



BRUCE KING
GOVERNOR

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

September 18, 1991

KELLAHIN, KELLAHIN & AUBREY
Attorneys at Law
P. O. Drawer 2265
Santa Fe, New Mexico 87504

RE: CASE NO. 10356 and CASE NO. 10369
ORDER NO. R-4808-A

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

A handwritten signature in cursive script that reads "Florene'".

Florene Davidson
OC Staff Specialist

FD/sl

cc: BLM - Carlsbad
D. Currens
W. Carr

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
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SANTA FE, NEW MEXICO 87504
(505) 827-5800

MEMORANDUM

**TO: ALL PRODUCERS, PURCHASERS AND TRANSPORTERS OF
GAS FROM ALL PRORATED GAS POOLS IN NEW MEXICO**

FROM: WILLIAM J. LEMAY, DIRECTOR *WJL*

**SUBJECT: COMMISSION HEARING ON AUGUST 29, 1991, CONCERNING
PRORATED GAS ALLOWABLES FOR OCTOBER 1991 - MARCH 1992**

DATE: AUGUST 5, 1991

A Commission Hearing will be scheduled for August 29, 1991 for the purpose of receiving nominations and other testimony and information to assist the Commission in determining prorated gas allowables for the Oct. '91 through Mar. '92 allocation period. The assistance of all segments of the natural gas industry is needed in this process so you are urged to attend the hearing and participate.

The following information is being distributed along with this memo:

- o PRELIMINARY ALLOWABLE ESTIMATES FOR EACH POOL.
- o EXPLANATIONS FOR POOL ALLOWABLE ADJUSTMENTS
- o COMPARISON OF MONTHLY AVERAGE POOL ALLOWABLES, SALES, F1 AND F2 FACTORS.
- o COMPARISON OF APRIL AND MAY, 1991 SALES VOLUMES TO ALLOWABLES.
- o REQUESTED FORMAT FOR NOMINATIONS - FORM C-121-A.

Nominations may be submitted prior to or at the August 29 Hearing. Nominations and other information presented at the hearing will be used to revise the preliminary allowables and assign final allowables for the allocation period.

dr/

ALTONA PENN	BLINEBRY	BUFFALO	BURTON FLAT	CARLSBAD	CATCLAW	EUMONT	INDIAN BASIN	INDIAN BASIN	JALMAT	JUSTIS GL	TUBB
		VALLEY PENN	MORROW	MORROW	DRAM	MORROW	MORROW	UPPER PENN			

OCT 91-MAR 92 F1 FACTORS FOR OTHER PROCS
BURTON FLAT STRAWN F1-10,000
MONUMENT MCKEE ELLEN F1-25,000

PRELIMINARY ALLOWABLE ESTIMATES
MARKET DEMAND AND ALLOWABLE DETERMINATION SCHEDULE
FOR OCT 91 THRU MAR 92
PRORATED GAS POOLS - NORTHWEST NEW MEXICO

BASIN	BLANCO	BLANCO	TAPACITO
DALOTA	MESAVERDE	P.C. SOUTH	
8,039,435	14,122,492	1,204,658	207,577

(1) AVERAGE MONTHLY POOL SALES
OCT 90-MAR 91
ALL VOL'S ARE IN MCF

(2) TOTAL MONTHLY VOLUMES
AVERAGE MONTHLY VOLUMES

(3) ADJUSTMENTS

46,000

(4) MONTHLY POOL ALLOWABLE
OCT 91-MAR 92
(LINE 1 + LINE 3)

8,039,435 14,168,492 1,204,658 207,577

(5) MONTHLY MARGINAL
POOL ALLOWABLE FOR
OCT 91-MAR 92

4,228,404 6,687,524 515,461 82,453

(6) MONTHLY NON-MARGINAL
POOL ALLOWABLE
OCT 91-MAR 92
(LINE 4 MINUS LINE 5)

3,811,031 7,480,968 725,197 125,124

(7) NUMBER OF NON-MARGINAL
ACREAGE FACTORS

433.65 599.93 456.61 91.74

(8) NUMBER OF NON-MARGINAL
ACREAGE & DELIVERABILITY
FACTORS

205,993 434,101 27,355 9,277

(9) MONTHLY ACREAGE ALLOCATION
FACTOR FOR OCT 91-MAR 92, F1

5,273 3,117 397 341

(10) MONTHLY ACREAGE & DELIV
ALLOCATION FACTOR FOR
OCT 91-MAR 92, F2

7.40 12.92 19.88 10.12

EXPLANATION FOR POOL ALLOWABLE ADJUSTMENTS

Prorated Gas Pools - Oct '91-Mar '92

<u>POOL</u>	<u>ADJUSTMENT MCF PER MONTH</u>	<u>REASON FOR ADJUSTMENT</u>
Atoka Penn	27,000	Overproduction
Blinebry	73,000	"
Carlsbad Morrow	72,000	Overproduction and Recent Production Volumes
Catchlaw Draw	14,000	Overproduction
Eumont	96,253	Minimum Allowable
Indian Basin Morrow	27,000	Overproduction
Indian Basin Upper Penn	188,000	"
Jalmat	340,391	Minimum Allowable
Justis	6,000	Recent Production
Tubb	60,000	" "
Blanco Mesaverde	48,000	Overproduction

Monthly Marginal Pool Allowables for Oct '91-Mar '92 are estimated based on Apr and May, 1991 Pool Sales Volumes.

COMPARISON OF MONTHLY AVERAGE
FOUL ALLOWABLES, SALES, F1 AND F2 FACTORS

PERIOD	ATOKA PENN	BLINEBRY	HUFFALL VALLEY PENN	HURTON FLAT MURKUM	CARLSBAD MURKUM	CATLAW DRAW
OCT 89-MAR 90						
FOUL ALLOWABLE; MCF PER MO	90,502	584,153	226,422	507,581	333,609	231,865
FOUL SALES; MCF PER MO	88,473	445,221	207,301	392,388	256,256	126,029
F1	10,193	23,478	33,319	18,931	34,790	31,079
OCT 90-MAR 91						
FOUL ALLOWABLE; MCF PER MO	100,273	441,816	239,674	544,365	200,077	146,514
FOUL SALES; MCF PER MO	113,402	409,780	203,184	424,022	221,417	136,500
F1	17,180	21,879	33,489	39,884	10,517	21,757
OCT 91-MAR 92						
FOUL ALLOWABLE; MCF PER MO	140,402	482,780	203,184	424,022	293,417	150,500
FOUL SALES; MCF PER MO	32,099	29,983	42,219	34,938	20,015	29,106
F1						
PERIOD	ELMONT	IND. BASIN MURKUM	IND. BASIN UPPER PENN	JALMAT	JUSTIS GLORIETA	TURB
OCT 89-MAR 90						
FOUL ALLOWABLE; MCF PER MO	2,279,715	90,717	3,187,359	775,942	57,744	338,032
FOUL SALES; MCF PER MO	1,779,169	78,548	3,052,361	855,488	60,222	289,732
F1	13,965	47,191	132,760	7,184	3,575	8,383
OCT 90-MAR 91						
FOUL ALLOWABLE; MCF PER MO	2,234,375	209,172	3,431,660	973,904	46,147	236,501
FOUL SALES; MCF PER MO	2,315,225	204,393	3,372,080	905,099	39,437	213,916
F1	16,991	159,687	173,285	13,912	3,541	10,127
OCT 91-MAR 92						
FOUL ALLOWABLE; MCF PER MO	2,411,178	231,393	3,560,080	1,245,490	45,437	273,916
FOUL SALES; MCF PER MO	18,300	181,565	185,431	18,300	3,486	10,087
F1						
PERIOD	BASIN DAKOTA	BLANCO MESAVERT	BLANCO P.C. SOUTH	TAFACITO		
OCT 89-MAR 90						
FOUL ALLOWABLE; MCF PER MO	12,242,569	16,894,172	1,797,464	449,567		
FOUL SALES; MCF PER MO	10,302,401	14,990,087	1,115,864	318,270		
F1	4,528	2,629	375	488		
F2	8.14	13.44	17.16	19.14		
OCT 90-MAR 91						
FOUL ALLOWABLE; MCF PER MO	9,416,739	15,731,709	1,508,811	332,221		
FOUL SALES; MCF PER MO	8,039,435	14,122,492	1,204,658	207,577		
F1	5,676	3,690	483	546		
F2	7.83	15.78	23.18	17.07		
OCT 91-MAR 92						
FOUL ALLOWABLE; MCF PER MO	8,039,435	14,168,492	1,204,658	207,577		
FOUL SALES; MCF PER MO	5,273	3,117	397	341		
F1	7.40	12.92	19.88	10.12		
F2						

**COMPARISON OF APRIL AND MAY 1991 SALES VOLUMES
AND ALLOWABLES; MCF PER MONTH**

NEW MEXICO PRORATED GAS SALES

<u>POOL</u>	<u>APR-SEP 1991 MONTHLY ALLOWABLE</u>	<u>AVG. MONTHLY SALES APR.-MAY, 1991</u>
Atoka Penn	107,414	101,987
Blinebry	368,926	423,780
Buffalo Valley Penn	221,054	151,296
Burton Flat Morrow	481,903	303,122
Carlsbad Morrow	252,146	252,452
Catclaw Draw Morrow	161,064	102,195
Eumont	2,278,783	2,112,369
Indian Basin Morrow	144,974	167,651
Indian Basin Upper Penn	3,166,408	3,231,461
Jalmat	1,148,663	1,091,336
Justis Glorieta	43,021	44,499
Tubb	266,658	245,611
Basin Dakota	8,552,554	6,359,286
Blanco Mesaverde	13,546,300	13,862,223
Blanco P.C. South	1,242,564	991,596
Tapacito	234,518	177,580

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-121-A
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

PURCHASER'S GAS NOMINATIONS

COMPANY Name of Purchaser or Transporter	ADDRESS Address of Purchaser or Transporter
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In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, the above named company herewith submits its nominations for the purchase of gas from the Pool Name*

Pool for the month shown below: (insert in appropriate month)

MONTH	YEAR	NOMINATION, MCF
APRIL		
MAY		
JUNE		
JULY		
AUGUST		
SEPTEMBER		
OCTOBER	1991	30,000
NOVEMBER	1991	30,000
DECEMBER	1991	40,000
JANUARY	1992	40,000
FEBRUARY	1992	30,000
MARCH	1992	30,000

NOTE: All Volumes are to be MCF at 15.025 psia and 60° F.

Signature	Printed Name & Title	Date	Telephone No.
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FILING INSTRUCTIONS: One copy of this form must be filed with the Santa Fe Office of the Division by the first day of the month during which the nominations are to be considered at public hearing.

*Please file a separate form for each pool for which a nomination is made.

CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
ANNIE-LAURIE COOGAN

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043

July 30, 1991

HAND-DELIVERED

William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87503

RECEIVED

JUL 30 1991
OIL CONSERVATION DIV.
SANTA FE

Re: Oil Conservation Division Case No. 10369:
Application of ARCO Oil & Gas Company for an Order Concerning its
Empire-Abo Pressure Maintenance Project and the OXY USA, Inc. Citgo
Empire-Abo Pressure Maintenance Project and to Amend Division Order No.
R-4808, Eddy County, New Mexico

Dear Mr. LeMay:

ARCO Oil & Gas Company hereby requests that the above-referenced case scheduled for hearing before a Division Examiner on August 8, 1991 be continued to the August 22, 1991 Examiner docket.

Your attention to this request is appreciated.

Very truly yours,

WILLIAM F. CARR

WFC:mlh

cc: Mr. Gary Smallwood
W. Thomas Kellahin, Esq.

CAMPBELL & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
WILLIAM P. SLATTERY
ANNIE-LAURIE COOGAN

OIL CONSERVATION DIVISION
RECEIVED
JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
TELECOPIER: (505) 983-6043
ST JUL 12 PM 3 03

July 12, 1991

HAND-DELIVERED

10369

Mr. William J. LeMay, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
State Land Office Building
Santa Fe, New Mexico 87501

Re: **Application of ARCO Oil & Gas Company Concerning its Empire-Abo Pressure Maintenance Project (Order No. R-4549) and the OXY U.S.A., Inc. Citgo Empire-Abo Pressure Maintenance Project (Order No. R-4808) and for Amendment of Order No. R-4808, Eddy County, New Mexico.**

Dear Mr. LeMay:

On June 5, 1991 representatives of ARCO Oil & Gas Company and OXY U.S.A. Inc. met with you and other representatives of the Division concerning the current overproduced status of the Citgo Empire-Abo Unit. At that time, OXY raised certain questions about ARCO's operation of the Empire-Abo Unit. After lengthy discussion it was agreed that OXY file an application requesting a hearing in which the parties could appear and present testimony on the production status of each unit and seeks such rule changes as are necessary to assure future operations of each unit will not impair the correlative rights of other operators or cause waste of hydrocarbons.

I am in receipt of OXY's Application dated July 1, 1991 which was filed pursuant to that meeting. With this application OXY seeks a number of retroactive changes in the rules governing its operation of the Citgo Unit and asks the Division to amend the order governing operations of the ARCO operated Empire-Abo Unit to abolish the gas bank created therein. In essence, what originated as a problem with overproduction in the Citgo Unit is now before the Division at OXY's request to forgive overproduction which results from its failure to ever comply with Division orders and to abolish the gas bank in the Empire-Abo Unit which is the result of ARCO's compliance with the order governing its operation. All of this, according to OXY, is to maintain "equity" between the Empire-Abo Unit and the Citgo Empire-Abo Unit.

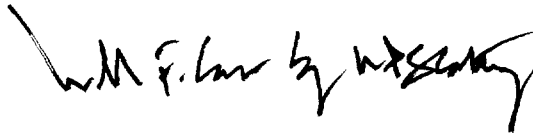
William J. LeMay, Director
July 12, 1991
Page 2

ARCO believes that the application of OXY is too narrow for it fails to place before the Division the relief which ARCO seeks. ARCO only asks for (1) a determination that OXY has overproduced the Citgo Unit and must comply with the orders that govern and have governed its operation since 1974 and (2) amendment of Order No. R-4808 to establish rules that assure that future production from the Citgo Unit is limited to a rate equal to the reservoir voidage occurring in the Empire-Abo Unit.

Enclosed is ARCO's Application which presents these matters to the Division. We request that this application be set for hearing before Division Examiner on August 8, 1991. ARCO also requests that OXY's Application be continued from July 25, 1991 hearing date to August 8, 1991 and that the cases be consolidated for hearing at that time.

Your attention to this request is appreciated.

Very truly yours,

A handwritten signature in black ink, appearing to read "William F. Carr by [unclear]", written in a cursive style.

WILLIAM F. CARR

WFC:mtb
Enclosure
cc: W. Thomas Kellahin



OIL CONSERVATION DIVISION
RECEIVED

OXY USA INC.

Box 50250, Midland, TX 79710

101 SEP 9 1991
September 3, 1991

Mr. Jim H. Morrow
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504

Re: Case No. 10356 - Application of OXY USA, Inc.
for an order affecting the Citgo Empire Abo
Unit Pressure Maintenance Project, Eddy County,
New Mexico.

Dear Mr. Morrow:

During the hearing of Case No. 10356 on August 23, 1991, you requested that OXY USA, Inc. provide you with updated reservoir voidage calculations for the Citgo Empire Abo Unit. In your request, you asked that OXY update their spreadsheet to the current month, and that we present a spreadsheet utilizing Arco's pressures and the correct start date of the unit (June 1975). Enclosed you will find the two spreadsheets that you requested and an additional one which uses the correct start date and Arco's pressures corrected from psig to psia. It should be noted that during the hearing I stated that using Arco's pressure and the correct start date, Oxy was underproduced 387,536 reservoir barrels. This statement was based on the yearly data supplied in Arco's exhibit book. Later in the hearing, Arco supplied their data in monthly form (OXY Exhibit 14) which was used in the preparation of the enclosed spreadsheets. As a summary of the spreadsheets, a table is included on the following page to summarize the information on these three spreadsheets. If you should have any questions, please feel free to call me at (915) 685-5825.

