

JAL OIL COMPANY

Future Recoverable Hydrocarbons

EXHIBIT NO. _____

October 1959

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
FILE NO. 1921

Well	Gross Acres	No. Wells		Gross			Future	Net Interest	Net Future
		Oil	Gas	Ultimate	12 Months Production	Cumulated 10-1-59			
Lea County, New Mexico									
Carlson Nos. 2 & 3	200								
HPGas - MCF		2		4,027,550	301,091	448,772	3,578,778	.654841	2,343,530
Christmas Nos. 1 - 5	320								
Oil - Bbls		3		160,000	12,266	78,936	81,064	.363327	29,450
LPGas - MCF				422,000	50,740	69,524	352,476		128,060
HPGas - MCF		2		8,866,420	220,101	2,422,619	6,443,801		2,341,210
Coll, A. P. (Dev Unit)	40								
Oil - Bbls				141,540	3,514	40,766	100,774	.041016	4,130
HPGas - MCF		1		24,886,100	536,434	3,836,096	21,050,004		863,390
Covington-Federal									
Oil - Bbls		1		16,000	766	1,451	14,549	.875	12,730
LPGas - MCF				503,840	23,753	31,958	471,882		412,900
Dyer	160								
Oil - Bbls		2		107,500	1,083	87,229	20,271	.814323	16,510
LPGas - MCF				475,000	13,938	151,974	323,026		263,050
HPGas - MCF		1		3,436,270	102,493	787,981	2,648,289		2,156,560
Farnsworth Nos. 1, 2 & 3	240								
Oil - Bbls		3		584,500	30,875	181,476	403,024	.678125	273,300
LPGas - MCF				1,957,330	171,930	655,016	1,302,314		883,130
Gregory, L. L.	80								
Oil - Bbls		1		60,620	1,862	24,893	35,727	.875	31,260
LPGas - MCF				516,500	18,640	158,448	358,052		313,300
Gregory, R. O.	120								
Oil - Bbls		1		56,000	2,873	34,680	21,320	.7375	15,720
LPGas - MCF				1,154,000	100,872	419,358	734,642		541,800
Gutman Nos. 1 & 2	80								
Oil - Bbls		2		87,000	2,526	38,351	48,649	.375	18,240
LPGas - MCF				870,000	33,531	390,674	479,326		179,750
Gutman "D" (Dev Unit)	40								
Oil - Bbls				172,020	3,094	43,977	128,043	.1875	24,010
HPGas - MCF		1		25,010,370	461,396	3,986,869	21,023,501		3,941,910
Gutman - 18	80								
Oil - Bbls		3		195,320	6,283	111,407	83,913	.773438	64,900
LPGas - MCF				285,000	14,799	14,438	270,562		209,260
HPGas - MCF				5,375,520	250,834	2,604,180	2,771,340		2,143,460
Harner No. 1	80								
Oil - Bbls		1		32,440	900	15,460	16,980	.807617	13,710
Hodge	160								
Oil - Bbls		4		179,560	6,309	79,863	99,697	.820313	81,780
LPGas - MCF				2,649,000	52,579	2,200,017	448,983		368,310
HPGas - MCF		1		8,106,680	563,118	417,975	7,688,705		6,307,140
Jack	160								
Oil - Bbls		4		119,320	4,711	68,191	51,129	.165	8,440
LPGas - MCF				727,990	37,176	429,927	298,063		49,180
HPGas - MCF		1		5,747,680	151,803	1,923,731	3,823,949		630,950
Jenkins	160								
Oil - Bbls		2		64,300	2,575	31,949	32,351	.783447	25,350
LPGas - MCF				1,957,500	70,081	1,085,913	871,587		682,840
HPGas - MCF		2		4,716,380	182,216	1,769,459	2,946,921		2,308,760
Lanehart-Sun									
Oil - Bbls				67,840	3,173	3,173	64,667	.020508	1,330
HPGas - MCF		1		13,568,250	477,551	1,545,800	12,022,450		246,560
Legal	160								
Oil - Bbls		2		84,050	3,545	45,741	38,309	.809050	30,990
LPGas - MCF				361,200	7,212	265,423	95,777		77,490
HPGas - MCF		1		3,931,080	123,029	1,687,161	2,243,919		1,815,440
Owen, Eva	40								
HPGas - MCF		1		2,848,030	1,399	950,157	1,897,873	.572591	1,086,700
Owen, Eva "D" (Dev Unit)	40								
Oil - Bbls		1		160,000	420	36,489	123,511	.337891	41,730
LPGas - MCF				120,000	484	31,510	88,490		29,900
Sarkeys Nos. 1-C, 1-T & 2-T	160								
Oil - Bbls		2		157,500	9,787	35,844	121,656	.375	45,620
LPGas - MCF				2,343,040	161,840	375,391	1,967,649		737,870
Watkins No. 1	80								
Oil - Bbls		1		209,870	12,889	32,864	177,006	.617188	109,250
HPGas - MCF				2,933,880	8,419	767,449	2,166,431		1,337,100

JAL OIL COMPANY

Future Recoverable Hydrocarbons

October 1959

Wells	Gross Acres	No. Wells		Ultimate	Gross		Future	Net Interest	Net Future
		Oil	Gas		12 Months Production	Cumulated 10-1-59			
Lea County, New Mexico cont'd									
Wells	640								
Oil - Bbls		2		286,500	16,415	61,277	225,223	.536250	120,780
LPGas - MCF				2,249,000	112,766	1,111,103	1,137,897		610,200
HPGas - MCF			6	8,216,850	772,667	1,141,565	7,075,285		3,794,120
Woolworth	160								
Oil - Bbls				79,800	1,610	5,287	74,513	.526042	39,200
HPGas - MCF			1	6,900,710	86,858	1,422,805	5,477,905		2,881,610
Woolworth - 27	240								
Oil - Bbls		1		7,780	246	3,272	4,508	.806409	3,640
LPGas - MCF				227,600	11,209	84,016	143,584		115,790
TOTAL New Mexico	3,440	36	21						
Oil - Bbls				3,029,460	127,722	1,062,576	1,966,884		1,012,070
LPGas - MCF				16,819,000	881,550	7,474,690	9,344,310		5,602,830
HPGas - MCF				128,571,770	4,239,409	25,712,619	102,859,151		34,198,440
Cochran County, Texas									
Masten Nos. 1 & 2	10,647								
Oil - Bbls		2		120,300	4,444	62,674	57,626	.75	43,220
Masten No. 3									
HPGas - MCF			1	1,949,350	14,136	30,481	1,918,869	.722656	1,386,680
TOTAL Texas	10,647	2	1						
Oil - Bbls				120,300	4,444	62,674	57,626		43,220
HPGas - MCF				1,949,350	14,136	30,481	1,918,869		1,386,680
TOTAL Original Wells New Mexico & Texas									
Oil - Bbls				3,149,760	132,166	1,215,250	2,024,510		1,055,290
LPGas - MCF				16,819,000	881,550	7,474,690	9,344,310		5,602,830
HPGas - MCF				130,521,120	4,253,545	25,743,100	104,778,020		35,585,120
New Wells - Since 11-1-57									
Lea County, New Mexico									
Christmas Nos. 6 - 9									
Oil - Bbls		4		412,320	18,518	18,518	393,802	.363327	143,080
LPGas - MCF				2,704,800	121,647	121,647	2,583,153		938,530
Farnsworth Nos. 4 & 5									
Oil - Bbls		2		340,000	13,969	22,820	317,180	.339063	107,540
LPGas - MCF				1,214,580	34,184	66,759	1,147,821		389,180
Harner No. 2									
Oil - Bbls				100,000	1,439	1,439	98,561	.807617	79,600
HPGas - MCF			1	2,000,000			2,000,000		1,615,230
Sarkeys No. 2-C (bln)									
Oil - Bbls		1		97,500	3,612	6,559	90,941	.375000	34,100
LPGas - MCF				780,900	53,949	85,571	695,329		260,750
Watkins No. 2									
HPGas - MCF			1	2,900,000	28,579	28,579	2,871,421	.617188	1,772,210
Cochran County, Texas									
Masten Nos. 5 - 12									
Oil - Bbls		7		969,000	26,726	26,726	942,274	.75	706,710
LPGas - MCF				750,000	1,531	1,531	748,469		561,350
TOTAL New Wells		14	2						
Oil - Bbls				1,918,820	64,264	76,062	1,842,758		1,071,030
LPGas - MCF				5,450,280	211,311	275,508	5,174,772		2,149,810
HPGas - MCF				4,900,000	28,579	28,579	4,871,421		3,387,440
GRAND TOTAL									
Oil - Bbls				5,068,580	196,430	1,201,312	3,867,268		2,126,320
LPGas - MCF				22,269,280	1,092,861	7,750,198	14,519,082		7,752,640
HPGas - MCF				135,421,120	4,282,124	25,771,679	109,649,441		38,972,560

IRA BRINKERHOFF

April 12, 1960

FILE MEMO:

In Re: Jalmat Wells & Allowables

The following is a comparison of Jal Oil Co., Inc's well in the Jalmat Pool to total wells in Pool, also allowable as to total allowables for Jalmat Pool.

For the month of April 1960.

Total Jalmat wells	385	
Jal Oil Co. Jalmat wells	10	
Jal Oil percentage to total		2.597%
Total Jalmat allowable	6,541,921 mcf	
Jal Oil Jalmat allowable	100,240 mcf	
Jal Oil percentage to total		1.532%

E. D. Hardwick
E. D. Hardwick

EDH/b1

EXHIBIT NO.-----

April 6, 1960

FILE MEMO:

In Re: Jalmat wells & Allowable

In a discussion with Mr. Girand, he asked what Jal's percentage of wells as to total wells in above Pool, also Jal's allowables as to total allowables for the above Pool.

For this summary I am using March 1960 figures.

Total Jalmat wells	387	
Jal's Jalmat wells	10	
Jal's percentage to total		2.584%
Total Jalmat allowable	8,600,945 mcf	
Jal's Jalmat allowable	131,666 mcf	
Jal percentage to total		1.531%

BEFORE THE
OIL CONSERVATION COMMISSION
SIGNED, 1960

CASE

1941-3

E. D. Hardwick
E. D. Hardwick

EDH/b1

Original
Sent to Mr. Miller
6/10/59

El Paso Natural Gas Company

El Paso, Texas

June 8, 1959

ADDRESS REPLY TO:
POST OFFICE BOX 1384
JAL, NEW MEXICO

Jal Oil Company
Drawer Z
Jal, New Mexico

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 5
CASE 1491

Gentlemen:

This letter will confirm our conversation on June 5, 1959, concerning the reclassification of gas wells in the Jalmat Pool.

The New Mexico Oil Conservation Commission has reclassified four (4) of your wells connected to our gathering system from marginal to non-marginal status. The wells are the Dyer #3, Legal #2, Jenkins #1 and Repollo #1 in the Jalmat Gas Pool. The allowables were made retroactive to July, 1958, and all of the wells are now overproduced due to being produced at all times as marginal wells.

Since the Repollo #1 makes a considerable amount of water and if it should be ordered shut in by the New Mexico Oil Conservation Commission due to overproduction then it would probably be detrimental to the well with probable complete loss of gas production. It would probably be advantageous to request permission for an exception to the rules from the New Mexico Oil Conservation Commission to allow the Repollo #1 to continue to produce at all times. The Commission granted an exception to the rules in 1955 to allow it to continue to produce for a one year period when it was overproduced prior to being reclassified as a marginal well.

As you have requested in the past, the Repollo #1 well will be left producing into our system until we are notified otherwise.

Yours truly,

EL PASO NATURAL GAS COMPANY

D. B. Gillit

D. B. Gillit
Dispatching Department



DBG:bjc

RECEIVED

JUN 10 1959

JAL OIL CO. INC.

*El Paso Natural Gas Company**El Paso, Texas*

March 7, 1960

ADDRESS REPLY TO:
POST OFFICE BOX 1384
JAL. NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO 6
EXHIBIT No. 1941
CASE

Girand and Stout, Lawyers
P. O. Box 1445
Hobbs, New Mexico

Attention: Mr. W. D. Girand

Gentlemen:

Confirming our telephone conversation last week regarding the Jal Oil Company - Watkins No. 2, Jalmat gas well, located SE $\frac{1}{4}$ of NE $\frac{1}{4}$, Section 35, Township 24 South, Range 36 East, Lea County, New Mexico, the following information is submitted:

In November, 1959, I met with Mr. Howard Olsen and Mr. Dale Ellis, with The Jal Oil Company, to discuss scheduling production of the Watkins No. 2 gas well. This meeting was brought about because of the difficulty in keeping the well producing into the line. As you know, allowables have been extremely low, and in order to keep the well in balance, we have been required to shut it in at times, or schedule production on a very low daily rate. In either case we found the well would log off, requiring it to be swabbed or blown down in order to unload.

In the meeting with Mr. Olsen, it was decided to attempt to establish an optimum rate of flow that would enable the well to flow continuously into the line without logging off. On or about November 16, 1959, the rate was set at approximately 450 MCFPD. This volume was gradually reduced until the rate was approximately 321 MCFPD. Production remained at this level until February 9, 1960, at which time we had a failure on our field compressor, causing it to be off some twenty-four (24) hours. During this interval I understand the well logged off and required unloading before it would produce into our one hundred (100) pound line. After unloading, the rate was again set at about 321 MCFPD and it remained constant until

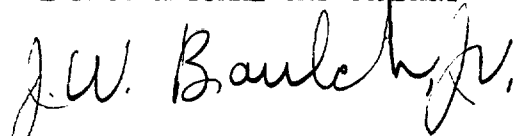
February 24, 1960. For no apparent reason the volume dropped to 242 MCFPD on the 24th, to 75 MCFPD on the 25th, and on the 26th, the well logged off completely. During this period our compressor continued to operate. It is my understanding that Mr. Ellis was unable to unload the well by blowing and that it will require swabbing before production can be resumed. At this writing the well is still off.

Based on the facts outlined it is apparent the well will require approximately 325 MCFPD constant production in order to prevent consistent logging off. This, of course, presents the problem of getting the well in an unbalanced overproduced status. The 325 MCFPD required production is approximately four (4) times the wells average monthly allowable for the last proration period in 1959.

Should you need any further information or have any questions regarding this matter please notify us at your convenience.

Yours very truly,

EL PASO NATURAL GAS COMPANY



J. W. Baulch, Jr.
Gas Production Engineer

JWB,Jr:bjc

cc: Mr. Howard Olsen
Jal Oil Company
Midland, Texas

El Paso Natural Gas Company
Proration Department
El Paso, Texas

EXHIBIT NO.-----

**JAL OIL COMPANY, INC.
RESERVES & PRODUCTION FROM ENGINEERS REPORT
OCTOBER 1959-PLUS PRODUCTION TO 1-1-60**

**Watkins #2
SE NE 35-24S-36E Lea County
Jalmat Pool**

Original Reserves	2,900,000 MCF
Less Production Thru Dec. 1959	<u>39,768 MCF</u>
Unrecovered Reserves 1-1-60	<u><u>2,860,232 MCF</u></u>

STATE OF TEXAS I
COUNTY OF MIDLAND I

I, J. Chewing, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

Subscribed and sworn to before me this 5th day of March, 1960.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEX
EXHIBIT NO. 29417

Wm. Madden
Notary Public

EXHIBIT NO.-----

March 5, 1960

FILE MEMO:

In Re: Watkins #2 SE NE 35-24S-36E
Lea County, New Mexico

This summary of well activity covers period October 1, 1959 through February 29, 1960.

- Oct. 1-8 Flowing well. No gas this period, well shut in, casing pressure 900#.
- Oct. 8-16 Flowing well. No gas this period, well shut in.
- Oct. 16-23 Flowing well. No gas this period, well shut in.
- Oct. 23-31 Well rproduced 308 mcf. Blew well in water 250 bbls per day.
- Oct. 31-Nov. 3 Well produced 2,120 mcf. When line pressure goes up production drops due to water condition and line pressure, water 250 bbls. per day.
- Nov. 8-16 Well produced 141 mcf. Well blown in almost every day to keep water off. Had to swab well in on Nov. 11th as water was too great for well to blow around.
- Nov. 16-22 Well produced 1,440 mcf. Water is blown off when well is not on line. Had to swab well in 11/17 due to same condition as above.
- Nov. 22-30 Well produced 987 mcf. Changed orifice from 3/4" to 1/4" to see if well would produce less gas and not logg off.
- Dec. 1-8 Well produced 221 mcf. Well died on 1/4" orifice and would not blow around, used a swab unit Dec. 4th to get water off formation and back producing.
- Dec. 8-16 Well died again with 1/4" orifice and would not produce. Orifice changed Dec. 9th from 1/4" to 1/2" and well swabbed in. Well produced approx. 350 mcf and died. Well swabbed in Dec. 10th produced 25 mcf and died. Well swabbed in Dec. 11th produced approx. 40 mcf and died. Orifice changed from 1/2" to 1" and well was blown in. Well was able to produce with 1" orifice but casing pressure has dropped from 900# to 600# in approx. two months.
- Dec. 16-23 Well produced 2,335 mcf. Chokes were pinched to reduce flow of gas, well started logging off. This flow procedure was tested with El Paso Nat'l Gas as per their letter of March 7, 1960.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT NO. 8
1941
DATE

Page 2 - FILE MEMO

- Dec. 23-31** Well produced 2,642 mcf. Chart shows well heading due to enormous amount of water, same being approximately 250 bbls water per day.
- Jan. 1-8** Well produced 2,164 mcf. Chart shows well pinched down to determine low rate of flow and well died. Well later blown in when line pressure dropped allowing same to unload water.
- Jan. 8-16** Well produced 2,696 mcf. Chart shows production at a specified rate when choke is pinched well begins to logg off then choke is opened up and well unloads water.
- Jan. 16-23** Well produced 2,075 mcf. Well producing at as low rate as can be produced without logging off. Water still approx. 250 bbls. per day.
- Jan. 23-31** Well produced 2707 mcf. Well started out low and appeared to be logging off so choke was opened to allow well to unload water.
- Feb. 1-8** Well produced 2,517 mcf. Producing at as low rate as possible without logging off.
- Feb. 8-16** Well produced 1,706 mcf. Chart shows erratic production do to logging off condition. Well logged off on the 14th do to high line pressure and cold weather.
- Feb. 16-21** Well produced 1,246 mcf. Chart shows same as above.
- Feb. 21-29** Well produced 1,084 mcf. Well logged off several times due to cold weather. Was able to blow well in when line pressure and weather permitted. Water production still approx. 250 bbls. per day and casing pressure dropping gradually due to water encroachment.

Casing pressure on March 31, 1960 was 360#.

The above information prepared from El Paso Charts and field superintendent information.


E. D. Hardwick

EXHIBIT NO.-----

JAL OIL COMPANY, INC.
RESERVES & PRODUCTION FROM ENGINEERS REPORT
OCTOBER 1959-PLUS PRODUCTION TO 1-1-60

E. Owen #1
SW SW 21-25S-37 E Lea County
Jalmat Pool

Original Reserves	2,848,030 MCF
Less Production Thru Dec. 1959	<u>954,498</u> MCF
Unrecovered Reserves 1-1-60	<u>1,893,532</u> MCF

STATE OF TEXAS I
COUNTY OF MIDLAND I

I, J. Chewning, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

J. Chewning

Subscribed and sworn to before me this 24 day of March, 1960.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 9
1961
CASE

Wesley Hallen
Notary Public

March 5, 1960

FILE MEMO:

In Re: E. Owen #1 SW SW 21-25S-37E
Lea County, New Mexico

The following is a summary of well activity October 1, 1959 through February 29, 1960.

- Oct. 1-9 This well has a piston installation and was shut in approximately one year. Well is dead due to water condition after bng shut in period and unable to blow well in.
- Oct. 9-17 Same as above
- Oct. 17-24 Same as above
- Oct. 24-31 Same as above. Had pulling unit swab well in 10/31 and same produced 43 mcf and considerable amount of water before well died.
- Nov. 1-9 Well was swabbed in Nov. 3rd and produced very little before dying. Swabbed in again 11/4 and produced a total for this period of 90 mcf and considerable amount of water.
- Nov. 9-17 Well produced 59 mcf for this period. Well was blown in several times and would not take line. This procedure performed each day to get fluid off well. Produced approx. 40 bbls water per day.
- Nov. 17-23 Well produced 175 mcf under same conditions as above.
- Nov. 23-Dec. 1 Well produced 438 mcf. Same conditions as above.
- Dec. 1-9 Well produced 442 mcf. Same conditions as above.
- Dec. 9-17 Well produced 297 mcf. Same conditions as above.
- Dec. 17-24 Well produced 121 mcf. Changed orifice 12/18 from 1/2" to 1" to get piston to run. Produced 814 mcf after change and approximately 40 bbls. water per day.
- Dec. 24-Jan. 1 Well produced 1,664 mcf. Well having hard time keeping fluid off formation
- Jan. 1-9 Produced 731 mcf. Well logged off five times in this period was able to blow same in. Water produced still about the same.
- Jan. 9-17 Well produced 175 mcf. Well was blown each day but well only took line two times and logged off each time due to water on formation.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
CASE 1941 EXHIBIT No. 10

Page 2 - FILE MEMO

Jan. 17-24 Well produced 121 mcf unable to get well to take line. Tried blowing in once or twice each day.

Jan. 24-Feb. 1 Well produced 7 mcf. Same conditions as above.

Feb. 1-9 Well produced 451 mcf. Line pressure down well blew in but unable to produce normally.

Feb. 9-17 Well produced 579 mcf. Same conditions as above.

Feb. 17-22 Well produced 161 mcf. Well logged off after two days low production due to same conditions as above.

Feb. 22-Mar. 1 Well produced 348 mcf. Produced low for 1/2 time and was logged off approximately 1/2 time. Each time well logged off the well was worked with to get water off formation and get same back to producing. When producing it unloads approx. 40 bbls water per day.

On March 31, 1960 the casing pressure was 400# and tubing pressure 200#.

The above information gathered from field superintendent information and El Paso Gas Charts.


E. D. Hardwick

EDH/b1

EXHIBIT NO. _____

JAL OIL COMPANY, INC.
RESERVES & PRODUCTION FROM ENGINEERS REPORT
OCTOBER 1959-PLUS PRODUCTION TO 1-1-60

Repollo #1
SW NW 28-25S-37E Lea County
Jalmat Pool

Original Reserves	6,363,446 MCF
Less Production Thru Dec. 1959	<u>2,184,353 MCF</u>
Unrecovered Reserves 1-1-60	<u>4,179,093 MCF</u>

STATE OF TEXAS I
COUNTY OF MIDLAND I

I, J. Chewning, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

J. Chewning

Subscribed and sworn to before me this 28th day of March, 1960.

Joyce M. Alden
Notary Public

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 11
CASE 1941

EXHIBIT NO. _____

**JAL OIL COMPANY, INC.
RESERVES & PRODUCTION FROM ENGINEERS REPORT
OCTOBER 1959-PLUS PRODUCTION TO 1-1-60**

**Dyer #3
SE NE 31-258-37E Lea Co.
Jalmat Pool**

Original Reserves	3,436,278 MCF
Less Production Thru Dec. 1959	<u>793,606 MCF</u>
Unrecovered Reserves 1-1-60	<u><u>2,642,672 MCF</u></u>

STATE OF TEXAS I
COUNTY OF MIDLAND I

I, J. Chewing, do hereby certify that the above is a true and correct account of the reserves and production from Engineering Report of October, 1959, plus production to January 1, 1960.

J. Chewing

Subscribed and sworn to before me this 28 day of March, 1960.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
FILE NO. 12

194

Jayce Madden
Notary Public

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
FILE NO. _____

CASE _____

EXHIBIT NO. _____

April 5, 1960

FILE MEMO:

In Re: Dyer #3 SE NE 31-258-37E
Lea County, New Mexico

The following summary covers well from October 1, 1959 through February 29, 1960.

