

MINUTES OF THE House COMMITTEE ON Energy and Natural Resources

The meeting was called to order by Representative David J. Heinemann at
Chairperson

3:30 ~~am~~/p.m. on January 25, 1983 in room 519-S of the Capitol.

All members were present except:

Committee staff present:

Ramon Powers, Research Department
Theresa Kiernan, Revisor of Statutes' Office
La Nelle Frey, Secretary to the Committee

Conferees appearing before the committee:

Brian Moline, General Counsel, Kansas Corporation Commission.
Carol Larson, Director of Oil and Gas Conservation, Kansas Corporation
Commission.
Phillip Dick, Commissioner, Kansas Corporation Commission.

Brian Moline outlined three minor statutory revisions in legislation that the Kansas Corporation Commission is interested in this session. He said all three are the result of recommendations of the Legislative Division of Post Audit. He stated that the Commission agrees with the recommendations, and in some instances made the initial recommendations to the post auditors.

Mr. Moline addressed the first revision which is to amend K.S.A. 66-1503 to allow the Commission to assess public utilities and common carriers on a quarterly basis rather than on an annual basis. He said the Commission is totally a fee agency which means no General Funds are used in its operation. Mr. Moline noted that fees are currently assessed on an annual basis which is required by statute. He remarked that if the statute can be changed allowing assessments on a quarterly basis it would aid in planning and collection for everybody concerned. He considers it a minor statutory revision, but one that is important to the Commission.

Secondly, Mr. Moline said the Commission suggests that K.S.A. 66-1503(b) be deleted. He said this statute requires that the notice of assessment be sent by registered mail. He doesn't feel that registered mail is necessary for public utilities and common carriers to be properly notified. He referred to this type of mailing as being expensive and time consuming and one that really serves no particular purpose.

Mr. Moline said the most important revision the Commission seeks is to amend K.S.A. 66-1503. He stated that this statute refers to the interstate pipeline and the portion of their assessment for doing business in Kansas. He said the phrase that is currently used in the statute is that revenue which is subject to assessment is derived from intrastate operation. He suggested that this phrase be replaced with--derived from doing business in the State of Kansas. He said the clarifying language would make a larger amount of that revenue subject to assessment.

Mr. Moline said the bills dealing with these revisions are to be introduced by the Legislative Division of Post Audit. A brief question and answer period followed the presentation.

Carol Larson discussed SB 498 which was passed by the 1982 Legislature. She said this bill required considerable change in the KCC's Oil and Gas Conservation Division located in Wichita. She stated that the bill gave the Division more enforcement responsibilities and power. Miss Larson said it also required the establishment of an advisory committee for the Division and required joint field operations with the Kansas Department of Health and Environment (see attachment 1). She concluded her presentation by saying the Commission is committed to the implementation of SB 498 and to the prevention of pollution of fresh and usable water by working

CONTINUATION SHEET

MINUTES OF THE House COMMITTEE ON Energy and Natural Resources,
room 519-S, Statehouse, at 3:30 ~~am~~/p.m. on January 25, 1983

with the oil and gas industry to eliminate improper oil field practices. A brief question and answer period followed the presentation.

Phillip Dick encouraged committee members to contact the Commission any time they have questions regarding the KCC or regulatory issues under their jurisdiction. He also stated that Commission staff would be available to appear before the committee and address specific issues if the committee so requests. A brief question and answer period followed the presentation.

There being no further business before the committee, the meeting adjourned at 4:00 p.m.

The next meeting of the committee will be held at 3:30 p.m. on January 26, 1983.

Rep. David J. Heinemann, Chairman

Date January 25, 1983

GUESTS

HOUSE ENERGY AND NATURAL RESOURCES COMMITTEE

NAME	ADDRESS	ORGANIZATION
Ed Reinert	Topoka	KS League Women Voter KS Chapt. Sierra Club
Deborah Sampson	Topoka	Community Action
Patricia Hackney	P.O. Box 2815 Topoka, MO	Public Assistance Coalition of KS
Paul Johnson	"	"
Barbara Jacob	Topoka	KDH+E
Carol Johnson	Wichita	KCC
Jerry Leonard	Topoka	KG&E
Scott McGinley	Great Bend	Western Power
Ron Calbert	Newton	U.S.U.
Bill Perdve	Topoka	KPL
Louis Stroup Jr.	McPherson	KIMU
LON STANTON	TOPEKA	KPL
Dale Satterthwaite	Topoka	The Gas Service Co.
Jatvina Jordan	Topoka	KCC
Ann R. Dick	✓	✓