Sincerely,

Scott E. Gengler
Engineering Advisor
Western Region

cc: Tom Kellahin, Santa Fe, NM
Bill Carr, Santa Fe, NM
Rick Foppiano

attachments

September 3, 1991

Page 2

	June 75 to Mar 88 (RVB)	June 75 to Dec 90 (RVB)	June 75 to Jul 91 (RVB)
Res. Void. using OXY's pressures	929267	1021946	1103018
Res. Void. using Arco's pressures	640386	597495	655768
Converting Arco's pressures to psia	788338	794582	858268

ARCO Oil and Gas Company ◆

Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200

September 7, 1991

Attention: Mr. James H. Morrow
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

RECEIVED

SEP 09 1991

Re: Case No. 10356
OXY Operated
Citgo Empire Abo Unit

OIL CONSERVATION DIVISION

Dear Mr. Morrow,

During the hearing of Case No. 10356 on August 23, 1991 you requested that Arco provide you with supporting information regarding our gas bank. Specifically, you requested that we supply our application requesting approval to bank gas in the manner in which we do today. I have included as Attachments 1, 2 and 3 our response to your request.

Attachment 1 is the approval letter from the NMOCD dated January 21, 1988. Attachment 1 was submitted at the August 23 hearing as OXY Exhibit No. 15. Attachment 2 is a letter from J. T. Lowder of Arco requesting written approval from the NMOCD. Attachment 2 is dated October 14, 1987. Attachment 2 indicates that a previous letter of March 26, 1987 documents our bank accumulation request. The March 26 letter is included as Attachment 3. It clearly shows the old method and the proposed new method for bank accumulation in the attached tables.

You also requested that Arco update their voidage calculations for the Citgo Unit to include current 1991 production data. Attachment 4 is our calculation of the voidage and overage/underage status of the Citgo Unit. The calculation uses the correct start date of June 11, 1974. Attachment 4 includes nine pages of spreadsheet and a one page cover sheet. The cover sheet labels and identifies the columns in the spreadsheet. The spreadsheet indicates the Citgo Unit is overproduced by **799,729 RVB** as of July 1991.

I have also included a spreadsheet that uses a start date of June 1975. This spreadsheet is Attachment 5. It is the same as Attachment 4 except it does not have yearly totals marked on it. Attachment 5 indicates the Citgo Unit is overproduced by **799,729 RVB**. As I indicated at the hearing the cumulative overage **did not change** because we had been showing the unit in a balanced status in 1987.

We have received the OXY USA, Inc. reply to you dated September 3, 1991. In their letter they summarize their spreadsheets with a table on page 2. The table is **incorrect**. I have reproduced the table on the next page and marked out the **wrong numbers with red ink**.

Incorrect Table from OXY Letter Dated September 3, 1991

	June 75 to Mar 88 (RVB)	June 75 to Dec 90 (RVB)	June 75 to Jul 91 (RVB)
Res. Void. using OXY's pressures	929267	1021946	1103018
Res. Void. using Arco's pressures	640386	597495	655768
Converting Arco's pressures to psia	788338	794582	858268

OXY Table corrected using OXY spreadsheets

	June 75 to Mar 88	June 75 to Dec 90	June 75 to Jul 91
Res. Void using OXY's press.	9,423,142	11,554,526	11,953,675
Res. Void. using Arco's press.	9,712,024	11,978,976	12,400,924
Converting Arco press to psia	9,564,070	11,781,891	12,198,426
Res. Void/Oxy monthly letters	8,958,104	10,984,011	11,403,181

I have attached copies of the OXY spreadsheets submitted to you in the September 3, 1991 letter. The three spreadsheets are grouped as Attachment 6. Included with them is the adding machine tape showing which numbers were added and the correct totals.

OXY has also submitted **incorrect totals for overage accumulation**. This appears to be because they **did not** calculate reservoir voidage balance gas after September 1987 and therefore **did not** properly consider the gas bank status.

Thank you very much for allowing us the time and opportunity for presenting our case in such a professional manner. Please call if you have any questions, my work phone is 800-373-2720 ext. 5359 and my home phone is 915-699-5608.

Sincerely,

Gary B Smallwood
 Gary B. Smallwood
 Sr. Engineer

xc: W. Thomas Kellahin, Santa Fe, NM
 William F. Carr, Santa Fe, NM

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

January 21, 1988

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800Arco Oil & Gas Company
P. O. Box 1610
Midland, Texas 79702

Attention: Jack Lowden

Re: Empire Abo Unit,
Order No. R-4549-F
Gas Bank Balance

Dear Mr. Lowden:

In response to your letter of October 14, 1987, it is satisfactory for you to accumulate gas underproduction in your gas bank. While accumulation since April, 1984 through July, 1987 is nearly 3 billion cubic feet and probably far more than you will ever need, it is our desire, and yours, that oil production not be curtailed so long as there is no question of waste or impairment of correlative rights.

Sincerely,

A handwritten signature in dark ink, appearing to read "William J. Lemay".
WILLIAM J. LEMAY,
Director

VTL/WJL/dr

cc: Mike Williams, Artesia
Harold Garcia, Santa Fe

EMPIRE ABO UNIT
GAS BANK BALANCE

MONTH	GAS PRODUCED (MCF)	ALLOWABLE @ 65 MMCFD (MCF)	MONTHLY UNDER/(OVER) ALLOWABLE (MCF)	CUMULATIVE UNDER/(OVER) ALLOWABLE (MCF)	GAS BANK BALANCE (MCF)
4/84	1798318	1950000	151682	-	325000
5	1893118	2015000	121882	121882	446882
6	1744697	1950000	205303	327185	652185
7	1752642	2015000	262358	589543	914543
8	1712006	2015000	302994	892537	1217537
9	1686617	1950000	263383	1155920	1480920
10	1909558	2015000	105442	1261362	1586362
11	1850728	1950000	99272	1360634	1685634
12	1973394	2015000	41606	1402240	1727240
1/85	1915830	2015000	99170	1501410	1826410
2	1737635	1820000	82365	1583775	1908775
3	1907564	2015000	107436	1691211	2016211
4	1878389	1950000	71611	1762822	2087822
5	1989462	2015000	25538	1788360	2113360
6	1981217	1950000	-31217	1757143	2082143
7	2050138	2015000	-35138	1722005	2047005
8	1949042	2015000	65958	1787963	2112963
9	1876481	1950000	73519	1861482	2186482
10	2012658	2015000	2342	1863824	2188824
11	1826204	1950000	123796	1987620	2312620
12	2068120	2015000	-53120	1934500	2259500
1/86	2018243	2015000	-3243	1931257	2256257
2	1870624	1820000	-50624	1880633	2205633
3	2035629	2015000	-20629	1860004	2185004
4	1988752	1950000	-38752	1821252	2146252
5	1957124	2015000	57876	1879128	2204128
6	1893751	1950000	56249	1935377	2260377
7	2008252	2015000	6748	1942125	2267125
8	1902732	2015000	112268	2054393	2379393
9	1805272	1950000	144728	2199121	2524121
10	1963610	2015000	51390	2250511	2575511
11	1986705	1950000	-36705	2213806	2538806
12	2129837	2015000	-114837	2098969	2423969
1/87	2126796	2015000	-111796	1987173	2312173
2	1822464	1820000	-2464	1984709	2309709
3	1951847	2015000	63153	2047862	2372862
4	1953825	1950000	-3825	2044037	2369037
5	2029383	2015000	-14383	2029654	2354654
6	1779323	1950000	170677	2200331	2525331
7	1651924	2015000	363076	2563407	2888407
8	1703028	2015000	311972	2875379	3200379
9	1813608	1950000	136392	3011771	3336771
10	1939216	2015000	75784	3087555	3412555
11	1890606	1950000	59394	3146949	3471949
12	1834897	2015000	180103	3327052	3652052

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



October 14, 1987

Mr. William J. LeMay
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. LeMay:

Empire Abo Unit
Order No. R-4549-F
Gas Bank Balance

ARCO Oil and Gas Company revised the method used to calculate the Empire Abo Unit (EAU) gas bank balance after a verbal clarification of Rule 5, Paragraph 2 of NMOC Order No. R-4549-F was obtained from Mr. Harold Garcia in March, 1987. The clarification allowed ARCO to include cumulative gas underproduction in the EAU gas bank balance. In order to complete our records, ARCO respectfully requests your written approval to continue including cumulative gas underproduction in the EAU gas bank balance. The clarification of the EAU gas allowable and its effect on the gas bank balance was previously documented in the attached letter from J. T. Lowder to Mr. William J. LeMay dated March 26, 1987.

The monthly EAU gas underproduction and overproduction since the effective date of Order No. R-4549-F is attached.

Yours very truly,

Jack T. Lowder

Jack T. Lowder
Senior Engineer

JTL:jee

Attachments

APPROVED BY: _____

DATE: _____

Director
Energy and Minerals Department
Oil Conservation Division
State of New Mexico

ARCO Oil and Gas Company
Permian District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 684 0100



March 26, 1987

Mr. William J. LeMay
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. LeMay:

Empire Abo Unit
Order No. R-4549-F
Clarification of Gas Bank Allowance

ARCO Oil and Gas Company, the operator of the Empire Abo Pressure Maintenance Project, requested a clarification of Rule 5, Paragraph 2 of NMOCD Order No. R-4549-F regarding the gas bank allowance. Based on a telephone conversation with Mr. Harold Garcia on March 25, 1987, I was informed that ARCO has obtained administrative approval to include cumulative gas underproduction as well as gas overproduction in the Empire Abo Unit gas bank allowance.

NMOCD Order No. R-4549-F established a maximum daily project allowable for the Empire Abo Pressure Maintenance Project on April 20, 1984. The allowable is based on the amount of oil which will result in monthly average associated gas production of no more than 65 MMCF per day. Rule 5, Paragraph 2 of Order No. R-4549-F states "The allowable assigned shall result in production of casinghead gas averaging not more than 65 MMCF per day for the month, provided however, that on a cumulative basis, the unit operator may carry gas overproduction of 325 MMCF."

The monthly gas underproduction and overproduction for the Empire Abo Unit since the effective date of NMOCD Order No. R-4549-F is attached. Please notify me at (915) 688-5557 if there are any modifications in this decision.

Yours very truly,

Jack T. Lowder
Senior Engineer

JTL:sc
Attachments

cc: Mr. Harold Garcia
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

cc: Mr. L. A. Clements
NMOCD
P. O. Drawer DD
Artesia, New Mexico 88210

EMPIRE ABO UNIT
GAS BANK BALANCE

MONTH	GAS PRODUCED (MCF)	ALLOWABLE @ 65 MMCFD (MCF)	MONTHLY UNDER/(OVER) ALLOWABLE (MCF)	CUMULATIVE UNDER/(OVER) ALLOWABLE (MCF)	GAS BANK BALANCE (MCF)
4/84	1798318	1950000	151682	-	325000
5	1893118	2015000	121882	121882	446882
6	1744697	1950000	205303	327185	652185
7	1752642	2015000	262358	589543	914543
8	1712006	2015000	302994	892537	1217537
9	1686617	1950000	263383	1155920	1480920
10	1909558	2015000	105442	1261362	1586362
11	1850728	1950000	99272	1360634	1685634
12	1973394	2015000	41606	1402240	1727240
1/85	1915830	2015000	99170	1501410	1826410
2	1737635	1820000	82365	1583775	1908775
3	1907564	2015000	107436	1691211	2016211
4	1878389	1950000	71611	1762822	2087822
5	1989462	2015000	25538	1788360	2113360
6	1981217	1950000	-31217	1757143	2082143
7	2050138	2015000	-35138	1722005	2047005
8	1949042	2015000	65958	1787963	2112963
9	1876481	1950000	73519	1861482	2186482
10	2012658	2015000	2342	1863824	2188824
11	1826204	1950000	123796	1987620	2312620
12	2068120	2015000	-53120	1934500	2259500
1/86	2018243	2015000	-3243	1931257	2256257
2	1870624	1820000	-50624	1880633	2205633
3	2035629	2015000	-20629	1860004	2185004
4	1988752	1950000	-38752	1821252	2146252
5	1957124	2015000	57876	1879128	2204128
6	1893751	1950000	56249	1935377	2260377
7	2008252	2015000	6748	1942125	2267125
8	1902732	2015000	112268	2054393	2379393
9	1805272	1950000	144728	2199121	2524121
10	1963610	2015000	51390	2250511	2575511
11	1986705	1950000	-36705	2213806	2538806
12	2129837	2015000	-114837	2098969	2423969
1/87	2126796	2015000	-111796	1987173	2312173
2	1822464	1820000	-2464	1984709	2309709

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 8060
Order No. R-4549-F

APPLICATION OF ARCO OIL & GAS
COMPANY FOR AMENDMENT OF ORDER
NO. R-4549, AS AMENDED, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:00 a.m. on February 1, 1984, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of April, 1984, the Division Director having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Arco Oil & Gas Company, is the operator of the Empire-Abo Pressure Maintenance Project, Empire-Abo Pool, Eddy County, New Mexico, which project was authorized by Division Order No. R-4549 and is governed by operating rules contained in the Special Rules and Regulations for the Empire-Abo Pressure Maintenance Project included in said Order as amended by Orders Nos. R-4549-A through R-4549-E.
- (3) That said special rules and regulations provide for well allowables based upon reservoir voidage.
- (4) That the applicant seeks the rescission of such rules for setting allowables and the establishment of a maximum daily project allowable of 65 MMCFD.
- (5) That the evidence presented in this case established that this proposed method of setting allowables will result in the greater recovery of liquid hydrocarbons from such project.

(6) That the proposed amendment of said special rules will not result in violation of correlative rights.

(7) That the application for amendment of said special rules should be approved.

IT IS THEREFORE ORDERED:

(1) That Rules 3, 4, 4(A), 5, 6, 7, 8, 9, 10, 11, 12, and 13 of the Special Rules and Regulations for the Empire-Abo Pressure Maintenance Project contained in Division Order No. R-4549, as amended, are hereby rescinded.

(2) That said special rules are hereby amended by the adoption of new Rules 3, 4, 5, and 6 which read in their entirety as follows:

"RULE 3: That the maximum daily project allowable shall be an amount of oil which will result in monthly average associated gas production of no more than 65 MMCF per day.

For the purpose of these rules, "Available Residue Gas" shall be defined as being all gas produced from the unitized formation less plant shrinkage, plant fuel, and lease fuel required for operation of the lease.

"RULE 4: That all available unit residue gas shall be reinjected. No raw gas nor plant residue gas attributable to the project shall be sold or otherwise disposed of by any other means. That in addition to the injection of available residue gas, the project operator may inject up to and including 35 million cubic feet of extraneous gas per day into the Abo formation underlying the project area; further, that withdrawals of said extraneous gas may be made, but pending reservoir blow-down, during not more than 30 days in any one 180-day period; provided however, that pending blow-down, the daily rate of withdrawal shall not exceed the average daily rate of injection of such extraneous gas during the preceding 180-day period; provided further, that the project operator shall establish and maintain an "Extraneous Gas Bank Statement" which shall be filed with the Division each month concurrently with the project operator's "Empire-Abo Pressure Maintenance Project Monthly Report", and which shall show thereon each month the volume of extraneous gas injected, the cumulative volume of such gas injected, the volume of gas

delivered back to the supplier of extraneous gas, the cumulative volume of gas delivered back to the supplier, and the net cumulative extraneous gas bank.

"RULE 5. Allowables shall be assigned to unit wells in accordance with nominations submitted by the unit operator during the months of March, July, and November of each year. That such nominations shall accompany the Pressure Maintenance Project Operator's Report filed for that month.

The allowables assigned shall result in production of casinghead gas averaging not more than 65 MMCF per day for the month, provided however, that on a cumulative basis, the unit operator may carry gas overproduction of 325 MMCF.

That no producing well in the project area which directly or diagonally offsets a well not committed to the unit, and producing from the same common source of supply, shall receive an allowable or produce in excess of two times the top unit allowable for the pool.

"RULE 6. Each month the project operator shall submit to the Division a Pressure Maintenance Project Operator's Report on a form prescribed by the Division. The report shall show all project wells, production of oil, gas, and water; volumes of water, residue gas, and extraneous gas injected; total production of oil, gas, and water, and such other data as the Division may require"

(3) That Rule 14A, 14B, 14C, and 14D of said Special Rules are hereby redesignated Rule 7A, 7B, 7C and 7D, respectively.

(4) That Rule 15 of said Special Rules is hereby redesignated Rule 8 and is amended to read in its entirety as follows:

"RULE 8. Expansion or contraction of the project area may be approved by the Director of the Division administratively when good cause is shown therefor."