- Oct. 1-9 Piston set 1½ hrs. on 1/2 hour off. Each gas production kick on chart is strong, then well production drops considerably due to water volumn. When line pressure is up to approx. 180# production drops sharply. Production 2,282 mcf water approximately 25 bbls day.
- Oct. 9-17 Piston setting is the same. Line pressure up Oct. 12th, well died, was able to blow same in Oct. 14th. Line pressure still high, well died again. Same thing happened Oct. 15 & 16th. Production 1,419 mcf, water same.
- Oct. 17-24 Piston setting the same. Well blown in on 17th and well did. Well blown in Oct. 19th and died. Same thing happened Oct. 22 and 23rd. Production 405 mcf, water increasing
- Oct. 24-Nov. 1 Piston setting the same. Well was blown in four times in this period and logged off each time. Unable to keep same producing due to water. Prod. 569 mcf, water approximately 30 bbls per day.
- Nov. 1-9 Piston setting the same. Well blown in two times in this period and died each time. Unable to keep producing due to water encroachment. Prod. 296 mcf, water approximately same.
- Nov. 9-17 Same piston setting. Unable to blow well in. Had swab unit swab well in Nov. 13th but was unable to keep well producing. Well died about four hours later. Prod. 71 mcf, water same.
- Nov. 17-23 Unable to blow well in. No gas.
- Nov. 23-Dec. 1 Unable to blow well in. No gas.
- Dec. 1-9 Piston setting the same. Swabbed well in Dec. 2nd and same died shortly thereafter. Prod. 151 mcf, water approx. 30 bbls.
- Dec. 9-17 Unable to get well to produce. No gas.
- Dec. 17-24 Unable to get well to produce. No gas.
- Dec. 24- Jan. 1 Unable to get well to produce. No gas.
- Jan. 1-9 Unable to get well to produce. No gas.
- Jan. 9-17 Unable to get well to produce. No gas.

Page 2 - FILE MEMO

Jan. 17-24 Unable to produce well so installed pump jack Jan. 21st to lift water off formation. Production 307 mcf, water 30 to 35 bbls per day.

Jan. 24-Feb. 1 Line pressure high approx. 225#. Pump running to keep water off formation. Production is low due to line pressure. Production 1,091 mcf, water same.

Feb. 1-9 Changed orifice from 1½" to 3/4". Pump running. Production 1,262, water same.

Feb. 9-17 Pump running to keep formation clean. When line pressure is high production is down. Production 880 mcf, water same.

Feb. 17-22 Had trouble with pump jack engine and cold weather. Well produced very little gas. Production 418 mcf, water approximately 35 bbls per day.

Feb. 22-Mar. 1 Well produced in accordance with line pressure. Pump running to keep formation clear of water. Produced 1,192 mcf water about the same.

This well on March 31, 1960 had casing pressure of 250#, tubing on pump.

The above summary compiled from El Paso Gas Charts and field superintendent information.


E. D. Hardwick

EDH/bl

El Paso Natural Gas Company

El Paso, Texas

April 11, 1960

ADDRESS REPLY TO:
POST OFFICE BOX 1384
JAL. NEW MEXICO

Girand and Stout, Lawyers
P. O. Box 1445
Hobbs, New Mexico

Attention: Mr. W. D. Girand

Gentlemen:

Enclosed herewith is a map showing a portion of El Paso Natural Gas Company's dry gas gathering system. The pipelines outlined in red represent that portion of our system operating at approximately one hundred (100) PSIG.

In order to reduce the line pressure to one hundred (100) pounds we have installed seven (7) field compressor units. They are identified on the map as "El Paso MB Field Compressors", "El Paso Maggie Rose Field Compressor" and "El Paso Cooper Field Compressors".

The "El Paso MB" and "El Paso Maggie Rose" compressors have a combined capacity of 14,700 MCFPD operating at 85 PSIG suction pressure and 200 PSIG discharge pressure. The "El Paso Cooper Field Compressors" have a capacity of 5,800 MCFPD operating at 85 PSIG suction pressure and 200 PSIG discharge pressure.

Should you need any further information regarding our 100 PSIG Intermediate System please let me know.

Yours truly,

EL PASO NATURAL GAS COMPANY

J. W. Baulch, Jr.
J. W. Baulch, Jr.
Gas Production Engineer

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
1960
CASE NO. _____

JWB,Jr:bjc

Attachment

WELLS OPERATED TO 1900 SYSTEM

OPERATOR AND WELL NAME	WELL LETTER	LOCATION		
		SECTION	TOWNSHIP	RANGE
Amerada Petroleum Corporation Cagle C-1 Tbg.	D	3	26	37
Argo Oil Corporation Lanehart #1	H	21	25	37
Cities Service Oil Company Dabbs #1	D	23	25	37
J. R. Cone Mobil Myers #4	I	22	24	36
Continental Oil Company Ascarate C-24-1	B	24	25	36
Ascarate D-24-1	J	24	25	36
Sholes A-13-3	P	13	25	36
Sholes A-19-1	L	19	25	37
Sholes B-19-1	N	19	25	37
<u>State A-2-1</u>	O	2	25	37
El Paso Natural Gas Company Carlson Federal #1	L	22	25	37
Carlson Federal #2	N	23	25	37
Farnsworth C-2	G	4	26	37
Gregory Federal #1	J	33	25	37
Harrison Federal #1	L	27	25	37
Harrison Federal #2	D	27	25	37
Langlie Federal A-1	J	17	25	37
Humble Oil & Refining Company Hadfield #1	J	21	25	37
Harrison #1	M	25	24	36
Harrison #3	K	25	24	36
Hunter #1	D	24	24	36
Lanehart #1	K	21	25	37
Thomas #1	O	23	24	36
Jal Oil Company Dyer #3	H	31	25	37
Jenkins #1	M	29	25	37
Legal #2	I	31	25	37
Owens #1	M	21	25	37
Repollo #1	E	28	25	37
Watkins #2	H	35	24	36

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 16
CASE 1941

OPERATOR AND WELL NAME	UNIT LETTER	LOCATION		
		SECTION	TOWNSHIP	RANGE
John M. Kelly Shahan #3	G	33	25	37
Leonard Oil Company Bates #1	I	20	25	37
Bates #2	D	29	25	37
Justis #1	H	19	25	37
Justis #2	H	20	25	37
B.M. Justis #7	F	20	25	37
Lanehart #1-A	G	21	25	37
Ralph Lowe Coates A-2	E	31	25	37
Maggie Rose #1	M	18	25	37
Maggie Rose #3	K	18	25	37
Olsen Oils, Incorporated S.R. Cooper #1	O	11	24	36
Cooper #5	H	14	24	36
Cooper B-2	C	14	24	36
Winningham #1	G	30	25	37
Winningham #2	P	19	25	37
Winningham #3	I	30	25	37
Producing Properties, Inc. Dabbs #1	M	34	25	37
Dabbs #2	E	34	25	37
Martin #2	A	31	24	37
E. G. Rodman Hadfield #1	O	21	25	37
Hadfield #2	P	21	25	37
Shell Oil Company State A-1	D	36	24	36
Sinclair Oil & Gas Company Crosby A-1	O	29	25	37
Crosby B-1	N	28	25	37
State 157 F-1	G	32	24	37
Skelly Oil Company Sherrell #3	B	6	25	37
Sun Oil Company Lanehart #2	I	20	25	37
Thompson & Cone Pan American Meyers #1	H	22	24	36
Westates Petroleum Company Wells B-1	A	6	25	37

One-point Back Pressure Test for Gas Wells
(Deliverability)

Pool Jalmat Formation X Yates County Lea
 Initial Annual Special Date of test 4/1-8/60
 Company Jal Oil Company Lease Watkins Well No. 2
 Unit H Sec. 35 Twp. 24 Rge. 36 Purchaser El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 I.D. Set at 2982 Perf. To
 Tubing 2 Wt. 4.7 I.D. Set at 2869 Perf. To
 Gas Pay: From 2942 To 2954 L 2869 x G .666 = GL 1911 Bar. Press 13.2
 Producing Thru: Casing Tubing X Type Well Single
 Series 40 Meter Run Packer at Single - Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	Time	Date	Time							
<u>4-4-60</u>	<u>8:45 AM</u>	<u>4-5-60</u>	<u>8:45 AM</u>	<u>24</u>	<u>Flg.</u>	<u>4</u>	<u>1.000</u>	<u>119</u>	<u>19.36</u>	<u>80</u>
	PM		PM							

FLOW CALCULATIONS

Static Pressure Pf	Differ- ential h _w	Meter Extension Pf h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da @ 15.025 psia Q
<u>132.2</u>	<u>19.36</u>	<u>50.59</u>	<u>6.135</u>	<u>.9491</u>	<u>.9813</u>	<u>1.011</u>	<u>292.3</u>

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
	AM		AM		Operator Did not want well shut in		Bad Valve	<u>400.2</u>
	PM		PM					

FRICTION CALCULATION (if necessary)

SUMMARY

P_c = _____ psia
 Q = _____ MCF/Da.
 P_w = _____ psia
 P_d = _____ psia
 D = _____ MCF/Da.

DELIVERABILITY CALCULATION

P_w _____ P_c _____
 $1 - \frac{P_w}{P_c} = 1 + \frac{P_w}{P_c} \left(1 - \frac{P_w}{P_c} \right) + \frac{P_w}{P_c} \left(1 - \frac{P_w}{P_c} \right)^2 = M$
.36 + M Log _____ x (n) .777 = _____ +

Company El Paso Natural Gas Company Log Q = _____
 Address P. O. Box 1384 - Jal, New Mexico Log D = _____
 Agent and Title Bobby Booy Gas Tester _____
 Witnessed _____ Antilog = _____ = D
 Company _____

REMARKS

*Operator Did not want well shut-in.

State of New Mexico
One-point Slug Test for Gas Wells
(Deliverability)

EXHIBIT NO. _____

Pool Jalinet Formation Yates County Lin
 Initial Acreage X Special Date of test 2-20/2-27-59
 Company Jal Oil Company Lease Watkins Well No. 2
 Unit H Sec. 35 Twp. 24 Rge. 36 Purchaser El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 I.D. Set at 2982 Perf. To
 Tubing 2 Wt. 4.7 I.D. Set at 2869 Perf. To
 Gas Pay: From 2942 To 2954 L. 2869 x G. 0.669 = GL. Bar. Press 13.2
 Producing Thru: Casing Tubing X Type well Single
 Series 40 Meter Run Packer at Single - Bradenhead-G.G. or G. O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
2-23	8:00 AM	2-24	8:00 AM	24	Flg.	4"	1.000	305.2	51.84	67
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
305.2	51.84	125.8	6.135	0.9470	0.9933	1.030	747.8

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (_c) psia		W.H. working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
2-24	AM	2-25	8:00 AM	24	843.2	844.2	357.2	639.2
		2-26		48	220.2	844.2		
	4:35 PM	2-27	PM	72	*NIL	844.2		

FRICTION CALCULATIONS (if necessary)

SUMMARY

P_w MeasuredP_c = 844.2 psiaQ = 747.8 MCF/Da.P_w = 639.2 psiaP_d = 675.4 psiaD = 650.8 MCF/Da.

DELIVERABILITY CALCULATIONS

$$P_w = 639.2 \quad P_c = 844.2 \quad P_w + P_c = 0.7572$$

$$1 - \frac{P_w}{P_c} = 0.2428 \quad 1 + \frac{P_w}{P_c} = 1.7572 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = 0.4266$$

$$.36 + M = 0.8439 \quad \log 9.926291 - 10 \quad x (n) = 0.819 \quad = 9.939632 - 10$$

Log Q = 2.873786Log D = 12.813418 - 10Antilog = 650.8 = D

Company El Paso Natural Gas Company
 Address P. O. Box 1384 - Jal., New Mexico
 Agent and Title J. B. Murray Gas Tester
 Witnessed
 Company El Paso Natural Gas Company

REMARKS

* The ISO. pressure on this well did not have any pressure on 72 hour shut-in.

EL PASO NATURAL GAS COMPANY
State of New Mexico
One-point Back Pressure Test for Gas Wells
(Deliverability)

EXHIBIT NO. _____

Pool Jalnet Formation Iates County Lea
Initial I Annual Special Date of test November 10-11, 1958
Company Jal Oil Company Lease Watkins Well No. 2
Unit H Sec. 35 Twp. 24 Rge. 36 Purchaser El Paso Natural Gas Company
Casing 1 1/2 Wt. 15.5 I.D. Set at 2982 Perf. To
Tubing 2 Wt. 4.78 I.D. Set at 2869 Perf. To
Gas Pay: From 2942 To 2954 L 2869 x G .660 Assumed GL 1894 Bar. Press 13.2
Producing Thru: Casing I Tubing I Type well Single
Series _____ Meter Run _____ Packer at _____ Single - Bradenhead-G.G. or G. O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
11-10-58	8:00 AM	11-11-58	8:00 AM	24	Flg.	4"	1.500	256.2	43.56	85
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
256.2	43.56	105.64	13.99	.9535	.9768	1.022	1,406

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
11-11-58	8:00 AM	11-12-58	8:00 AM	24	723.2	728.2	376.2	584.2
		11-13-58		48	712.2	745.2		
	PM	11-14-58	PM	72	633.2	747.2		

FRICTION CALCULATIONS(if necessary)

P_w Measured.

SUMMARY

P_c = 747.2 psiaQ = 1,406 MCF/Da.P_w = 584.2 psiaP_d = 597.8 psiaD = 1,320 MCF/Da.

DELIVERABILITY CALCULATIONS

$$P_w = 584.2 \quad P_c = 747.2 \quad P_w + P_c = .7818$$

$$1 - \frac{P_w}{P_c} = .2182 \quad 1 + \frac{P_w}{P_c} = 1.7818 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = H = .3888$$

$$.36 + M = .9259 \quad \log 9.966564 - 10 \quad x (n) = .819$$

= 9.972652 - 10 +

Company El Paso Natural Gas Company
Address P. O. Box 1384 - Jal, New Mexico
Agent and Title J. B. Murray
Witnessed _____
Company _____

Log Q = 3.147985Log D = 13.120637Antilog = 1320 = D

REMARKS

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Salinas Formation Tates County Lea

Initial X Annual _____ Special _____ Date of Test 8-22-58

Company 3rd Oil Company, Inc. Lease Watkins Well No. 2

Unit H Sec. 35 Twp. 24 Rge. 36 Purchaser _____

Casing 4 1/2 Wt. 14.5 I.D. _____ Set at 2982 Perf. _____ To _____

Tubing 3 Wt. _____ I.D. _____ Set at 2869 Perf. _____ To _____

Gas Pcy. From 2942 To 2954 L _____ x G _____ = GL _____ Bar. Press. 13.2

Production Thru: Casing _____ Tubing X Type Well Single
Single - Bradenhead - G. G. or G. O. Dual

Date of Completion: 8-22-58 Packer: None

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	Line Size	Orifice Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1	4 x 2.000		285	4.41	81	660		1018		72
2	4 x 2.000		312	11.56	88	507		838		24
3	4 x 2.000		323	3.6	76	440		688		24
4								583		24
5										

No.	Coefficient (at Flow)	$\sqrt{h_w D_w}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1	28.78	36.25		.9804	.9608	1.025	895
2	30.75	61.30		.9741	.9608	1.027	1507
3	35.83	65.99		.9850	.9608	1.029	1644
4							
5							

Gas-Liquid Hydrocarbon Ratio _____ Mcf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

P_c Measured (1-e^{-S}) _____

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 1031.2 P_w 1063.4

No.	P_t (psia)	P_t	$P_c^2 - P_t^2$	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$
1	473.2	453.2	610.2				724.5	338.9
2	529.2	270.6	792.8				491.7	571.7
3	489.2	205.4	858.0				355.5	707.9
4								
5								

* Well was flowing load oil and water

Wellhead Potential: 2,000 MCFPD; θ 50.5 ; n .819 Conducted by: H.H. Karch

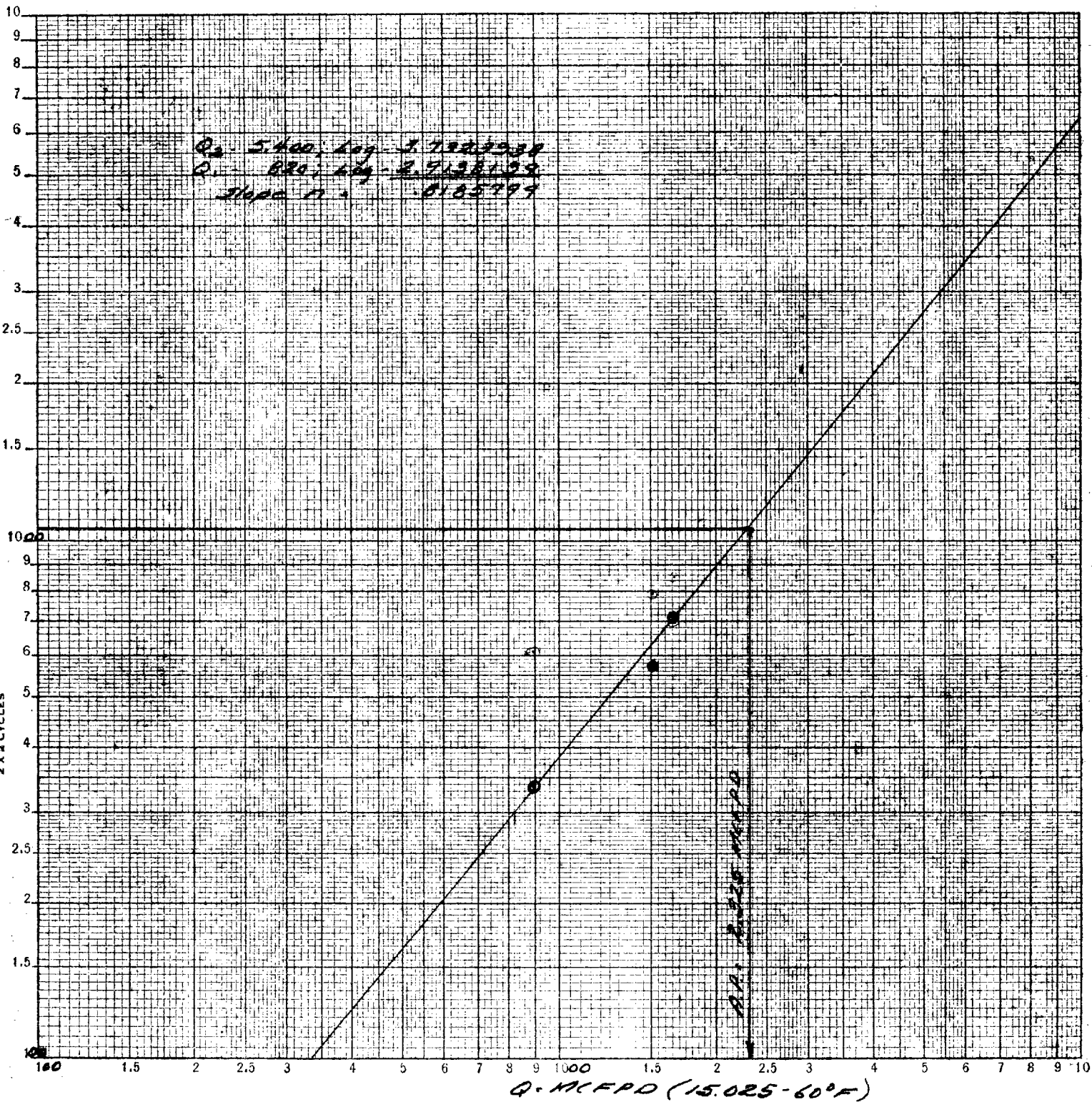
Potential: 2,323 MCFPD; θ 50.5 ; n .819 Witnessed by: _____

Calculated by: H.H. Karch

JAL OIL CO., INC
 WATKINS #2
 UNIT H, 35-24-36; LEA Co., N.M.
 8-22-58

$P_e^2 \Delta W^2$ (thanda)

K&E LOGARITHMIC 359-110
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 2 CYCLES



CORRECTED COPY

EXHIBIT NO. _____

Pool Jalmat Location _____ Yates _____ County Lea
 Initial _____ Annual X Special _____ Date of test 3-6/3-13/59
 Company Jal Oil Company Lease Owens Well No. 1
 Unit M Sec. 21 Twp. 25 Range 37 Purchased by El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 2582 Perf. _____ To _____
 Tubing 2 1/2 Wt. 6.5 I.D. _____ Set at 2772 Perf. 2769 To 2772
 Gas Pay: From 2769 To 2772 L 2769 G 662 = GL _____ Bar. Press 13.2
 Producing Thru: Casing _____ Tubing X Type well Single
 Series 40 Meter run _____ Packer at _____ Single - Bradenhead-G.G. or G. O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
3-9-59	9:15 AM	3-10-59	9:15 AM	24	Flg.	4	1.000	108.2	57.76	66
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f h _w	24-Hour Coeff- icient	Gravity factor F _g	Temp. factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
108.2	57.76	79.05	6.135	.9520	.9943		459.1

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3-10	9:15 AM	3-11-59		24		416.2		
		3-12-59	9:15 AM	48	*	429.2	126.2	290.2
	PM	3-13-59		72		434.2		
			PM					

FRICTION CALCULATIONS (if necessary)

P W Measured

SUMMARY

P_c = 434.2 psiaQ = 459.1 MCF/Da.P_w = 290.2 psiaP_d = 347.4 psiaD = 329.6 MCF/Da.= 9.85606-10 +

DELIVERABILITY CALCULATIONS

$$P_w = 290.2 \quad P_c = 434.2$$

$$1 - \frac{P_w}{P_c} = \frac{.3317}{1.668}$$

$$.36 + M = .6506 \quad \log 9.81331-10 \quad x (n) = .771$$

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
18
1941
CASE
W + P_c = .6683
= .5533

Company El Paso Natural Gas Company
 Address P.O. Box 1384, Jal., New Mexico
 Agent and Title Jack O. Whitting Gas Tester
 Witnessed _____
 Company _____

Log Q = 2.66191Log D = 12.51797-10Antilog = 329.6 = D

REMARKS

* Tubing did not have any pressure on shut-in

One-point Back Pressure Test for Gas Wells
(Deliverability)

Pool Jalmat Formation Yates County Lea
 Initial Annual Special X Date of test 5-16-58
 Company Jal Oil Company Lease Owens Well No. 1
 Unit M Sec. 21 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 I.D. 4.976 Set at 2582 Perf. Open Hole To _____
 Tubing 2 1/2 Wt. 6.5 I.D. 2.441 Set at 2772 Perf. 2769 To 2772
 Gas Pay: From 2605 To 2772 L 2769 x G. .670 = GL 1855 Bar. Press 13.2
 Producing Thru: Casing _____ Tubing X Type Well Single
 Series _____ Meter Run _____ Packer at _____ Single - Bradenhead-G.C. or G.O. Dual

FLOW DATA

Started		Taken		Duration	Type	Line	Orifice	Static	Differ-	Flow
Date	Time	Date	Time	Hours	Taps	Size	Size	Press.	ential	Temp.
5-12-58	8:25 AM	4-13-58	8:25 AM	24	Flg.	4	1.250	113.2	25.00	70
	PM		PM							

FLOW CALCULATIONS

Static Pressure	Differ-entia	Meter Extension	24-Hour Coeff-icient	Gravity Factor	Temp. Factor	Compress-ability	Rate of Flow
Pf	h _w	Pf h _w		F _g	F _t	F _{pv}	MCF/Da @ 15.025 psia
113.2	25.00	53.15	9.643	.9463	.9905	1.010	485

SHUT-IN DATA

Shut-in		Press. Taken		Duration	Wellhead Pressure		W.H. Working Pressure	
Date	Time	Date	Time	Hours	(P _c)	psia	(P _w) and (P _t)	psia
					Tubing	Casing	Tubing	Casing
5-13-58	8:25 AM	5-14-58		24	413.2*		227.2	
		5-15-58	8:25 AM	48	420.2*			
	PM	5-16-58		72	425.2*			
			PM					

FRICTION CALCULATION (if necessary)

$$P_w^2 = 51.6 + (8.12)(.120) = 52.6$$

SUMMARY

F_c = 425.2* psia
 Q = 485 MCF/Da.
 P_w = 229.4 psia
 P_d = 340.2 psia
 D = 288 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 229.4 P_c 425.2 P_w + P_c .5395

$$1 - \frac{P_w}{P_c} = .4605 \quad 1 + \frac{P_w}{P_c} = 1.5395 \quad \left(1 - \frac{P_w}{P_c} \right) \left(1 + \frac{P_w}{P_c} \right) = M. \quad .7089$$

$$.36 + M = .5078 \quad \log 9.7056927-10 \quad \times (n) \quad .771*** \quad = 9.7730891-10 \quad +$$

Company El Paso Natural Gas Company Log Q = 2.6857417
 Address P. O. Box 1384 - Jal, New Mexico Log D = 12.4588308-10
 Agent and Title L. D. Southern - Gas Tester
 Witnessed David H. Dyer
 Company El Paso Natural Gas Company Antilog = 288 = D

REMARKS

**Average Jalmat Slope

The shut-in used to calculate this test was taken from the nearest off set well (Sun-Lanehart #1) as requested by the NMOCC.

