have provisions to make special rules for a field, based upon information submitted to the Commission.

Mr. O'Donnell commented that he has had comments that the

present statewide rules hamper exploration. In San Juan Basin a deep well, 6,000-8,000 feet for gas will drain 640 acres. But in Arizona, helium at 1,200-1,400 feet will not drain 640 acres. At one time E.A. Polumbus, Denver, stated that a hleium well at that depth will only drain 160 acres and an oil well at that depth would only drain 40 acres.

Mr. Lewis wondered if in the other states the depth as well as other characteristics were not considered.

Mr. Bannister replied that where a state has adopted the depth factor as part of their statewide spacing requirements, a definite acreage is stipulated and they will not and cannot deviate, even if the well will not drain the entire area allocated to it. The flexibility that we have is lost.

Mr. O'Donnell commented that the common thinking was an oil well for 40 acres. He personally would like to see 40 acres for an oil and 160 acres for a gas well, regardless of depth. Then when you get into some regular dry gas go into 640 acres.

Mr. Noble stated his people would like to see better spacing. They think the 640 acres is too much to be drained by one gas well.

Dr. Pye commented that we are trying to encourage exploration. So if the reduction of acreage is necessary for a wildcat well, that is one thing. But after the well is drilled that is another thing. Then you have data for judgment as to where the field might be. The very important thing is probably that depth should be considered. Maybeafter one or two wells are drilled, then there should be a hearing for spacing on that field based on engineering data.

Mr. Bannister pointed out that the states which have adopted spacing based on depth consideration have done so only after undreds of wells have been drilled. They got a lot of geology and production history before they felt safe. We cannot in all fairness adopt a depth factor at this time because we don't know if it will satisfy the geology pattern of our state.

Chairman Lockhart concurred and felt we had to set the acreage and let the producer prove to the contrary.

Mr. Bannister pointed out that the more valid argument for wider spacing is that this will prevent an Ohio situation wherein unnecessary wells were being drilled. There is one other thing to consider. In the State of Ohio drilling was largely on fee acreage. The federal government looked at this and directed that it be brought under control. This was the big stick that brought Ohio drilling under control.

Mr. Lockhart asked if there were any harm this Commission could do by cutting the spacing down to 60 or 40 acres. Then if we get production, raise it.

Mr. Bannister replied the danger there could be that we could not come back to a field drilled on 40 acres and order that every other well be closed if subsequent information showed that wider spacing would drain the field. You can drill additional wells if needed, but you can't undrill a well.

Mr. O'Donnell asked if a hearing could be called. Mr. Lewis replied that before we call a hearing on spacing we would have to hear from an operator as to what data he has to jusify closer spacing. It would depend a great deal on what we have before us before we call a hearing.

Mr. O'Donnell asked if this were a point of geology or engineering. Mr. Bannister replied there was no reason why anyone could not submit to the office a brief on his point of view, including substantiating data.

Mr. Lewis said that then with that compilation we had some tools to work with to decide whether we do or do not call a hearing.

Mr. Alfred Morgan stated that he knew of only one person in the state who felt the spacing was correct. The questions is qualified people and qualified information. Apache Drilling Company has done much more and has much more information than you are aware of. There is no way to get underground information to draw the logical conclusion without drilling.

Dr. Kalil stated the base point at issue is what is really necessary to stimulate interest when vital capital is more difficult to come by now than it has been in the past. You know of many of the reasons, off shore drilling, foreign drilling, lucrative profits. Venture capital to establish spacing so that wells can economically and efficiently drill and produce is arrived at by two methods. Spacing based upon maximum engineering facts and the establishment of compulsory fieldwide unitization to control the efficient production of a reservoir. This Commission is charged with the authority to adjust rules and regulations depending upon development of industry. But one of the problems is that we don't quite have an industry yet. One of the ways to attract more people is in putting a block together, if the spacing pattern for gas is 640 acres, a fellow would have to gather together a fairly large block to justify expenditure. If the spacing is 80 acres for an oil well he would have to get together a fairly large block. Economically speaking it might be wise and judicious to consider a little less spacing in an effort to stimulate the development of drilling. The fields in the Holbrook Basin are categorized as shallow fields. In other parts of the state sedimentaries may be deeper and thicker and it may be down in Cochise County we might prefer 640 acres for spacing. The paramount point now is what possibly can be done to stimulate interest. I do think the suggestion of 160 acres for gas and 40 acres for oil

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Chairman Lockhart called upon Mr. Fulton for comments.

is certainly not unreasonable at this stage of the game.

Mr. Fulton stated he had been negotiating for the past year with several companies to come to Arizona for oil and gas and helium exploration. He points out to them our rules and regulations are flexible; there is merely a hearing necessary to get an unorthodox location or to get a lesser spacing for an oil or gas well. But then they come to the boundaries which is 2,000 feet from the section line. If a man was honestly drilling for oil in the northwest quarter section and did get a helium well, it would be assinine for that man to run the risk of losing a helium well to continue drilling with a probable potential of oil or natural gas. They all tell me that when they are modifield to the extent and that they are in writing they are willing to come here and spend millions of dollars. But until then they are not interested. Thanks a lot, Arizona.