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

-4-

Case No. 3060

Order No. P-4549-F

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY,
Director

S E A L

OLD METHOD

EMPIRE ABO UNIT PRESSURE MAINTENANCE PROJECT
 (NMOCD Orders R-4548, R-4549, R-4549A, R-4549B, R-4549C, R-4549D, R-4549E, R-4549F)
 ABO GAS BANK STATEMENT
 MONTHLY REPORT FEBRUARY 1987

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
MONTH	GAS PRODUCED (MCF)	ALLOWABLE GAS PROD. @ 65MMCFPD (MCF)	AMOUNT UNDER (OVER) ALLOWABLE (MCF)	CUMULATIVE AMOUNT UNDER (OVER) ALLOWABLE (MCF)	GAS BANK BALANCE (LESSER OF LAST MONTH'S COL. 5 OR 325 MMCF) (MCF)	MAX. GAS RATE ALLOWABLE TO BALANCE GAS BANK (MCF)	GAS RATE TOTAL PLANT RESIDUE AVAILABLE (MCF)	ABO GAS INJECTED (MCF)	FRACTION OF AVAILABLE RESIDUE GAS INJECTED (FRACTION)
JANUARY	2,126,796	2,015,000	(111,796)	74,967	186,763	65,000	1,385,888	1,385,888	1.00
FEBRUARY	1,822,464	1,820,000	(2,464)	72,503	74,967	65,000	1,158,952	1,158,952	1.00

NEW METHOD

EMPIRE ABO UNIT PRESSURE MAINTENANCE PROJECT
 (NMOCD Orders R-4548, R-4549, R-4549A, R-4549B, R-4549C, R-4549D, R-4549E, R-4549F)
 ABO GAS BANK STATEMENT
 MONTHLY REPORT FEBRUARY 1987

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
MONTH	GAS PRODUCED (MCF)	ALLOWABLE GAS PROD. @ 65MMCFPD (MCF)	AMOUNT UNDER (OVER) ALLOWABLE (MCF)	CUMULATIVE AMOUNT UNDER (OVER) ALLOWABLE (MCF)	GAS BANK BALANCE (325 MMCF + COL. 5) (MCF)	MAX. GAS RATE TOTAL		ABO GAS INJECTED (MCF)	FRACTION OF AVAILABLE RESIDUE GAS INJECTED (FRACTION)
						ALLOWABLE TO PLANT BALANCE	PLANT RESIDUE AVAILABLE (MCF)		
JANUARY	2,126,796	2,015,000	(111,796)	1,987,173	2,312,173	65,000	1,385,888	1,385,888	1.00
FEBRUARY	1,822,464	1,820,000	(2,464)	1,984,709	2,309,709	65,000	1,158,952	1,158,952	1.00

Col A	Number of days in month
Col B	Citgo Unit pressure at -2264' ss from the C-124's.
Col C	Year
Col D	Month
Col E	Produced gas per month with a total for each year.
Col F	Injected gas per month with a total for each year.
Col G	Produced oil per month with a total for each year.
Col H	<u>Daily</u> voidage as calculated by Attachment A of Order R-4808 for each month. An average daily voidage for each year is included.
Col I	Voidage for the month with yearly totals. Col I = (Col H)x(Col A)
Col J	Monthly voidage (Col I) minus the monthly allowable (2213xCol A). Overproduction is positive. A total is shown for each year.
Col K	Cumulation of overage/underage. Overage is positive.
Col L	Reservoir Voidage Balance Gas as calculated by Attachment A of Order R-4808 for each <u>month</u> in MCF.
Col M	Monthly change in the gas bank, or the monthly debit or credit to the gas bank. Negative numbers are debits, reflecting an overproduced status. Col M= Col F - Col L.
Col N	Cumulation of the gas bank status beginning with a zero status on 6/11/74. The effects of the bank cap in Col O are included.
Col O	The cap on the gas bank is equal to the average of the previous three months reservoir voidage balance gas.
Col P, Q&R	Are PVT properties from Attachment B of Order R-4808 for the pressure shown in Col B. C

CITGO EMPIRE ABO UNIT
ARCO PRESSURES & ARCO SPREADSHEET

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
DAYS	Press	YEAR	Mon	GAS	GAS	OIL	DAILY	MONTHLY	POS=OVER	POS=OVER	MONTHLY	NEG=OVER	NEG=OVER	CAP ON	BO	BG	RS
				PROD.	INJ.	PROD.	VOIDAGE	VOIDAGE	MONTHLY VOID	CLM	RES. VOID.	CHANGE IN	GAS BANK	STATUS			
				(MCF)	(MCF)	(STB)	RVB/D	RVB	RVB	RVB	GAS-MCF	MCF	MCF	GAS BANK			
20	1273	1974	6	31701	0	6451	2911	58218	13958	13958	7601	-7601	-7601		1.3986	1.8364	0.7615
31	1273		7	46576	0	9551	2759	85535	16932	30890	9220	-9220	-16821		1.3986	1.8364	0.7615
31	1273		8	56108	0	11824	3324	103041	34438	65328	18752	-18752	-35573		1.3986	1.8364	0.7615
30	1273		9	54768	0	11182	3353	100580	34190	99518	18617	-18617	-54191	11858	1.3986	1.8364	0.7615
31	1273		10	49487	0	10467	2932	90881	22278	121797	12131	-12131	-66322	15530	1.3986	1.8364	0.7615
30	1273		11	53249	0	11322	3260	97790	31400	153197	17098	-17098	-83421	16500	1.3986	1.8364	0.7615
31	1273		12	51993	0	12068	3080	95484	26881	180078	14637	-14637	-98058	15949	1.3986	1.8364	0.7615
				343882	0	72865	3096	631530	180078		98058						
31	1273		1	66346	0	11726	3930	121842	53239	233317	28990	-28990	-127048	14622	1.3986	1.8364	0.7615
28	1273		2	42765	0	8360	2805	78537	16573	249889	9024	-9024	-136073	20242	1.3986	1.8364	0.7615
31	1273		3	55416	0	9018	3283	101770	33167	283056	18060	-18060	-154133	17551	1.3986	1.8364	0.7615
30	1273		4	46721	0	7736	2860	85801	19411	302467	10570	-10570	-164703	18692	1.3986	1.8364	0.7615
31	1273		5	52307	0	7243	3099	96060	27457	329924	14951	-14951	-179654	12552	1.3986	1.8364	0.7615
30	1273	1975	6	94670	24050	13013	4323	129691	63301	393226	58520	-34470	-214124	14527	1.3986	1.8364	0.7615
31	1273		7	157535	70147	14044	5177	160485	91882	485108	120180	-50033	-264156	28014	1.3986	1.8364	0.7615
31	1273		8	179754	79589	14069	5934	183949	115346	600454	142399	-62810	-326966	64550	1.3986	1.8364	0.7615
30	1273		9	72459	70180	8008	140	4186	-62204	538250	36308	33872	-293094	107033	1.3986	1.8364	0.7615
31	1153		10	86429	86429	7707	-18	-562	-69165	469085	52911	33518	-259576	99629	1.3746	2.0635	0.7015
30	1153		11	83782	81082	8210	166	4973	-61417	407667	51319	29763	-229813	77206	1.3746	2.0635	0.7015
31	1153		12	77903	75330	8017	152	4725	-63878	343789	44374	30956	-198857	46846	1.3746	2.0635	0.7015
				1016087	486807	117151	2662	971456	163711		587606						

DAYS	Press	YEAR	Mon	GAS		OIL	DAILY	MONTHLY	POS=OVER		MONTHLY	NEG=OVER		BO	EG	RS	
				PROD.	INJ.				PROD.	VOIDAGE		VOIDAGE	MINUS				CUM
				(MCF)	(MCF)	(STB)	RVB/D	RVB	RVB	ALL	RVB	GAS-MCF	MCF	MCF			
31	1153	1976	1	90475	83570	9218	438	13576	-55027	288762	56903	26667	-172190	49534	1.3746	2.0635	0.7015
29	1153		2	107175	81361	9098	1814	52604	-11573	277189	75753	5608	-166582	50865	1.3746	2.0635	0.7015
31	1153		3	120023	88478	10757	2074	64309	-4294	272895	86397	2081	-164501	59010	1.3746	2.0635	0.7015
30	1153		4	121452	82853	8619	2634	79021	12631	285526	88974	-6121	-170622	73018	1.3746	2.0635	0.7015
31	1153		5	129698	89174	8464	2678	83005	14402	299927	96153	-6979	-177601	83708	1.3746	2.0635	0.7015
30	1153		6	149926	87514	7617	4274	128233	61843	361770	117484	-29970	-207570	90508	1.3746	2.0635	0.7015
31	1219		7	129544	88608	7182	2541	78768	10165	371935	93877	-5269	-212839	100870	1.3878	1.9293	0.7345
31	1219		8	132874	84843	7305	2982	92453	23850	395786	97205	-12362	-225201	102504	1.3878	1.9293	0.7345
30	1219		9	127658	84999	6956	2737	82099	15709	411495	93141	-8142	-233344	102855	1.3878	1.9293	0.7345
31	1219		10	117335	84725	6522	2023	62724	-5879	405616	81678	3047	-230297	94741	1.3878	1.9293	0.7345
30	1219		11	114550	76054	6650	2469	74076	7686	413302	80038	-3984	-234281	90675	1.3878	1.9293	0.7345
31	1219		12	101089	75661	6491	1576	48869	-19734	393568	65432	10229	-224052	84952	1.3878	1.9293	0.7345
				1441799	1007840	94879	2349	859737	49779		1033035						
31	1219	1977	1	116327	75145	6818	2557	79254	10651	404218	80665	-5520	-229572	75716	1.3878	1.9293	0.7345
28	1219		2	104638	67609	6383	2545	71254	9290	413508	72424	-4815	-234387	75379	1.3878	1.9293	0.7345
31	1219		3	104487	77161	6405	1695	52533	-16070	397438	68832	8329	-226058	72841	1.3878	1.9293	0.7345
30	1219		4	97777	67537	5480	1939	58182	-8208	389230	63283	4254	-221804	73974	1.3878	1.9293	0.7345
31	1219		5	105051	64505	5445	2518	78067	9464	398694	69410	-4905	-226709	68179	1.3878	1.9293	0.7345
30	1219		6	100869	68418	5171	2082	62457	-3933	394761	66379	2039	-224670	67175	1.3878	1.9293	0.7345
31	1219		7	102664	67560	4992	2180	67581	-1022	393739	67030	530	-224140	66357	1.3878	1.9293	0.7345
31	1219		8	113438	82437	5104	1925	59661	-8942	384797	77802	4635	-219506	67607	1.3878	1.9293	0.7345
30	1219		9	115045	82973	5103	2058	61728	-4662	380135	80556	2417	-217089	70404	1.3878	1.9293	0.7345
31	1218		10	120103	84584	5266	2207	68432	-171	379964	84495	89	-217001	75130	1.3876	1.9310	0.7340
30	1218		11	114861	84740	4770	1934	58023	-8367	371596	80407	4333	-212668	80951	1.3876	1.9310	0.7340
31	1218		12	115194	82435	5390	2035	63098	-5505	366092	79584	2851	-209817	81820	1.3876	1.9310	0.7340
				1310454	905104	66327	2138	780269	-27476		890869						

DAYS	Press	YEAR	Mon	GAS		OIL	DAILY	MONTHLY		MONTHLY VOID		MONTHLY ALL.		OVER/UNDER		MONTHLY	CHANGE IN	NEG=OVER		CAP ON	BO	BG	RS
				PROD.	INJ.	PROD.	VOIDAGE	VOIDAGE	RVB	MINUS	VOID	MONTHLY	ALL.	RVB	CLM	RES. VOID.	GAS BANK	STATUS	GAS BANK				
				(MCF)	(MCF)	(STB)	RVB/D	RVB	RVB	RVB						GAS-MCF	MCF	MCF	MCF				
31	1218	1978	1	120056	84643	5495	2201	68220	-383	365709	84445	198	-209619	81496	1.3876	1.9310	0.7340						
28	1218		2	102784	70112	4477	2248	62958	994	366703	70627	-515	-210133	81479	1.3876	1.9310	0.7340						
31	1218		3	117267	81786	4934	2205	68368	-235	366468	81664	122	-210012	78219	1.3876	1.9310	0.7340						
30	1218		4	112722	75799	4370	2372	71170	4780	371248	78274	-2475	-212487	78912	1.3876	1.9310	0.7340						
31	1218		5	124602	87180	4475	2327	72130	3527	374775	89007	-1827	-214314	76855	1.3876	1.9310	0.7340						
30	1218		6	102866	64360	3830	2475	74243	7853	382627	68426	-4066	-218380	82982	1.3876	1.9310	0.7340						
31	1218		7	86630	48305	3628	2384	73899	5296	387923	51048	-2743	-221123	78569	1.3876	1.9310	0.7340						
31	1218		8	108074	73670	3910	2139	66319	-2284	385639	72487	1183	-219940	69494	1.3876	1.9310	0.7340						
30	1218		9	113116	75618	4151	2410	72287	5897	391536	78672	-3054	-222993	63987	1.3876	1.9310	0.7340						
31	1155		10	106381	69009	3907	2473	76677	8074	399610	72930	-3921	-226914	67402	1.3750	2.0592	0.7025						
30	1155		11	92629	52478	4301	2746	82371	15981	415591	60239	-7761	-234675	74696	1.3750	2.0592	0.7025						
31	1155		12	114007	69534	4104	2945	91285	22682	438273	80549	-11015	-245690	70613	1.3750	2.0592	0.7025						
				1301134	852494	51582	2411	879926	72181		888367												
31	1155	1979	1	129590	85192	4542	2939	91099	22496	460769	96117	-10925	-256615	71239	1.3750	2.0592	0.7025						
28	1155		2	107568	64144	3777	3184	89148	27184	487953	77345	-13201	-269816	78968	1.3750	2.0592	0.7025						
31	1155		3	116434	73314	3805	2855	88520	19917	507870	82986	-9672	-279488	84670	1.3750	2.0592	0.7025						
30	1155		4	81817	61642	2295	1379	41380	-25010	482861	49497	12145	-267343	85483	1.3750	2.0592	0.7025						
31	1155		5	97692	56060	3356	2758	85488	16885	499746	64260	-8200	-275543	69943	1.3750	2.0592	0.7025						
30	1155		6	88927	60585	2756	1939	58165	-8225	491520	56591	3994	-271548	65581	1.3750	2.0592	0.7025						
31	1155		7	92342	61050	2643	2072	64247	-4356	487165	58935	2115	-269433	56782	1.3750	2.0592	0.7025						
31	1155		8	94987	63695	2649	2072	64247	-4356	482809	61580	2115	-267318	59928	1.3750	2.0592	0.7025						
30	1155		9	100030	65147	2956	2387	71619	5229	488038	67687	-2540	-269857	59035	1.3750	2.0592	0.7025						
31	1216		10	94756	60376	2658	2143	66426	-2177	485861	59250	1126	-268732	62734	1.3872	1.9345	0.7330						
30	1216		11	100682	65007	3204	2297	68914	2524	488385	66312	-1305	-270036	62839	1.3872	1.9345	0.7330						
31	1216		12	86776	44704	3152	2622	81290	12687	501072	51263	-6559	-276595	64416	1.3872	1.9345	0.7330						
				1191601	760916	37793	2385	870544	62799		791821												