State of Kansas



JOHN CARLIN
C. LOUX
W. T. ROY
HILLIP R. DICK
AROL J. LARSON

Governor
Chairman
Commissioner
Commissioner
Executive Secretary

State Corporation Commission

CONSERVATION DIVISION

(Oil, Gas and Water)
200 Colorado Derby Building
202 West 1st Street
WICHITA, KANSAS 67202

January 11, 1983

KANSAS CORPORATION COMMISSION

CONSERVATION DIVISION

STATUS REPORT ON IMPLEMENTATION OF SUB. S.B. 498

Substitute Senate Bill 498, as passed by the 1982 Legislature, required considerable change in the Corporation Commission's Oil and Gas Conservation Division, located in Wichita. It gave the Division more enforcement responsibilities and power. It required the establishment of an Advisory Committee for the Division and required joint field operations with the Kansas Department of Health and Environment.

At the end of the Legislative Session, the Commission developed a plan for implementation of those changes. This included:

1. Convening of the Advisory Committee
2. Revision of Regulations
3. Staffing Changes
4. Joint KCC/KDHE Field Operations
5. Licensing of Oil & Gas Operators & Contractors
6. New Enforcement Powers & Duties
7. Training of Staff and Industry

The plan specified for each the actions which had to be taken, the person responsible, and the deadlines for completion. The months of May and June were used for planning and preparation and July for implementation.

MAJOR AREAS OF CHANGE1. Advisory Committee

The ten member advisory committee was appointed with representatives from those entities listed in SB-498:

Mid-Continent Oil & Gas Association	Lowell Case Mobil Oil Corp. Denver, Colorado
Kansas Independent Oil & Gas Association	Doug Myers Myers Engineering Wichita, Kansas
Eastern Kansas Oil & Gas Association	M.L. "Spike" Maderak Chanute, Kansas
Public Member	Judy Bengston Junction City, Kansas
Ground Water Management Districts	Tom Bell Equus Beds, District #2 Halstead, Kansas
Kansas Corporation Commission	R.C. "Pete" Loux KCC Chairman Topeka, Kansas
Department of Health & Environment	William Bryson Topeka, Kansas
Kansas Geological Survey	Howard O'Connor Lawrence, Kansas
Division of Water Resources, Board of Agriculture	James Bagley Topeka, Kansas
Kansas Water Office	Gerald Hargadine Topeka, Kansas

The Committee's first meeting was on June 9, 1982. At this meeting the Committee reviewed its responsibilities, was briefed on the implementation of SB 498, and various sub-committees were assigned the responsibility of researching and developing recommendations on the following technical issues:

1. Use of fiberglass casing
2. Surface pipe requirements for Eastern Kansas
3. Surface casing, cementing, & plugging in the Dakota Sandstones

The advisory committee is a valuable asset to the Conservation Division. It is very much in keeping with the Commission's philosophy of using outside technical resources to address highly technical issues, to keep up-to-date on new technology and to prevent isolationism which can occur when only internal resources are relied on.

2. Revision of Regulations

On June 14, 1982, notice was sent to oil and gas producers, purchasers, royalty owners, landowners, and other interested parties including other state agencies, that the Conservation Division would be revising its rules and regulations. The notice listed four committees offering any interested person the opportunity to participate.

Gas Committee	Richard C. Bryd Anderson, Bryd & Richeson Ottawa, Kansas
Oil Committee	Stan Smith Hiebsch, Robbins, Tinker & Smith Wichita, Kansas
Plugging, Drilling & Injection Well Committee	Shelby Smith Slawson Oil Wichita, Kansas
Procedural Committee	Jack Glaves Glaves, Weil, Evans & Hoke Wichita, Kansas

These committees met from July through September. Recommendations were made to the advisory committee and to the Commission. It is doubtful that any agency's regulations have had such thorough review and input.

The proposed regulations were adopted as temporary regulations by the Interim Committee on December 8, 1982. The permanent regulations are now under review by the Joint Committee on Rules and Regulations.

In addition to involving the industry, other agencies and the public in the revision of the regulations to implement SB 498, the Commission placed a priority on educating the public on the new requirements designed to protect fresh and usable water by:

- Press releases in local papers and industry publications
- Presentations to industry and industry groups
- Participation in the Wichita Oil Exposition
- Presentations to KIOGA and EKOGA

-Mass mail out of copies of Sub. SB 498 along with information routinely sent by the KCC to operators and by oil and gas purchasers to their operators

3. Staffing Changes

The Commission began in June to advertise and interview to fill the newly authorized positions. Those hired for the field positions were individuals with solid oil field experience and knowledge of good oil field practices which properly protect fresh and usable water. The majority of the positions were filled by July 1, 1982.