Mr. Fulton stated further he wanted to see 40 acres for an oil well and 160 acres for a gas well.

Mr. Lewis asked Mr. Fulton, with respect to the 40 and 160 acres, did he believe that anything should be changed with respect to the location of the well within the 40 and 160 acres.

 $\mbox{Mr. Fulton replied that he would, for geological reasons, but after a hearing.} \label{eq:mr. full for geological reasons}$

Mr. Lewis then commented, in other words the same rules we have now with respect to its location, but with the flexibility of a hearing to relocate if geology demands.

Mr. Fulton answered by saing, we have a structure. It comes through the northwest quarter of a section you have under lease. There is a known producing well in the section adjoining on the high of the structure, and if you can obtain that high, giving you a better chance of production by moving as high as you can on the section you have under lease. I think this a matter that a hearing could be held on and the Commission with geology information should grant such an unorthodox location.

Mr. Lewis stated that what his question is really directed to, is not changing the flexibility of the Commission, but in the 40 acres or in the 160 acres, it would still require the well to be roughly in the center.

Mr. Fulton replied the operator would still have to have a special hearing because there would still be in the 160 acres many locations where it would not be advisable to locate.

Mr. Lewis stated he wanted to stay away from talk about conditions for a special hearing. Let us talk about the rule. The

rule would still say approximately in the center. Is that what you have in mind?

Mr. Fulton replied, no. Whey not go like some of the other states. Make it 330 feet from the legal subdivision.

Mr. Siler asked Mr. Bannister to get information on which states have 40-acre spacing and which have spacing like ours.

Dr. Kalil stated many states have spacing less than ours. But because of the characteristics of the structures and of the reservoirs they have found such spacing patterns most feasible. Administratively, in the rules and regulations there can be granted by the Commission without hearing, an exception to a well location if the operator will state some insurmountable reason.

Mr. Noble asked if the Dommission had authority to change spacing without a hearing. Mr. Lewis replied that any state board, in adopting rules and regulations, must follow a specific law that requires a hearing, that notice be filed before and afterwards with the Secretary of State. This would be true of any department of state.

Chairman Lockhart declared a recess at 3:15 p.m.

Chairman Lockhart called the meeting to order at 3:45 p.m.

Mr. Bannister announced that at this meeting we had a few copies of a dry hole map of Cochise County. The Commission was in process of preparing, and it will probably be ready in June, a dry hole map of the state. Copies of the Rules and Regulations and a dry hole map of northeastern Arizona are also available at this time.

Chairman Lockhart asked Mr. Bannister to report on the upcoming Interstate Oil Compact Commission meeting in Phoenix. Mr. Bannister replied that he had been requested to report at the Arizona Oil and Gas Association meeting on this, which meeting follows, and since everyone present during this Commission meeting would also be present at that meeting, he would like to make his report at that time. Mr. Bannister did point out that Turf Paradise was having a special IOCC race and hope there would be a good turnout for that.

Mr. Fulton stated that another thing that should be presented to the legislative body is tax relief on new production in the state, such as other states and Canada have offered and are doing now.

Chariman Lockhart suggested that Mr. Fulton or his association get the information together for presentation, and of course the Commission would do all they could to help.

Mr. Lewis pointed out we were going into a period in which our

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tax structure was going to be looked at very thoroughly. The report of re-assessment of all property should be received shortly. There will be a bundle of legal arguments as to whether or not the legislature has the right to allocate taxes on a percentage basis between different classes of property, either by proven action or by referendum or by constitutional ammendment. While that is being considered, while we might get something like this underway from the point of view of getting them to familiarize themselves with it, I think it should only be approached from an educational point of view while these other things are going on. Mr. Lewis further suggested that such a measure not be presented early in the session while the session was developing. Then, present it with the idea that it would be printed and then people would become familiar with this bill. Then when they go into special session, which most certainly will be devoted to taxes, the door is open.

Dr. Kalil asked what would be the effect upon the legislature when some segment of our economy is requesting a tax incentive. What would be the effect upon other segments of our industrial economy? Because then they could begin to clamore, "we've been here for years. We've contributed X tax dollars." It might open the barn door.

Meeting adjourned at 4:35 p.m.

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RECEIPTS: Current Month \$ 50.00 Year to date \$9.195.25	TOTALS & 3,205.17	TOTAL Arizona Bureau Mines	TOTAL Museum Northern Arizona	TOTAL Professional Services	TOTAL Current Fixed Charges & 54.03	TOTAL Capital Outlay Equipment	TOTAL Travel out-of-State	Travel-State: Staff Commissioners Casoline/related 742.92	Current Expenditures Other Telephone Miscellaneous: Amshallog, maps 144.37 TOTAL \$ 243,22	Personal Services: Staff よぶ,2/5.00 Commissioners ス50.00 TOTAL まる.光も5.00	Expenditures Current Month
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