DAYS	Press	YEAR	Mon	POS=OVER				NEG=OVER				CAP ON				BO	BG	RS
				GAS PROD. (MCF)	GAS INJ. (MCF)	OIL PROD. (STB)	DAILY VOIDAGE RVB/D	MONTHLY VOIDAGE RVB	MONTHLY VOID MINUS RVB	MONTHLY ALL. OVER/UNDER RVB	MONTHLY RES. VOID. BALANCE GAS-MCF	MONTHLY CHANGE IN GAS BANK MCF	CUM STATUS MCF	GAS BANK MCF	GAS BANK MCF			
31	1216	1980	1	108105	68460	2871	2471	76604	8001	509073	72596	-4136	-280731	58942	1.3872	1.9345	0.7330	
29	1216		2	98489	65033	2805	2229	64634	457	509530	65269	-236	-280967	63390	1.3872	1.9345	0.7330	
31	1216		3	107404	59750	2721	2971	92102	23499	533029	71897	-12147	-293115	63043	1.3872	1.9345	0.7330	
30	1216		4	105529	75417	2277	1939	58181	-8209	524820	71173	4244	-288871	69921	1.3872	1.9345	0.7330	
31	1216		5	114292	76403	2188	2362	73228	4625	529445	78794	-2391	-291262	69447	1.3872	1.9345	0.7330	
30	1216		6	91474	63012	1961	1833	54999	-11391	518054	57124	5888	-285373	73955	1.3872	1.9345	0.7330	
31	1216		7	85568	62301	1944	1450	44950	-23653	494401	50074	12227	-273146	69030	1.3872	1.9345	0.7330	
31	1216		8	97623	65589	1780	1997	61914	-6689	487712	62131	3458	-269689	61997	1.3872	1.9345	0.7330	
30	1216		9	95734	65737	1962	1932	57968	-8422	479290	61383	4354	-265335	56443	1.3872	1.9345	0.7330	
31	1099		10	103514	72677	2106	2162	67017	-1586	477705	71950	727	-264608	57863	1.3638	2.1806	0.6745	
30	1099		11	115652	73534	2270	3053	91599	25209	502914	85095	-11561	-276169	65155	1.3638	2.1806	0.6745	
31	1099		12	118344	71042	2247	3320	102906	34303	537217	86773	-15731	-291900	72809	1.3638	2.1806	0.6745	
				1241728	818955	27132	2318	846103	36145		835404							
31	1099	1981	1	119804	77008	2256	3003	93079	24476	561693	88233	-11225	-303124	81273	1.3638	2.1806	0.6745	
28	1099		2	107563	78244	1845	2276	63735	1771	563464	79056	-812	-303937	86700	1.3638	2.1806	0.6745	
31	1099		3	119819	86484	2122	2338	72463	3860	567324	88254	-1770	-305707	84687	1.3638	2.1806	0.6745	
30	1099		4	119819	86852	2111	2389	71662	5272	572596	89270	-2418	-308124	85181	1.3638	2.1806	0.6745	
31	1099		5	111423	82378	1715	2037	63152	-5451	567144	79878	2500	-305624	85527	1.3638	2.1806	0.6745	
30	1099		6	97876	70585	1225	1979	59379	-7011	560134	67370	3215	-302409	85801	1.3638	2.1806	0.6745	
31	1099		7	99486	83596	1340	1113	34506	-34097	526037	67959	15637	-286773	78839	1.3638	2.1806	0.6745	
31	1099		8	114353	85459	1284	2028	62869	-5734	520302	82829	2630	-284143	71736	1.3638	2.1806	0.6745	
30	1099		9	108306	82509	1214	1871	56123	-10267	510035	77801	4708	-279435	72720	1.3638	2.1806	0.6745	
31	1087		10	108178	78547	1210	2109	65392	-3211	506824	77095	1452	-277983	76196	1.3614	2.2117	0.6685	
30	1087		11	100523	77650	1856	1679	50370	-16020	490805	70407	7243	-270740	79242	1.3614	2.2117	0.6685	
31	1087		12	106391	55402	1528	3632	112592	43989	534794	75291	-19889	-290629	75101	1.3614	2.2117	0.6685	
				1313541	944714	19706	2206	805322	-2423		943443							

DAYS	Press	YEAR	Mon	POS-OVER				NEG-OVER				BO	BG	RS			
				GAS PROD. (MCF)	GAS INJ. (MCF)	OIL PROD. (STB)	DAILY VOIDAGE RVB/D	MONTHLY VOIDAGE RVB	MONTHLY VOID MINUS RVB	MONTHLY ALL OVER/UNDER RVB	MONTHLY RES. VOID. BALANCE GAS-MCF				MONTHLY CHANGE IN GAS BANK MCF	CUM GAS BANK STATUS MCF	CAP ON GAS BANK MCF
31	1087	1982	1	109827	76625	1938	2361	73205	4602	539395	78706	-2081	-292710	74264	1.3614	2.2117	0.6685
28	1087		2	98961	73011	1599	2043	57206	-4758	534637	70859	2152	-290558	74801	1.3614	2.2117	0.6685
31	1087		3	108164	78982	1730	2075	64338	-4265	530372	77054	1928	-288630	74952	1.3614	2.2117	0.6685
30	1087		4	109521	82626	1633	1976	59292	-7098	523274	79416	3210	-285421	75540	1.3614	2.2117	0.6685
31	1087		5	111479	81587	1647	2126	65918	-2685	520589	80373	1214	-284207	75777	1.3614	2.2117	0.6685
30	1087		6	105570	80094	1438	1873	56176	-10214	510376	75476	4618	-279588	78948	1.3614	2.2117	0.6685
31	1087		7	107359	80275	1478	1927	59728	-8875	501500	76262	4013	-275576	78422	1.3614	2.2117	0.6685
31	1087		8	104333	76086	1456	2010	62303	-6300	495200	73237	2849	-272727	77370	1.3614	2.2117	0.6685
30	1047		9	96599	77043	1371	1502	45074	-21316	473884	67836	9207	-263520	74992	1.3534	2.3153	0.6485
31	1047		10	107687	79916	1661	2066	64051	-4552	469333	77950	1966	-261554	72445	1.3534	2.3153	0.6485
30	1047		11	105497	73753	1679	2442	73247	6857	476190	76715	-2962	-264516	73008	1.3534	2.3153	0.6485
31	1047		12	114493	76241	1740	2849	88306	19703	495894	84751	-8510	-273026	74167	1.3534	2.3153	0.6485
				1279490	936239	19370	2106	768845	-38900		918636						
31	1047	1983	1	122553	78197	1861	3304	102421	33818	529712	92803	-14606	-287633	79805	1.3534	2.3153	0.6485
28	1047		2	101790	66605	1395	2902	81256	19292	549004	74938	-8333	-295965	84756	1.3534	2.3153	0.6485
31	1047		3	114372	76790	1526	2800	86787	18184	567188	84644	-7854	-303819	84164	1.3534	2.3153	0.6485
30	1047		4	109763	82463	1415	2100	62997	-3393	563795	80998	1465	-302354	84128	1.3534	2.3153	0.6485
31	1047		5	113835	86374	1330	2045	63383	-5220	558575	84119	2255	-300099	80193	1.3534	2.3153	0.6485
30	1047		6	102698	70434	1334	2483	74502	8112	566687	73938	-3504	-303603	83254	1.3534	2.3153	0.6485
31	1047		7	106385	75943	1216	2268	70301	1698	568386	76677	-734	-304336	79685	1.3534	2.3153	0.6485
31	1047		8	104756	74541	1235	2251	69773	1170	569556	75046	-505	-304842	78245	1.3534	2.3153	0.6485
30	1047		9	103538	72048	1317	2424	72713	6323	575878	74779	-2731	-307573	75220	1.3534	2.3153	0.6485
31	993		10	101003	78789	1256	1754	54381	-14222	561656	73004	5785	-301788	75501	1.3427	2.4586	0.6222
30	993		11	108832	86082	1563	1855	55641	-10749	550908	81710	4372	-297416	74277	1.3427	2.4586	0.6222
31	993		12	109757	82435	1409	2158	66911	-1692	549216	81747	688	-296728	76498	1.3427	2.4586	0.6222
				1299282	930701	16857	2359	861067	53322		954403						

DAYS	Press	YEAR	Mon	POS-OVER				NEG-OVER				BO	BG	RS			
				GAS PROD. (MCF)	GAS INJ. (MCF)	OIL PROD. (STB)	DAILY VOIDAGE RVB/D	MONTHLY VOIDAGE RVB	MONTHLY VOID MINUS RVB	CUM OVER/UNDER RVB	MONTHLY RES. VOID. BALANCE GAS-MCF				MONTHLY CHANGE IN GAS BANK MCF	NEG-OVER CUM MCF	CAP ON GAS BANK MCF
31	993	1984	1	101410	78952	1387	1773	54956	-13647	535569	73402	5550	-291178	78821	1.3427	2.4586	0.6222
29	993		2	104699	82016	1304	1915	55525	-8652	526917	78497	3519	-287659	78953	1.3427	2.4586	0.6222
31	993		3	113111	89632	1318	1854	57480	-11123	515794	85108	4524	-283135	77882	1.3427	2.4586	0.6222
30	993		4	108513	81815	1253	2180	65406	-984	514810	81415	400	-282734	79002	1.3427	2.4586	0.6222
31	993		5	107770	82762	1175	1976	61266	-7337	507473	79778	2984	-279750	81673	1.3427	2.4586	0.6222
30	993		6	107516	81487	1098	2126	63790	-2600	504873	80430	1057	-278693	82100	1.3427	2.4586	0.6222
31	993		7	111975	87255	1095	1954	60572	-8031	496842	83989	3266	-275426	80541	1.3427	2.4586	0.6222
31	993		8	110213	84849	1097	2005	62155	-6448	490395	82227	2622	-272804	81399	1.3427	2.4586	0.6222
30	993		9	103593	79148	887	1998	59935	-6455	483940	76523	2625	-270179	82215	1.3427	2.4586	0.6222
31	961		10	95353	71897	1118	1927	59741	-8862	475078	68432	3465	-266713	80913	1.3366	2.5575	0.6094
30	961		11	100731	75065	1078	2180	65402	-988	474090	74679	386	-266327	75727	1.3366	2.5575	0.6094
31	961		12	105119	78863	991	2159	66930	-1673	472417	78209	654	-265673	73211	1.3366	2.5575	0.6094
				1270003	973741	13801	2009	733159	-76799		943586						
31	961	1985	1	97701	72673	978	2058	63792	-4811	467606	70792	1881	-263792	73773	1.3366	2.5575	0.6094
28	961		2	87591	69724	1023	1624	45468	-16496	451110	63274	6450	-257342	74560	1.3366	2.5575	0.6094
31	961		3	99709	78454	939	1747	54151	-14452	436659	72803	5651	-251691	70758	1.3366	2.5575	0.6094
30	961		4	96451	74868	862	1834	55007	-11383	425276	70417	4451	-247241	68956	1.3366	2.5575	0.6094
31	961		5	99966	76794	739	1906	59099	-9504	415772	73078	3716	-243524	68832	1.3366	2.5575	0.6094
30	961		6	95599	74968	801	1753	52586	-13804	401968	69571	5397	-238127	72099	1.3366	2.5575	0.6094
31	961		7	95270	70111	770	2070	64173	-4430	397538	68379	1732	-236395	71022	1.3366	2.5575	0.6094
31	961		8	97225	72303	704	2051	63582	-5021	392517	70340	1963	-234432	70342	1.3366	2.5575	0.6094
30	961		9	94874	70049	737	2111	63327	-3063	389454	68851	1198	-233234	69430	1.3366	2.5575	0.6094
31	906		10	89990	66001	772	2104	65216	-3387	386067	64759	1242	-231992	69190	1.3261	2.7275	0.5874
30	906		11	95472	76401	757	1727	51806	-14584	371483	71054	5347	-226645	67983	1.3261	2.7275	0.5874
31	906		12	99037	65818	827	2915	90375	21772	393256	73801	-7983	-234628	68221	1.3261	2.7275	0.5874
				1148885	868164	9909	1996	728584	-79161		837119						

DAYS	Press	YEAR	Mon	POS=OVER				POS=OVER				NEG=OVER				NEG=OVER				
				MONTHLY VOID		MONTHLY CUM		MONTHLY RES. VOID.		MONTHLY CHANGE IN		MONTHLY CUM		MONTHLY STATUS		MONTHLY CAP ON		EO	EG	RS
				GAS PROD. (MCF)	GAS INJ. (MCF)	OIL PROD. (STB)	DAILY VOIDAGE RVB/D	MONTHLY VOIDAGE RVB	MONTHLY ALL MINUS RVB	OVERUNDER RVB	BALANCE GAS-MCF	GAS BANK MCF	GAS BANK MCF	GAS BANK MCF	GAS BANK MCF	GAS BANK MCF				
31	906	1986	1	98447	55899	800	3736	115827	47224	440480	73213	-17314	-251942	69871	1.3261	2.7275	0.5874			
28	906		2	84266	53188	676	3021	84577	22613	463093	61479	-8291	-260233	72689	1.3261	2.7275	0.5874			
31	906		3	90385	62526	963	2443	75719	7116	470209	65135	-2609	-262842	69498	1.3261	2.7275	0.5874			
30	906		4	105579	70850	743	3151	94517	28127	498336	81162	-10312	-273154	66609	1.3261	2.7275	0.5874			
31	906		5	93692	60330	707	2929	90798	22195	520531	68468	-8138	-281292	69259	1.3261	2.7275	0.5874			
30	906		6	84239	54555	655	2693	80781	14391	534922	59831	-5276	-286569	71588	1.3261	2.7275	0.5874			
31	906		7	97960	64029	638	2980	92369	23766	558689	72743	-8714	-295282	69821	1.3261	2.7275	0.5874			
31	906		8	87427	60280	649	2383	73863	5260	563949	62209	-1929	-297211	67014	1.3261	2.7275	0.5874			
30	906		9	87322	62177	647	2280	68403	2013	565962	62915	-738	-297949	64928	1.3261	2.7275	0.5874			
31	906		10	85289	69131	651	1416	43891	-24712	541250	60070	9061	-288889	65956	1.3261	2.7275	0.5874			
30	906		11	73531	50265	730	2109	63256	-3134	538116	49116	1149	-287739	61731	1.3261	2.7275	0.5874			
31	898		12	70786	49218	630	1910	59203	-9400	528716	45804	3414	-284325	57367	1.3246	2.7532	0.5841			
				1058923	712448	8489	2584	943205	135460		762146									
31	898	1987	1	41497	38709	557	243	7518	-61085	467631	16522	22187	-262139	51663	1.3246	2.7532	0.5841			
28	898		2	59494	55176	660	418	11701	-50263	417368	36920	18256	-243883	37147	1.3246	2.7532	0.5841			
31	898		3	63106	58361	709	415	12863	-55740	361628	38116	20245	-223638	33082	1.3246	2.7532	0.5841			
30	898		4	53412	49149	557	386	11579	-54811	306817	29241	19908	-203730	30519	1.3246	2.7532	0.5841			
31	898		5	50113	45413	539	412	12787	-55816	251002	25140	20273	-183457	34759	1.3246	2.7532	0.5841			
30	898		6	62251	57949	500	390	11703	-54687	196314	38086	19863	-163594	30832	1.3246	2.7532	0.5841			
31	898		7	40420	36848	424	313	9714	-58889	137426	15459	21389	-142206	30823	1.3246	2.7532	0.5841			
31	898		8	33391	18015	328	1363	42241	-26362	111063	8440	9575	-132631	26229	1.3246	2.7532	0.5841			
30	898		9	21449	19970	503	131	3929	-62461	48603	-2716	22686	-109944	20662	1.3246	2.7532	0.5841			
31	898		10	12745	11281	355	127	3930	-64673	0	-12209	23490	-86455	7061	1.3246	2.7532	0.5841			
30	900		11	13341	12195	351	102	3048	-63342	0	-10872	23067	-63388	-2162	1.3250	2.7460	0.5850			
31	900		12	10417	9482	359	80	2466	-66137	0	-14603	24085	-39303	-8599	1.3250	2.7460	0.5850			
				461636	412548	5842	366	133481	-674264		167526									

			POS=OVER		POS=OVER		NEG=OVER		NEG=OVER											
			MONTHLY VOID		CLM		CLM		CLM											
			MONTHLY MINUS		MONTHLY ALL OVER/UNDER		MONTHLY RES. VOID. BALANCE		MONTHLY CHANGE IN GAS BANK		GAS BANK STATUS		CAP ON GAS BANK		BO		EG		RS	
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF		MCF					
			RVB		RVB		GAS-MCF		MCF		MCF		MCF							

DAYS	Press	YEAR	Mon	POS=OVER				NEG=OVER				BO	BG	RS
				GAS PROD. (MCF)	GAS INJ. (MCF)	OIL PROD. (STB)	DAILY VOIDAGE RVB/D	MONTHLY VOIDAGE RVB	MONTHLY VOID MINUS RVB	MONTHLY RES. VOID. BALANCE GAS-MCF	MONTHLY CHANGE IN GAS BANK MCF	CUM GAS BANK STATUS MCF	CAP ON GAS BANK MCF	
31	751	1990	1	35952	0	414	3903	120994	52391	15543	-15543	-96631	15762	1.2947 3.3706 0.5180
28	751		2	32425	0	325	3898	109146	47182	13998	-13998	-110629	15075	1.2947 3.3706 0.5180
31	751		3	34137	0	326	3707	114916	46313	13740	-13740	-124369	15078	1.2947 3.3706 0.5180
30	751		4	33350	0	188	3744	112326	45936	13628	-13628	-137997	14427	1.2947 3.3706 0.5180
31	751		5	29124	0	238	3163	98059	29456	8739	-8739	-146736	13789	1.2947 3.3706 0.5180
30	751		6	27118	0	282	3043	91278	24888	7384	-7384	-154120	12036	1.2947 3.3706 0.5180
31	751		7	33019	0	347	3585	111139	42536	12619	-12619	-166740	9917	1.2947 3.3706 0.5180
31	751		8	20634	0	146	2241	69484	881	261	-261	-167001	9581	1.2947 3.3706 0.5180
30	751		9	25996	0	165	2918	87549	21159	6277	-6277	-173278	6755	1.2947 3.3706 0.5180
31	751		10	31652	0	221	3438	106588	37985	11269	-11269	-184548	6386	1.2947 3.3706 0.5180
30	751		11	28816	0	285	3233	97000	30610	9081	-9081	-193629	5936	1.2947 3.3706 0.5180
31	751		12	28406	0	289	3084	95616	27013	8014	-8014	-201643	8876	1.2947 3.3706 0.5180
				360629	0	3226	3326	1214095	406350					
31	751	1991	1	29042	0	335	3153	97739	29136	8644	-8644	-210287	9455	1.2947 3.3706 0.5180
28	751		2	25577	0	213	3076	86115	24151	7165	-7165	-217452	8580	1.2947 3.3706 0.5180
31	751		3	12879	0	91	1399	43369	-25234	-7486	7486	-209966	7941	1.2947 3.3706 0.5180
30	751		4	13795	0	99	1548	46453	-19937	-5915	5915	-204051	2774	1.2947 3.3706 0.5180
31	751		5	18110	0	125	1967	60986	-7617	-2260	2260	-201791	-2079	1.2947 3.3706 0.5180
30	751		6	11880	0	182	1332	39961	-26429	-7841	7841	-193950	-5220	1.2947 3.3706 0.5180
31	751		7	17354	0	122	1885	58439	-10164	-3015	3015	-190935	-5339	1.2947 3.3706 0.5180