EL PASO NATURAL GAS COMPANY

State of New Mexico

One-point Back Pressure Test for Gas Wells
(Deliverability)

EXHIBIT NO. _____

Pool Jalmat Formation Yates County Lea
 Initial Annual X Special Date of test 4/1-8/60
 Company Jal Oil Company Lease Dyer Well No. 3
 Unit H Sec. 31 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Company
 Casing 6 5/8 Wt. 19.5 I.D. Set at 2792 Perf. To
 Tubing 2 1/2 Wt. 6.5 I.D. Set at 2960 Perf. To
 Gas Pay: From 2945 To 2977 L 2960 x G .680 = GL 2013 Bar. Press 13.2
 Producing Thru: Casing Tubing X Type Well Single
 Series 90 Meter Run Packer at Single - Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	Time	Date	Time							
<u>4-4-60</u>	<u>11:30 AM</u>	<u>4-5-60</u>	<u>11:30 AM</u>	<u>24</u>	<u>Flg.</u>	<u>4</u>	<u>.750</u>	<u>180</u>	<u>23.04</u>	<u>84</u>
	PM		PM							

FLOW CALCULATIONS

Static Pressure Pf	Differ- ential h _w	Meter Extension Pf h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da @ 15.025 psia Q
<u>193.2</u>	<u>23.04</u>	<u>66.72</u>	<u>3.435</u>	<u>.9393</u>	<u>.9777</u>	<u>1.019</u>	<u>214.5</u>

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
<u>4-5-60</u>	<u>11:30 AM</u>	<u>4-6-60</u>		<u>24</u>		<u>281.2</u>		
	PM	<u>4-7-60</u>	<u>11:30 AM</u>	<u>48</u>		<u>284.2</u>		<u>195.2</u>
		<u>4-8-60</u>		<u>72</u>		<u>287.2</u>		
			PM					

FRICTION CALCULATION (if necessary)

$$P_w^2 = (195.2)^2 + (5.866)(214.5)^2(0.129) = 38.30$$

SUMMARY

$P_c = 287.2$ psia
 $Q = 214.5$ MCF/Da.
 $P_w = 195.7$ psia
 $P_d = 229.8$ psia
 $D = 158.4$ MCF/Da.

DELIVERABILITY CALCULATIONS

$P_w = 195.7$ $P_c = 287.2$ $P_w + P_c = 482.9$
 $1 - \frac{P_w}{P_c} = .3186$ $1 + \frac{P_w}{P_c} = 1.681$ $1 - \frac{P_w}{P_c} + \frac{P_w}{P_c} = M = .5356$
 $.36 + M = .6722$ $\log 9.827434 - 10$ $\times (n) = .763$ $= 9.868332 - 10$

Company El Paso Natural Gas Company Log Q = 2.331427
 Address P. O. Box 1384 - Jal, New Mexico
 Agent and Title Bobby Boaz Gas Tester Log D = 12.199759-10
 Witnessed _____
 Company _____ Antilog = 158.4 = D

REMARKS

Standard Form 15-166R
 (Revised 5-58)
 (For use in connection with tests for gas wells
 (Deliverability))

EXHIBIT NO. _____

Pool Jalmat Formation Yates County Lea
 Initial Annual X Special Date of test 3-6/3-13-59
 Company Jal Oil Company Lease Dyer Well No. 3
 Unit H Sec. 31 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Company
 Casing 6 5/8 Wt. 19.5 I.D. Set at 2792 Perf. To _____
 Tubing 2 1/2 Wt. 6.5 I.D. Set at 2960 Perf. To _____
 Gas Pay: From 2945 To 2977 2960 x G .691 = GL 2045 Bar. Press 13.2
 Producing Thru: Casing Tubing X Type well Single
 Series 90 Meter run Packer at Single - Bradenhead-G.G. or G. O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
3-9-59	AM	3-10-59	AM	24	Flg.	4	1.250	130.2	9.00	75
	1:45 PM		1:45 PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f h _w	24-hour Coeff- icient	Gravity Factor F _G	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
130.2	9.00	34.23	9.643	.9318	.9859	1.012	307.0

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
	AM		AM		*	*	137.2	
	PM		PM					

FRICTION CALCULATIONS (if necessary)

$$P_w^2 = (137.2)^2 + (5.866 \times 307.0) = 19.2$$

SUMMARY

$$P_c = * 209.2 \text{ psia}$$

$$Q = 307.0 \text{ MCF/Da.}$$

$$P_w = 138.6 \text{ psia}$$

$$P_d = 167.4 \text{ psia}$$

$$D = 218.8 \text{ MCF/Da.}$$

$$= 9.85284-10 +$$

DELIVERABILITY CALCULATIONS

$$P_w = 138.6 \quad P_c = 209.2 \quad P_w + P_c = .6625$$

$$1 - \frac{P_w}{P_c} = .3375 \quad 1 - \frac{P_w}{P_c} = 1.663 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 - \frac{P_w}{P_c}\right) = .5613$$

$$.36 + M = .6414 \quad .36 + M = 9.80713-10 \quad x (n) = .763$$

Company El Paso Natural Gas Company
 Address P. O. Box 1384, Jal., New Mexico
 Agent and Title Gas Tester
 Witnessed _____
 Company El Paso Natural Gas Company

$$\text{Log } Q = 2.48714$$

$$\text{Log } D = 12.33998-10$$

$$\text{Antilog } = 218.8 = D$$

* P_w was taken from R. Olsen Winningham No. 3 well could not be shut-in due to water logging off well bore.

EL PASO NATURAL GAS COMPANY

State of New Mexico
One-point Back Pressure Test for Gas Wells
(Deliverability)

EXHIBIT NO. _____

Pool **Jalmat** Formation **Yates** County **Lea**
Initial _____ Annual _____ Special **X** Date of test **4-18-58**
Company **Jal Oil Company** Lease **Dyer** Well No. **3**
Unit **H** Sec. **31** Twp. **25** Rge. **37** Purchaser **El Paso Natural Gas Company**
Casing **6 5/8** Wt. **19.5** I.D. _____ Set at **2792** Perf. _____ To _____
Tubing **2 1/2** Wt. **6.5** I.D. **2.441** Set at **2960** Perf. **2800** To **2974**
Gas Pay: From **2945** To **2977** L **2792** x G **.680** = GL **1899** Bar. Press **13.2**
Producing Thru: Casing _____ Tubing **X** Type Well **Single**
Series _____ Meter Run _____ Packer at _____ Single - Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	Time	Date	Time							
4-14-58	8:45 AM	4-15-58	8:45 AM	24	Flg.	4	1.250	108.2	19.36	70
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da @ 15.025 psia Q
108.2	19.36	45.72	9.643	.9393	.9905		410

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
4-15-58	AM	4-16-58		24	229.2		123.2	
		4-17-58	11:20 AM	48	173.2			
		4-18-58		72	108.2			
	1:20 PM		PM					

FLOW DATA

FRICTION CALCULATION (if necessary)

$$P_w^2 = 15.2 + (5.81)(.122) = 15.9$$

DELIVERABILITY CALCULATIONS

$$P_w = 126.1 \quad P_c = 229.2 \quad P_w + P_c = .5502$$

$$1 - \frac{P_w}{P_c} = .4498 \quad 1 + \frac{P_w}{P_c} = 1.5502 \quad \frac{1 - \frac{P_w}{P_c}}{1 + \frac{P_w}{P_c}} = .6973$$

$$.36 + M = .5163 \quad \log 9.7129021 - 10 \quad \times (n) = .763$$

$$= 9.7809143 - 10$$

SUMMARY

P_c = **229.2** psia
Q = **410** MCF/Da.
P_w = **126.1** psia
P_d = **183.4** psia
D = **248** MCF/Da.

Company **El Paso Natural Gas Company** Log Q = **2.6127839**
Address **P. O. Box 1384 - Jal, New Mexico** Log D = **12.3937282-10**
Agent and Title **L. D. Southern - Gas Tester**
Witnessed **David H. Dyer**
Company **El Paso Natural Gas Company** Antilog = **248** = D

REMARKS

MULTI-POINT BACK PRESSURE TEST FOR GASWELLS

Pool Jalisco Formation Yates County LeaInitial _____ Annual _____ Special X Date of Test 2-4 to 2-8-57Company R. Olson, Personal Lease Dyer Well No. 3Unit R Sec. 31 Twp. 25 S Rge. 37 E Purchaser KFMSCasing 6-5/8 Wt. 19.51 I.D. _____ Set at 2792 Perf. _____ To _____Tubing 2 1/2 Wt. _____ I.D. _____ Set at 2960 Perf. 2800 To 2974Gas Pay: From 2945 To 2977 L 2792 x G .670 = GL 1871 Bar. Press. 13.2Producing Thru: Casing _____ Tubing X Type Well Single

Single - Bradenhead - G. G. or G. O. Dual

Date of Completion: 7-11-54 Packer: None

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	Line Size	Orifice Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>355</u>				<u>72</u>
1.	<u>4</u>	<u>1.500</u>	<u>164</u>	<u>10.2</u>	<u>60</u>	<u>218</u>				<u>24</u>
2.	<u>4</u>	<u>1.500</u>	<u>174</u>	<u>12.3</u>	<u>62</u>	<u>188</u>				<u>24</u>
3.	<u>4</u>	<u>1.500</u>	<u>153</u>	<u>15.2</u>	<u>64</u>	<u>171</u>				<u>24</u>
4.										
5.										

* This well produces with a Garrett Oil Tool Plunger Lift and it was impossible to conduct a 4 point test.

No.	Coefficient (24-Hour)	$\sqrt{h_{wpw}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>13.99</u>	<u>42.57</u>		<u>1.000</u>	<u>.9463</u>	<u>1.018</u>	<u>374</u>
2.	<u>13.99</u>	<u>47.86</u>		<u>.9981</u>	<u>.9463</u>	<u>1.019</u>	<u>644</u>
3.	<u>13.99</u>	<u>50.25</u>		<u>.9962</u>	<u>.9463</u>	<u>1.016</u>	<u>673</u>
4.							
5.							

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c 3.344 (1-e^{-s}) .120

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 368.2 P_w 135.6

No.	P_t (psia)	P_t^2	$P_c^2 - P_t^2$	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P_w^2	$P_c^2 - P_w^2$
1.	<u>731.2</u>	<u>53.5</u>	<u>82.1</u>	<u>3.37</u>	<u>11.36</u>	<u>1.36</u>	<u>54.9</u>	<u>80.7</u>
2.	<u>731.2</u>	<u>40.5</u>	<u>95.1</u>	<u>3.78</u>	<u>14.29</u>	<u>1.71</u>	<u>42.2</u>	<u>93.4</u>
3.	<u>184.2</u>	<u>33.9</u>	<u>101.7</u>	<u>3.95</u>	<u>15.60</u>	<u>1.87</u>	<u>35.8</u>	<u>99.8</u>
4.								
5.								

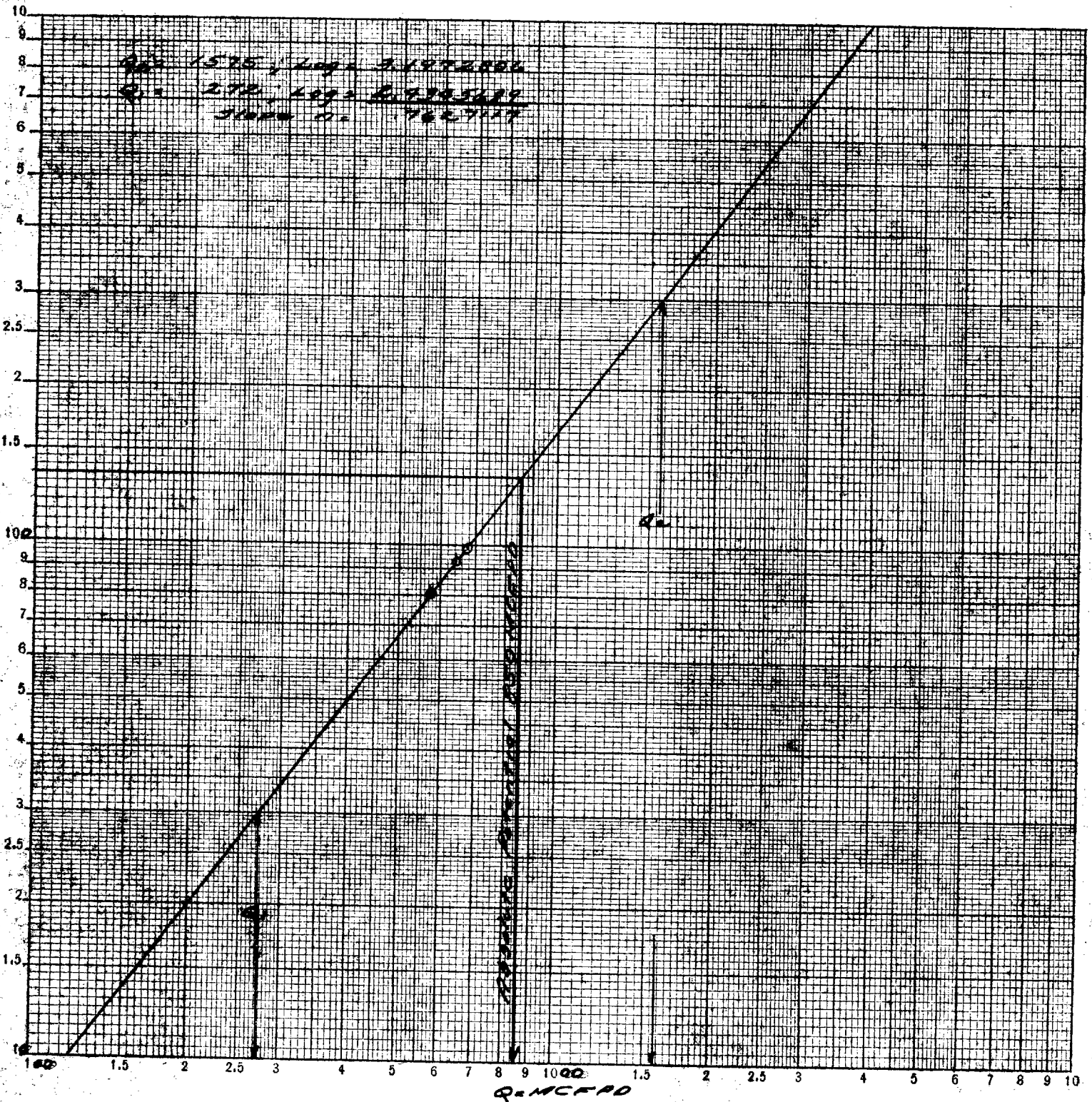
Wellhead Potential: 830 MCFPD; θ_t 52.5; n_t .767 Conducted by: H. H. KerbyPotential: 850 MCFPD; θ 53; n .763 Witnessed by: _____Calculated by: H. H. Kerby

EXHIBIT NO. _____

R. OLSEN (PERSONAL)
 OVER # 3
 UNIT "H", SEC. 31, T. 25-S, R. 37-E, L&A Co., N.M.
 2-8-1957

Per Pw (thousands)

K&E
 LOGARITHMIC
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 3 CYCLES



JAL OIL COMPANY
Future Recoverable Hydrocarbons

October 1959

Case 1941
EXHIBIT NO. 2

Wells	Gross Acres	No. Wells		Gross				Net Interest	Net Future
		Oil	Gas	Ultimate	12 Months Production	Cumulated 10-1-59	Future		
Lea County, New Mexico									
Carlson Nos. 2 & 3	200								
HPGas - MCF		2		4,027,550	301,091	448,772	3,578,778	.654841	2,343,530
Christmas Nos. 1 - 5	320								
Oil - Bbls		3		160,000	12,266	78,936	81,064	.363327	29,450
LPGas - MCF				422,000	50,740	69,524	352,476		128,060
HPGas - MCF		2		8,866,420	220,101	2,422,619	6,443,801		2,341,210
Coll, A. P. (Dev Unit)	40								
Oil - Bbls				141,540	3,514	40,766	100,774	.041016	4,130
HPGas - MCF		1		24,886,100	536,434	3,836,096	21,050,004		863,390
Covington-Federal									
Oil - Bbls		1		16,000	766	1,451	14,549	.875	12,730
LPGas - MCF				503,840	23,753	31,958	471,882		412,900
Dyer	160								
Oil - Bbls		2		107,500	1,083	87,229	20,271	.814323	16,510
LPGas - MCF				475,000	13,938	151,974	323,026		263,050
HPGas - MCF		1		3,436,270	102,493	787,981	2,648,289		2,156,560
Farnsworth Nos. 1, 2 & 3	240								
Oil - Bbls		3		584,500	30,875	181,476	403,024	.678125	273,300
LPGas - MCF				1,957,330	171,930	655,016	1,302,314		883,130
Gregory, L. L.	80								
Oil - Bbls		1		60,620	1,862	24,893	35,727	.875	31,260
LPGas - MCF				516,500	18,640	158,448	358,052		313,300
Gregory, R. O.	120								
Oil - Bbls		1		56,000	2,873	34,680	21,320	.7375	15,720
LPGas - MCF				1,154,000	100,872	419,358	734,642		541,800
Gutman Nos. 1 & 2	80								
Oil - Bbls		2		87,000	2,526	38,351	48,649	.375	18,240
LPGas - MCF				870,000	33,531	390,674	479,326		179,750
Gutman "D" (Dev Unit)	40								
Oil - Bbls				172,020	3,094	43,977	128,043	.1875	24,010
HPGas - MCF		1		25,010,370	461,396	3,986,869	21,023,501		3,941,910
Gutman - 18	80								
Oil - Bbls		3		195,320	6,283	111,407	83,913	.773438	64,900
LPGas - MCF				285,000	14,799	14,438	270,562		209,260
HPGas - MCF				5,375,520	250,834	2,604,180	2,771,340		2,143,460
Harner No. 1	80								
Oil - Bbls		1		32,440	900	15,460	16,980	.807617	13,710
Hodge	160								
Oil - Bbls		4		179,560	6,309	79,863	99,697	.820313	81,780
LPGas - MCF				2,649,000	52,579	2,200,017	448,983		368,310
HPGas - MCF		1		8,106,680	563,118	417,975	7,688,705		6,307,140
Jack	160								
Oil - Bbls		4		119,320	4,711	68,191	51,129	.165	8,440
LPGas - MCF				727,990	37,176	429,927	298,063		49,180
HPGas - MCF		1		5,747,680	151,803	1,923,731	3,823,949		630,950
Jenkins	160								
Oil - Bbls		2		64,300	2,575	31,949	32,351	.783447	25,350
LPGas - MCF				1,957,500	70,081	1,085,913	871,587		682,840
HPGas - MCF		2		4,716,380	182,216	1,769,459	2,946,921		2,308,760
Lanehart-Sun									
Oil - Bbls				67,840	3,173	3,173	64,667	.020508	1,330
HPGas - MCF		1		13,568,250	477,551	1,545,800	12,022,450		246,560
Legal	160								
Oil - Bbls		2		84,050	3,545	45,741	38,309	.809050	30,990
LPGas - MCF				361,200	7,212	265,423	95,777		77,490
HPGas - MCF		1		3,931,080	123,029	1,687,161	2,243,919		1,815,440
Owen, Eva	40								
HPGas - MCF		1		2,848,030	1,399	950,157	1,897,873	.572591	1,086,700
Owen, Eva "D" (Dev Unit)	40								
Oil - Bbls		1		160,000	420	36,489	123,511	.337891	41,730
LPGas - MCF				120,000	484	31,510	88,490		29,900
Sarkeys Nos. 1-C, 1-T & 2-T	160								
Oil - Bbls		2		157,500	9,787	35,844	121,656	.375	45,620
LPGas - MCF				2,343,040	161,840	375,391	1,967,649		737,870
Watkins No. 1	80								
Oil - Bbls		1		209,870	12,889	32,864	177,006	.617188	109,250
HPGas - MCF				2,933,880	8,419	767,449	2,166,431		1,337,100

IRA BRINKERHOFF

JAL OIL COMPANY

Future Recoverable Hydrocarbons

October 1959

Wells	Gross Acres	No. Wells		Ultimate	Gross		Future	Net Interest	Net Future
		Oil	Gas		12 Months Production	Cumulated 10-1-59			
Lea County, New Mexico cont'd									
Wells	640								
Oil - Bbls		2		286,500	16,415	61,277	225,223	.536250	120,780
LPGas - MCF				2,249,000	112,766	1,111,103	1,137,897		610,200
HPGas - MCF			6	8,216,850	772,667	1,141,565	7,075,285		3,794,120
Woolworth	160								
Oil - Bbls				79,800	1,610	5,287	74,513	.526042	39,200
HPGas - MCF			1	6,900,710	86,858	1,422,805	5,477,905		2,881,610
Woolworth - 27	240								
Oil - Bbls		1		7,780	246	3,272	4,508	.806409	3,640
LPGas - MCF				227,600	11,209	84,016	143,584		115,790
TOTAL New Mexico	3,440	36	21						
Oil - Bbls				3,029,460	127,722	1,062,576	1,966,884		1,012,070
LPGas - MCF				16,819,000	881,550	7,474,690	9,344,310		5,602,830
HPGas - MCF				128,571,770	4,239,409	25,712,619	102,859,151		34,198,440
Cochran County, Texas									
Masten Nos. 1 & 2	10,647								
Oil - Bbls		2		120,300	4,444	62,674	57,626	.75	43,220
Masten No. 3									
HPGas - MCF			1	1,949,350	14,136	30,481	1,918,869	.722656	1,386,680
TOTAL Texas	10,647	2	1						
Oil - Bbls				120,300	4,444	62,674	57,626		43,220
HPGas - MCF				1,949,350	14,136	30,481	1,918,869		1,386,680
TOTAL Original Wells New Mexico & Texas									
Oil - Bbls				3,149,760	132,166	1,215,250	2,024,510		1,055,290
LPGas - MCF				16,819,000	881,550	7,474,690	9,344,310		5,602,830
HPGas - MCF				130,521,120	4,253,545	25,743,100	104,778,020		35,585,120
New Wells - Since 11-1-57									
Lea County, New Mexico									
Christmas Nos. 6 - 9									
Oil - Bbls		4		412,320	18,518	18,518	393,802	.363327	143,080
LPGas - MCF				2,704,800	121,647	121,647	2,583,153		938,530
Farnsworth Nos. 4 & 5									
Oil - Bbls		2		340,000	13,969	22,820	317,180	.339063	107,540
LPGas - MCF				1,214,580	34,184	66,759	1,147,821		389,180
Harner No. 2									
Oil - Bbls				100,000	1,439	1,439	98,561	.807617	79,600
HPGas - MCF			1	2,000,000			2,000,000		1,615,230
Sarkeys No. 2-C (bln)									
Oil - Bbls		1		97,500	3,612	6,559	90,941	.375000	34,100
LPGas - MCF				780,900	53,949	85,571	695,329		260,750
Watkins No. 2									
HPGas - MCF			1	2,900,000	28,579	28,579	2,871,421	.617188	1,772,210
Cochran County, Texas									
Masten Nos. 5 - 12									
Oil - Bbls		7		969,000	26,726	26,726	942,274	.75	706,710
LPGas - MCF				750,000	1,531	1,531	748,469		561,350
TOTAL New Wells		14	2						
Oil - Bbls				1,918,820	64,264	76,062	1,842,758		1,071,030
LPGas - MCF				5,450,280	211,311	275,508	5,174,772		2,149,810
HPGas - MCF				4,900,000	28,579	28,579	4,871,421		3,387,440
GRAND TOTAL									
Oil - Bbls				5,068,580	196,430	1,201,312	3,867,268		2,126,320
LPGas - MCF				22,269,280	1,092,861	7,750,198	14,519,082		7,752,640
HPGas - MCF				135,421,120	4,282,124	25,771,679	109,649,441		38,972,560

IRA BRINKERHOFF

TOWNSHIP 25 SOUTH, RANGE 37 EAST, NMPM
Legal Well No. 2, NE/4 SE/4 of Section 31
Dyer Well No. 3, SE/4 NE/4 of Section 31
Jenkins Well No. 1, SW/4 SW/4 of Section 29
Repollo Well No. 1, SW/4 NW/4 of Section 28

(4) That due to extreme liquid problems, the applicant seeks an order permitting the overproduction to be made up at a lesser rate than complete shut-in in order to preclude permanent injury to the subject wells.