The Division created a Technical Section for review of intents to drill and injection applications. This section is headed by the Division's Chief Water Engineer and includes a petroleum engineer, a hydrogeologist, a hydrologist and Petroleum Industry Regulatory Technician with considerable industry experience. In addition to the technical review of applications and response to daily inquiries from the industry, these individuals staff the following Advisory Committee Subcommittees: The Dakota Formations, Fiberglass casing and Eastern Kansas surface casing and plugging. Another technical committee these individuals staff is the Burrton Task Force organized by the Division of Water Resources.

Other critical staff changes include:

- the addition of a full-time attorney to assist staff in obtaining compliance with the provisions in the law
- a computer systems analyst who is working on automation of the Commission's vast store of information on oil and gas exploration and production
- a librarian who has set up a system which gives the public and the industry better access to the oil and gas information while, at the same time, protects the information from loss or theft
- two word processing operators and machines to rapidly process orders, etc. and to compile and transmit to the Kansas Geological Survey, the following items:

1. Notice of Intent to Drill
2. Affidavit of Well Completion
3. Technician's Plugging Reports

4. Joint KCC/KDHE Operations

The Commission opted to use the KDHE Districts for area operations and on July 1, 1982, all KCC field staff were assigned to report to one of the 6 KDHE District Offices in Hays, Dodge City, Wichita, Salina, Chanute, or Topeka.

The Commission moved in furniture and established telephone communications for 24-hour-a-day, 7 day-a-week service for the industry. The KCC designed joint letterhead stationery, brochures of the districts, and signs for the joint district offices.

The KDHE District Geologist was appointed the Officer in Charge (OIC) and KCC appointed a Petroleum Technician as the Deputy Officer in Charge (DOIC). A KDHE geologist was moved in to the KCC Wichita office to expedite review of intents to drill and underground injection applications.

The Commission instituted an orientation and training program for the joint KCC/KDHE District staff. Meetings were held at the following times and places:

Initial Orientation and Training for all KCC and KDHE joint staff Wichita (Eastern Kansas staff) Great Bend (Western Kansas staff)	June 28 & 29, 1982
All Joint Staff meeting Wichita (Eastern Kansas staff) Great Bend (Western Kansas staff) UIC applications, type completions, washdowns, packers, and casing integrity testing.	August 23 & 24, 1982
OIC's & DOIC's, Assignments, Maps, Preliminary Plugging Requirements Wichita priority lists, complaint processing	September 1, 1982

5. Licensing

Senate Bill 498 mandated the Kansas Corporation Commission to license all persons who are in physical control of a well (operator) and those persons operating a crane machine for use in the oil and gas industry.

License applications were made available July 25, 1982 at all six District Offices and the Wichita and Topeka KCC offices. Processing of licenses was handled at the Topeka office because of its existing computer capability. Checks were run on the applications submitted with the Secretary of State to determine whether the corporation is properly registered in Kansas.

Proof of purchase of a rig or payment of property taxes was also verified on applications where rig tags were requested. July 1, has been established as the annual renewal date.

To date, approximately 3,100 operator/contractor licenses have been issued and 1,334 rig tags have been issued by the KCC.

On August 15, 1982, the KCC cut off all permits and authority to operators who were not licensed. A procedure was developed so that operators/contractors could apply for and receive a license number in one day by taking the application to Topeka. There have been no unreasonable delays in receiving a license number except those caused by an operator/contractor's lack of filing the application promptly.

Licensing information is used by the various KCC departments for verifying that an operator/contractor is licensed before granting any authority. If an operator/contractor's action warrants suspension or revocation of their license to operate, this option is available.

6. New Enforcement Powers & Duties

Sub S.B. 498 has both criminal and administrative penalties. Criminal proceedings must be initiated by the appropriate county or district attorney. The legal staff has contacted all the county attorneys in Kansas to become acquainted and requested that the Conservation Division be advised of any criminal proceedings in the State dealing with Chapter 55 of the Kansas Statutes Annotated. The Conservation Division staff has aided in criminal investigations by inspecting lease problems and consulting with county attorneys.

Agency enforcement of Sub S.B. 498 includes imposition of monetary penalties and suspension or revocation of operator or contractor licenses. Any such action would be taken after a show cause hearing.