CITGO EMPIRE ABO UNIT
ARCO PRESSURES & ARCO SPREADSHEET
START DATE JUNE 1975

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
										POS=OVER	POS=OVER								
										MONTHLY VOID		MONTHLY		MONTHLY					
										MINUS	CUMULATIVE	RES. VOID.	CHANGE IN	CUM					
										MONTHLY ALL	OVER/UNDERAGE	BALANCE	GAS BANK	GAS BANK	STATUS	GAS BANK	CAP ON		
										RVB	RVB	GAS-MCF	MCF	MCF	MCF	MCF	BO	BG	RS
DAYS	PRESS	YEAR	MON	(MCF)	(MCF)	(STB)	RVB/D	RVB	RVB	RVB	GAS-MCF	MCF	MCF	MCF					
30	1273	1975	6	94670	24050	13013	4323	129691	63301	63301	58520	-34470	-34470		1.3986	1.8364	0.7615		
31	1273		7	157535	70147	14044	5177	160485	91882	155183	120180	-50033	-84502		1.3986	1.8364	0.7615		
31	1273		8	179754	79589	14069	5934	183949	115346	270529	142399	-62810	-147312		1.3986	1.8364	0.7615		
30	1273		9	72459	70180	8008	140	4186	-62204	208326	36308	33872	-113440	107033	1.3986	1.8364	0.7615		
31	1153		10	86429	86429	7707	-18	-562	-69165	139161	52911	33518	-79922	99629	1.3746	2.0635	0.7015		
30	1153		11	83782	81082	8210	166	4973	-61417	77743	51319	29763	-50159	77206	1.3746	2.0635	0.7015		
31	1153		12	77903	75330	8017	152	4725	-63878	13865	44374	30956	-19202	46846	1.3746	2.0635	0.7015		
31	1153	1976	1	90475	83570	9218	438	13576	-55027	-41162	56903	26667	7464	49534	1.3746	2.0635	0.7015		
29	1153		2	107175	81361	9098	1814	52604	-11573	-52735	75753	5608	13073	50865	1.3746	2.0635	0.7015		
31	1153		3	120023	88478	10757	2074	64309	-4294	-57029	86397	2081	15153	59010	1.3746	2.0635	0.7015		
30	1153		4	121452	82853	8619	2634	79021	12631	-44399	88974	-6121	9032	73018	1.3746	2.0635	0.7015		
31	1153		5	129698	89174	8464	2678	83005	14402	-29997	96153	-6979	2053	83708	1.3746	2.0635	0.7015		
30	1153		6	149926	87514	7617	4274	128233	61843	31846	117484	-29970	-27916	90508	1.3746	2.0635	0.7015		
31	1219		7	129544	88608	7182	2541	78768	10165	42011	93877	-5269	-33185	100870	1.3878	1.9293	0.7345		
31	1219		8	132874	84843	7305	2982	92453	23850	65861	97205	-12362	-45547	102504	1.3878	1.9293	0.7345		
30	1219		9	127658	84999	6956	2737	82099	15709	81570	93141	-8142	-53689	102855	1.3878	1.9293	0.7345		
31	1219		10	117335	84725	6522	2023	62724	-5879	75692	81678	3047	-50642	94741	1.3878	1.9293	0.7345		
30	1219		11	114550	76054	6650	2469	74076	7686	83378	80038	-3984	-54626	90675	1.3878	1.9293	0.7345		
31	1219		12	101089	75661	6491	1576	48869	-19734	63644	65432	10229	-44398	84952	1.3878	1.9293	0.7345		

Attachment 5

												POS=OVER		POS=OVER		NEG=OVER		NEG=OVER			
												MONTHLY VOID		CUMULATIVE		MONTHLY		MONTHLY		CUM	
												MINUS		OVER/UNDERAGE		RES. VOID.		CHANGE IN		GAS BANK	
												RVB		RVB		GAS-MCF		MCF		MCF	
												MONTHLY ALL				BALANCE		GAS BANK		STATUS	
												RVB				GAS-MCF		MCF		MCF	
												RVB/D				GAS-MCF		MCF		MCF	
												RVB				GAS-MCF		MCF		MCF	
												RVB				GAS-MCF		MCF		MCF	
												RVB				GAS-MCF		MCF		MCF	
												RVB				GAS-MCF		MCF		MCF	
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												RVB				GAS-MCF		MCF		MCF	
												RVB									

										POS=OVER		POS=OVER		NEG=OVER		NEG=OVER	
										MONTHLY VOID		CUMULATIVE		MONTHLY		MONTHLY	
										MINUS		OVER/UNDERAGE		RES. VOID.		CHANGE IN	
										MONTHLY ALL		BALANCE		GAS BANK		GAS BANK	
										RVB		RVB		MCF		MCF	
										RVB		RVB		MCF		MCF	
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										RVB		RVB		MCF		MCF	

										POS=OVER		POS=OVER		NEG=OVER		NEG=OVER	
										MONTHLY VOID		CUMULATIVE		MONTHLY		MONTHLY	
										MINUS		OVER/UNDERAGE		RES. VOID.		CHANGE IN	
										MONTHLY ALL		RVB		BALANCE		GAS BANK	
										RVB		RVB		GAS-MCF		MCF	

				POS=OVER		POS=OVER		NEG=OVER		NEG=OVER	
				MONTHLY VOID		CUMULATIVE		MONTHLY		CUM	
				MINUS		OVERUNDERAGE		CHANGE IN		STATUS	
				MONTHLY ALL		RVB		GAS BANK		GAS BANK	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF			

				POS=OVER		POS=OVER		NEG=OVER		NEG=OVER	
				MONTHLY VOID		CUMULATIVE		MONTHLY		CUM	
				MINUS		OVERUNDERAGE		CHANGE IN		STATUS	
				RVB		RVB		GAS BANK		GAS BANK	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
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				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	
				RVB		RVB		MCF		MCF	

										POS=OVER	POS=OVER	NEG=OVER	NEG=OVER				
DAYS	PRESS	YEAR	MON	GAS	GAS	OIL	DAILY	MONTHLY	MONTHLY VOID	CUMULATIVE	MONTHLY	MONTHLY	Q/M	CAP ON	BO	BG	RS
				PROD. (MCF)	INJ. (MCF)	PROD. (STB)	VOIDAGE RVB/D	VOIDAGE RVB	MINUS RVB	OVER/UNDERAGE RVB	RES. VOID. GAS-MCF	CHANGE IN GAS BANK MCF	GAS BANK STATUS MCF	GAS BANK MCF			
31	821	1989	1	161	0	8	16	485	-68118	0	-22466	22466	-22970	-22970	1.3084	3.032	0.5495
28	821		2	180	0	16	19	540	-61424	0	-20259	20259	-22199	-22199	1.3084	3.032	0.5495
31	821		3	4270	0	115	416	12905	-55698	0	-18370	18370	-21726	-21726	1.3084	3.032	0.5495
30	821		4	27639	0	1099	2780	83408	17018	17018	5613	-5613	-27339	-20365	1.3084	3.032	0.5495
31	821		5	24007	0	594	2341	72576	3973	20991	1310	-1310	-28649	-11005	1.3084	3.032	0.5495
30	821		6	40416	0	549	4078	122344	55954	76946	18455	-18455	-47104	-3816	1.3084	3.032	0.5495
31	821		7	46094	0	510	4502	139574	70971	147916	23407	-23407	-70512	8459	1.3084	3.032	0.5495
31	821		8	44812	0	475	4377	135699	67096	215013	22130	-22130	-92641	14391	1.3084	3.032	0.5495
30	821		9	42073	0	393	4247	127424	61034	276047	20130	-20130	-112771	21331	1.3084	3.032	0.5495
31	821		10	40278	0	403	3935	121978	53375	329422	17604	-17604	-130375	21889	1.3084	3.032	0.5495
30	751		11	33740	0	397	3785	113546	47156	376578	13990	-13990	-144365	19955	1.2947	3.3706	0.518
31	751		12	36094	0	360	3919	121497	52894	429472	15693	-15693	-160058	17241	1.2947	3.3706	0.518
31	751	1990	1	35952	0	414	3903	120994	52391	481864	15543	-15543	-175602	15762	1.2947	3.3706	0.518
28	751		2	32425	0	325	3898	109146	47182	529046	13998	-13998	-189600	15075	1.2947	3.3706	0.518
31	751		3	34137	0	326	3707	114916	46313	575360	13740	-13740	-203340	15078	1.2947	3.3706	0.518
30	751		4	33350	0	188	3744	112326	45936	621296	13628	-13628	-216968	14427	1.2947	3.3706	0.518
31	751		5	29124	0	238	3163	98059	29456	650752	8739	-8739	-225707	13789	1.2947	3.3706	0.518
30	751		6	27118	0	282	3043	91278	24888	675640	7384	-7384	-233091	12036	1.2947	3.3706	0.518
31	751		7	33019	0	347	3585	111139	42536	718175	12619	-12619	-245710	9917	1.2947	3.3706	0.518
31	751		8	20634	0	146	2241	69484	881	719056	261	-261	-245972	9581	1.2947	3.3706	0.518
30	751		9	25996	0	165	2918	87549	21159	740215	6277	-6277	-252249	6755	1.2947	3.3706	0.518
31	751		10	31652	0	221	3438	106588	37985	778200	11269	-11269	-263518	6386	1.2947	3.3706	0.518
30	751		11	28816	0	285	3233	97000	30610	808810	9081	-9081	-272600	5936	1.2947	3.3706	0.518
31	751		12	28406	0	289	3084	95616	27013	835823	8014	-8014	-280614	8876	1.2947	3.3706	0.518

ARCO's Pressures

0.*

129,691.++

160,485.++

183,949.++

4,186.++

562.-

4,973.++

4,725.++

13,576.++

52,604.++

64,309.++

79,021.++

83,004.++

128,233.++

78,768.++

92,453.++

82,099.++

62,724.++

74,076.++

48,869.++

79,254.++

71,254.++

52,537.++

58,182.++

78,067.++

62,457.++

67,581.++

59,835.++

61,728.++

68,432.++

58,023.++

63,098.++

68,220.++

62,958.++

68,368.++

71,170.++

72,130.++

74,243.++

73,899.++

66,319.++

72,287.++

76,677.++

82,371.++

91,285.++

2

91,099.++

89,148.++

88,520.++

41,380.++

85,488.++

58,165.++

64,247.++

64,247.++

71,619.++

66,426.++

68,914.++

51,145.++

76,604.++

64,634.++

92,102.++

58,181.++

73,228.++

54,999.++

44,950.++

61,914.++

57,968.++

67,017.++

91,599.++

102,906.++

93,079.++

63,735.++

72,463.++

71,662.++

63,152.++

59,379.++

34,506.++

62,869.++

56,123.++

65,392.++

50,370.++

112,592.++

72,984.++

57,206.++

64,338.++

59,292.++

65,918.++

56,176.++

59,728.++

68,716.++

69,042.++

73,961.++

73,247.++

88,306.++

102,914.++

81,256.++

3

86,787.++

62,997.++

63,383.++

74,502.++

70,301.++

69,773.++

~~72,715.++~~

54,381.++

55,641.++

66,911.++

54,956.++

55,525.++

57,480.++

65,406.++

61,266.++

63,790.++

60,572.++

62,155.++

59,935.++

59,741.++

65,402.++

66,930.++

63,792.++

45,468.++

54,151.++

55,007.++

59,099.++

52,586.++

64,173.++

63,582.++

63,327.++

65,216.++

51,806.++

90,375.++

115,827.++

84,577.++

73,586.++

94,517.++

90,798.++

80,781.++

92,369.++

73,863.++

68,403.++

43,891.++

63,256.++

59,203.++

7,518.++

11,701.++

12,863.++

11,582.++

4

12,787.++
 11,703.++
 9,714.++
 42,241.++
 2,955.++
 3,930.++
 3,048.++
 2,466.++
 5,349.++
 1,248.++

6/75 - 3/88

152

255.++

9,712,024.*

9,712,024.++

543.++

492.++

568.++

362.++

519.++

329.++

563.++

643.++

525.++

485.++

540.++

12,905.++

83,408.++

72,576.++

122,344.++

137,021.++

135,135.++

126,878.++

121,978.++

113,546.++

121,497.++

120,994.++

109,146.++

114,916.++

112,326.++

98,059.++

91,278.++

111,139.++

69,484.++

87,549.++

106,588.++

97,000.++

6/75 - 12/90

034

95,616.++

11,978,976.*

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11,978,976.++

97,739.++

86,115.++

43,369.++

43,944.++

57,692.++

37,806.++

6/75 - 7/91

008

55,283.++

12,400,924.*

Citgo Empire Abo Unit Reservoir Voidage Calculations

Using Abo's Pressure

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUN 75	1273	94670	24050	13013	5.4269	1.3986	0.7615	1.8364	129691	44260	-85431	70570	-46520	-46520	
JUL 75	1273	157535	70147	14044	6.2224	1.3986	0.7615	1.8364	160485	68603	-177313	120180	-50033	-96553	
AUG 75	1273	179754	79589	14069	7.1196	1.3986	0.7615	1.8364	183949	68603	-292659	142399	-62810	-159362	
SEP 75	1273	72459	70180	8008	0.2846	1.3986	0.7615	1.8364	4186	66390	-230456	36308	33872	-125491	-125491
OCT 75	1153	86429	86429	7707	0.0000	1.3746	0.7015	2.0635	-562	68603	-161291	52911	33518	-91972	-91972
NOV 75	1153	83782	81082	8210	0.3289	1.3746	0.7015	2.0635	4973	66390	-99873	51319	29763	-62209	-62209
DEC 75	1153	77903	75330	8017	0.3209	1.3746	0.7015	2.0635	4725	68603	-35995	44374	30956	-31253	-31253
JAN 76	1153	90475	83570	9218	0.7491	1.3746	0.7015	2.0635	13576	68603	19032	56903	26667	-4586	-4586
FEB 76	1153	107175	81361	9098	2.8373	1.3746	0.7015	2.0635	52604	64177	30605	75753	5608	1022	1022
MAR 76	1153	120023	88478	10757	2.9325	1.3746	0.7015	2.0635	64309	68603	34899	86397	2081	3103	3103
APR 76	1153	121452	82853	8619	4.4784	1.3746	0.7015	2.0635	79021	66390	22269	88974	-6121	-3018	-3018
MAY 76	1153	129698	89174	8465	4.7872	1.3746	0.7015	2.0635	83004	68603	7867	96153	-6979	-9997	-9997
JUN 76	1153	149926	87514	7617	8.1938	1.3746	0.7015	2.0635	128233	66390	-53976	117484	-29970	-39967	-39967
JUL 76	1219	129544	88608	7182	5.6998	1.3878	0.7345	1.9293	78768	68603	-64141	93877	-5269	-45236	-45236
AUG 76	1219	132874	84843	7305	6.5751	1.3878	0.7345	1.9293	92453	68603	-87991	97205	-12362	-57598	-57598
SEP 76	1219	127658	84999	6956	6.1327	1.3878	0.7345	1.9293	82099	66390	-103700	93141	-8142	-65740	-65740
OCT 76	1219	117335	84725	6522	5.0000	1.3878	0.7345	1.9293	62724	68603	-97821	81678	3047	-62693	-62693
NOV 76	1219	114550	76054	6650	5.7889	1.3878	0.7345	1.9293	74076	66390	-105508	80038	-3984	-66677	-66677
DEC 76	1219	101089	75661	6491	3.9174	1.3878	0.7345	1.9293	48869	68603	-85774	65432	10229	-56448	-56448
JAN 77	1219	116327	75145	6818	6.0402	1.3878	0.7345	1.9293	79254	68603	-96424	80665	-5520	-61968	-61968
FEB 77	1219	104638	67609	6383	5.8012	1.3878	0.7345	1.9293	71254	61964	-105714	72424	-4815	-66784	-66784
MAR 77	1219	104489	77161	6405	4.2667	1.3878	0.7345	1.9293	52537	68603	-89648	68834	8327	-58456	-58456
APR 77	1219	97777	67537	5480	5.5182	1.3878	0.7345	1.9293	58182	66390	-81440	63283	4254	-54202	-54202
MAY 77	1219	105051	64505	5445	7.4465	1.3878	0.7345	1.9293	78067	68603	-90904	69410	-4905	-59107	-59107
JUN 77	1219	100869	68418	5171	6.2756	1.3878	0.7345	1.9293	62457	66390	-86971	66379	2039	-57069	-57069
JUL 77	1219	102664	67560	4992	7.0321	1.3878	0.7345	1.9293	67581	68603	-85948	67030	530	-56539	-56539
AUG 77	1219	113438	82347	5104	6.0915	1.3878	0.7345	1.9293	59835	68603	-77180	77802	4545	-51994	-51994
SEP 77	1219	115045	82973	5103	6.2849	1.3878	0.7345	1.9293	61728	66390	-72518	80556	2417	-49578	-49578
OCT 77	1218	120103	84584	5266	6.7450	1.3876	0.734	1.9310	68432	68603	-72347	84495	89	-49489	-49489
NOV 77	1218	114861	84740	4770	6.3147	1.3876	0.734	1.9310	58023	66390	-63980	80407	4333	-45156	-45156
DEC 77	1218	115194	82435	5390	6.0777	1.3876	0.734	1.9310	63098	68603	-58475	79584	2851	-42305	-42305
JAN 78	1218	120056	84643	5495	6.4446	1.3876	0.734	1.9310	68220	68603	-58092	84445	198	-42107	-42107
FEB 78	1218	102784	70112	4477	7.2977	1.3876	0.734	1.9310	62958	61964	-59086	70627	-515	-42622	-42622