(5) That the applicant should be permitted to produce each of the subject wells at a monthly rate equal to seventy-five percent of the well's current allowable or at a monthly rate equal to seventy-five percent of the well's average monthly allowable for the preceding six month production period, whichever is greater.

(6) That the curtailed rate of production to compensate for overproduction as hereinabove prescribed should be adequate to prevent injury to the well or producing formation.

(7) That an administrative procedure should be established whereby the Secretary-Director of the Commission may authorize the operator to compensate for overproduction at a lesser rate than that provided in this order upon a satisfactory showing that the rate prescribed would result in permanent damage to the well and/or producing formation.

(8) That the Secretary-Director should be authorized to order that tests be made to determine whether the subwells may be produced at a lesser rate than that prescribed by this order without permanent injury to the well and/or producing formation and, if the test results so indicate, the Secretary-Director should be authorized to order the production rate curtailed below that herein prescribed.

(9) That any tests made to determine the minimum safe flow rate should be witnessed by a representative of the Commission.

(10) That the following-described gas wells in the Jalmat Gas Pool, Lea County, New Mexico are substantially in balance.

Owens Well No. 1, SW/4 SW/4 of Section 21
Township 25 South, Range 37 East, NMPM

-4-

Case No. 1779
Order No. R-1519

PROVIDED FURTHER, That any tests made to determine the minimum safe flow rate shall be witnessed by a representative of the Commission.

(2) That the minimum allowables sought by the applicant for the following-described wells be and the same are hereby denied:

Owens Well No. 1, SW/4 SW/4 of Section 21
Township 25 South, Range 37 East, NMPM

Watkins Well No. 2, SE/4 NE/4 of Section 35,
Township 24 South, Range 36 East, NMPM

(3) That the effective date of this order is November 1, 1959.

DONE at Santa Fe, New Mexico on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

lcr/

EXHIBIT NO. _____

Pool Jalmat Yates Lea
 Initial X of test 3-6/3-13/59
 Company Jal Oil Company Owens 1
 Unit M Sec. 21 25 37 El Paso Natural Gas Company
 Casing 5 1/2 wt. 15.5 2582 To
 Tubing 2 3/8 wt. 6.5 2772 To 2769 To 2772
 Gas Pay: From 2769 2772 2769 .662 = GL Bar. Press 13.2
 Producing Thru: Casing X Single
 Series 40 Meter at Bradenhead-G.G. or G. O. Dual

Started		Duration		Orifice	Static	Differ-	Flow
Date	time	Date	time	Size	Press.	ential	Temp.
3-9-59	9:15 AM	3-10-59	9:15	Flg. 4	1.000	108.2	57.76
	PM						66

Static Pressure Pf	Differ-ential h _w	Rate of Flow MCF/Da. Q
108.2	57.76	459.1

Shut-in		Wellhead Pressure (psia)		W.H. Working Pressure (Pw) and (It) psia	
Date	Time	P tubing	P casing	Tubing	Casing
3-10	9:15 AM	3-11-59	24	416.2	
	PM	3-12-59	48	429.2	126.2
		3-13-59	72	434.2	290.2

P W Measured				SUMMARY	
P _w	290.2	434.2	.6683	P _c	434.2 psia
P _w				Q	459.1 MCF/Da.
P _c	.3317	1.668	.5533	P _w	290.2 psia
36 + M	.6506	9.81331-10	.771	P _d	347.4 psia
				E	329.6 MCF/Da.
					= 9.85606-10 +

Company El Paso Natural Gas Company Log Q = 2.66191
 Address P.O. Box 1384; Jal, New Mexico Log D = 12.51797-10
 Agent and Title Jack Whitting, Gas Tester Antilog = 329.6 = D
 Witnessed _____
 Company _____

* Tubing did not have any pressure on shut-in

EL PASO NATURAL GAS COMPANY
State of New Mexico
One-point Back Pressure Test for Gas Wells
(Deliverability)

EXHIBIT NO. _____

Pool **Jalnat** Formation **Yates** County **Lea**
 Initial _____ Annual _____ Special **X** Date of test **5-16-58**
 Company **Jal Oil Company** Lease **Owens** Well No. **1**
 Unit **M** Sec. **21** Twp. **25** Rge. **37** Purchaser **El Paso Natural Gas Company**
 Casing **5 1/2** Wt. **15.5** I.D. **4.976** Set at **2582** Perf. **Open Hole** To _____
 Tubing **2 1/2** Wt. **6.5** I.D. **2.441** Set at **2772** Perf. **2769** To **2772**
 Gas Pay: From **2605** To **2772** L **2769** x G. **.670** = GL **1855** Bar. Press **13.2**
 Producing Thru: Casing _____ Tubing **X** Type Well **Single**
 Series _____ Meter Run _____ Packer at _____ Single - Bradenhead-G.O. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	Time	Date	Time							
5-12-58	8:25 AM	4-13-58	8:25 AM	24	Flg.	4	1.250	113.2	25.00	70
	PM		PM							

FLOW CALCULATIONS

Static Pressure Pf	Differ- ential hw	Meter Extension Pf hw	24-Hour Coeff- icient	Gravity Factor Fg	Temp. Factor Ft	Compress- ability Fpv	Rate of Flow MCF/Da @ 15.025 psia Q
113.2	25.00	53.15	9.643	.9463	.9905	1.010	485

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (Pc) psia		W.H. Working Pressure (Pw) and (Pt) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
5-13-58	8-25 AM	5-14-58		24	413.2*		227.2	
		5-15-58	8:25 AM	48	420.2*			
		5-16-58		72	425.2*			
	PM		PM					

FLOW DATA

FRICTION CALCULATION (if necessary)

$$P_w^2 = 51.6 + (8.12)(.120) = 52.6$$

SUMMARY

Pc = 425.2* psia
 Q = 485 MCF/Da.
 Pw = 229.4 psia
 Pc = 340.2 psia
 = 288 MCF/Da.
 = 9.7730891-10
 = 0.6857127
 = 12.1578704-10

DELIVERABILITY CALCULATION

Pw = 229.4 Pc = 425.2 Fg = .9463 Fpv = .5395
 Fg = .4605 Fpv = 1.5395 Fg = .7089
 Fg = .5078 Fpv = 2.7056 Fg = .771** Fpv = 9.7730891-10

El Paso Natural Gas Company
 P. O. Box 1214 - Jal, New Mexico
 1214 - Jal, New Mexico
 1214 - Jal, New Mexico
 1214 - Jal, New Mexico

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*Average Jalnat Slope

*The shut-in used to

arrest off gas well (S. - Lanehart/1)

One-point Back Pressure Test for Gas Wells (Deliverability)

Pool	Jalmat	Formation	Yates	County	Lea
Initial		Annual	X	Special	Date of test
Company	Jal Oil Company	Lease	Watkins		Well No.
Unit	H	Sec.	35	Twp.	24
Casing	5 1/2	Wt.	15.5	I.D.	
Tubing	2	Wt.	4.7	I.D.	
Gas Pay: From	2942	To	2954	L 2869	X G .666 = GL 1911
Producing Thru: Casing		Tubing	X	Type Well	Single
Series	40	Meter Run	Packer at		Single - Bradenhead-G.C. or G.C. Dual

Started		Taken		Duration	Type	Line	Office	Static	Differ-	Flow
Date	Time	Date	Time	Hours	Type	No.	Size	Press.	ential	Temp.
4-4-60	8:45 AM	4-5-60	8:45 AM	24	Flg.	4	1.000	119	19.36	80
	PM		PM							

FLOW CALCULATION

Static Pressure P _r	Differential h _w	Meter Extension P _r h _w	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ibility F _{pv}	Rate of Flow MCF/Da @ 15.025 psia Q
132.2	19.36	50.59	6.135	.9491	.9813	1.011	292.3

SHUT-IN DATA

Shut-in		Pres. Taken		Duration	Wellhead Pressure	W.H. Working Pressure	
Date	Time	Date	Time	Hours	(P ₁) psia	(P _w) and (P ₂) psia	
					Tubing	Casing	Tubing Casing
	AM		AM		Operator Did not		Bad Valve 400.2
	PM		PM		not want well shut		
					in		

FRIGHTS IN CALCULATION OF FARE

SUMMARY

F = psia
 G = MCF/Da.
 F_w = psia
 F_g = psia
 D = MCF/Da.

DELIVERABILITY CAMPAIGN 00

[illegible]

Company El Paso Natural Gas Company
Address P. O. Box 1384 - Jal, New Mexico
Agent and Title Barney Booy
Witnessed _____
Company _____

Gas Tester

*Operator Did not want well shut-in.

Pool Jalnat Yates County Lea
 Initial X 2-20/2-27-59
 Company Jal Oil Company Watkins well no. 2
 Unit H Sec. 35 Twp. 24 R. 36 El Paso Natural Gas Company
 Casing 5 1/2 in. 15.5 lb. 2982 To
 Tubing 2 in. 4.7 lb. 2869 To
 Gas Pay: From 2942 To 2954 2869 = GL 0.669 Bar. Press 13.2
 Producing Thru: Casing X Single
 Series 40 Meter and Wellhead Bradenhead-G.G. or G. O. Dual

Started	Time	Date	Time	Duration	Type	Size	Orifice	Static	Differ-	Flow
Date	time	Date	time	hours	Test	Size	Size	Press.	ential	Temp.
2-23	8:00 AM	2-24	8:00	24	Flg.	4"	1.000	305.2	51.84	67
	PM									

Static	Differ-	Wellhead	Wellhead	Pressure	Flow	Compress-	Rate of Flow
Pressure	ential	Pressure	Pressure	Factor	Factor	ability	MCF/Da. @ 15.025 psia
P _f	P _w	P _{wh}	P _{wh}	F _{wh}	F _{wh}	F _{wh}	Q
305.2	51.84	125.8	6.135	0.9470	0.9933	1.030	747.8

Shut-In	Time	Date	Time	Duration	Wellhead Pressure	Wellhead Pressure	Wellhead Pressure	Wellhead Pressure
Date	Time	Date	Time	hours	(P _{wh}) psia	(P _{wh}) psia	(P _{wh}) psia	(P _{wh}) psia
					P _{wh}	Casing	Tubing	Casing
2-24	AM	2-25	8:00	24	843.2	844.2		
		2-26		48	220.2	844.2	357.2	639.2
	4:35 PM	2-27		72	*NIL	844.2		

FRICTION LOSS (F_L)P_w Measured

SUMMARY

P_c = 844.2 psiaQ = 747.8 MCF/Da.P_w = 639.2 psiaP_d = 675.4 psiaD = 650.8 MCF/Da.= 9.939632 - 10 +Log Q = 2.873786Log D = 12.813418 - 10Art 30 = 650.8 = D

P_w 639.2 P_c 844.2 P_d 0.7572
 1- P_w P_c P_d
 P_c 0.2428 P_c 1.7572 P_d 0.4266
 .36 + H 0.8439 9.926291 - 10 0.819 = 9.939632 - 10 +

Company El Paso Natural Gas Company
 Address P. O. Box 1384 - Jal, New Mexico
 Agent and Title J. B. Murray Gas Tester
 Witnessed J. B. Murray
 Company El Paso Natural Gas Company

* The TBG. pressure on this well did not have any pressure on 72 hour shut-in.

Pool Jalnat County Lea
 Initial X Date of test November 10-14, 1958
 Company Jal Oil Company Lease Watkins Well No. 2
 Unit H Sec. 35 Twp. 24 R. 36 El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 Lbs. Per Ft. 2982 Surf. To
 Tubing 2 Wt. 4.7 Lbs. Per Ft. 2869 Surf. To
 Gas Pay: From 2942 To 2954 Lbs. Per Cu. Ft. .660 Assumed GL 1894 Bar. Press 13.2
 Producing Thru: Casing I Tubing I Type Single
 Series _____ Meter run _____ Packer at _____ Single - Bradenhead-G.G. or G. O. Dual

Started		Taken		Duration Hours	Type Test	Pipe Size	Orifice Size	Static press.	Differ- ential	Flow Temp.
Date	time	Date	time							
<u>11-10-58</u>	<u>8:00 AM</u>	<u>11-11-58</u>	<u>8:00 AM</u>	<u>24</u>	<u>Flg.</u>	<u>4"</u>	<u>1.500</u>	<u>256.2</u>	<u>43.56</u>	<u>85</u>
	<u>PM</u>		<u>PM</u>							

Static Pressure P _f	Differ- ential h _w	Meter Extension P _f L _w	Pressure Coefficient	Flow Coefficient	Compress- ibility F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
<u>256.2</u>	<u>43.56</u>	<u>105.64</u>	<u>13.99</u>	<u>.9535</u>	<u>.9768</u>	<u>1,406</u>

Shut-in					FLOW DATA			
Date	Time	Pressure P _{wh}	Pressure P _w	Pressure P _t	Wellhead Pressure (P _{wh}) psia		W.H. working Pressure (P _w) and (P _t) psia	
				Hours	Actual	Casing	Tubing	Casing
11-11-58	8:00 AM	11-12-58		24	723.2	728.2		
		11-13-58	8:00 AM	48	712.2	745.2	376.2	584.2
		11-14-58		72	633.2	747.2		
	PM			PM				

PERFORATION CALCULATIONS (if necessary)

P_w Measured.

$$P_w = 584.2 \quad P_c = 747.2 \quad P_{wh} = 781.8$$

$$1 - \frac{P_w}{P_c} = \frac{.2182}{1.7818} \quad \left(\frac{1 - \frac{P_w}{P_c}}{1 - \frac{P_{wh}}{P_c}} \right) = \frac{.3888}{.819}$$

$$.36 + M = .9259 \quad 9.966564 - 10 \quad .819 = 9.972652 - 10 +$$

SUMMARY

P_c = 747.2 psia

Q = 1,406 MCF/Da.

P_w = 584.2 psia

P_d = 597.8 psia

D = 1,320 MCF/Da.

= 9.972652-10 +

Company El Paso Natural Gas Company
 Address P. O. Box 1384 - Jal, New Mexico
 Agent and Title J. B. Murray
 Witnessed _____
 Company _____

Log Q = 3.147985

Log D = 13.120637

Antilog = 1320 = D

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnet Formation Yates County Lea

Initial X Annual _____ Special _____ Date of Test 8-22-58

Company Jal Oil Company, Inc. Lease Watkins Well No. 2

Unit H Sec. 35 Twp. 24 Rge. 36 Purchaser _____

Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 2982 Perf. _____ To _____

Tubing 2 Wt. _____ I.D. _____ Set at 2869 Perf. _____ To _____

Gas Pay: From 2942 To 2954 L _____ x G _____ = GL _____ Bar. Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G. O. Dual

Date of Completion: 8-22-58 Packer: None

Flow Data						Tubing Data		Casing Data		Duration
No.	XXXXXX Line Size	XXXXXX x Orifice Size	Press. psig	Diff. hw	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	of Flow Hr.
SI								1018		72
1.	4 x 2.000		285	4.41	81	660		838		24
2.	4 x 2.000		312	11.56	88	507		688		24
3.	4 x 2.000		323	3.6	76	440		583		24
4.										
5.										

No.	Coefficient (24-Hour) Fig.	$\sqrt{h_{wpw}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>25.58</u>	<u>36.25</u>		<u>.9804</u>	<u>.9608</u>	<u>1.025</u>	<u>895</u>
2.	<u>25.58</u>	<u>61.30</u>		<u>.9741</u>	<u>.9608</u>	<u>1.027</u>	<u>1507</u>
3.	<u>25.58</u>	<u>65.99</u>		<u>.9850</u>	<u>.9608</u>	<u>1.029</u>	<u>1644</u>
4.							
5.							

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c Measured (1-e^{-s}) _____

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 1031.2 P_w 1063.4

No.	XXX P_t (psia)	P_t^2	$P_c^2 - P_t^2$	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P_w^2	$P_c^2 - P_w^2$
1.	<u>673.2</u>	<u>453.2</u>	<u>610.2</u>				<u>724.5</u>	<u>338.9</u>
2.	<u>520.2</u>	<u>270.6</u>	<u>792.8</u>				<u>491.7</u>	<u>571.7</u>
3.	<u>453.2</u>	<u>205.4</u>	<u>858.0</u>				<u>355.5</u>	<u>707.9</u>
4.								
5.								

* Well was flowing load oil and water

Wellhead Potential: 2.000 MCFPD; θ_t 50.5 ; nt .819

Potential: 2.325 MCFPD; θ 50.5 ; n .819

Conducted by: H.H. Kerby

Witnessed by: _____

Calculated by: H.H. Kerby

JAL OIL CO., INC
 WATKINS #2
 UNIT H, 35-24-36; LEA CO., N.M.
 8-22-58

$P_2 - P_w$ (thords)

LOGARITHMIC 359-110
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 2 CYCLES

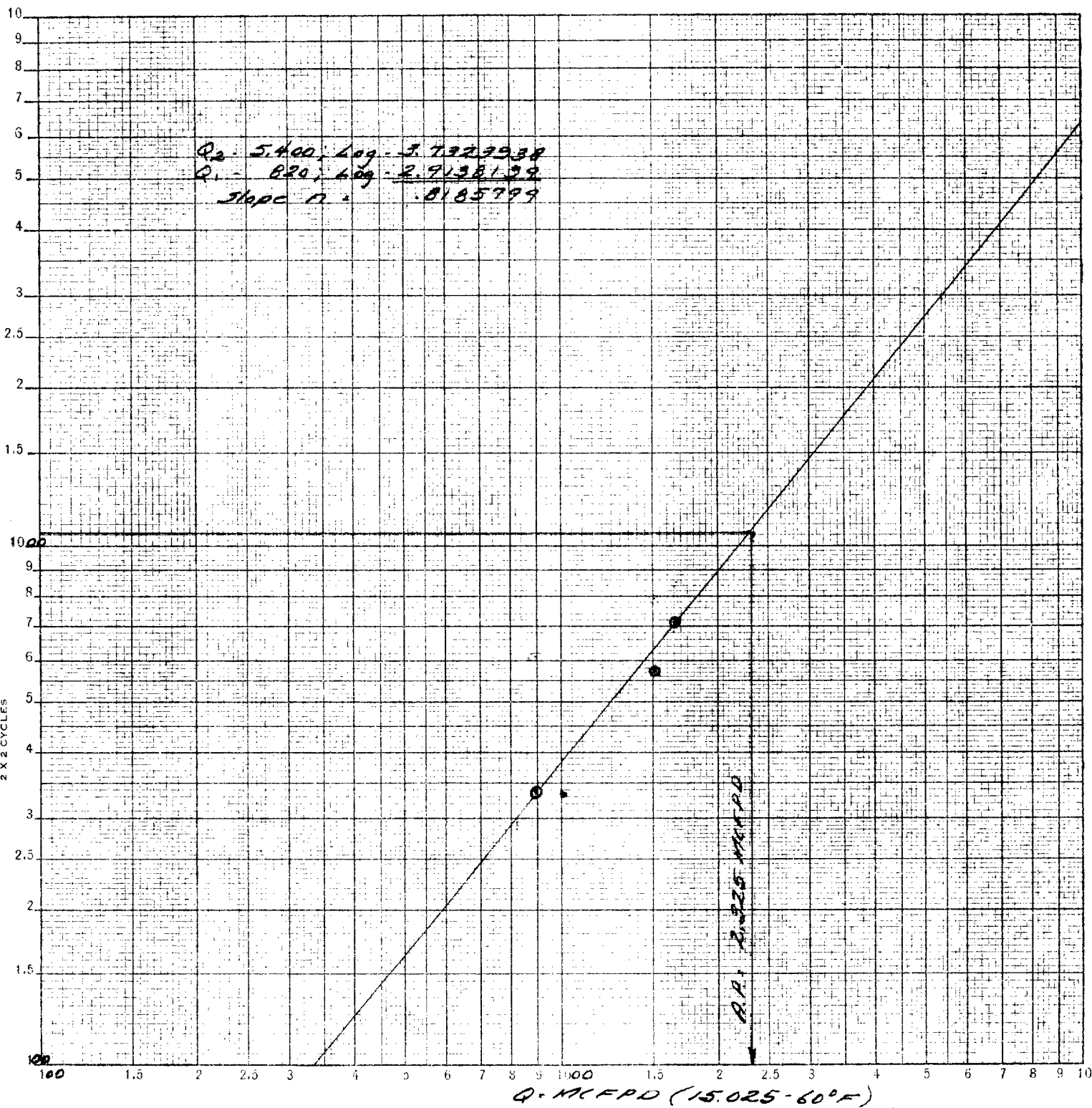


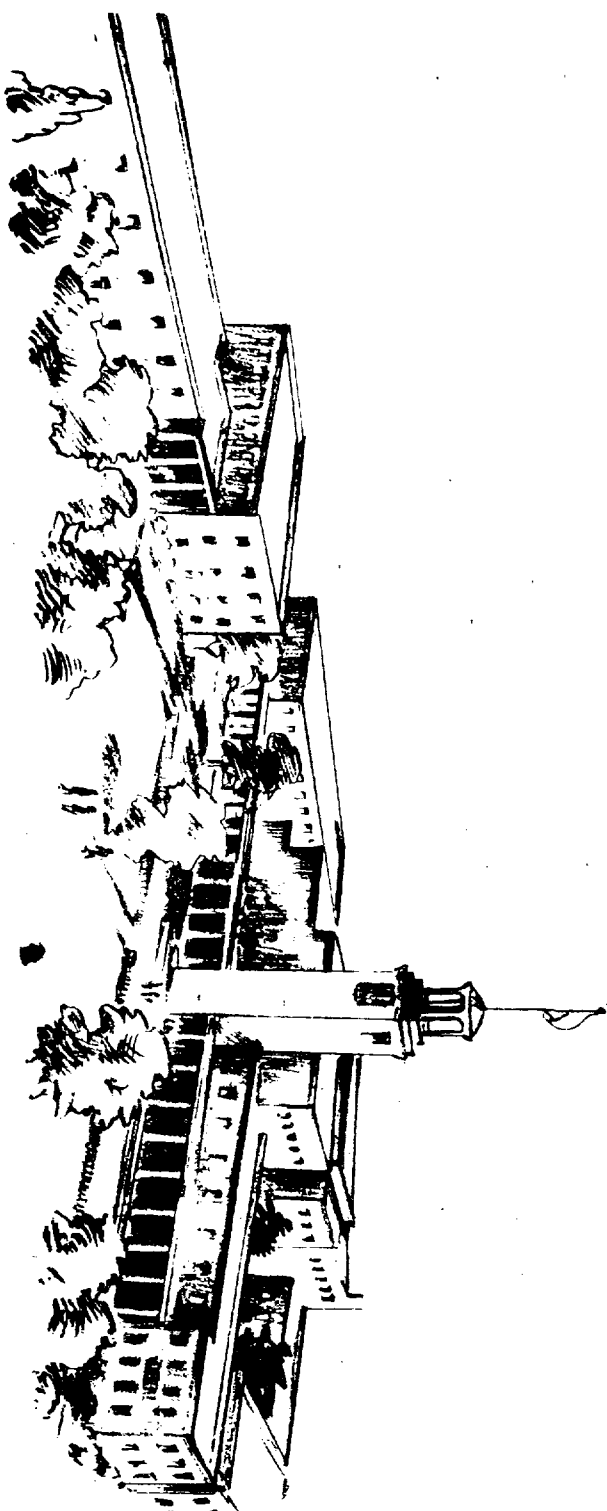
EXHIBIT NO.-----

SOUTHEAST GAS PRODUCTION SCHEDULE

New Mexico

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 1
CASE 1941

OIL CONSERVATION COMMISSION



ORDER NO. AG-13-4

APRIL 1960

Lea County, New Mexico, be and the same hereby is as follows:

Blinebry	2,282,430 MCF
Crosby-Devonian	930,660 MCF
Eumont	5,380,920 MCF
Jalmat	5,613,940 MCF
Justis	283,330 MCF
Tubb	1,979,470 MCF

(2) That the allocation hereby set for the month of April, 1960, in the six allocated pools in Lea County, New Mexico, shall be in accordance with the provisions of Orders R-520, R-586, R-586-B, R-610, and R-639-A, and the Commission's Rules and Regulations.