The joint field staff has been instructed on the importance of detailed investigation of violations so that complete and adequate evidence properly can be presented at a show cause hearing, where these are needed. Photographs taken of violations are filed with the Wichita office along with field reports detailing the problems encountered.

If a member of the field staff has any problems or questions regarding handling of an investigation, he has been instructed to contact the legal staff for advise, to insure that proper procedures are followed to insure protection of fresh and usable water

7. Training of Staff and the Industry

The Commission has seen training and educating staff and the industry as a major enforcement tool. Doing that which is required starts with knowing what is required. Training and educational sessions sponsored by the Commission included new requirements under Sub. S.B. 498, and improved oil field practices.

Symposium on Protection of Fresh and Usable Water in Oil and Gas Development. Colby Community College.	January 23, 1982
Orientation for EKOGA on UIC	March 8 & 9, 1982
Seminar on Well Plugging Methods. Barton County Community College	March 22 & 23, 1982

IOCC Underground Injection Control Training. Norman, Oklahoma.	April 4 & 7, 1982
Short course in KS Geology Kansas Geological Survey. Lawrence	April 20 & 21 1982
Briefing for KIOGA on S.B. 498 UIC. Great Bend	May 18, 1982
Information Booth at Oil & Gas Exposition. Wichita	May 25-27, 1982
Meeting with KIOGA at Cities Tertiary Site to discuss UIC requirements	May 27, 1982
Meeting with Operators on S.B. 498 UIC and Temp. Well Aband. Chanute	June 14, 1982
Presentation to Society of Independent Petroleum Earth Scientists (S.I.P.E.S.). Wichita	July 14, 1982
KBA - KIOGA Oil and Gas Institute Wichita	August 19, 1982
Annual KIOGA Meeting Discussion of S.B. 498. Wichita	August 30, 1982
Oil Field Firefighting Training Getty Oil. El Dorado	September 21, 1982
Annual EKOGA Meeting Discussion of S.B. 498. Chanute	September 25, 1982
Short Course in KS Geology Kansas Geological Survey. Wichita (2 Sessions)	December 9 & 10, 1982 January 27 & 28, 1983
S.B. 61 Law Enforcement Training Liberal Erie Hays	October 12 & 13, 1982 November 10, 1982 December 3, 1982

Conclusion

With Sub. S.B. 498, the Commission obtained the enforcement powers and the resources needed to better protect fresh and usable water from improper oil field practices. The resources included an adequate number of committed field staff who are experienced in good oil field practices (these men work overtime without the compensation they are eligible for); a highly qualified technical

section, clerical staff sufficient to process applications; a systems analyst to develop automated information processing and retrieval systems; and an attorney full-time on clarification of and action on enforcement issues.

As an added measure to insure the public's interests are served and to insure that the integrity of our staff is maintained, the Commission prohibits staff from having working interest in oil or oil related companies and, prohibits the acceptance of gifts by staff. These are standard policies for all K.C.C. employees.

The Commission is committed to the implementation of Sub. S.B. 498 and to the prevention of pollution of fresh and usable water by working with the oil and gas industry to eliminate improper oil field practices.

ATTACHMENTS

- I. 1982 Accomplishments
- II. Total Oil Production, 1978 through Reports
Received 01-10-83
- III. Total Gas Production, 1978 through Reports
Received 01-01-83
- IV. Total Intents Processed, 1966 through 1982
- V. 1982 Intents to Drill by County
- VI. Underground Injection Applications
and Amendments Processed



JOHN CARLIN
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January 11, 1983

KANSAS CORPORATION COMMISSION

CONSERVATION DIVISION

1982 Accomplishments

Implemented Sub. SB-498:

- Operator/contractor licensing program operational on July 25, 1982
 - Licensed approximately 3,000 operators
 - Licensed approximately 1,200 rigs
- Convene & effectively use Advisory Committee and Sub-committees on:
 - Surface pipe in Eastern Kansas
 - Fiberglass casing
 - Dakota formation
- New rules & regulations developed and approved
- Developed technical unit:
 - Chief Water Engineer
 - Petroleum Geologist
 - Hydrogeologist
 - Hydrologist -PIRT III

Integrated Field staff with KDHE:

- Moved staff into specific areas
- Moved equipment into offices
- Set up 24-hour, 7-day-a-week telephone communications
- Held orientation & training sessions for joint staff

KDHE staff in KCC Wichita to expedite review of intents to drill and underground injection applications

Improved enforcement of regulations due to additional staff, better staff training and attorney working full time on compliance

Communications established in District offices with 24-hour, 7-day-a-week service.