	Res Press	Gas Prod	Gas Inj	Oil Prod	Rpn	Bo	Rs	Bg	Res Voidage	Monthly Voidage Allow	Cumm Over/Under Neg= Overprod	Res Void Balance Gas	Over/Under Injection Neg=Under	Unadjusted Gas Bank	Adjusted Gas Bank
	(PSIA)	(MCF)	(MCF)	(STB)					(RB)	(RB)	(RB)	(MCF)	(MCF)	(MCF)	(MCF)
MAR 78	1218	117267	81786	4934	7.1911	1.3876	0.734	1.9310	68368	68603	-58851	81664	122	-42500	-42500
APR 78	1218	112722	75799	4370	8.4492	1.3876	0.734	1.9310	71170	66390	-63631	78274	-2475	-44975	-44975
MAY 78	1218	124602	87180	4475	8.3625	1.3876	0.734	1.9310	72130	68603	-67158	89007	-1827	-46802	-46802
JUN 78	1218	102866	64360	3830	10.0538	1.3876	0.734	1.9310	74243	66390	-75010	68426	-4066	-50868	-50868
JUL 78	1218	86630	48305	3628	10.5637	1.3876	0.734	1.9310	73899	68603	-80306	51048	-2743	-53611	-53611
AUG 78	1218	108074	73670	3910	8.7990	1.3876	0.734	1.9310	66319	68603	-78023	72487	1183	-52428	-52428
SEP 78	1218	113116	75618	4151	9.0335	1.3876	0.734	1.9310	72287	66390	-83919	78672	-3054	-55482	-55482
OCT 78	1155	106381	69009	3907	9.5654	1.375	0.7025	2.0592	76677	68603	-91993	72930	-3921	-59402	-59402
NOV 78	1155	92629	52478	4301	9.3353	1.375	0.7025	2.0592	82371	66390	-107974	60239	-7761	-67163	-67163
DEC 78	1155	114007	69534	4104	10.8365	1.375	0.7025	2.0592	91285	68603	-130656	80549	-11015	-78178	-78178
JAN 79	1155	129590	85192	4542	9.7750	1.375	0.7025	2.0592	91099	68603	-153152	96117	-10925	-89103	-89103
FEB 79	1155	107568	64144	3777	11.4970	1.375	0.7025	2.0592	89148	61964	-180336	77345	-13201	-102304	-102304
MAR 79	1155	116434	73314	3805	11.3325	1.375	0.7025	2.0592	88520	68603	-200254	82986	-9672	-111977	-111977
APR 79	1155	81817	61642	2295	8.7908	1.375	0.7025	2.0592	41380	66390	-175244	49497	12145	-99831	-99831
MAY 79	1155	97692	56060	3356	12.4052	1.375	0.7025	2.0592	85488	68603	-192129	64260	-8200	-108031	-108031
JUN 79	1155	88927	60585	2756	10.2837	1.375	0.7025	2.0592	58165	66390	-183904	56591	3994	-104037	-104037
JUL 79	1155	92342	61050	2643	11.8396	1.375	0.7025	2.0592	64247	68603	-179548	58935	2115	-101921	-101921
AUG 79	1155	94987	63695	2649	11.8128	1.375	0.7025	2.0592	64247	68603	-175192	61580	2115	-99806	-99806
SEP 79	1155	100030	65147	2956	11.8007	1.375	0.7025	2.0592	71619	66390	-180421	67687	-2540	-102346	-102346
OCT 79	1216	94756	60376	2658	12.9345	1.3872	0.733	1.9345	66426	68603	-178244	59250	1126	-101220	-101220
NOV 79	1216	100682	65007	3204	11.1345	1.3872	0.733	1.9345	68914	66390	-180768	66312	-1305	-102525	-102525
DEC 79	1216	80770	54281	3152	8.4039	1.3872	0.733	1.9345	51145	68603	-163310	45257	9024	-93500	-93500
JAN 80	1216	108105	68460	2871	13.8088	1.3872	0.733	1.9345	76604	68603	-171311	72596	-4136	-97636	-97636
FEB 80	1216	98489	65033	2805	11.9273	1.3872	0.733	1.9345	64634	64177	-171768	65269	-236	-97872	-97872
MAR 80	1216	107404	59750	2721	17.5134	1.3872	0.733	1.9345	92102	68603	-195267	71897	-12147	-110020	-110020
APR 80	1216	105529	75417	2277	13.2244	1.3872	0.733	1.9345	58181	66390	-187058	71173	4244	-105776	-105776
MAY 80	1216	114292	76403	2188	17.3167	1.3872	0.733	1.9345	73228	68603	-191683	78794	-2391	-108167	-108167
JUN 80	1216	91474	63012	1961	14.5140	1.3872	0.733	1.9345	54999	66390	-180292	57124	5888	-102279	-102279
JUL 80	1216	85568	62301	1944	11.9686	1.3872	0.733	1.9345	44950	68603	-156639	50074	12227	-90052	-90052
AUG 80	1216	97623	65589	1780	17.9966	1.3872	0.733	1.9345	61914	68603	-149950	62131	3458	-86594	-86594
SEP 80	1216	95734	65737	1962	15.2890	1.3872	0.733	1.9345	57968	66390	-141528	61383	4354	-82240	-82240
OCT 80	1099	103514	72677	2106	14.6425	1.3638	0.6745	2.1806	67017	68603	-139943	71950	727	-81513	-81513
NOV 80	1099	115652	73534	2270	18.5542	1.3638	0.6745	2.1806	91599	66390	-165152	85095	-11561	-93074	-93074
DEC 80	1099	118344	71042	2247	21.0512	1.3638	0.6745	2.1806	102906	68603	-199455	86773	-15731	-108805	-108805

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JAN 81	1099	119804	77008	2256	18.9699	1.3638	0.6745	2.1806	93079	68603	-223931	88233	-11225	-120030	-120030
FEB 81	1099	107563	78244	1845	15.8911	1.3638	0.6745	2.1806	63735	61964	-225702	79056	-812	-120842	-120842
MAR 81	1099	119819	86484	2122	15.7092	1.3638	0.6745	2.1806	72463	68603	-229562	88254	-1770	-122612	-122612
APR 81	1099	119819	86852	2111	15.6168	1.3638	0.6745	2.1806	71662	66390	-234834	89270	-2418	-125029	-125029
MAY 81	1099	111423	82378	1715	16.9359	1.3638	0.6745	2.1806	63152	68603	-229382	79878	2500	-122530	-122530
JUN 81	1099	97876	70585	1225	22.2784	1.3638	0.6745	2.1806	59379	66390	-222372	67370	3215	-119315	-119315
JUL 81	1099	99486	83596	1340	11.8582	1.3638	0.6745	2.1806	34506	68603	-188275	67959	15637	-103678	-103678
AUG 81	1099	114353	85459	1284	22.5031	1.3638	0.6745	2.1806	62869	68603	-182541	82829	2630	-101048	-101048
SEP 81	1099	108306	82509	1214	21.2496	1.3638	0.6745	2.1806	56123	66390	-172273	77801	4708	-96340	-96340
OCT 81	1087	108178	78547	1210	24.4884	1.3614	0.6685	2.2117	65392	68603	-169063	77095	1452	-94888	-94888
NOV 81	1087	100523	77650	1856	12.3238	1.3614	0.6685	2.2117	50370	66390	-153043	70407	7243	-87645	-87645
DEC 81	1087	106391	55402	1528	33.3698	1.3614	0.6685	2.2117	112592	68603	-197032	75291	-19889	-107534	-107534
JAN 82	1087	109827	76725	1938	17.0805	1.3614	0.6685	2.2117	72984	68603	-201412	78706	-1981	-109515	-109515
FEB 82	1087	98961	73011	1599	16.2289	1.3614	0.6685	2.2117	57206	61964	-196654	70859	2152	-107364	-107364
MAR 82	1087	108164	78982	1730	16.8682	1.3614	0.6685	2.2117	64338	68603	-192389	77054	1928	-105435	-105435
APR 82	1087	109521	82626	1633	16.4697	1.3614	0.6685	2.2117	59232	66390	-185291	79416	3210	-102226	-102226
MAY 82	1087	111479	81587	1647	18.1494	1.3614	0.6685	2.2117	65918	68603	-182606	80373	1214	-101012	-101012
JUN 82	1087	105570	80094	1438	17.7163	1.3614	0.6685	2.2117	56176	66390	-172393	75476	4618	-96394	-96394
JUL 82	1087	107359	80275	1478	18.3248	1.3614	0.6685	2.2117	59728	68603	-163517	76262	4013	-92381	-92381
AUG 82	1087	107233	76086	1456	21.3922	1.3614	0.6685	2.2117	68716	68603	-163631	76137	-51	-92432	-92432
SEP 82	1047	107311	77403	1371	21.8147	1.3534	0.6485	2.3153	69042	66390	-166283	78548	-1145	-93578	-93578
OCT 82	1047	111967	79916	1661	19.2962	1.3534	0.6485	2.3153	73961	68603	-171641	82230	-2314	-95892	-95892
NOV 82	1047	105497	73753	1679	18.9065	1.3534	0.6485	2.3153	73247	66390	-178498	76715	-2962	-98853	-98853
DEC 82	1047	114493	76241	1740	21.9839	1.3534	0.6485	2.3153	88306	68603	-198201	84751	-8510	-107364	-107364
JAN 83	1047	122766	78197	1861	23.9490	1.3534	0.6485	2.3153	102914	68603	-232512	93016	-14819	-122183	-122183
FEB 83	1047	101790	66605	1395	25.2222	1.3534	0.6485	2.3153	81256	61964	-251804	74938	-8333	-130516	-130516
MAR 83	1047	114372	76790	1526	24.6278	1.3534	0.6485	2.3153	86787	68603	-269988	84644	-7854	-138369	-138369
APR 83	1047	109763	82463	1415	19.2933	1.3534	0.6485	2.3153	62997	66390	-266595	80998	1465	-136904	-136904
MAY 83	1047	113835	86374	1330	20.6474	1.3534	0.6485	2.3153	63383	68603	-261375	84119	2255	-134649	-134649
JUN 83	1047	102698	70434	1334	24.1859	1.3534	0.6485	2.3153	74502	66390	-269487	73938	-3504	-138153	-138153
JUL 83	1047	106385	75943	1216	25.0345	1.3534	0.6485	2.3153	70301	68603	-271186	76677	-734	-138887	-138887
AUG 83	1047	104756	74541	1235	24.4656	1.3534	0.6485	2.3153	69773	68603	-272356	75046	-505	-139392	-139392
SEP 83	1047	103538	72048	1317	23.9104	1.3534	0.6485	2.3153	72713	66390	-278678	74779	-2731	-142123	-142123
OCT 83	993	101003	78789	1256	17.6863	1.34267	0.6222	2.4586	54381	68603	-264456	73004	5785	-136338	-136338

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
NOV 83	993	108832	86082	1567	14.5182	1.34267	0.6222	2.4586	55641	66390	-253707	81710	4372	-131966	-131966
DEC 83	993	109757	82435	1409	19.3911	1.34267	0.6222	2.4586	66311	68603	-252015	81747	688	-131278	-131278
JAN 84	993	101410	78952	1389	16.1685	1.34267	0.6222	2.4586	54956	68603	-238368	73401	5551	-125728	-125728
FEB 84	993	104699	82016	1304	17.3949	1.34267	0.6222	2.4586	55525	64177	-229716	78497	3519	-122209	-122209
MAR 84	993	113111	89632	1318	17.8141	1.34267	0.6222	2.4586	57480	68603	-218593	85108	4524	-117684	-117684
APR 84	993	108513	81815	1253	21.3073	1.34267	0.6222	2.4586	65406	66390	-217609	81415	400	-117284	-117284
MAY 84	993	107770	82762	1175	21.2834	1.34267	0.6222	2.4586	61266	68603	-210272	79778	2984	-114300	-114300
JUN 84	993	107516	81487	1098	23.7058	1.34267	0.6222	2.4586	63790	66390	-207672	80430	1057	-113242	-113242
JUL 84	993	111975	87255	1095	22.5753	1.34267	0.6222	2.4586	60572	68603	-199641	83989	3266	-109976	-109976
AUG 84	993	110213	84849	1097	23.1212	1.34267	0.6222	2.4586	62155	68603	-193194	82227	2622	-107354	-107354
SEP 84	993	103593	79148	887	27.5592	1.34267	0.6222	2.4586	59935	66390	-186739	76523	2625	-104728	-104728
OCT 84	961	95353	71897	1118	20.9803	1.33659	0.6094	2.5575	59741	68603	-177877	68432	3465	-101263	-101263
NOV 84	961	100731	75065	1078	23.8089	1.33659	0.6094	2.5575	65402	66390	-176889	74679	386	-100877	-100877
DEC 84	961	105119	78863	991	26.4945	1.33659	0.6094	2.5575	66930	68603	-175216	78209	654	-100223	-100223
JAN 85	961	97701	72673	978	25.5910	1.33659	0.6094	2.5575	63792	68603	-170405	70792	1881	-98342	-98342
FEB 85	961	87591	69724	1023	17.4653	1.33659	0.6094	2.5575	45468	61964	-153909	63274	6450	-91892	-91892
MAR 85	961	99709	78454	939	22.6358	1.33659	0.6094	2.5575	54151	68603	-139457	72803	5651	-86241	-86241
APR 85	961	96451	74868	862	25.0383	1.33659	0.6094	2.5575	55007	66390	-128075	70417	4451	-81790	-81790
MAY 85	961	99966	76794	739	31.3559	1.33659	0.6094	2.5575	59099	68603	-118570	73078	3716	-78074	-78074
JUN 85	961	95599	74968	801	25.7566	1.33659	0.6094	2.5575	52586	66390	-104767	69571	5397	-72677	-72677
JUL 85	961	95270	70111	770	32.6740	1.33659	0.6094	2.5575	64173	68603	-100337	68379	1732	-70945	-70945
AUG 85	961	97225	72303	704	35.4006	1.33659	0.6094	2.5575	63582	68603	-95316	70340	1963	-68982	-68982
SEP 85	961	94874	70049	737	33.6839	1.33659	0.6094	2.5575	63327	66390	-92253	68851	1198	-67784	-67784
OCT 85	906	89990	66001	772	31.0738	1.32614	0.5874	2.7275	65216	68603	-88866	64759	1242	-66542	-66542
NOV 85	906	95472	76401	757	25.1929	1.32614	0.5874	2.7275	51806	66390	-74282	71054	5347	-61195	-61195
DEC 85	906	99037	65818	827	40.1681	1.32614	0.5874	2.7275	90375	68603	-96054	73801	-7983	-69178	-69178
JAN 86	906	98447	55899	800	53.1850	1.32614	0.5874	2.7275	115827	68603	-143279	73213	-17314	-86492	-86492
FEB 86	906	84266	53188	676	45.9734	1.32614	0.5874	2.7275	84577	61964	-165892	61479	-8291	-94783	-94783
MAR 86	906	89603	62526	963	28.1173	1.32614	0.5874	2.7275	73586	68603	-170875	64353	-1827	-96610	-96610
APR 86	906	105579	70850	743	46.7416	1.32614	0.5874	2.7275	94517	66390	-199002	81162	-10312	-106922	-106922
MAY 86	906	93692	60330	707	47.1881	1.32614	0.5874	2.7275	90798	68603	-221197	68468	-8138	-115060	-115060
JUN 86	906	84239	54555	655	45.3191	1.32614	0.5874	2.7275	80781	66390	-235588	59831	-5276	-120336	-120336
JUL 86	906	97960	64029	638	53.1834	1.32614	0.5874	2.7275	92369	68603	-259355	72743	-8714	-129050	-129050
AUG 86	906	87427	60280	649	41.8290	1.32614	0.5874	2.7275	73863	68603	-264615	62209	-1929	-130979	-130979