(3) A proration schedule, duly prepared by the Commission and thereafter adopted for the month of April, 1960, is hereto attached and made a part hereof; it distributes and allocates the allowable production among the gas wells in the six gas pools listed above for the period stated, in accordance with the Rules and Regulations and Orders R-520, R-586, R-586-B, R-610, and R-639-A.

The foregoing order shall remain effective until further order of the Commission.

DONE at Santa Fe, New Mexico, on this 18th day of March, 1960.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

esr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

ORDER NO. AG-13-4

SUPPLEMENTARY GAS PRODUCTION ORDER FOR THE MONTH
OF APRIL, 1960

The Commission held public hearing at Santa Fe, New Mexico, on March 16, 1960, at 9 o'clock a.m., pursuant to legal notice, for the purpose of setting the allowable production of gas from the following six gas pools in Lea County, New Mexico, for the month of April, 1960.

Blaineby, Crosby-Devonian, Eumont, Jalmat, Justis, and Tubb

NOW, on this day the Commission, a quorum being present, having considered the supplementary nominations of purchasers, the capacity of producing wells, and being otherwise fully advised in the premises,

FINDS:

(1) That total nominations of purchasers of gas from the above-listed six gas pools for the month of April, 1960, is 16,470,750 MCF. The individual pool nominations, which total 16,470,750 MCF, are as follows:

Blaineby	2,282,430 MCF
Crosby-Devonian	930,660 MCF
Eumont	5,380,920 MCF
Jalmat	5,613,940 MCF
Justis	283,330 MCF
Tubb	1,979,470 MCF

(2) The potential producing capacity of all gas wells in the six gas pools listed above is in excess of the nominations of purchasers of gas, and in order to prevent waste and protect of purchasers rights, the production of gas from the above-listed six gas pools should be limited, allocated, and distributed during the month of April, 1960.

(3) That all producing gas wells, together with the expected completed or recompleted wells in the six gas pools listed above, can produce a total of 16,470,750 MCF without causing waste during the month of April, 1960, and an allocation based upon such production would be reasonable and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That for the month of April, 1960, the allowable production to be assigned the six allocated gas pools in

SOUTHEAST GAS PRORATION SCHEDULE

EXPLANATION OF CURRENT STATUS CODE COLUMN

- N NON-MARGINAL
Signifies a non-marginal well with allocation based upon the appropriate formula.
- M MARGINAL
Signifies a marginal well with a constant allowable granted on the basis of the highest producing month during the preceding six months period.
- NC NEW CONNECTION
Signifies newly connected non-marginal wells.
- P SIX TIMES OVER-PRODUCED FLAG
This flag in the over/under produced field of the schedule signifies those wells which have over produced six or more times the latest current allowable shown in the schedule.
- EN EXEMPT FROM TOTAL SHUT-IN
Identifies a well which, after notice and hearing, has been granted an exception to the overproduction shut-in provisions. Notwithstanding the current allowable shown in this proration schedule, these wells shall not produce more gas each month than provided for in the order covering the well so identified. Violation of these orders will not be tolerated.
- NOTE: Some of the wells listed on this schedule may have been shut-in by the Commission. In all such cases both the operator and transporter are individually notified by supplements which take precedence over this schedule. In no event shall a shut-in well be produced until released by the Commission.

APRIL 1960 SOUTHEAST GAS PRORATION POOL BALANCING SCHEDULE

	Blinebry Pool	Crosby Devonian Pool	Eumont Pool
April Nominations	2,518,151	1,053,955	7,259,095
Feb. Net Allow.	2,095,030	859,866	3,446,872
Feb. Production	2,309,330	915,110	5,255,390
March Nominations	2,466,389	729,235	2,867,973
March Current Allow.	-	+ 185,875	+ 2,387,417
Total April Pool Alloc.	1,702,250	922,446	3,956,114
Less: April Low Acreage N-M	-0-	-0-	-0-
Less: April Marg. Allocation	15,720	-0-	33,612
Total April N-M Pool Alloc.	1,686,530	922,446	3,922,502
N-Marg. Acreage Alloc. Factor	12925.58	70957.38	7990.27
N-Marg. A x D Alloc. Factor			
Actual Pool Allocation	1,702,298	922,441	3,956,014
April Supple. to Feb. Net Allow.	+ 5,184	-0-	- 23,359
April Supple. to March Current Allow.	-0-	-0-	+ 3,710
Participating N-Marg. Acre Factors	130.48	13.00	490.91
Total Number of Wells	147	13	390
<u>Justis Pool</u>			
April Nominations	392,171	2,703,686	2,725,137
Feb. Net Allow.	200,946	975,723	6,360,562
Feb. Production	299,200	1,961,850	5,862,470
March Nominations	120,672	1,079,746	8,569,906
March Current Allow.	-	+ 882,104	- 2,707,436
Total April Pool Alloc.	270,633	1,133,611	6,541,929
Less: April Low Acreage N-M	-0-	-0-	-0-
Less: April Marg. Alloc.	8,836	20,683	75,945
Total April N-M Pool Alloc.	261,797	1,112,928	6,465,984
N-Marg. Acreage Alloc. Factor	15399.82	8887.07	4063.18
N-Marg. A x D Alloc. Factor			5.768057
Actual Pool Allocation	270,636	1,133,610	6,541,926
April Supple. to Feb. Net Allow.	-0-	+ 17,966	- 50,484
April Supple. to March Current Allow.	-0-	-0-	- 31,039
Participating N-Marg. Acre Factors	17.00	125.23	397.84
Total Number of Wells	11	143	385
<u>Jalmat Pool</u>			
April Nominations			
Feb. Net Allow.			
Feb. Production			
March Nominations			
March Current Allow.			
Total April Pool Alloc.			
Less: April Low Acreage N-M			
Less: April Marg. Alloc.			
Total April N-M Pool Alloc.			
N-Marg. Acreage Alloc. Factor			
N-Marg. A x D Alloc. Factor			
Actual Pool Allocation			
April Supple. to Feb. Net Allow.			
April Supple. to March Current Allow.			
Participating N-Marg. Acre Factors			
Total Number of Wells			

ALL FIGURES ARE IN MCF GAS

SOUTHEAST GAS PRORATION FACTORS BY PIPELINES

ACRE FACTORS		ACREAGE or DELIVERABILITY		A X D		ALLOCATION		NOMINATIONS	N-MARG.
N-MARGINAL	TOTAL	N-MARGINAL	TOTAL	N-MARGINAL	TOTAL	MARGINAL	TOTAL	TOTAL	WELLS
TUBB CONE	25	40	40				2222	15500	1
CONTINENTAL	75	120	120				6665	40000	1
EL PASO	54.74	8159	8759			12846	465996	1212970	53
MOBIL	1.75	280	280				15552	13000	2
PERMIAN	72.24	11359	11559			7837	638731	623100	77
SHELL								12000	
SINCLAIR	50	80	80				4444	8000	1
WARREN	2.00	320	320						
TOTAL	132.23	20038	21158			20683	1133610	1979470	135
JALMAT	POOL								
CONTINENTAL									
EL PASO	353.80	608294	608855	685630	686048	70648	5429116	4816410	328
GULF								5000	
PERMIAN	42.03	84562	84562	140104	140104		978901	372000	34
PHILLIPS	1.50	786	786	661	661		9908	10000	3
SCHERER	RHORN					2570	2570	3000	
SONO	25								
UNION	3.06	3391	3391	5327	5327		43159	105100	2
UNION	CARBON	4477	4538	8926	9048	2727	78272	300000	3
TEXACO	7.92							1500	
T P COAL								930	
TOTAL	408.59	701470	702092	840749	841289	75943	6541926	5613940	370

SOUTHEAST GAS PRODUCTION FACTORS BY PIPELINES

ACRE FACTORS		ACREAGE		ALLOCATION		NOMINATIONS		N-MARG.
N-MARGINAL	TOTAL	N-MARGINAL	TOTAL	MARGINAL	TOTAL	TOTAL	TOTAL	WELLS
BLINEBEE CONTRACT EL 1.74 MOBIL 1.74 PERM 1.24 SHELL 1.24	POOL TOTAL 1.00 61.74 .75 67.24	160 9879 120 10439	160 9879 120 10759		8563 3147 4010 15720	12926 798049 9694 851852	20000 1571430 27000 621000 15000	1 67 1 72
SKELLY SO UN- WARREN TOTAL 1.30	OIL CO 1.00 1.75 1.00 134.48		160 280 160 21518		3147 22620 4010 1702298	3147 22620 4010 2282430	28000 28000	2 2
CROSBY EL 1.30 TOTAL 1.30	DEVONIAN POOL 13.00 13.00	2080 2080	2080 2080			922441 922441	930660 930660	13 13
ECONTE CONTRACT EL 1.24 GULF 1.37	POOL TOTAL .00 217.31		34729		9471 1705803	2650000 4000	25000 2650000	165
PERM 1.38 PHILLY 1.75 SKELLY 1.50 SO UN- WARREN TIDEWATER TOTAL 91	257.16 6.25 .50 15.97 2.00 499.19	40704 920 80 2553 320 78506	41149 1000 80 2553 320 79831		16633 7508 16633 33612	2049182 53451 3995 127603 15980 3956085	2481000 74000 142500 4420 5380920	189 6 1 20 2 383
JUSTISSO EL 1.74 TOTAL 1.74	POOL 18.00 18.00	2720 2720	2880 2880		8836 8836	270636 270636	283330 283330	10 10

SOUTHEAST PRORATED GAS POOLS
FEBRUARY

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DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY		MARCH		APRIL		ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	
BLINEBRY POOL									
CONTINENTAL OIL COMPANY PIPELINE SYSTEM									
CONK 92137			76926-		76926EX	18782	58144-	12926	160
PIBELINE			76926-		76926EX	18782	58144-	12926	
EL PASO NATURAL GAS PIPELINE SYSTEM									
CITIESS SERVICE		50	3361-	10866	14227EX	9391	4836-	6463	80
CEL 105237			11365-	27674	39039EX	18782	20257-	12926	160
IA 332137			47884-	2298	50182EX	18782	31400-	12926	160
IA 332137			18118-	36993	55111EX	18782	36329-	12926	160
IA 332137			52743	8245	44498	18782	63280	12926	160
IA 332137			32405-	3254	35659EX	18782	16877-	12926	160
IA 332137			26276-	583	26859EX	18782	9249-	12926	160
IA 332137			1199-	26832	28031EX	18782	30503-	12926	160
IA 332137			7320-	41965	49285EX	18782	40787	12926	160
IA 332137			33637	11632	22005	18782	17109-	12926	160
IA 332137			13560-	22331	35891EX	18782	14866	12926	160
IA 332137			18777	22693	3916EX	18782	34183	12926	160
IA 332137			30994	15593	15401	18782		12926	160
IA 332137			22369-	18475	40844EX	18782	22062-	12926	160
IA 332137			5551-	18428	23979EX	18782	5197-	12926	160
IA 332137			32276-	43578	75854EX	18782	57072-	12926	160
IA 332137			48097	8152	39945	18782	58727	12926	160
IA 332137			10490	23903	13413EX	18782	5369	12926	160
IA 332137			29536-	2620	32156EX	18782	13374-	12926	160
IA 332137			6533-	14960	21493EX	18782	2711-	12926	160
IA 332137			1664-	22032	23696EX	18782	4914-	12926	160
IA 332137			83653-	6035	284258EX	18782	5476-	12926	160
IA 332137			144250-	15426	229676EX	18782	10894-	12926	160
IA 332137			593-	22643	23236EX	14086	9150-	9694	120

DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	ACREAGE OR DELIVERABILITY
AR 56-223137	N	100	34678-	14287	48965EX	18782	30183-	12926	160
LI 89-223137	N	100	33173	13950	19223	18782	38005	12926	160
LO 99-223137	N	100	2664	62757	60093EX	18782	41311-	12926	160
SA 52-223137	N	100	20141-	8126	28267EX	18782	9485-	12926	160
SA 52-223137	N	100	4223-	6364	10587EX	18782	8195	12926	160
ST 22-223137	N	50	4772-	8435	13207EX	9391	3816-	6463	80
TA 12-223137	N	75	14965-	45449	1060414EX	14086	46328-	9694	120
TU 12-223137	N	100	91828-	9750	101578EX	18782	82796-	12926	160
15-223137	N	100	42000-	11633	53633EX	18782	34851-	12926	160
SO 42-223137	N	100	11265	13119	1854EX	18782	16928	12926	160
SA 42-223137	N	100	19487-	15085	34572EX	18782	15790-	12926	160
TU 32-223137	N	100	104250		104250	18782	123032	12926	160
YO 12-223137	N	50	20365-	177	20542EX	9391	11151-	6463	80
SW 42-223137	N	100	9441-	31127	40568EX	18782	21786-	12926	160
EV 42-223137	N	49	3882	2975	907	9203	10110	6334	79
TA 32-223137	N	100	14377-	27011	41388EX	18782	22606-	12926	160
ST 32-223137	N	75	2915-	44886	47801EX	14086	33715-	9694	120
ST 32-223137	N	100	34506-	1226	35732EX	18782	16950-	12926	160
WE 32-223137	N	100	3461-	49539	53000EX	18782	34218-	12926	160
PI 42-223137	N	100	303685-	1253451	557136EX	1159598	397538-	798049	160
NOBIL OIL COMPANY PIPELINE SYSTEM									
SO 32-223137	N	75	53408-		53408EX	14086	39322-	9694	120
PI 32-223137	N	100	53408-		53408EX	14086			
PERMIAN BASIN PIPELINE SYSTEM									
AMER 32-223137	N	50	23749	12260	11489	9391	20880	6463	80
TA 32-223137	N	50	27377	6366	21011	9391	30402	6463	80
ST 42-223137	N	100	40354	7506	32848	18782	51630	12926	160
WE 42-223137	N	100	49080	15153	33927	18782	52709	12926	160

BLINEBRY POOL PERMIAN BASIN SYSTEM CTD

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DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY			MARCH			ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	
MA 42337	N	100	43752	11168	32584	18782	51366	12926	160
OW 42337	N	100	30866	9208	21658	18782	40440	12926	160
WM 42337	N	100	48281	12290	35991	18782	54773	12926	160
WA 42337	N	50	17319	1270	16049	9391	25440	6463	80
LO 42337	N	100	46082	9651	36431	18782	55213	12926	160
1 42337	N	100	40531	14872	25659	18782	44441	12926	160
PE 42337	N	100	48106	18900	39206	18782	57988	12926	160
EA 42337	N	50	30186	5899	24287	9391	33678	6463	80
VA 42337	N	100	50585	10774	39811	18782	58593	12926	160
SO 42337	N	100	45797	6883	38914	18782	57696	12926	160
ST 42337	N	100	47721	11087	36634	18782	55416	12926	160
ST 42337	N	100	49444	8297	41147	18782	59929	12926	160
SW 42337	N	100	45907	10185	35722	18782	54504	12926	160
NI 42337	N	50	23626	7963	15663	9391	25054	6463	80
FE 42337	N	100	40116	13692	26424	18782	45206	12926	160
SR 42337	N	100	28098	14569	23529	14086	37615	9694	120
SE 42337	N	100	15002	14933	69	18782	18851	12926	160
IO 42337	N	75	42103	6375	35728	14086	49814	9694	120
ST 42337	N	100	45290	5521	39769	18782	58551	12926	160
SE 42337	N	100	41505	9464	32041	18782	50823	12926	160
SE 42337	N	150	64454	19491	44963	28173	73136	19388	240
SE 42337	N	100	45220	8086	37134	18782	55916	12926	160
SE 42337	N	100	37290	2377	34913	18782	53695	12926	160
SE 42337	N	100	93728	13382	80346	18782	99128	12926	160
SE 42337	N	49	22873	16898	5975	9203	15178	6334	79
SE 42337	N	100	2986	2986		7384	7384	7384	160
SE 42337	N	100	37552	9735	27817	18782	46599	12926	160
SE 42337	N	100	38722	13741	24981	18782	43763	12926	160
SE 42337	N	25	21114-		PO21114EX	4695	16419-	3231	40
SE 42337	N	100	38898	18187	20711	18782	39493	12926	160

DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY		OVER/UNDER PRODUCTION ±	MAR.		APR.	ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	MCF PRODUCTION		CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±		
CS WILSON	OK	1.00	5192	422	4770	2887	7657	3995	80
CB BERRY	OK	1.00	4698-	2046	6744 EX	5774	970-	7990	160
CB BERRY	OK	1.00	24275-		PO24275 EX	2887	21388-	3995	80
CB BERRY	OK	1.00	18976-		18976 EX	5774	13202-	7990	160
CB BERRY	OK	1.00	6120-	31752	PO37872 EX	1443	36429-	1998	40
CB BERRY	OK	1.00	13311-	5553	42222 EX	7217	2995	99881	200
CB BERRY	OK	1.00	2111-	7821	80322 EX	11547	3515	159881	320
CB BERRY	OK	1.00	718622	3529	68332 EX	11547	79879	159881	320
CB BERRY	OK	1.00	86222	31701	23079 EX	15774	17305-	7990	160
CB BERRY	OK	1.00		6423					
CB BERRY	OK	1.00	9871-	6423	16294 EX	5774	10520-	7990	160
CB BERRY	OK	1.00	25632	1483	24149	4330	28479	5993	120
CB BERRY	OK	1.00	17713		17713	8660	26373	11985	240
CB BERRY	OK	1.00	5936-	657	6593 EX	4330	2263-	5993	120
CB BERRY	OK	1.00	34058-		34058 EX	5600	28458-	7751	155
CB BERRY	OK	1.00	10136-		10136 EX	2714	27422-	7751	155
CB BERRY	OK	1.00	24665-	5953	24665 EX	5774	18891-	7990	160
CB BERRY	OK	1.00	1409-	1099	2320 EX	5774	117-	7990	160
CB BERRY	OK	1.00	1221-		2320 EX	5774	3454	7990	160
CB BERRY	OK	1.00	23017-		23017 EX	5774	172432-	7990	160
CB BERRY	OK	1.00	155634	24364	131270	17321	148591	23990	480
CB BERRY	OK	1.00	19886	10286	16890 EX	8660	25550-	11985	240
CB BERRY	OK	1.00	26687-	512	PO27199 EX	2887	24312-	11985	240
CB BERRY	OK	1.00	92892-		PO92892 EX	5774	87118-	7990	160
CB BERRY	OK	1.00	69360-		69360 EX	8660	60700-	11985	240
CB BERRY	OK	1.00	1307-	7505	8812 EX	8660	152-	11985	240
CB BERRY	OK	1.00	70284-		70284 EX	12990	57294-	17978	360
CB BERRY	OK	1.00	83280-		83280 EX	12990	70290-	17978	360
CB BERRY	OK	1.00	25945-		25945 EX	5774	20171-	7990	160
CB BERRY	OK	1.00	10326-	3969	14295 EX	5774	8521-	7990	160
CB BERRY	OK	1.00	10927-		10927 EX	2887	8040-	3995	80
CB BERRY	OK	1.00	33242-	3608	36850 EX	5774	31076-	7990	160
CB BERRY	OK	1.00	45711-		45711 EX	5774	39937-	7990	160
CB BERRY	OK	1.00	26292-	13563	26292 EX	8660	176327-	11985	240

DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	MCY PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	ACREAGE OR DELIVERABILITY
AN REPU 2537	SN	100	30162	35282	5120EX	56095	50975	70957	160
COL 1292537	N	100	57182	96899	39717EX	56095	16378	70957	160
JR 3433333	ZZZ	1000	148476	126322	135844	56095	1919339	70957	160
EX 3433333	ZZZ	1000	1251872	1527228	319338EX	56095	3754331	70957	160
UR 3433333	RAZ	1000	93052	69566	23486	56095	79581	70957	160
UR 3433333	RAZ	1000	24690	127217	102527EX	56095	46432-	70957	160
UR 3433333	RAZ	1000	22613	18805	3808	56095	59903	70957	160
UR 3433333	RAZ	1000	99452	43098	56354	56095	112449	70957	160
UR 3433333	RAZ	1000	60848	65433	4585EX	56095	151510	70957	160
UR 3433333	RAZ	1000	80681	75834	4847	56095	60942	70957	160
UR 3433333	RAZ	1000	30619	61353	30734EX	56095	25361	70957	160
UR 3433333	RAZ	1000	54221	95170	40949EX	56095	15146	70957	160
UR 3433333	RAZ	1000	1053955	859866	194089	7229235	923324	922441	160
UR 3433333	RAZ	1000	76571	4908	71663	5774	77437	7990	160
UR 3433333	RAZ	1000	36610-	7840	44450EX	5774	38676-	7990	160
UR 3433333	RAZ	1000	7935-	9271	17206EX	5774	11432-	7990	160
UR 3433333	RAZ	1000	14647	5776	8871	4272	13143	5913	118
UR 3433333	RAZ	1000	24748	27534	2786EX	11547	8761	15981	320
UR 3433333	RAZ	1000	7340-	5106	12446EX	5774	6672-	7990	160
UR 3433333	RAZ	1000	127877	5230	122647	5774	128421	7990	160
UR 3433333	RAZ	1000	60260	5929	54331	8660	62991	11985	240
UR 3433333	RAZ	1000	18375-	265	18640EX	5774	12866-	7990	160