Prepared preliminary plugging requirements to be distributed with approved Intents to Drill.

State-wide publicity program on the new requirements under SB-498, including seminars, press releases, informational letters, presentations to organizations.

Microfilm program for purchasers reports dating back to 1935

NGPA administrative grant procedure which eliminates hearings for approximately 1,200 cases annually

Well Completion Reports now on file by Section, Township & Range

Librarian to assist public and control access to valuable records

Changed Monthly Purchasers Statement to require listing of number of wells on each lease

Processed 14,524 intents to drill

Processed 1,478 Underground Injection applications and amendments (Each repressuring application contains approximately 4 wells)

Computerization of all prorated fields monthly reports

S.B.-61, Oilfield theft prevention bill

- Promulgated rules & regulations for enforcement by FBI, KBI and other law enforcement agencies.
- Participated in training sessions for implementation of SB-61

Computerized transfer of oil & gas data to Kansas Geological Survey

- intents to drill
- plugging reports
- well completion reports

Better coordination of KCC's oilfield water pollution control program with other water related agencies: KGS, KWO, KWA, KDHE, Division of Water Resources, Groundwater Management Districts

Submitted application to EPA for Kansas Primacy for Underground Injection Control (UIC)

- Developed new regulations for UIC
- Developed new UIC application review and approval process
- Developed Mechanical Integrity Testing procedures

Approved new Eastern Kansas surface pipe requirements which allow surface pipe minimums to be 20 feet instead of 50 feet and establishes cementing and plugging requirements for selected areas of Eastern Kansas

Investigation into Basic Proration Order for Kansas Hugoton Field

- Deletion of Oklahoma average pressure from the Kansas Deliverability Standard Pressure (DSP) formula

- Assessed hearing costs to first purchasers
- Held hearing on amount of underages and length of time in which to make underages up
- Held hearing on minimum allowables

Conducted approximately 90 show cause hearings on unapproved injection wells.

New abandoned well program

- Generated a dramatic increase in reporting of wells
- Reviewed and approved for temporarily abandoned status on basis of merit
- Required plugging of many dry holes

Filed proofs of claim in 5 bankruptcy proceedings to recover overdue accounts

Developed a map showing all known oil and gas activities in the Burrton area for the Division of Water Resources Burrton Task Force

Scheduled meeting with other agencies to assist in the planning of an integrated oil and gas information system

TOTAL OIL PRODUCTION

Attachment

	1978	1979	1980	1981	1982
JANUARY	4,555,491	4,202,933	4,954,582	5,150,996	5,521,109
FEBRUARY	3,939,672	4,180,143	4,671,641	4,726,874	5,119,324
MARCH	4,980,868	4,817,980	4,726,401	5,546,011	6,199,966
APRIL	4,649,812	4,736,570	5,034,659	5,523,811	5,965,494
MAY	4,925,525	4,733,134	5,147,305	5,399,941	5,934,763
JUNE	4,793,789	4,831,120	4,914,692	5,493,299	6,054,669
JULY	4,840,286	4,975,330	5,218,030	5,438,091	6,191,619
AUGUST	4,945,169	5,030,259	4,953,558	5,642,639	5,951,485
SEPTEMBER	4,713,739	4,740,627	5,145,646	5,584,412	5,984,677
OCTOBER	4,927,739	4,935,277	5,229,471	5,781,071	5,942,468
NOVEMBER	4,474,503	4,787,908	4,887,111	5,565,925	
DECEMBER	4,839,498	4,923,865	5,263,234	5,951,038	
TOTAL	56,586,111	56,995,196	60,151,530	65,812,743	(Total to DATE) 58,865,774

From Richard Smith

Initials Date
 Prepared by 1-83
 Approved by

Total Gas Production

	1	2	3	4	5	6
	1978	1979	1980	1981	1982	1983
January	90109773	92302930	101829075	63466710	68505130	
February	81767439	81112825	89486019	49638982	37598758	
March	78442117	76058135	80547655	57965359	39070345	
April	75187803	73082355	52071148	66088716	35221458	
May	66756080	63704302	47728555	61187312	29021874	
June	61034419	54370592	48437079	66161910	22974759	
July	66092208	5618532	54576967	51610057	32890082	
August	62816136	5624341	55058272	48369783	32535247	
September	58275179	48310268	47902916	40579331	22701589	
October	65800748	46007667	45338296	42223599	23374816	
November	72874638	73201187	45653635	41443403		
December	82599949	82941489	72642938	56582509		
					total to date	
					363494064	
total	862099086	804534623	741272555	645337671		