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
SEP 86	906	87322	62177	647	38.8640	1.32614	0.5874	2.7275	68403	66390	-266628	62915	-738	-131717	-131717
OCT 86	906	85289	69131	651	24.8203	1.32614	0.5874	2.7275	43891	68603	-241916	60070	9061	-122656	-122656
NOV 86	906	73531	50265	730	31.8712	1.32614	0.5874	2.7275	63256	66390	-238782	49116	1149	-121507	-121507
DEC 86	898	70786	49218	630	34.2349	1.32458	0.5841	2.7532	59203	68603	-229382	45804	3414	-118093	-118093
JAN 87	898	41497	38709	557	5.0054	1.32458	0.5841	2.7532	7518	68603	-168297	16522	22187	-95907	-95907
FEB 87	898	59494	55176	660	6.5424	1.32458	0.5841	2.7532	11701	61964	-118034	36920	18256	-77651	-77651
MAR 87	898	63106	58361	709	6.6925	1.32458	0.5841	2.7532	12863	68603	-62294	38116	20245	-57406	-57406
APR 87	898	53412	49148	557	7.6553	1.32458	0.5841	2.7532	11582	66390	-7486	29241	19907	-37499	-37499
MAY 87	898	50113	45413	539	8.7199	1.32458	0.5841	2.7532	12787	68603	48330	25140	20273	-17226	-17226
JUN 87	898	62251	57949	500	8.6040	1.32458	0.5841	2.7532	11703	66390	103017	38086	19863	2637	2637
JUL 87	898	40420	36848	424	8.4245	1.32458	0.5841	2.7532	9714	68603	161906	15459	21389	24026	24026
AUG 87	898	33391	18015	328	46.8780	1.32458	0.5841	2.7532	42241	68603	188268	8440	9575	33601	26229
SEP 87	898	21095	19970	503	2.2366	1.32458	0.5841	2.7532	2955	66390	251703	0	19970	53571	20662
OCT 87	898	12745	11281	355	4.1239	1.32458	0.5841	2.7532	3930	68603	316376	0	11281	64852	7966
NOV 87	900	13341	12195	351	3.2650	1.325	0.585	2.7460	3048	66390	379718	0	12195	77047	2813
DEC 87	900	10417	9482	359	2.6045	1.325	0.585	2.7460	2466	68603	445854	0	9482	86529	0
JAN 88	900	19764	17757	578	3.4723	1.325	0.585	2.7460	5349	68603	509109	0	17757	104286	0
FEB 88	900	2075	1612	84	5.5119	1.325	0.585	2.7460	1248	64177	572038	0	1612	105898	0
MAR 88	900	204	109	22	4.3182	1.325	0.585	2.7460	255	68603	640386	0	109	106007	0
APR 88	900	204	0	60	3.4000	1.325	0.585	2.7460	543	66390	706233				
MAY 88	900	184	0	47	3.9149	1.325	0.585	2.7460	492	68603	774344				
JUN 88	900	208	0	11	18.9091	1.325	0.585	2.7460	568	66390	840166				
JUL 88	900	132	0	1	132.0000	1.325	0.585	2.7460	362	68603	908407				
AUG 88	900	190	0	10	19.0000	1.325	0.585	2.7460	519	68603	976491				
SEP 88	900	120	0	1	120.0000	1.325	0.585	2.7460	329	66390	1042552				
OCT 88	900	206	0	8	25.7500	1.325	0.585	2.7460	563	68603	1110591				
NOV 88	821	213	0	8	26.6250	1.30841	0.54945	3.0320	643	66390	1176338				
DEC 88	821	174	0	8	21.7500	1.30841	0.54945	3.0320	525	68603	1244416				
JAN 89	821	161	0	8	20.1250	1.30841	0.54945	3.0320	485	68603	1312534				
FEB 89	821	180	0	16	11.2500	1.30841	0.54945	3.0320	540	61964	1373958				
MAR 89	821	4270	0	115	37.1304	1.30841	0.54945	3.0320	12905	68603	1429656				
APR 89	821	27639	0	1099	25.1492	1.30841	0.54945	3.0320	83408	66390	1412638				
MAY 89	821	24007	0	594	40.4158	1.30841	0.54945	3.0320	72576	68603	1408664				
JUN 89	821	40416	0	549	73.6175	1.30841	0.54945	3.0320	122344	66390	1352710				

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg-Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUL 89	821	45252	0	509	88.9037	1.30841	0.54945	3.0320	137021	68603	1284292				
AUG 89	821	44626	0	475	93.9495	1.30841	0.54945	3.0320	135135	68603	1217760				
SEP 89	821	41893	0	393	106.5980	1.30841	0.54945	3.0320	126878	66390	1157271				
OCT 89	821	40278	0	403	99.9454	1.30841	0.54945	3.0320	121978	68603	1103896				
NOV 89	751	33740	0	397	84.9874	1.29469	0.51795	3.3706	113546	66390	1056740				
DEC 89	751	36094	0	360	100.2611	1.29469	0.51795	3.3706	121497	68603	1003846				
JAN 90	751	35952	0	414	86.8406	1.29469	0.51795	3.3706	120994	68603	951454				
FEB 90	751	32425	0	325	99.7692	1.29469	0.51795	3.3706	109146	61964	904272				
MAR 90	751	34137	0	326	104.7147	1.29469	0.51795	3.3706	114916	68603	857958				
APR 90	751	33350	0	188	177.3936	1.29469	0.51795	3.3706	112326	66390	812022				
MAY 90	751	29124	0	238	122.3697	1.29469	0.51795	3.3706	98059	68603	782566				
JUN 90	751	27118	0	282	96.1631	1.29469	0.51795	3.3706	91278	66390	757678				
JUL 90	751	33019	0	347	95.1556	1.29469	0.51795	3.3706	111139	68603	715143				
AUG 90	751	20634	0	146	141.3288	1.29469	0.51795	3.3706	69484	68603	714262				
SEP 90	751	25996	0	165	157.5515	1.29469	0.51795	3.3706	87549	66390	693103				
OCT 90	751	31652	0	221	143.2217	1.29469	0.51795	3.3706	106588	68603	655118				
NOV 90	751	28816	0	285	101.1088	1.29469	0.51795	3.3706	97000	66390	624508				
DEC 90	751	28406	0	289	98.2907	1.29469	0.51795	3.3706	95616	68603	597495				
JAN 91	751	29042	0	335	86.6925	1.29469	0.51795	3.3706	97739	68603	568359				
FEB 91	751	25577	0	213	120.0798	1.29469	0.51795	3.3706	86115	68603	550848				
MAR 91	751	12879	0	91	141.5275	1.29469	0.51795	3.3706	43369	68603	576081				
APR 91	785	13795	0	99	139.3434	1.30115	0.53325	3.1884	43944	68603	600740				
MAY 91	785	18110	0	125	144.8800	1.30115	0.53325	3.1884	57692	68603	611651				
JUN 91	785	11880	0	182	65.2747	1.30115	0.53325	3.1884	37806	68603	642448				
JUL 91	785	17354	0	122	142.2459	1.30115	0.53325	3.1884	55283	68603	655768				

1
ARCO's Pressure
+ 15 psi q

0.*

127,987.++
158,358.++
181,492.++
4,200.++
481.--
4,971.++
4,725.++
13,449.++
51,863.++
63,400.++
77,861.++
81,780.++
126,290.++
77,767.++
91,270.++
81,052.++
61,933.++
73,134.++
48,262.++
78,243.++
70,347.++
51,881.++
57,444.++
77,062.++
61,659.++
66,713.++
59,072.++
60,939.++
67,556.++
57,282.++
62,294.++
67,349.++
62,149.++
67,491.++
70,250.++
71,199.++
73,273.++
73,273.--
73,278.++
72,938.++
65,461.++
71,351.++

2

75,507.++
81,116.++
89,887.++
89,709.++
87,781.++
87,163.++
~~40,721.++~~
84,175.++
57,275.++
63,261.++
63,261.++
70,520.++
65,559.++
68,018.++
50,486.++
75,603.++
63,792.++
90,893.++
57,421.++
72,267.++
54,279.++
44,364.++
61,101.++
57,209.++
66,024.++
90,237.++
101,373.++
91,695.++
62,789.++
71,388.++
70,598.++
62,214.++
58,495.++
33,997.++
61,932.++
55,287.++
64,281.++
49,524.++
110,673.++
71,750.++
56,239.++
63,251.++
58,290.++
64,803.++
55,226.++
58,717.++
67,551.++
67,895.++
72,734.++

3

72,033.++
86,839.++
101,203.++
79,905.++
85,343.++
61,953.++
62,331.++
73,264.++
69,132.++
68,613.++
71,504.++
53,456.++
54,697.++
65,772.++
54,023.++
54,581.++
56,502.++
64,292.++
60,222.++
62,702.++
59,540.++
61,095.++
58,911.++
58,672.++
64,229.++
65,729.++
62,648.++
44,656.++
53,181.++
54,021.++
58,036.++
51,643.++
63,020.++
62,438.++
62,188.++
64,115.++
50,933.++
88,847.++
113,866.++
83,146.++
72,344.++
92,918.++
89,262.++
79,414.++
90,806.++
72,614.++
67,247.++
43,151.++
62,187.++

4

58,190.+.+

7,394.+.+

11,506.+.+

12,648.+.+

11,388.+.+

12,572.+.+

11,506.+.+

9,551.+.+

41,516.+.+

2,908.+.+

3,866.+.+

3,000.+.+

2,428.+.+

5,263.+.+

1,227.+.+

 $\frac{4}{15} - \frac{3}{88}$
 152

251.+.+

9,564,070.*

~~9,564,070.+.+~~

535.+.+

484.+.+

559.+.+

356.+.+

510.+.+

324.+.+

554.+.+

631.+.+

515.+.+

477.+.+

530.+.+

12,675.+.+

81,921.+.+

71,280.+.+

120,157.+.+

134,571.+.+

132,718.+.+

124,609.+.+

119,796.+.+

110,842.+.+

118,604.+.+

118,113.+.+

106,547.+.+

112,179.+.+

109,649.+.+

95,723.+.+

89,104.+.+

103,492.+.+

67,828.+.+

5

85,462.+.+

104,048.+.+

94,689.+.+

 $\frac{4}{15} - \frac{12}{90}$
 034

11,781,891.*

11,781,891.+.+

95,411.+.+

84,063.+.+

42,336.+.+

43,944.+.+

57,692.+.+

37,806.+.+

 $\frac{4}{15} - \frac{1}{91}$
 008

55,283.+.+

12,198,426.*

Citgo Empire Abo Unit Reservoir Voidage Calculations

Arco Press + 15 psia

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUN 75	1288	94670	24050	13013	5.4269	1.4016	0.769	1.8106	127987	44260	-83727	70292	-46242	-46242	
JUL 75	1288	157535	70147	14044	6.2224	1.4016	0.769	1.8106	158358	68603	-173482	119718	-49571	-95813	
AUG 75	1288	179754	79589	14069	7.1196	1.4016	0.769	1.8106	181492	68603	-286371	141937	-62348	-158160	
SEP 75	1288	72459	70180	8008	0.2846	1.4016	0.769	1.8106	4200	66390	-224182	35833	34347	-123814	-123814
OCT 75	1168	86429	86429	7707	0.0000	1.3776	0.709	2.0311	-481	68603	-155097	52416	34013	-89801	-89801
NOV 75	1168	83782	81082	8210	0.3289	1.3776	0.709	2.0311	4971	66390	-93679	50843	30239	-59562	-59562
DEC 75	1168	77903	75330	8017	0.3209	1.3776	0.709	2.0311	4725	68603	-29801	43881	31449	-28112	-28112
JAN 76	1168	90475	83570	9218	0.7491	1.3776	0.709	2.0311	13449	68603	25353	56416	27154	-958	-958
FEB 76	1168	107175	81361	9098	2.8373	1.3776	0.709	2.0311	51863	64177	37667	75298	6063	5105	5105
MAR 76	1168	120023	88478	10757	2.9325	1.3776	0.709	2.0311	63400	68603	42870	85916	2562	7667	7667
APR 76	1168	121452	82853	8619	4.4784	1.3776	0.709	2.0311	77861	66390	31400	88501	-5648	2019	2019
MAY 76	1168	129698	89174	8465	4.7872	1.3776	0.709	2.0311	81780	68603	18222	95662	-6488	-4469	-4469
JUN 76	1168	149926	87514	7617	8.1938	1.3776	0.709	2.0311	126290	66390	-41678	117005	-29491	-33960	-33960
JUL 76	1234	129544	88608	7182	5.6998	1.3908	0.742	1.9035	77767	68603	-50843	93422	-4814	-38774	-38774
AUG 76	1234	132874	84843	7305	6.5751	1.3908	0.742	1.9035	91270	68603	-73510	96751	-11908	-50682	-50682
SEP 76	1234	127658	84999	6956	6.1327	1.3908	0.742	1.9035	81052	66390	-88172	92702	-7703	-58385	-58385
OCT 76	1234	117335	84725	6522	5.0000	1.3908	0.742	1.9035	61933	68603	-81501	81221	3504	-54881	-54881
NOV 76	1234	114550	76054	6650	5.7889	1.3908	0.742	1.9035	73134	66390	-88246	79597	-3543	-58424	-58424
DEC 76	1234	101089	75661	6491	3.9174	1.3908	0.742	1.9035	48262	68603	-67905	64975	10686	-47738	-47738
JAN 77	1234	116327	75145	6818	6.0402	1.3908	0.742	1.9035	78243	68603	-77545	80210	-5065	-52802	-52802
FEB 77	1234	104638	67609	6383	5.8012	1.3908	0.742	1.9035	70347	61964	-85929	72013	-4404	-57207	-57207
MAR 77	1234	104489	77161	6405	4.2667	1.3908	0.742	1.9035	51881	68603	-69207	68376	8785	-48422	-48422
APR 77	1234	97777	67537	5480	5.5182	1.3908	0.742	1.9035	57444	66390	-60261	62837	4700	-43722	-43722
MAY 77	1234	105051	64505	5445	7.4465	1.3908	0.742	1.9035	77062	68603	-68720	68949	-4444	-48166	-48166
JUN 77	1234	100869	68418	5171	6.2756	1.3908	0.742	1.9035	61659	66390	-63990	65933	2485	-45681	-45681
JUL 77	1234	102664	67560	4992	7.0321	1.3908	0.742	1.9035	66713	68603	-62100	66567	993	-44688	-44688
AUG 77	1234	113438	82347	5104	6.0915	1.3908	0.742	1.9035	59072	68603	-52569	77340	5007	-39681	-39681
SEP 77	1234	115045	82973	5103	6.2849	1.3908	0.742	1.9035	60939	66390	-47118	80110	2863	-36818	-36818
OCT 77	1233	120103	84584	5266	6.7450	1.3906	0.7415	1.9052	67556	68603	-46071	84034	550	-36268	-36268
NOV 77	1233	114861	84740	4770	6.3147	1.3906	0.7415	1.9052	57282	66390	-36963	79960	4780	-31488	-31488
DEC 77	1233	115194	82435	5390	6.0777	1.3906	0.7415	1.9052	62294	68603	-30655	79124	3311	-28177	-28177
JAN 78	1233	120056	84643	5495	6.4446	1.3906	0.7415	1.9052	67349	68603	-29400	83985	658	-27518	-27518
FEB 78	1233	102784	70112	4477	7.2977	1.3906	0.7415	1.9052	62149	61964	-29585	70209	-97	-27615	-27615