DESCRIPTION	STATUS	AGE FACTOR	BEGINNING NET ALLOWABLE ±	NET PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	APR. NEW ALLOCATION	AGE OR DELIVERABILITY
GI 1LE 2ON 421 1RD 36 C 07	N	200	44075	9744	34331	11547	45878	15981	320
MA 1LE 2ON 421 1RD 36 C 07	N	146	147-	5460	5607EX	8429	2822	11666	234
W 17J 2 7821 37Y 6	N	400	16224-	7164	23388EX	23094	294-	31961	640
UD 1LE 2ON 421 1RD 36 C 07	REF	175	55813-	1473	57286EX	10104	47182-	13983	280
AG 1LE 2ON 421 1RD 36 C 07	N	175	35599-	1823	37422EX	11547	25875-	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	33669-	82320	115989EX	15774	110215-	17990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	6564-	112835	34142EX	23094	11048-	31961	640
UD 1LE 2ON 421 1RD 36 C 07	N	100	22757-	1532	24289EX	11547	12742-	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	13827-	6453	13827EX	5774	8053-	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	37761	9765	31308	8660	39968	11985	240
UD 1LE 2ON 421 1RD 36 C 07	N	100	9627	910	138EX	11547	11409	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	43814-	910	44724EX	11547	33177-	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	10652-	1998	10652EX	2887	7765-	3995	80
UD 1LE 2ON 421 1RD 36 C 07	N	100	26436-	11672	28434EX	5774	22660-	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	56277	11607	47753EX	11547	59300	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	59360	114874	6578EX	11547	4969	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	66296	9992	56768EX	11547	68315-	15981	320
UD 1LE 2ON 421 1RD 36 C 07	N	100	5947	12770	6823EX	15473	1280-	17671	154
UD 1LE 2ON 421 1RD 36 C 07	N	100	17414-	9369	26783EX	5774	21009-	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	6644-	4584	11228EX	5774	5454-	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	19070-	15966	35036EX	14434	20602-	19976	400
UD 1LE 2ON 421 1RD 36 C 07	N	100	36467	4360	32107	5774	37881	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	145985-	P145985EX		2887	143098-	3995	80
UD 1LE 2ON 421 1RD 36 C 07	N	100	EX. O. F. EST. F. J. DANGLADE			5658	5676	7830	157
UD 1LE 2ON 421 1RD 36 C 07	N	100	12273	12255	18	5774	98400	7990	160
UD 1LE 2ON 421 1RD 36 C 07	N	100	96217	3591	92626	5774			
UD 1LE 2ON 421 1RD 36 C 07	N	100	COMPANY	9230	23518EX	2887	20631-	3995	80
UD 1LE 2ON 421 1RD 36 C 07	N	100	14288-						

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DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY		OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	MAR.		APR.	ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	MCF PRODUCTION			ENDING NET ALLOWABLE ±	NEW ALLOCATION		
PHILLY STATE 22135	PS	100	23318-	3478	26796EX	5774	21022-	7990	160	
SKELLY STATE 22135	N	74	73749-	25927	P099676EX	4272	95404-	5913	118	
SHRINSTA 22135	N	50	14567-	11017	P025584EX	2887	22697-	3995	80	
MONSISTA 22135	N	100	46143-	7854	P053997EX	5774	48223-	7990	160	
SOUTHERN 22135	ET	75	35916-	193	P036109EX	4330	31779-	5993	120	
STANDARD 22135	TEXAS	100	43580-	2372	45952EX	5774	40178-	7990	120	
STAN 22135	N	100	19601	2620	16981	5774	22755	7990	160	
UNION 22135	N	100	29662-	5684	35346EX	5774	29572-	7990	160	
UNION 22135	N	100	17131-	1540	18671EX	5774	12897-	7990	160	
UNION 22135	CON	100	37967-	8210	46177EX	5774	40403-	7990	160	
UNION 22135	N	100	35329-	1984	37313EX	5774	31539-	7990	160	
UNION 22135	N	100	31162-	5996	37158EX	5774	31384-	7990	160	
UNION 22135	IL	50	33015-	2829	P035844EX	2887	32957-	3995	80	
UNION 22135	N	100	26855-	1712	28567EX	5774	22793-	7990	160	
UNION 22135	N	25	2352	777	2352	1443	3795	1998	40	
UNION 22135	N	75	49924-	7126	P050701EX	2887	47814-	3995	80	
UNION 22135	N	50	18343	1117	17226	2887	20113	3995	80	
UNION 22135	N	46	44-	2125	2169EX	2656	487	3676	74	
UNION 22135	N	98	57229-	P057229EX	5658	5658	51571-	7830	157	
UNION 22135	N	50	8178-		8178EX	2887	5291-	3995	80	
UNION 22135	IL	100	47893-	5989	P053882EX	5774	48108-	7990	160	
UNION 22135	IL	100	363	363		6977	6977	6977	160	
UNION 22135	N	100	8441-	6104	14545EX	5774	8771-	7990	160	
UNION 22135	N	104	287	5269	4982EX	6004	1022	8310	166	
UNION 22135	N	71	62187-	555	P062742EX	4099	58643-	5673	113	

EUMONT POOL EL PASO SYSTEM CITY										YEAR: 1960		PAGE: 11					
FEBRUARY										MAR.		APR.					
DESCRIPTION										CURRENT ALLOWABLE		ENDING NET ALLOWABLE ±		NEW ALLOCATION		ACREAGE OR DELIVERABILITY	
STATUS										BEGINNING NET ALLOWABLE ±		MCF PRODUCTION		OVER/UNDER PRODUCTION ±		ACREAGE FACTOR	
STATE 22136	INC	N100	49537-	654	PO50191EX	5774	44417-	7990	160								
NALVES 82137	INC	N100	5023-	15122	20145EX	5774	14371-	7990	160								
MARSH 2136	INC	N100	467-	5493	5960EX	5774	186-	7990	160								
MARSH 2237	INC	N100	6225-	24629	30854EX	5774	25080-	7990	160								
WARR 192137	INC	N100	4494	7560	3066EX	5774	2708	7990	160								
PHO 1121936	INC	N150	2061	9223	7162EX	8660	1498	11985	240								
ROW 42137	INC	N150	8765	14934	6169EX	8660	2491	11985	240								
SCAR 2136	INC	N50	20339-	6069	PO26408EX	2887	23521-	3995	80								
CURRY 2137	INC	N200	122570	13737	108833	11547	120380	15981	320								
CH 1937	INC	N200	15848-	4398	20246EX	11547	8699-	15981	320								
SHEV 136	INC	N200	52580-	17502	70082EX	11547	58535-	15981	320								
FOSTER 1936	INC	N100	20168-	5565	25733EX	5774	19959-	7990	160								
STATE 71937	INC	N100	27646-	7752	35398EX	5774	29624-	7990	160								
STATE 512135	INC	N100	54446-	5318	PO59764EX	5774	53990-	7990	160								
STATE 322135	INC	N100	12964	4227	8737	5774	14511	7990	160								
STATE 610936	INC	N100	25438-	6091	31529EX	5774	25755-	7990	160								
STATE 412135	INC	N125	16264-	6997	16264EX	2887	13377-	3995	80								
STATE 312135	INC	N125	45914-	6997	52911EX	7217	45694-	9988	200								
STATE 312135	INC	N200	25170-	10419	35589EX	11547	24042-	15981	320								
STATE 112135	INC	N100	9700-	4239	13939EX	5774	8165-	7990	160								
STATE 112135	INC	N197	41530-	17013	58543EX	11374	47169-	15741	315								
STATE 112135	INC	N197	7704	11062	3358EX	5774	2416	7990	160								
STATE 112135	INC	N100	45337-	4129	PO49466EX	5774	43692-	7990	160								
STATE 112135	INC	N200	87758-	7952	95710EX	11547	84163-	15981	320								
STATE 112135	INC	N100	38005-	4803	42808EX	5774	37034-	7990	160								
STATE 112135	INC	N200	34602-	7460	42062EX	11547	30515-	15981	320								
STATE 112135	INC	N50	54848-	3725	PO58573EX	2887	55686-	3995	80								
STATE 112135	INC	N100	34412-	1825	36237EX	5774	30463-	7990	160								

[illegible]

EUMONT POOL PERMIAN BASIN SYSTEM CTD										YEAR: 1960	PAGE: 15		
FEBRUARY										MAR.	APR.		
DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±		MCF PRODUCTION	OVER/UNDER PRODUCTION ±		CURRENT ALLOWABLE		ENDING NET ALLOWABLE ±		NEW ALLOCATION	ACREAGE OR DELIVERABILITY
R	N	150	45023	13910	31113	8660	39773	11985	240				
R	N	200	74793	20971	53822	11547	65369	15981	320				
R	N	200	78740	22214	56526	11547	68073	15981	320				
R	N	100	38344	4775	33569	5774	39343	7990	160				
R	N	125	39025	7705	31320	7217	38537	9988	200				
C	N	194	67093	14602	52491	11201	63692	15501	310				
A	N	910	38797	11482	27315	5254	32569	7271	148				
R	N	100	38178	19049	29129	5774	34903	7990	160				
R	N	200	72012	7314	64698	11547	76245	15981	320				
I	N	200	71564	15381	56183	11547	67730	15981	320				
U	N	298	92663	9767	82896	17205	100101	23811	477				
V	N	100	33745	8743	25002	5774	30776	7990	160				
E	N	192	75928	24948	50980	11085	62065	15341	307				
E	N	197	73506	21569	51937	11374	63311	15741	315				
S	N	100	33112	6908	26204	5774	31978	7990	160				
G	N	100	23500	1119	22381	5774	28155	7990	160				
G	N	150	50145	11724	38421	8660	47081	11985	240				
G	N	100	33871	5711	28160	5774	33934	7990	160				
G	N	150	51547	17171	34376	8660	43036	11985	240				
H	N	148	51233	11241	39992	8545	48537	11826	237				
J	N	150	62572	11648	50924	8660	59584	11985	240				
J	N	100	37931	5740	32191	5774	37965	7990	160				
J	N	100	64335	16529	47806	11547	59353	15981	320				
F	N	100	14066	15454	1388EX	5774	4386	7990	160				
K	N	200	74220	15540	58680	11547	70227	15981	320				
K	N	300	107888	18966	88922	17321	106243	23971	480				
U	N	100	33073	4556	28517	5774	34291	7990	160				
L	N	100	41017	10947	30070	5774	35844	7990	160				
I	N	200	75586	27996	47590	11547	59137	15981	320				
I	N	200	36989	10718	26271	15774	32045	7990	160				
I	N	200	69466	17667	51799	11547	63346	15981	320				
I	N	100	36673	9301	27372	5774	33146	7990	160				
I	N	100	71347	21526	49821	11547	61368	15981	320				
I	N	100	117178	15770	101408	16916	118324	23411	1608				

DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	ACREAGE FOR DELIVERABILITY
L 1N321837	N	250	24415	12563	11852	14434	26286	19976	400
L 1N331837	M	78	2206	2206		15100	15100	15100	285
SHATEL OIL CO	N	100	11936	7670	4266	5774	10040	7990	160
SE 1N331837	N	25	8109	49	8060	1443	9503	1998	40
SE 1N331837	N	25	75888	23452	52436	11547	63983	15981	320
SE 1N331837	N	25	57134	16161	40973	8660	49633	11985	240
SE 1N331837	N	25	49626	11038	38588	7217	45805	9988	200
SE 1N331837	N	25	49882	8458	41424	8660	50084	11985	240
SE 1N331837	N	25	40562	6623	33939	5774	39713	7990	160
SE 1N331837	N	25	35994	90622	26932	5774	32706	7990	160
SE 1N331837	N	25	30329	5882	24447	5774	30221	7990	160
SE 1N331837	N	25	33818	7615	26203	5774	31977	7990	160
SE 1N331837	N	25	35174	7392	27782	5774	33556	7990	160
SE 1N331837	N	25	35932	7041	28891	5774	34665	7990	160
SE 1N331837	N	25	36625	12254	24371	5774	30145	7990	160
SE 1N331837	N	25	40703	13113	27590	5774	33364	7990	160
SE 1N331837	N	25	1599	441	1158	1443	2601	1998	40
SE 1N331837	N	25	37779	10216	27563	5774	33337	7990	160
SE 1N331837	N	25	38035	13409	24626	5774	30400	7990	160
SE 1N331837	N	25	33541	3514	30027	5774	35801	7990	160
SE 1N331837	N	25	36627	8161	28466	5774	34240	7990	160
SE 1N331837	N	25	36616	10037	26579	5774	32353	7990	160
SE 1N331837	N	25	34979	9210	25769	5774	31543	7990	160
SE 1N331837	N	25	34134	396	33738	8660	42398	11985	241
SE 1N331837	N	25	65602	17322	48280	11316	59596	15661	314
SE 1N331837	N	25	19178	12359	6819	11432	18251	15821	317
SE 1N331837	N	25	30772	8658	22114	5774	27888	7990	160

EUMONT POOL SOUTHERN UNION SYSTEM CTD									
YEAR: 1960									
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DESCRIPTION	STARTS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	APR * NEW ALLOCATION	ACREAGE OR DELIVERABILITY
ATLANTIC 2136	N	50	4752	3575	1177	2887	4064	3995	80
STAD 22037	N	50	2858	5496	2638EX	2887	249	3995	80
ATLANTIC 2136	N	50	38372	3277	35095	5774	40869	7990	160
WILB 3331937	N	75	12080	3591	8489	4330	12819	5993	120
ATLANTIC 2136	N	75	17616	3693	13923	4330	18253	5993	120
COB 32037	N	100	42706	3944	38762	5774	44536	7990	160
COB 32037	N	100	3889	7420	3531EX	5774	2243	7990	160
STAD 22037	N	125	11438	10924	514	7217	7731	9988	200
STAD 22037	N	100	2298	3409	1111EX	5774	4663	7990	160
STAD 22037	N	50	605	2876	2271EX	2887	616	3995	80
STAD 22037	N	75	3061	10028	6967EX	4330	2637-	5993	120
STAD 22037	N	100	2694	12020	9326EX	5774	3552-	7990	160
STAD 22037	N	100	1192	8608	7416EX	2887	4529-	3995	80
STAD 22037	N	50	16694	644	16050	2887	18937	3995	80
STAD 22037	N	50	5876	6564	688EX	5774	5086	7990	160
STAD 22037	N	100	7581	13050	5469EX	5774	305	7990	160
STAD 22037	N	25	24384-	PO24384EX	1443	22941-	1998	1998	40
STAD 22037	N	100	5784	11074	5290EX	5774	484	7990	160
STAD 22037	N	100	6962	10299	3337EX	5774	2437	7990	160
STAD 22037	N	100	196146	123409	72737	92208	164945	127603	160
WARREN PETROLEUM COMPANY PIPELINE SYSTEM									
TEXACO			7038	6477	561	5774	6335	7990	160

EUMONT POOL PERMIAN BASIN SYSTEM CTD

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EUMONT POOL PERMIAN BASIN SYSTEM CTD												YEAR: 1960	PAGE: 19
FEBRUARY												MAR.	APR.
DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±		MCF PRODUCTION	OVER/UNDER PRODUCTION ±		CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±		NEW ALLOCATION	ACREAGE OR DELIVERABILITY	
PH 1102	N	175	61831	16823	45008	10104	55112	13983	280				
PH 1103	N	100	35843	8179	27664	5774	33438	7990	160				
PH 1104	N	100	34798	6696	28102	5774	33876	7990	160				
PH 1105	N	100	120476	1097	119379	5774	125153	7990	160				
PH 1106	N	150	50112	7462	42650	8660	51310	11985	240				
PH 1107	N	100	36892	8771	28121	5774	33895	7990	160				
PH 1108	N	100	65981	14526	51455	11720	63175	16220	325				
PH 1109	N	100	39613	8479	31134	5774	36908	7990	160				
PH 1110	N	100	35815	5368	30447	5774	36221	7990	160				
PH 1111	N	100	113008	29825	83183	17321	100504	23971	480				
PH 1112	N	100	36948	7826	29122	5774	34896	7990	160				
PH 1113	N	100	36794	7184	29610	5774	35384	7990	160				
PH 1114	N	100	35150	13422	21728	5774	27502	7990	160				
PH 1115	N	100	40248	10010	30238	5774	36012	7990	160				
PH 1116	N	100	37595	10874	36721	5774	32495	7990	160				
PH 1117	N	100	8384970	1994998	6389972	1485343	7875315	2049182	1160				
PH 1118	N	100	2443	2443	1689EX	7508	7508	7508	80				
PH 1119	N	100	1792	3481	54151	2887	1198	3995	80				
PH 1120	N	100	54856	705	54151	5774	59925	7990	160				
PH 1121	N	100	36754	4081	32673	5774	38447	7990	160				
PH 1122	N	100	59831	360	59471	5774	65245	7990	160				
PH 1123	N	100	64257	12217	76474EX	4330	72144	5993	120				
PH 1124	N	100	92432	3878	88554	8660	97214	11985	240				
PH 1125	N	100	183851	27165	156686	40707	197393	153451	240				
PH 1126	N	100	8138	2830	5308	2887	8195	3995	80				
PH 1127	N	100	8138	2830	5308	2887	8195	3995	80				
PH 1128	N	100	34072	2917	31155	4157	35312	5753	113				

DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	FEBRUARY MCF PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	MAR. ENDING NET ALLOWABLE ±	APR. NEW ALLOCATION	ACREAGE OR DELIVERABILITY
PIPELINE	NZ TOTAL	1000	73118	2868	70250	8457	78707	8887	160
PIPELINE	NZ TOTAL	1000	56852	4063	52789	8457	61246	8887	160
PIPELINE	NZ TOTAL	1000	73756	423079	496835	444067	52768	465996	160
MOBILE OIL COMPANY PIPELINE SYSTEM									
SOCOCNARY MOBILE OIL COMPANY	NZ TOTAL	1000	16973	27701	10728	8457	22711	8887	160
PIPELINE	NZ TOTAL	1000	48397	1466	49863	6343	43520	6665	120
PIPELINE	NZ TOTAL	1000	31424	29167	60591	14800	45791	15552	160
DEERMAN BASIN PIPELINE SYSTEM									
ANNEBROAD AKERS	NZ TOTAL	50	17114	3132	13982	4228	18210	4444	80
ANNEBROAD AKERS	NZ TOTAL	50	25150	521	24629	8457	33086	8887	160
ANNEBROAD AKERS	NZ TOTAL	50	37828	8858	28970	8457	37427	8887	160
STATION 6 21 37	NZ TOTAL	1000	45755	10309	35446	8457	43903	8887	160
STATION 6 21 37	NZ TOTAL	1000	22438	8214	14224	4228	18452	4444	80
STATION 6 21 37	NZ TOTAL	1000	49125	5960	43165	8457	51622	8887	160
STATION 6 21 37	NZ TOTAL	1000	65911	6221	65911	8457	74368	8887	160
STATION 6 21 37	NZ TOTAL	1000	30954	6716	24733	8457	33190	8887	160
STATION 6 21 37	NZ TOTAL	1000	41052	6716	34336	8457	42793	8887	160
STATION 6 21 37	NZ TOTAL	1000	19680	5854	13826	4228	18054	4444	80
STATION 6 21 37	NZ TOTAL	1000	134596	10238	124358	8457	132815	8887	160
STATION 6 21 37	NZ TOTAL	1000	33327	9890	23437	8457	31894	8887	160
STATION 6 21 37	NZ TOTAL	1000	32344	8730	23614	8457	32071	8887	160
STATION 6 21 37	NZ TOTAL	1000	46107	13620	32487	8457	40944	8887	160
STATION 6 21 37	NZ TOTAL	1000	29178	15901	13277	8457	21734	8887	160
STATION 6 21 37	NZ TOTAL	1000	29763	10076	19687	6343	26030	6665	120
STATION 6 21 37	NZ TOTAL	1000	9788	3905	5883	8457	14340	8887	160
STATION 6 21 37	NZ TOTAL	1000	34083	8402	25681	8457	34138	8887	160
STATION 6 21 37	NZ TOTAL	1000	44301	8931	35370	8457	43827	8887	160
STATION 6 21 37	NZ TOTAL	1000	36583	10813	25770	8457	34227	8887	160
STATION 6 21 37	NZ TOTAL	1000	30736	5469	25267	8457	33724	8887	160
STATION 6 21 37	NZ TOTAL	1000	38833	7569	31264	8457	39721	8887	160
STATION 6 21 37	NZ TOTAL	1000	39219	6985	32234	8457	40691	8887	160
STATION 6 21 37	NZ TOTAL	1000	35751	7485	28266	8457	36723	8887	160

DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY		MARCH		ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	
WARREN PETROLEUM COMPANY PIPELINE SYSTEM							
CITIES SERVICE							160
BRUNSON 32237 M100							
GULF OIL CORP							160
GULF OIL 32237 M100							
PIPEL TOTAL							
2703686			9757231	727963	1079746	2807709	1133610
JALMAT POOL							
EL PASO NATURAL GAS PIPELINE SYSTEM							
AMERADAGLE 322637 N200			301738	29548	272190	53929	326119
32637 N200							41050
ARGO OIL CORP							
LANE 12537 N100			114258-	2576P	116834EX	8721	108113-
ATLANTIC REFINING							
ATLANTIC 32236 N100			16818-	6521	23339EX	11518	11821-
STANTIS 322437 N25			6195-	1111	7306EX	2023	5283-
322437 N25							1541
322437 N25							364
CITIES SERVICE							
CITIES 32236 N200			3640	15286	11646EX	22247	10601
CITIES 32236 N200							16940
CITIES 32236 N200			504777	11128	493649	65911	50169
CITIES 32236 N200			290202		290202	57604	43847
DATA 32237 N50			31237-		3031237EX	3007	2291
STANTIS 32236 N200			107104	40827	66277	53701	40877
STANTIS 32236 N200			15044-	18871	33915EX	24691	18795
STANTIS 32236 N200			11971-	4359	16330EX	8010	6098
STANTIS 32236 N200			5135	14966	9831EX	17906	13633
STANTIS 32236 N200			11922-	6278	18200EX	9865	7512
STANTIS 32236 N200			35268-	9307	44575EX	15209	11579
COBE 32236 N200			7883-	2259	10142EX	4720	3595
COBE 32236 N200							132
CITIES SERVICE							
CITIES 32236 N200			222	222	6114EX	497	497
CITIES 32236 N200			4998-	1116		3091-	2303
CITIES 32236 N200			5793-	14950	20743EX	16547	12602
CITIES 32236 N200			44719	18703	26016	24415	18590
CITIES 32236 N200			32226-	10561	42787EX	15884	12093
CITIES 32236 N200			29470-	12362	41832EX	12501	9521

DESCRIPTION	STATUS	ACREAGE FACTOR	BEGINNING NET ALLOWABLE ±	NET PRODUCTION	OVER/UNDER PRODUCTION ±	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	NEW ALLOCATION	ACREAGE OR DELIVERABILITY
STAG 23 22 43 77 25	N	25	25300-	5930	031230EX	5434	25796-	4136	2165
STAG 23 22 43 77 50	N	50	6527-		6527EX	3189	3338-	2430	139
STAG 23 22 43 77 00	N	00	35248	330	34918	5492	40410	4184	21
SK 23 22 43 77 00	N	00	10597	9133	7929EX	12924	4995	9845	149
SK 23 22 43 77 00	N	00	114101-	18526	7929EX	18961	115870-	14434	1798
SK 23 22 43 77 25	N	25	6696-	2130	008826EX	1462	7364-	1114	68
SK 23 22 43 77 05	N	05	26255	33597	7342EX	49977	42635	38038	5577
SK 23 22 43 77 01	N	01	13083-	8835	21918EX	20075	1843-	15282	1919
SK 23 22 43 77 00	N	00	60721-	101859	162580EX	55228	107352-	42034	6583
SK 23 22 43 77 50	N	50	9736-	4841	14577EX	9109	5468-	6934	1701
SK 23 22 43 77 00	N	00	973-	27794	28767EX	27101	1666-	20629	2872
SK 23 22 43 77 00	N	00	8305-	13396	21701EX	15231	6470-	11596	1306
SK 23 22 43 77 50	N	50	9029-	1944	9029EX	5509	3520-	4195	751
SK 23 22 43 77 75	N	75	5498-	3440	7442EX	12645	5203	9631	409
SK 23 22 43 77 49	N	49	18266-	14626	21706EX	6978	14728-	5314	524
SK 23 22 43 77 00	N	00	1880-		16506EX	6623	9883-	5042	1081
SK 23 22 43 77 00	N	00	6827-	472	7299EX	7546	1247	5747	292
SK 23 22 43 77 00	N	00	2157	2157		1241	1241	1241	61
SK 23 22 43 77 00	N	00	8483	11909	3426EX	7637	4211	5817	304
SK 23 22 43 77 00	N	00	6021-	12966	18987EX	11783	7204-	8972	851
SK 23 22 43 77 00	N	00	8550-	9233	17783EX	7773	10010-	5920	322
SK 23 22 43 77 00	N	00	19052-	1581	20633EX	7015	13618-	5344	222
SK 23 22 43 77 50	N	50	2731	2731		9511	9511	9511	25
SK 23 22 43 77 25	N	25	19185-	3945	023130EX	2614	20516-	1991	679
SK 23 22 43 77 50	N	50	1098-	4333	5431EX	3258	2173-	2481	157
SK 23 22 43 77 00	N	00	131-	7547	7678EX	7394	284-	5632	272
SK 23 22 43 77 00	N	00	4026-	5519	9545EX	3477	6068-	2649	214
SK 23 22 43 77 00	N	00	194178	10681	183497	50241	233738	38239	5925
SK 23 22 43 77 00	N	00	2857-	3137	5994EX	18536	12542	14111	1742