Attachment III

State of Kansas



JOHN CARLIN
 C. LOUX
 ANNE T. ROY
 HILLIP R. DICK
 ANOL J. LARSON

Governor
 Chairman
 Commissioner
 Commissioner
 Executive Secretary

State Corporation Commission

CONSERVATION DIVISION

(Oil, Gas and Water)
 200 Colorado Derby Building
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 WICHITA, KANSAS 67202-1286

INTENT TO DRILL CARDS FILED

<u>YEAR</u>	<u>PROCESSED</u>
1966	3,583
1967	3,464
1968	3,391
1969	3,210
1970	2,855
1971	2,826
1972	2,995
1973	2,504
1974	3,833
1975	4,398
1976	5,326
1977	6,794
1978	7,346
1979	8,294
1980	15,841
1981	20,551
1982	14,524

1982 Intent to Drill Filed By County

Attachment

ALLEN	972	MONTGOMERY	1049
ANDERSON	346	MORRIS	30
ATCHINSON	4	MORTON	43
BARBER	169	Mc PHERSON	83
BARTON	374	NEMAHA	29
BOURBON	247	NEOSHO	531
BROWN	1	NESS	152
BUTLER	289	NORTON	25
CHASE	72	OSAGE	3
CHATAUGUA <i>Augua</i>	635	OSBORNE	34
CHEROKEE	12	PAWNEE	82
CHEYENNE	8	PHILLIPS	33
CLARK	98	PRATT	169
CLAY	8	RAWLINS	21
COFFEY	102	RENO	61
COMANCHE	59	RICE	189
COWLEY	190	RILEY	1
CRAWFORD	99	ROOKS	391
DECATUR	47	RUSH	91
DICKINSON	14	RUSSELL	201
DOUGLAS	38	SALINE	32
EDWARDS	93	SCOTT	20
ELK	187	SEDGWICK	89
ELLIS	523	SEWARD	87
ELLSWORTH	51	SHAWNEE	1
FINNEY	29	SHERIDAN	34
FORD	45	SHERMAN	19
FRANKLIN	673	STAFFORD	221
GOVE	91	STANTON	4
GRAHAM	183	STEVENS	121
GRANT	3	SUMNER	121
GRAY	17	THOMAS	20
GREELEY	33	TREGO	228
GREENWOOD	410	WABAUNSEE	7
HAMILTON	4	WILSON	676
HARPER	96	WOODSON	706
HARVEY	15	WYANDOTTE	19
HASKELL	20		
HODGEMAN	79		
JACKSON	5		
JEFFERSON	6		
JOHNSON	365		
KEARNEY	22		
KINGMAN	104		
KIOWA	90		
LABETTE	181		
LANE	147		
LEAVENWORTH	37		
LINN	239		
LOGAN	56		
LYON	16		
MAKION	117		
MARSHALL	2		
MEADE	48		
MIAMI	653		

December 31, 1982

FOLLOWING ARE THE APPLICATION UNITS FOR THE YEAR 1981, 1982 AND TO DATE:

MONTH	SWD	REP	AMEND	MONTH	SWD	REP	AMEND	TOTAL
JULY 1980	11	6	8	JULY 1981	37	20	12	69
AUG	14	8	4	AUG	33	16	4	53
SEPT	15	8	6	SEPT	39	19	5	63
OCT	34	5	6	OCT	90	51	5	146
NOV.	18	6	5	NOV	43	26	4	73
DEC	27	8	2	DEC	63	31	2	96
1981				1982				
JAN	20	9	6	JAN	69	31	4	104
FEB	23	7	6	FEB	75	48	4	127
MAR	25	13	10	MAR	54	22	4	80
APRIL	43	17	6	APRIL	66	30	4	100
MAY	38	13	5	MAY	57	32	5	94
JUNE	27	13	2	JUNE	65	38	23	126
	<u>295</u>	<u>113</u>	<u>66</u>		<u>691</u>	<u>364</u>	<u>76</u>	<u>1131</u>

1982-1983

JULY	57	25	8	90
AUG	68	31	39	138
SEPT	135	78	73	286
OCT	64	34	29	127
NOV	50	29	33	112
DEC.	54	31	46	131
	<u>428</u>	<u>228</u>	<u>228</u>	<u>884</u>