DESCRIPTION	STATUS	ACREAGE FACTOR	FEBRUARY		OVER/UNDER PRODUCTION ±	MARCH		APRIL	ACREAGE OR DELIVERABILITY
			BEGINNING NET ALLOWABLE ±	NCF PRODUCTION		CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±		
RESSELEER SH	EL DON		58865	11071	47794	22702	70496	17286	794
ROADFAN ED				17293					
HA 111111			44739-	26547	12866EX	7212	64074-	5494	248
21022111	N 100		109107	12032	97075	32650	129725	24851	5041
RESELEER NO	OIL								
DECEMBER 5	N 100		70626-	3608	1074234EX	7667	66567-	5840	308
SAGHERS OI	CORP								
SAGHERS 92	N 100		11696-	40338	52034EX	41289	10745-	31427	4744
SCHERMSER	OIL								
WOMER 22	N 100		11321	11321		14683	14683	14683	
WOMER 22	N 200		13213	55030	41817EX	41013	804-	31222	2002
SCOUT 22	TR								
SCOUT 22	N 200		16356		16356	14668	31024	11172	264
SCOUT 22	N 50		3655	4462	807EX	3326	2519	2533	173
SCOUT 22									
SCOUT 22	N 100		4821	17982	13161EX	29913	16752	22769	3243
SCOUT 22	N 100		19432-	16856	36288EX	25987	10301-	19781	2725
SCOUT 22	N 100		25302	7578	17724	15830	33554	12052	1385
SCOUT 22	N 100		12629-	14962	27591EX	9767	17824-	7437	585
SCOUT 22	N 75		11610-	969	12579EX	5879	6700-	4478	331
SCOUT 22	N 50		41550-	2390	1043940EX	6509	37431-	4956	1014
SCOUT 22	N 50								
SCOUT 22	N 50		2902-		2902EX	3470	568	2643	212
SCOUT 22	N 100		24807	2203	22604	6743	29347	5136	186
SCOUT 22	N 50		13960-	8520	22480EX	7267	15213-	5533	1215
SCOUT 22	N 75		496	496		1137	1137	1137	30
SCOUT 22	N 100		46404	4670	41734	12473	54207	9497	942
SCOUT 22	N 100		2989	4579	1590EX	8963	7373	6826	479
SCOUT 22	N 95		8852-	5523	14375EX	12911	1464-	9830	1090
SCOUT 22	N 50		17906-	5609	23515EX	8404	15111-	6398	1515

DESCRIPTION	STATUS	AGEAGE FACTOR	BEGINNING NET ALLOWABLE ±	FECHRUARY MCF PRODUCTION	OVER/UNDER PRODUCTION +	CURRENT ALLOWABLE	ENDING NET ALLOWABLE ±	APRIL NEW ALLOCATION	AGEAGE OR DELIVERABILITY
RA 2322537575	N	200	5319-	5235	10554EX	17942	7388	13664	480
RA 2322537575	N	175	125741	28468	97273	47540	144813	36187	2881
W 5516253375	N	175	181806	32631	149175	45312	194487	34492	2713
W 5516253375	N	175	636706	230484	406222	326628	732850	248590	10070
W 5516253375	N	198	82486	37409	45077	38095	83172	29000	1835
W 5516253375	N	198	40962	456	36506	13693	50199	10425	1103
W 5516253375	N	198	1203336	93822	114851	128996	27750	53209	2700
W 5516253375	N	198	16070-	4826	20896EX	13488	7408-	10270	1076
W 5516253375	N	198	52062-	4169	2056231EX	7440	48791-	5667	278
W 5516253375	N	198	40028	6790	33238	13617	46855	10368	1093
W 5516253375	N	198	18072-	2432	20504EX	7417	13087-	5649	275
W 5516253375	N	198	38559	9035	29524	9441	38965	7189	542
W 5516253375	N	198	56211	18348	37863	36204	74067	27556	4073
W 5516253375	N	198	2456067	1020201	435866	1286040	2721906	978901	
W 5516253375	N	198	4486	1555	2931	9403	12334	7161	537
W 5516253375	N	198	7445	2151	5294	3606	8900	2747	249
W 5516253375	N	198	189821-	3706	189821EX	13009	189821-	9908	
W 5516253375	N	198	177890-	3706	181596EX	13009	168587-	9908	
W 5516253375	N	198	2465	2465		2570	2570	2570	
W 5516253375	N	198	2773	13237	10464EX	17187	6723	13084	1564
W 5516253375	N	198	17887	34098	16211EX	39507	23296	30075	1827
W 5516253375	N	198	20660	47335	26675EX	56694	30019	43159	

**SUMMARY OF MONTHLY ALLOCATION AND
PRODUCTION FROM JAN. 1, 58 THRU JUNE 1960**

		DYER #3 MCF		JENKINS #1 MCF		LEGAL #2 MCF		E. OWEN #1 MCF		WATKINS #2 MCF	
	Allocation	Prod.	Allocation	Prod.	Allocation	Prod.	Allocation	Prod.	Allocation	Prod.	
Jan. 1958	21,556	12,293	21,556	15,264	21,556	15,406	10,778	17,925			
Feb.	21,105	11,616	21,105	12,719	21,105	13,501	10,552	13,928			
March	19,938	11,627	19,938	13,586	19,938	13,637	9,969	14,597			
April	14,944	10,044	14,944	10,868	14,944	9,550	7,472	9,580			
May	15,119	9,360	16,033	12,822	17,880	10,853	23,847	7,266			
June	15,119	11,830	16,033	14,162	17,880	13,934	8,568	3,187			
July	15,119	11,976	16,033	14,489	17,880	12,014	1,145	-0-			
Aug.	15,119	8,056	16,033	14,484	17,880	11,897	154	-0-			
Sept.	15,119	10,386	16,033	8,989	17,880	13,009	1,587	-0-			
Oct.	15,119	11,043	16,033	13,217	17,880	13,536	1,752	-0-			
Nov.	15,119	10,527	16,033	13,664	17,880	12,248	2,997	-0-			
Dec.	15,119	8,785	16,033	8,998	17,880	9,352	2,935	-0-			
Total 1958	198,495	127,543	205,807	153,262	220,583	147,937	81,756	66,483			
Jan. 1959	15,119	10,930	16,033	11,359	17,880	12,978	3,741	-0-	3,469	2,001	
Feb.	15,119	9,286	16,033	11,007	17,880	7,629	1,996	-0-	1,834	2,499	
March	15,119	10,229	16,033	10,828	17,880	12,560	1,968	1,364	1,822	51	
April	15,119	8,850	16,033	12,373	17,880	10,847	1,384	-0-	1,282	17	
May	15,119	8,460	16,033	11,751	17,880	7,991	319	-0-	295	244	
June	15,119	5,645	16,033	7,688	17,880	6,084	2,061	-0-	1,913	63	
July	10,192	6,412	13,702	9,863	14,033	10,138	5,707	-0-	3,728	112	
Aug.	3,305	4,710	4,442	4,812	4,549	8,702	1,851	-0-	1,209	1,866	
Sept.	5,312	5,059	7,133	6,760	7,304	8,894	2,973	-0-	1,940	4,582	
Oct.	6,001	4,671	8,035	3,149	8,226	13,256	3,354	43	2,184	308	
Nov.	6,691	663	8,970	1,534	9,185	13,238	3,742	852	2,439	4,688	
Dec.	8,469	151	11,387	2,188	11,662	14,201	4,742	3,338	3,098	6,501	
Total 1959	130,684	75,066	149,867	93,312	162,239	126,518	33,838	5,597	25,213	22,932	
Jan. 1960	4,294	1,398	5,778	501	5,917	11,804	2,405	1,034	1,572	9,642	
Feb.	2,542	3,752	3,422	11	3,505	11,013	1,424	1,539	931	6,849	
March	6,993	4,892	9,411	144	9,638	8,886	3,917	910	2,561	5,890	
April	5,326	3,434	7,166	150	7,339	2,286	2,983	89	1,950	2,165	
May	4,607	3,751	6,200	100	6,350	2,784	2,581	-0-	1,687	-0-	
June	3,416	6,566	4,591	970	4,702	7,086	1,912	-0-	1,249	-0-	
	27,178	23,793	36,568	1,876	37,451	43,859	15,222	3,572	9,950	24,546	
	356,357	226,402	392,242	248,450	420,273	318,314	130,816	75,652	35,163	60,351	

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NEW MEXICO OIL CONSERVATION COMMISSION

PURCHASER'S NOMINATIONS FOR CRUDE OIL - AUGUST, 1960

SOUTHEAST NEW MEXICO

Continental	15,000	+1,500	
Famariss	10		
Atlantic	4,515	+ 305	
Cactus	4,902	+ 281	
Cities Service	10,800		
Gulf	20,000	-1,000	
Mobil	22,690	- 925	
Phillips	2,100		
Shell	37,600	+2,900	
Indiana	52,000		
Sinclair	29,000		
Texaco	32,000		
Tidewater	3,500		
McWood	5,772	+1,633	*(920)
Permian	3,264	- 147	
Graridge	255	- 7	
High Lonesome	400		
Neil H. Wills	<u>464</u>	<u>+ 464</u>	**
TOTAL SOUTHEAST NEW MEXICO	244,272	+5,004	

NORTHWEST NEW MEXICO

McWood	348	+ 34	
El Paso	9,200	+300	
Shell	33,000		
Gulf	3,200	+100	
Oriental	275	+ 25	
Vanadium	<u>27</u>	<u> </u>	
TOTAL NORTHWEST NEW MEXICO	46,050	+459	
TOTAL NEW MEXICO	290,322	+5,463	

* Formerly Nominated By Mobil Oil Company

** Formerly Nominated By Continental Oil Company

Ho.

LEGAL #2
NE SE 31-25S-37E
Lea County, New Mexico

The Legal #2 is a Jalmat gas well produced with a free piston installation installed in March, 1958. This well was produced as a marginal well until the middle of 1959 when it was then reclassified as a non-marginal retroactive to July, 1958, and assessed with an over produced status of 77,837 mcf. This well's production was reduced some and each time the well was shut in or died it became more difficult to get it back on production.

This well, prior to the installation of the free piston, was averaging approx. 13,563 mcf per month. The latter month the production was dropping and the water encroachment was increasing, so the piston was installed. From March, 1958 to July, 1959 the well averaged 10,899 mcf. This average is lower than the approx. 9 months average prior to the piston installation because of the increasing water condition and pressure drop. From July, 1959, the well's production was restricted some, trying to determine a rate of flow in which the well would not log off, and its monthly average was 10,242 mcf.

In May, 1960, the well produced 2,784 mcf. 2,343 mcf's were produced from May 1st through 12th. The well was then shut in and same logged off. Approx. May 18, 1960, the well was allowed to produce unrestricted. The following is a daily summary of the well's activity.

- 5-23-60 Well was logged off. There was no production from May 12 to this date. The Oil Conservation Commission was notified of our plans to swab this well in.
- 5-24-60 Swab unit rigged up, fished piston and swabbed three hours. Free piston was allowed to run several times to air to unload fluid. Produced approx. 4 bbls. oil and 12 bbls. water. Piston setting was approx. 45 minutes on and 90 minutes off. Well produced approx. 97 mcf. Mr. L. A. Clements with the Oil Conservation Commission witnessed the above procedure. After the above swabbing, the unit was released and the well died approx. 3 times this day and was blown in each time. A continuous watch was kept on this well to see that same was not logged off for any period of time to avoid having to call a swab unit back. El Paso line pressure was approx. 173#, casing pressure was 225#.

Page Two, Legal #2

- 5-25-60 Well produced approx. 6 mcf. El Paso's line pressure was approx. 222#. The well was blown in approx. three times but would not take the line and unload the fluid.
- 5-26-60 Well produced approx. 75 mcf. Well was blown in twice and took the line for only a short period of time before it logged off. El Paso's line pressure was approx. 205#. Piston setting was set for 30 minutes on and 30 minutes off. Tubing pressure 220#.
- 5-27-60 Well produced approx. 20 mcf. Casing pressure was 250#, El Paso line pressure was approx. 118#. Approx. 14 bbls. fluid were produced, same being approx. 12 bbls. water and 2 bbls. oil. Well was logged off most of this day. Well was blown in twice unloading above fluid but would not take the line.
- 5-28-60 Well produced approx. 193 mcf gas with approx. 15 bbls. fluid (12 bbls. water and 3 bbls. oil). El Paso's line pressure was approx. 205#. Gas flow was weak and logged, at 3:30 p. m. well was blown in.
- 5-29-60 Well produced approx. 35 mcf gas, approx. 1 bbl. oil and 6 bbls. water. Well was blown in twice as piston was not running, but well would not take El Paso's line for any length of time. El Paso's line pressure was approx. 212#.
- 5-30-60 Well produced approx. 7 mcf gas, approx. 1 bbl. oil and approx. 10 bbls. water. Casing pressure 250#, tubing pressure 200# and El Paso's line pressure approx. 243#. Well was blown in to relieve fluid from formation but well would not take El Paso's line.
- 5-31-60 Well produced approx. 8 mcf, piston setting still approx. 30 minutes on, 30 minutes off. Well was blown in for 1 hour and 45 minutes to unload fluid. Shut in for 2 hours to build pressure, then turned into El Paso's line. Well would not buck El Paso's line pressure of approx. 212#.

From May 24, 1960 to June 1, 1960, well produced 441 mcf gas.

Page Three, Legal #2

- 6-1-60 Well produced approx. 29 mcf gas, approx. 2 bbls. oil and approx. 12 bbls. water. El Paso's line pressure approx. 192#. Free piston was not running, caught same and checked, found okay. Well too weak to take line, casing pressure 250#, well was blown in twice this day.
- 6-2-60 Well produced approx. 20 mcf. Well was blown in and produced approx. 1 bbl. oil and 6 bbls. water. El Paso's line pressure was approx. 205# average.
- 6-3-60 Well produced approx. 242 mcf with approx. 3 bbls. oil and 20 bbls. water. Well started out taking the line but was weak. El Paso's line pressure was approx. 179#. Well then started producing all right.
- 6-4-60 Well produced approx. 232 mcf. Water was not estimated. Well doing okay. El Paso's line pressure approx. 167#, casing pressure 250#.
- 6-5-60 Well produced approx. 260 mcf with approx. 3 bbls. oil and 20 bbls. water. Casing pressure 250#, El Paso line pressure approx. 158#.
- 6-6-60 Well produced approx. 265 mcf, approx. 3 bbls. oil and 20 bbls. water. Casing pressure 260#, El Paso's line pressure approx. 161#.
- 6-7-60 Well produced approx. 275 mcf, approx. 3 bbls. oil and 12 bbls. water. Casing pressure 260#, El Paso line pressure approx. 136#.
- 6-8-60 Well produced approx. 275 mcf with approx. 3 bbls. oil and 12 bbls. water. Casing pressure 260#, El Paso line pressure approx. 133#.
- From June 1, 1960 to June 9, 1960, well produced 1,598 mcf gas.
- 6-9-60 Well produced approx. 313 mcf with approx. 3 bbls. oil and 18 bbls. water. Casing pressure 250#, El Paso line pressure approx. 144#. Well still set approx. 30 minutes on and 30 minutes off.

Page Four, Legal #2

- 6-10-60 Well produced approx. 261 mcf with approx. 2 bbls. oil and 12 bbls. water. Casing pressure 240#, El Paso line pressure approx. 167#.
- 6-11-60 Well produced approx. 261 mcf with approx. 3 bbls. oil and 12 bbls. water. Casing pressure 240#, El Paso line pressure approx. 167#.
- 6-12-60 Well produced approx. 56 mcf with approx. 3 bbls. oil and 12 bbls. water. Casing pressure 200#. Blew well in twice but it would not take the line. El Paso's line pressure approx. 212#.
- 6-13-60 Well produced approx. 284 mcf. Casing pressure 220#. El Paso's line pressure approx. 176#.
- 6-14-60 Well produced approx. 309 mcf. Casing pressure 220#. El Paso's line pressure approx. 173#.
- 6-15-60 Well produced approx. 296 mcf with approx. 3 bbls. oil and 18 bbls. water. Casing pressure 230#. El Paso's line pressure approx. 176#.
- 6-16-60 Well produced approx. 292 mcf with approx. 2 bbls. oil and 12 bbls. water. Casing pressure 250#. El Paso's line pressure approx. 179#.
- From June 9th to June 17, 1960, well produced 2,074 mcf.
- 6-17-60 Well produced approx. 292 mcf. El Paso line pressure approx. 185#.
- 6-18-60 Well produced approx. 293 mcf, approx. 2 bbls. oil and 14 bbls. water. Casing pressure 250#. Blew well in one time to catch piston and check same. El Paso line pressure approx. 185#.
- 6-19-60 Well produced approx. 280 mcf, approx. 2 bbls. oil and 16 bbls. water. Casing pressure 250#. El Paso line pressure approx. 192#.

Page Five, Legal #2

6-20-60 Well produced approx. 257 mcf., approx. 2 bbls. oil and 18 bbls. water. Casing pressure 250#. El Paso line pressure approx. 185#. Well was blown in twice this day.

6-21-60 Well produced approx. 193 mcf, approx. 2 bbls. oil and 14 bbls. water. Casing pressure 250#.

6-22-60 Well produced approx. 286 mcf. Casing pressure 250#. El Paso line pressure approx. 176#. Gas Chart removed this date.

From June 17th to June 23, 1960, well produced 1601 mcf.

6-23-60 Well produced approx. 270 mcf, approx. 1 bbl. oil and 12 bbls. water. Casing pressure 250#, El Paso line pressure approx. 176#.

6-24-60 Well produced approx. 274 mcf. Blew well in as it was flowing weak. El Paso line pressure approx. 173#.

6-25-60 Well produced approx. 277 mcf, approx. 2 bbls. oil and 18 bbls. water. El Paso line pressure approx. 158#.

6-26-60 Well produced approx. 278 mcf, approx. 2 bbls. oil and 16 bbls. water. Blew well in once - El Paso line pressure approx. 161#.

6-27-60 Well produced approx. 100 mcf. El Paso line pressure approx. 231#.

6-28-60 Well produced approx. 110 mcf, approx. 1 bbl. oil and 16 bbls. water. Blew well in twice. El Paso line pressure approx. 225#.

6-29-60 Well produced approx. 241 mcf, approx. 1 bbl. oil and 16 bbls. water. El Paso line pressure approx. 185#. Line pressure dropped to approx. 155# allowing production to increase.

6-30-60 Well produced approx. 263 mcf, approx. 3 bbls. oil and 20 bbls. water. Casing pressure 250#. El Paso line pressure approx. 167#.

From June 23 to July 1, 1960, well produced 1,813 mcf.

DYER #3
SE NW 31-25S-37E
Lea Co. New Mexico

The Dyer #3 is a Jalmat gas well produced by a pump jack installed January 21, 1960. Prior to January 21st this well produced with a free piston installation which was installed in December 1956. This gas well had a water encroachment problem so great in 1956 that it was unable to produce naturally, consequently the free piston was installed. This procedure of producing worked satisfactorily for a long period of time. The well was reclassified in 1959 retroactive to July 1958 from a marginal well to a nonmarginal well and assessed with an over produced status of 63,666 mcf. Due to cut back in production the last half of 1959 the water encroachment became too great for the free piston, so the pump jack was installed to relieve the formation of the water and allow the gas to penetrate the well bore.

In 1958 and the first 6 months of 1959 this well averaged 10,052 mcf per month, after the cut back in July 1959 the well averaged 3,611 mcf per month for the last 6 months of 1959, dropping so badly in December 1959 it only produced 151 mcf. The pump jack was installed January 1960 and for the 4 months thereafter it averaged 3,957 mcf per month.

In May 1960 the well produced 3,751 mcf, 2,477 mcf up to May 11th when the well was shut down. The well was then allowed to produce unrestricted approximately May 18, 1960 and the following is a daily summary from the time the well was placed back on production.

- 5-23-60 The pump jack has been running and chart showed first production today. Well produced 89 mcf. El Paso line pressure approx. 164#.
- 5-24-60 Well produced approx. 185 mcf gas with a trace of oil and water was not gauged. Pump jack was running and producing water through tubing. Mr. L. A. Clements with Oil Conservation Commission took a look at this well on this date. El Paso line pressure approx. 159#.
- 5-25-60 Well produced approx. 140 mcf. El Paso line pressure up to approx. 227# average, line pressure was off the 250# chart for a short period and gas production dropped to -0-.

Page 2 - Dyer #3

- 5-26-60 Well produced approx. 210 mcf. gas and approx. 12 bbls water, pump jack was shut down part of this day. El Paso line pressure was approx. 199#.
- 5-27-60 Well produced approx. 190 mcf. gas, water amount not shown. El Paso line pressure approx. 194#.
- 5-28-60 Well produced approx. 140 mcf. gas, water amount not shown. El Paso line pressure approx. 199#.
- 5-29-60 Well produced approx. 110 mcf gas, pump jack was down and was started. El Paso line pressure approx. 208#.
- 5-30-60 Well produced approx. 30 mcf gas and 6 bbls water, pump jack pumped approx. 1/2 day. El Paso line pressure approx. 237# causing drop in production.
- 5-31-60 Well produced approx. 180 mcf gas and 12 bbls water. El Paso line pressure approx. 210#.

From May 23 through May 31 well produced 1,274 mcf.

- 6-1-60 Well produced approx. 212 mcf. gas and 12 bbls water and small amount of oil. Pump jack was shut down part of this day as pump had pumped off. El Paso line pressure approx. 185#.
- 6-2-60 Well produced approx. 175 mcf., well down approx. 4 hrs. due to El Paso line repair, pump jack down also. Line pressure up to approx. 237# for approx. 16 hours. then dropped to approx. 181#. Well showed increased production when line pressure dropped.
- 6-3-60 Well produced approx. 185 mcf. pump jack shut down. El Paso line pressure approx. 176#.
- 6-4-60 Well produced approx. 174 mcf., pump jack shut down. El Paso line pressure approx. 159#.
- 6-5-60 Well produced approx. 160 mcf. El Paso line pressure 151#.
- 6-6-60 Well produced approx. 106 mcf. El Paso line pressure approx. 159#.

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6-7-60 Well produced 300 mcf., pump jack running and El Paso line pressure approx. 132#.

6-8-60 Well produced approx. 308 mcf. El Paso line pressure approx. 130#. Pump jack shut down.

For the period June 1 to June 9, 1960 the well produced 1,620 mcf gas.

6-9-60 Well produced approx. 313 mcf, 2 bbls oil and 15 bbls. water. Casing pressure 125#. El Paso's line pressure was approx. 135#.

6-10-60 Well produced approx. 230 mcf. Casing pressure 210#, El Paso's line pressure approx. 155#. Line pressure caused drop in production.

6-11-60 Well produced approx. 192 mcf. Casing pressure 220#, El Paso's line pressure approx. 159#.

6-12-60 Well produced approx. 37 mcf, 2 bbls oil and 12 bbls water. Casing pressure 250#, El Paso's line pressure approx. 199#. Well would not buck line pressure most of this day. Pump jack was started.

6-13-60 Well produced approx. 158 mcf gas, 1 bbl oil and 6 bbls water. Casing pressure 220#. Pump jack found dead and started same. El Paso's line pressure approx. 155#.

6-14-60 Well produced approx. 288 mcf gas, approx. 2 bbls oil and 12 bbls water. Casing pressure 220#, El Paso's line pressure approx. 168#. Pump jack died about 2:00 p. m.

6-15-60 Well produced approx. 296 mcf gas. Casing pressure 225#. El Paso's line pressure approx. 168#.

6-16-60 Well produced approx. 272 mcf with approx 2 bbls oil and 12 bbls water. Casing pressure 230#. El Paso's line pressure approx. 159#.

From June 9 to June 17, 1960 well produced 1,786 mcf gas.

6-17-60 Well produced approx. 205 mcf, approx. 2 bbls oil and 12 bbls water. Casing pressure 230#. El Paso line pressure approx. 176#.

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- 6-18-60 Well produced approx. 261 mcf with a trace of oil and 12 bbls water. Casing pressure 250#, El Paso's line pressure approx. 176#. Pump jack running.
- 6-19-60 Well produced approx. 242 mcf, approx. 1 bbl oil and 12 bbls water. Casing pressure 240#, El Paso's line pressure approx. 181#.
- 6-20-60 Well produced approx. 238 mcf, approx. 1 bbl oil and 18 bbls water. Casing pressure 250#, El Paso's line pressure approx. 176#. Pump jack down, repairing stuffing box.
- 6-21-60 Well produced approx. 203 mcf, Casing pressure 240#. El Paso's line pressure approx. 176#.
- 6-22-60 Well produced approx. 257 mcf. El Paso line pressure approx. 165#. Pump jack running. The 8 day gas chart was removed today.

From June 17 to June 23 well produced 1,406 mcf.

- 6-23-60 Well produced approx. 248 mcf, approx. 2 bbls oil and 12 bbls water. Pump jack running. Casing pressure 250#. El Paso's line pressure approx. 168#.
- 6-24-60 Well produced approx. 242 mcf, No estimate on water. Pump jack shut down. Casing pressure 250#. El Paso's line pressure ranged from approx. 151# to 199#.
- 6-25-60 Well produced approx. 267 mcf. Approx 1 bbl oil and 12 bbls water. Pump jack shut down and repaired stuffing box. El Paso's line pressure approx. 149#.
- 6-26-60 Well produced approx. 257 mcf. Pump jack was started. El Paso's line pressure approx. 153#.
- 6-27-60 Well produced approx. 127 mcf. El Paso's line pressure approx. 227#. Pump jack running.
- 6-28-60 Well produced approx 141 mcf. Pump jack started. Casing pressure 250#. El Paso's line pressure approx. 217#.
- 6-29-60 Well produced approx. 226 mcf. Pump jack died during night. Casing pressure 250#. El Paso's line pressure approx. 181#. The line pressure varied this day dropping to approx 147# for part of the day.

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6-30-60 Well produced approx. 246 mcf. El Paso's line pressure approx. 159#. Pump jack not running.

Well produced 1,754 mcf from June 23 to July 1, 1960.

J. E. Smith

EVA OWEN #1
SW SW 21-25S-37E
Lea County, New Mexico

The Eva Owen #1 is a Jalmat gas well operated by a free piston installation installed in November, 1956. This installation was necessary to keep the well on a producing status as the water problem was too great for the well to flow naturally.

The first quarter of 1958 the well averaged 15,483 mcf per month. It averaged 11,080 mcf for the first half of 1958 at which time it was shut in by the Oil Conservation Commission for over production and was shut in until October, 1959. The well at this time was in balance and a considerable amount of time and expense was devoted to trying to bring the well back to a producing status. The water encroachment problem had become so great during its shut-in period that the well has not been restored to a producing status with the installation of the piston. In October, 1959, the well produced 43 mcf. In November, 1959, 852 mcf. In December, 1959, 3,338 mcf. In January, 1960, 1,034 mcf. In February, 1960, 1,539 mcf. In March, 1960, 910 mcf. April, 1960, 89 mcf and in May, 1960, production was -0-.

Approximately June 15, 1960, an extended effort was begun to bring the well to a producing status and the following is a summary of activity for this well. Prior to June 15, 1960, the well was blown in several times to see if same would take El Paso's line, but it would not do so.

- 6-15-60 The Oil Conservation Commission was notified and Mr. Clements witnessed the following work. Rigged up swab unit, fished piston, ran swab 3 times and flowed well to air for approx. 1 hour and well died. Pulled swab 1 time and well flowed approx. 45 minutes and died. Ran swab twice to kick well off. Well producing sulphur water, amount undetermined at this time. Casing pressure at 2:00 p. m. 280#.
- 6-16-60 Well producing approx. 40 bbls. water but unable to buck El Paso line. Casing pressure 500#, tubing pressure 300#. Intermitter set 1 hour on and 2 hours off. Well was blown at 8:30 a. m. and 4:30 p. m.
- 6-17-60 Well was blown in one time and vented to air to unload water but well logged off. Well produced approx. 40 bbls. water. Casing pressure 500#.

Page Two, Eva Owen #1

6-18-60 Well logged off and master valve shut in to build up pressure to blow well in. Casing pressure 500#.

6-19-60 Tried to blow well in but it did not respond.

6-20-60 Well logged off and will not respond to blowing in.

6-21-60 to 7-1-60 Well logged off.

JENKINS #1
SW SW 29-25S-37E
Lea County, New Mexico

The Jenkins #1 is a Jalmat gas well produced by a free piston installation installed October, 1956. This installation was necessary due to a water encroachment problem which would not allow the well to flow if it had been shut down for a short period of time. This well was producing under a marginal well allowable until June, 1959, when it was reclassified as a non-marginal retroactive to July, 1958, and assessed with an over produced status of 82,897 mcf.

This well produced in 1958 and to June 1959 an average of 12,387 mcf per month. The last half of 1959 the well's production was cut back and averaged 5,142 mcf per month. The water encroachment problem and cut back on production has caused the well's ability to produce to drop almost to zero. For the first five months of 1960 the well has produced an average of 181 mcf's per month.

Approximately May 18, 1960, the well was allowed to produce unrestricted and the following is a daily summary of the well's activity.

5-23 to 6-2-60 well was logged off. Several attempts were made to restore it to a producing status but were unsuccessful.

6-2-60 Pulled 2" tubing to sand pump and cleaned out well.
Mr. Joe D. Ramey was notified and witnessed the above.

6-3 to 6-7-60 Sand pumping well.

6-7-60 Ran 2" tubing and swabbed well.

6-8-60 Swabbing well.

6-9-60 Swabbed well - hooked up to intermitter and ran free piston several times. Well produced approx. 108 mcf, and a light show of oil with intermitter set approx. 30 minutes on and 30 minutes off. El Paso line pressure approx. 133#.

6-10-60 Well produced approx. 71 mcf gas, approx. 2 bbls. oil and 10 bbls. water. El Paso's line pressure approx. 150#, casing pressure 250#.

Page Two, Jenkins #1

- 6-11-60 Well produced approx. 51 mcf gas, approx. 3 bbls. oil and 12 bbls. water. El Paso's line pressure approx. 155#. Free piston was caught and checked as well, appeared weak against line pressure. Casing pressure 225#.
- 6-12-60 Well produced approx. 32 mcf gas, approx. 2 bbls. oil and 16 bbls. water. Well was blown in for 1 hour to unload water as piston was not running. El Paso's line pressure approx. 199#. Casing pressure 250#.
- 6-13-60 Well produced approx. 57 mcf gas, approx. 2 bbls. oil and 12 bbls. water. El Paso's line pressure approx. 155#. Well was blown in twice as well was weak. Casing pressure 200#.
- 6-14-60 Well produced approx. 46 mcf. gas, approx. 1 bbl. oil and 12 bbls. water. Well was blown in twice to keep from logging off. El Paso's line pressure approx. 161#, casing pressure 225#.
- 6-15-60 Well produced approx. 46 mcf gas with trace of oil and approx. 18 bbls. water. El Paso's line pressure approx. 161#. Mr. Clements with the Oil Conservation Commission was on location today. Blew well to air piston, came up with estimated 2 bbls. fluid, same being muddy with a trace of oil.
- 6-16-60 Well produced approx. 48 mcf gas, approx. 1 bbl. oil and 18 bbls. water. El Paso line pressure approx. 167#. Well was blown in once this day, casing pressure 250#.
- From June 9 to June 17 well produced 459 mcf.
- 6-17-60 Well produced approx. 44 mcf, approx. 1 bbl. oil and 16 bbls. water. Well was blown in once. Casing pressure 250#. El Paso's line pressure approx. 173#.
- 6-18-60 Well produced approx. 42 mcf, piston not running, blew in to unload fluid. Casing pressure 250#. El Paso's line pressure approx. 173#.

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- 6-19-60 Well produced approx. 52 mcf, approx. 1 bbl. oil and 16 bbls. water. Casing pressure 240#. El Paso's line pressure approx. 179#.
- 6-20-60 Well produced approx. 48 mcf with a trace of oil and 18 bbls. water. Casing pressure 250#. El Paso's line pressure approx. 173#. Piston not running so well was blown in to unload fluid.
- 6-21-60 Well produced approx. 48 mcf., approx. 1 bbl. oil and 12 bbls. water. El Paso line pressure approx. 173#.
- 6-22-60 Well produced approx. 46 mcf with a trace of oil. El Paso's line pressure approx. 161# and 8 day chart was pulled this day.

Gas produced from 6-17-60 to 6-23-60 - 280 mcf.

- 6-23-60 Well produced approx. 56 mcf, approx. 1 bbl. oil and 16 bbls. water. El Paso line pressure approx. 167#. Casing pressure 250#.
- 6-24-60 Well produced approx. 18 mcf. El Paso line pressure ranged from approx. 144# to 167#.
- 6-25-60 Well produced about 10 mcf. El Paso line pressure approx. 150#. Shut in by El Paso - choke valve leaking in meter run.
- 6-26-60 Well produced approx. 7 mcf. El Paso line pressure approx. 138#. Shut in by El Paso checking for leak in meter run.
- 6-27-60 Well produced 6 mcf. El Paso line pressure approx. 225#. Choke closed by El Paso for text.
- 6-28-60 Well produced 23 mcf. El Paso line pressure approx. 198#. El Paso opened choke. Well heavily loaded with water. Ran piston several times to unload fluid.
- 6-29-60 Well produced approx. 49 mcf., approx. 1 bbl. oil and 15 bbls. water. Casing pressure 400#. El Paso line pressure ranged from approx. 143 # to 222#.

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6-30-60 Well produced approx. 62 mcf. El Paso line pressure approx. 155#.

From June 23 to July 1, 1960, well produced 231 mcf.

WATKINS #2
SE NE 35-24S-36E
Lea County, New Mexico

The Watkins #2 is a Jalmat gas well completed in August, 1958, spaced on a 40 acre spacing. Well was connected to El Paso line November 7, 1958. For the balance of November and December, 1958 the well produced 21,876 mcf. Due to the low allowable, this well was shut in most of 1959, producing only a few days each month. The well averaged producing 1,911 mcf per month. During 1959 the water encroachment problem became so great the well would not unload the fluid naturally. The latter part of 1959 the well was producing approximately 200 to 250 barrels of water per producing day and had to be swabbed in each time it was shut in for any period of time.

Considerable study was given to this well to determine a minimum rate of flow at which the well would unload the fluid and not log off. On March 7, 1960, El Paso wrote two letters to Mr. Girand setting out various facts surrounding this well and that a minimum flow of 325 mcf per day would be required to keep the well from logging off. The casing pressure had dropped to 360# on March 31, 1960 where it had been 900# some months prior.

The wells production from January through May, 1960 ranged from 9,642 mcf in January to -0- in May. The latter part of May the Oil Conservation Commission was notified this well would be reworked to bring it back to a producing status. The following is a summary of this wells activity from May 23, 1960.

5-24-60 Set Baker plug at 2930' and perforated 3 sections.

5-26-60 Ran 2½" tubing with packer.

5-27-60 Set Halliburton packer at 2884, sand fracked with 3,000 gal., well sanded up, unable to swab. *Lower zone only.*

5-28-60 Freed swab, reverse circulated to bottom and rigged up to swab. *Perf. Baker plug were not squeezed*

5-29-60 Swabbed well in, well started to flow.

5-30-60 Flowed well in test tank, fluid 6 bbls. per hour, est. 95% water.

5-31-60 Well flowing in test tank 5 bbls. per hour, est. 98% water.

Page Two, Watkins #2

6-1-60 Well flowed an estimated 2 bbls. oil and 100 bbls. water in test tank - turned well into El Paso line.

6-2-60 to 6-14-60 Well logged off.

6-15-60 Rigged up swab unit. Found fluid in well 700' from top. Ran swab two times. Well flowing weak with large heads of water. Ran swab several more times and then started pulling tubing. This was witnessed by Mr. Clements with the Oil Conservation Commission.

6-16-60 Pulling tubing.

6-17-60 Tried to run Halliburton plug on line. Same would not go. Ran back in hole on tubing.

6-18-60 Set plug. Ran Halliburton R-3 packer for treating zone from 2850' to 2870'.

6-19-60 Stand by to treat well.

6-20-60 Swab tested zone from 2850' to 2870'.

6-21-60 Ran swab and recovered 300' sulphur water. Rig down unit.

6-22-60 Pulled tubing and packer to test zone 2810' to 2820'.

6-23-60 Plugged off bottom and swab tested zone 2810' to 2820'.

6-24-60 Swab tested. No gas.

6-25-60 Rigged down and moved swab unit.

6-26-60 to 7-1-60
Shut in pending additional rework.

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S. R. COOPER #1
SW SE NE Section 23-24-36E
Lea County, New Mexico

The S. R. Cooper #1 is a Jalmat gas well produced by free piston installed in the spring of 1958. Prior to this installation the well was re-completed in January 1955 by plugging back to 3127 feet, with a 4½ inch liner set from 3132 to 2733 feet. The well was perforated in the Yates from 3020 to 3104 and completed as a Jalmat gas well. The well was originally completed at 3160, being plugged from total depth of 3600. The 1955 recompletion was done in an effort to shut off water.

From September, 1958, through June, 1959, this well averaged 3,268 mcf per month. (For the period July, 1959, through April, 1960, after the cutback the well averaged 3,529 mcf per month.) During the same period it produced an average of 16 barrels of water per day for the first 10 months but, during the last 10 months after the well was required to be shut in much of the time, it increased in water to an average of 25 barrels per day. In May, 1960, the well made no gas the entire month, being shut in during said period.

In June, 1960, the well produced approximately as follows:

6/ 1/60: No production.
6/ 2/60: No production.
6/ 3/60: No production.
6/ 4/60: No production.
6/ 5/60: No production.
6/ 6/60: No production.
6/ 7/60: No production.
6/ 8/60: No production.
6/ 9/60: No production.
6/10/60: No production.
6/11/60: No production.

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6/12/60: No production.
6/13/60: No production.
6/14/60: No production.
6/15/60: No production.
6/16/60: Produced approx. 259 mcf gas, 16 barrels water, 1,000
orifice. Line pressure 169#. On approx. 22 hours.
6/17/60: Produced approx. 215 mcf gas, 25 barrels water, 1,000
orifice. Line pressure 169#. On 22 hours.
6/18/60: Produced approx. 201 mcf gas, 25 barrels water, 1,000
orifice. Line pressure 165#. Hours not shown.
6/19/60: Produced approx. 193 mcf gas, 16 barrels water, 1,000
orifice. Line pressure 113#. On approx. 22 hours.
6/20/60: Produced approx. 204 mcf gas, 25 barrels water, 1,000
orifice. Line pressure 112#. Hours not shown.
6/21/60: No production.
6/22/60: No production.
6/23/60: No production.
6/24/60: No production.
6/25/60: No production.
6/26/60: No production.
6/27/60: No production.
6/28/60: No production.
6/29/60: No production.
6/30/60: No production.

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El Paso shows this well produced 1,076 mcf gas during this period.

Since we do not have access at this time to the integrated charts of El Paso for the period subsequent to July 1, we must rely on the field reports, as follows:

- 7/1/60: Field shows 195 mcf gas, 25 barrels water, 1,000 orifice, 114# line pressure. Hours not shown.
- 7/2/60: Field shows 207 mcf gas, 23 barrels water, 1,000 orifice, 122# line pressure. Hours not shown.
- 7/3/60: Field shows 205 mcf gas, 17 barrels water, 1,000 orifice, 122# line pressure, produced approx. 20 hrs.
- 7/4/60: Field shows 205 mcf gas, 23 barrels water, 1,000 orifice, 120# line pressure, prod. approx. 22 hrs.
- 7/5/60: Field shows 137 mcf gas, 23 barrels water, 1,000 orifice, 107# line pressure, prod. approx. 22 hrs.
- 7/6/60: Field shows 196 mcf gas, 18 barrels water, 1,000 orifice, 112# line pressure, prod. approx. 19 hrs.
- 7/7/60: Field shows 215 mcf gas, 23 barrels water, 1,000 orifice, 114# line pressure, prod. approx. 22 hrs.
- 7/8/60: Field shows 197 mcf gas, 17 barrels water, 1,000 orifice, 116# line pressure, prod. approx. 22 hrs.
- El Paso shows total 7/1/60 to 7/8/60 as 1,597 mcf.

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WINNINGHAM #3
NE SR Section 30-255-375
Lea County, New Mexico

The Winningham #3 is a Jalmat gas well produced by pump jack installed September 23, 1959. Prior to this installation this well, due to the encroachment of water, produced with a free piston installation, installed subsequent to the time it was plugged back and recompleted in the Yates zone in September, 1954. Prior to plugging back, the well was completed, according to records in our files, through open hole from the bottom of liner at 3050 to 3075 feet.

The free piston installation was unsatisfactory for the reason it could not handle the volume of water necessary to be lifted to allow the gas to feed into El Paso's line. Therefore, the pump jack was installed in an effort to keep the well producing.

From September, 1958, through June, 1959, this well averaged 11,251 mcf per month. For the period July, 1959, through April, 1960 after the cutback the well averaged 5,798 mcf per month. During the same period, it produced an average of 7.5 barrels of water per day for the first 10 months but, during the last 10 months after the well was required to be shut in much of the time, it increased in water to an average of 30 barrels per day. In May the well made 1,295 mcf of gas for the entire month while producing 30 barrels of water per day or a total for the month of approximately 930 barrels.

Attached is the daily production record of the well.

[Signature]

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follows: In June 1960 the well produced approximately as

- 6/ 1/60: No production.
- 6/ 2/60: No production.
- 6/ 3/60: Produced 478 mcf (approximately) of gas, 30 barrels water, 1.250 orifice. Line pressure 170#.
- 6/ 4/60: Produced approx. 500 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 116#.
- 6/ 5/60: Produced approx. 505 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 116#.
- 6/ 6/60: Produced approx. 466 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 117#.
- 6/ 7/60: Produced approximately 562 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 114#.
- 6/ 8/60: Produced approx. 573 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 114#.
- 6/ 9/60: Produced approx. 534 mcf gas, 23 barrels water, 1.250 orifice. Line pressure 114#.
- 6/10/60: Produced approx. 506 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 115#.
- 6/11/60: No production.
- 6/13/60: No production.
- 6/14/60: No production.
- 6/15/60: No production.
- 6/16/60: No production.
- 6/17/60: No production.
- 6/18/60: No production.

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6/19/60: No production.
6/20/60: No production.
6/21/60: No production.
6/22/60: No production.
6/23/60: No production.
6/24/60: No production.
6/25/60: No production.
6/26/60: No production.
6/27/60: No production.
6/28/60: No production.
6/29/60: No production.

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6/30/60: Produced approx. 469 mcf gas, 26 barrels water, 1.250 orifice. Line pressure 114#.
7/ 1/60: Produced approx. 354 mcf gas, 30 barrels water, 1.250 orifice. Line pressure 116#.

El Paso shows this well produced 5027 mcf gas during this period.

For the month of July up to date, we are unable to ascertain the amounts produced from El Paso's integrated charts, as they are not yet available to us. However, we do have the reports from the field (being field calculations) as set out below:

7/ 2/60: Field shows 734 mcf gas, 30 barrels water, 1.250 orifice, line pressure 134#.
7/ 3/60: Field shows 735 mcf gas, 30 barrels water, 1.250 orifice, line pressure 138#.

- 7/4/60: Field shows 725 mcf gas, 30 barrels water, orifice 1.250, line pressure 134#.
- 7/5/60: Field shows 667 mcf gas, 30 barrels water, 1.250 orifice, line pressure 138#.
- 7/6/60: Field shows 462 mcf gas, 30 barrels water, 1.250 orifice, line pressure not shown.
- 7/7/60: Field shows 481 mcf gas, 30 barrels water, 1.250 orifice, line pressure 138#.
- 7/8/60: Field shows 490 mcf gas, 30 barrels water, 1.250 orifice, line pressure 138#.
- 7/9/60: Field shows 707 mcf gas, 30 barrels water, 1.250 orifice, line pressure 149#.
- El Paso shows total 7/2/60 to 7/9/60 as 4.148 mcf.

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**PROPOSED SPECIAL POOL RULES FOR JALMAT GAS POOL
TO PROVIDE FOR CLASSIFICATION OF DISTRESSED WELLS**

(All rules below will be added as amendments or additions to the Special Rules and Regulations for the Jalmat Gas Pool in Order R-1670.)

Rule 8 (A) 1:

The Pool Allowable remaining after deducting the total allowable assigned to marginal wells and distressed wells shall be allocated among the non-marginal wells in the Pool as follows:

Existing Rule 8 (A) 1 (a).

Rule 8 (A) 4:

No well except a distress well shall be assigned an allowable until a deliverability test has been filed with the Commission and approved.

Rule 10 (A):

A marginal well shall be assigned an allowable equal to its maximum production during any month of the preceding gas proration period. A distress well, as hereinafter defined, shall be allowed to produce the amount of gas necessary to maintain production under production methods approved by the Commission.

Rule 10 (B):

The Pool Allowable remaining after deducting the total allowable assigned to marginal wells and distress wells, shall be allocated among the non-marginal wells entitled to an allowable in the Jalmat Gas Pool.

Rule 15 (A):

A well classified as a distress well shall be exempt from the provisions of General Rule 15 (A).

Rule 20:

All wells not classified as marginal wells or distress wells shall be classified as non-marginal wells.

Rule 16 (C):

The Secretary-Director of the Commission may classify a well as a distress well without notice and hearing where application has been filed in due form and where the following facts exist and the following provisions are complied with:

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**Proposed Special Pool Rules for Joint Gas Pool
to Provide for Classification of Distressed Wells**
Page 1.

- 1) The operator shows that he has exercised due diligence and used all feasible means to maintain the well in a producible condition and *or restore*
 - a) The well is producing through artificial means with a free flowing *positive* piston or pump jack, or from other mechanical means, and the well is making water in such amounts as after a 72-hour shut-in period the well becomes logged off and is unable to be restored to production after being swabbed for not less than 24 hours; or
 - b) The operator shows that it is uneconomically feasible to utilize mechanical aids to maintain the well on production;
- 2) That all acreage belonging to the operator capable of being assigned to said well has been dedicated;
- 3) The operator must furnish to the Commission a report giving in detail all pertinent data with respect to the method employed by the operator in producing the well sought to be classified as a distress well, and such other and further information as the Commission may desire from time to time;
- 4) The applicant presents written consent in the form of waivers from all operators offsetting acreage dedicated to the proposed distressed well;
- 5) In lieu of 4) of this Rule, the applicant may furnish proof of the fact that said offset operators were notified by registered mail and furnished the same information as was furnished in their application to the Commission with respect to the proposed distress well. The Secretary-Director of the Commission may classify the well as a distress well if, after a period of twenty days following the mailing of said notice, no operator has made objection to the classification of the proposed distress well.

... is necessary
... Pressure line.
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LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
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