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
MAR 78	1233	117267	81786	4934	7.1911	1.3906	0.7415	1.9052	67491	68603	-28473	81202	584	-27031	-27031
APR 78	1233	112722	75799	4370	8.4492	1.3906	0.7415	1.9052	70250	66390	-32333	77825	-2026	-29058	-29058
MAY 78	1233	124602	87180	4475	8.3625	1.3906	0.7415	1.9052	71199	68603	-34929	88542	-1362	-30420	-30420
JUN 78	1233	102866	64360	3830	10.0538	1.3906	0.7415	1.9052	73278	66390	-41818	67975	-3615	-34036	-34036
JUL 78	1233	86630	48305	3628	10.5637	1.3906	0.7415	1.9052	72938	68603	-46153	50580	-2275	-36311	-36311
AUG 78	1233	108074	73670	3910	8.7990	1.3906	0.7415	1.9052	65461	68603	-43011	72021	1649	-34662	-34662
SEP 78	1233	113116	75618	4151	9.0335	1.3906	0.7415	1.9052	71351	66390	-47972	78222	-2604	-37266	-37266
OCT 78	1170	106381	69009	3907	9.5654	1.378	0.71	2.0268	75507	68603	-54876	72415	-3406	-40672	-40672
NOV 78	1170	92629	52478	4301	9.3353	1.378	0.71	2.0268	81116	66390	-69601	59743	-7265	-47938	-47938
DEC 78	1170	114007	69534	4104	10.8365	1.378	0.71	2.0268	89887	68603	-90886	80035	-10501	-58439	-58439
JAN 79	1170	129590	85192	4542	9.7750	1.378	0.71	2.0268	89709	68603	-111991	95605	-10413	-68852	-68852
FEB 79	1170	107568	64144	3777	11.4970	1.378	0.71	2.0268	87781	61964	-137809	76882	-12738	-81590	-81590
MAR 79	1170	116434	73314	3805	11.3325	1.378	0.71	2.0268	87163	68603	-156369	82471	-9157	-90748	-90748
APR 79	1170	81817	61642	2295	8.7908	1.378	0.71	2.0268	40751	66390	-130730	48992	12650	-78098	-78098
MAY 79	1170	97692	56060	3356	12.4052	1.378	0.71	2.0268	84175	68603	-146302	63743	-7683	-85781	-85781
JUN 79	1170	88927	60585	2756	10.2837	1.378	0.71	2.0268	57275	66390	-137187	56088	4497	-81284	-81284
JUL 79	1170	92342	61050	2643	11.8396	1.378	0.71	2.0268	63261	68603	-131845	58414	2636	-78648	-78648
AUG 79	1170	94987	63695	2649	11.8128	1.378	0.71	2.0268	63261	68603	-126503	61059	2636	-76012	-76012
SEP 79	1170	100030	65147	2956	11.8007	1.378	0.71	2.0268	70520	66390	-130634	67185	-2038	-78050	-78050
OCT 79	1231	94756	60376	2658	12.9345	1.3902	0.7405	1.9087	65559	68603	-127590	58781	1595	-76455	-76455
NOV 79	1231	100682	65007	3204	11.1345	1.3902	0.7405	1.9087	68018	66390	-129218	65860	-853	-77308	-77308
DEC 79	1231	80770	54281	3152	8.4039	1.3902	0.7405	1.9087	50486	68603	-111101	44789	9492	-67816	-67816
JAN 80	1231	108105	68460	2871	13.8088	1.3902	0.7405	1.9087	75603	68603	-118101	72127	-3667	-71484	-71484
FEB 80	1231	98489	65033	2805	11.9273	1.3902	0.7405	1.9087	63792	64177	-117715	64831	202	-71282	-71282
MAR 80	1231	107404	59750	2721	17.5134	1.3902	0.7405	1.9087	90893	68603	-140006	71428	-11678	-82960	-82960
APR 80	1231	105529	75417	2277	13.2244	1.3902	0.7405	1.9087	57421	66390	-131037	70718	4699	-78261	-78261
MAY 80	1231	114292	76403	2188	17.3167	1.3902	0.7405	1.9087	72267	68603	-134701	78323	-1920	-80181	-80181
JUN 80	1231	91474	63012	1961	14.5140	1.3902	0.7405	1.9087	54279	66390	-122591	56667	6345	-73836	-73836
JUL 80	1231	85568	62301	1944	11.9686	1.3902	0.7405	1.9087	44364	68603	-98352	49602	12699	-61137	-61137
AUG 80	1231	97623	65589	1780	17.9966	1.3902	0.7405	1.9087	61101	68603	-90850	61659	3930	-57207	-57207
SEP 80	1231	95734	65737	1962	15.2890	1.3902	0.7405	1.9087	57209	66390	-81669	60927	4810	-52397	-52397
OCT 80	1114	103514	72677	2106	14.6425	1.3668	0.682	2.1478	66024	68603	-79091	71476	1201	-51196	-51196
NOV 80	1114	115652	73534	2270	18.5542	1.3668	0.682	2.1478	90237	66390	-102938	84637	-11103	-62299	-62299
DEC 80	1114	118344	71042	2247	21.0512	1.3668	0.682	2.1478	101373	68603	-135708	86300	-15258	-77557	-77557

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JAN 81	1114	119804	77008	2256	18.9699	1.3668	0.682	2.1478	91695	68603	-158799	87759	-10751	-88308	-88308
FEB 81	1114	107563	78244	1845	15.8911	1.3668	0.682	2.1478	62789	61964	-159625	78628	-384	-88693	-88693
MAR 81	1114	119819	86484	2122	15.7092	1.3668	0.682	2.1478	71388	68603	-162409	87781	-1297	-89989	-89989
APR 81	1114	119819	86852	2111	15.6168	1.3668	0.682	2.1478	70598	66390	-166618	88811	-1959	-91949	-91949
MAY 81	1114	111423	82378	1715	16.9359	1.3668	0.682	2.1478	62214	68603	-160228	79403	2975	-88974	-88974
JUN 81	1114	97876	70585	1225	22.2784	1.3668	0.682	2.1478	58495	66390	-152333	66909	3676	-85298	-85298
JUL 81	1114	99486	83596	1340	11.8582	1.3668	0.682	2.1478	33997	68603	-117727	67483	16113	-69185	-69185
AUG 81	1114	114353	85459	1284	22.5031	1.3668	0.682	2.1478	61932	68603	-111055	82353	3106	-66079	-66079
SEP 81	1114	108306	82509	1214	21.2496	1.3668	0.682	2.1478	55287	66390	-99952	77339	5170	-60909	-60909
OCT 81	1102	108178	78547	1210	24.4884	1.3644	0.676	2.1737	64281	68603	-95630	76559	1988	-58921	-58921
NOV 81	1102	100523	77650	1856	12.3238	1.3644	0.676	2.1737	49524	66390	-78764	69891	7759	-51162	-51162
DEC 81	1102	106391	55402	1528	33.3698	1.3644	0.676	2.1737	110673	68603	-120834	74756	-19354	-70516	-70516
JAN 82	1102	109827	76725	1938	17.0805	1.3644	0.676	2.1737	71750	68603	-123981	78173	-1448	-71964	-71964
FEB 82	1102	98961	73011	1599	16.2289	1.3644	0.676	2.1737	56239	61964	-118256	70377	2634	-69330	-69330
MAR 82	1102	108164	78982	1730	16.8682	1.3644	0.676	2.1737	63251	68603	-112904	76520	2462	-66867	-66867
APR 82	1102	109521	82626	1633	16.4697	1.3644	0.676	2.1737	58290	66390	-104803	78899	3727	-63141	-63141
MAY 82	1102	111479	81587	1647	18.1494	1.3644	0.676	2.1737	64803	68603	-101003	79839	1748	-61393	-61393
JUN 82	1102	105570	80094	1438	17.7163	1.3644	0.676	2.1737	55226	66390	-89839	74958	5136	-56256	-56256
JUL 82	1102	107359	80275	1478	18.3248	1.3644	0.676	2.1737	58717	68603	-79952	75727	4548	-51708	-51708
AUG 82	1102	107233	76086	1456	21.3922	1.3644	0.676	2.1737	67551	68603	-78900	75602	484	-51224	-51224
SEP 82	1062	107311	77403	1371	21.8147	1.3564	0.656	2.2764	67895	66390	-80405	78064	-661	-51886	-51886
OCT 82	1062	111967	79916	1661	19.2962	1.3564	0.656	2.2764	72734	68603	-84537	81731	-1815	-53700	-53700
NOV 82	1062	105497	73753	1679	18.9065	1.3564	0.656	2.2764	72033	66390	-90179	76232	-2479	-56179	-56179
DEC 82	1062	114493	76241	1740	21.9839	1.3564	0.656	2.2764	86839	68603	-108416	84252	-8011	-64190	-64190
JAN 83	1062	122766	78197	1861	23.9490	1.3564	0.656	2.2764	101203	68603	-141016	92518	-14321	-78511	-78511
FEB 83	1062	101790	66605	1395	25.2222	1.3564	0.656	2.2764	79905	61964	-158956	74486	-7881	-86392	-86392
MAR 83	1062	114372	76790	1526	24.6278	1.3564	0.656	2.2764	85343	68603	-175697	84144	-7354	-93746	-93746
APR 83	1062	109763	82463	1415	19.2933	1.3564	0.656	2.2764	61953	66390	-171259	80514	1949	-91796	-91796
MAY 83	1062	113835	86374	1330	20.6474	1.3564	0.656	2.2764	62331	68603	-164987	83619	2755	-89041	-89041
JUN 83	1062	102698	70434	1334	24.1859	1.3564	0.656	2.2764	73264	66390	-171861	73454	-3020	-92061	-92061
JUL 83	1062	106385	75943	1216	25.0345	1.3564	0.656	2.2764	69132	68603	-172390	76176	-233	-92293	-92293
AUG 83	1062	104756	74541	1235	24.4656	1.3564	0.656	2.2764	68613	68603	-172400	74545	-4	-92297	-92297
SEP 83	1062	103538	72048	1317	23.9104	1.3564	0.656	2.2764	71504	66390	-177514	74295	-2247	-94544	-94544
OCT 83	1008	101003	78789	1256	17.6863	1.3456	0.629	2.4163	53456	68603	-162368	72520	6269	-88275	-88275

	Res Press	Gas Prod	Gas Inj	Oil Prod	Rpn	Bo	Rs	Bg	Res Voidage	Monthly Voidage Allow	Cumm Over/Under Neg= Overprod	Res Void Balance Gas	Over/Under Injection Neg=Under	Unadjusted Gas Bank	Adjusted Gas Bank
	(PSIA)	(MCF)	(MCF)	(STB)					(RB)	(RB)	(RB)	(MCF)	(MCF)	(MCF)	(MCF)
NOV 83	1008	108832	86082	1567	14.5182	1.3456	0.629	2.4163	54697	66390	-150675	81243	4839	-83436	-83436
DEC 83	1008	109757	82435	1409	19.3911	1.3456	0.629	2.4163	65772	68603	-147844	81263	1172	-82265	-82265
JAN 84	1008	101410	78952	1389	16.1685	1.3456	0.629	2.4163	54023	68603	-133264	72918	6034	-76231	-76231
FEB 84	1008	104699	82016	1304	17.3949	1.3456	0.629	2.4163	54581	64177	-123668	78045	3971	-72259	-72259
MAR 84	1008	113111	89632	1318	17.8141	1.3456	0.629	2.4163	56502	68603	-111567	84624	5008	-67251	-67251
APR 84	1008	108513	81815	1253	21.3073	1.3456	0.629	2.4163	64292	66390	-109459	80947	868	-66383	-66383
MAY 84	1008	107770	82762	1175	21.2834	1.3456	0.629	2.4163	60222	68603	-101087	79293	3469	-62914	-62914
JUN 84	1008	107516	81487	1098	23.7058	1.3456	0.629	2.4163	62702	66390	-97399	79961	1526	-61388	-61388
JUL 84	1008	111975	87255	1095	22.5753	1.3456	0.629	2.4163	59540	68603	-88336	83504	3751	-57637	-57637
AUG 84	1008	110213	84849	1097	23.1212	1.3456	0.629	2.4163	61095	68603	-80828	81742	3107	-54530	-54530
SEP 84	1008	103593	79148	887	27.5592	1.3456	0.629	2.4163	58911	66390	-73350	76053	3095	-51435	-51435
OCT 84	976	95353	71897	1118	20.9803	1.33944	0.6154	2.5112	58672	68603	-63418	67942	3955	-47480	-47480
NOV 84	976	100731	75065	1078	23.8089	1.33944	0.6154	2.5112	64229	66390	-61258	74205	860	-46619	-46619
DEC 84	976	105119	78863	991	26.4945	1.33944	0.6154	2.5112	65729	68603	-58384	77718	1145	-45475	-45475
JAN 85	976	97701	72673	978	25.5910	1.33944	0.6154	2.5112	62648	68603	-52429	70302	2371	-43103	-43103
FEB 85	976	87591	69724	1023	17.4653	1.33944	0.6154	2.5112	44656	61964	-35121	62832	6892	-36211	-36211
MAR 85	976	99709	78454	939	22.6358	1.33944	0.6154	2.5112	53181	68603	-19699	72313	6141	-30070	-30070
APR 85	976	96451	74868	862	25.0383	1.33944	0.6154	2.5112	54021	66390	-7330	69942	4926	-25144	-25144
MAY 85	976	99966	76794	739	31.3559	1.33944	0.6154	2.5112	58036	68603	3236	72586	4208	-20936	-20936
JUN 85	976	95599	74968	801	25.7566	1.33944	0.6154	2.5112	51643	66390	17984	69095	5873	-15064	-15064
JUL 85	976	95270	70111	770	32.6740	1.33944	0.6154	2.5112	63020	68603	23567	67888	2223	-12840	-12840
AUG 85	976	97225	72303	704	35.4006	1.33944	0.6154	2.5112	62438	68603	29732	69848	2455	-10385	-10385
SEP 85	976	94874	70049	737	33.6839	1.33944	0.6154	2.5112	62188	66390	33934	68376	1673	-8712	-8712
OCT 85	921	89990	66001	772	31.0738	1.32899	0.5934	2.6811	64115	58603	38422	64327	1674	-7038	-7038
NOV 85	921	95472	76401	757	25.1929	1.32899	0.5934	2.6811	50933	66390	53879	70636	5765	-1273	-1273
DEC 85	921	99037	65818	827	40.1681	1.32899	0.5934	2.6811	88847	68603	33635	73369	-7551	-8823	-8823
JAN 86	921	98447	55899	800	53.1850	1.32899	0.5934	2.6811	113866	68603	-11628	72781	-16882	-25706	-25706
FEB 86	921	84266	53188	676	45.9734	1.32899	0.5934	2.6811	83146	61964	-32811	61089	-7901	-33606	-33606
MAR 86	921	89603	62526	963	28.1173	1.32899	0.5934	2.6811	72344	68603	-36552	63921	-1395	-35002	-35002
APR 86	921	105579	70850	743	46.7416	1.32899	0.5934	2.6811	92918	66390	-63080	80744	-9894	-44896	-44896
MAY 86	921	93692	60330	707	47.1881	1.32899	0.5934	2.6811	89262	68603	-83739	68035	-7705	-52601	-52601
JUN 86	921	84239	54555	655	45.3191	1.32899	0.5934	2.6811	79414	66390	-96763	59413	-4858	-57459	-57459
JUL 86	921	97960	64029	638	53.1834	1.32899	0.5934	2.6811	90806	68603	-118966	72310	-8281	-65740	-65740
AUG 86	921	87427	60280	649	41.8290	1.32899	0.5934	2.6811	72614	68603	-122977	61776	-1496	-67236	-67236

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
SEP 86	921	87322	62177	647	38.8640	1.32899	0.5934	2.6811	67247	66390	-123834	62497	-320	-67556	-67556
OCT 86	921	85289	69131	651	24.8203	1.32899	0.5934	2.6811	43151	68603	-98382	59638	9493	-58063	-58063
NOV 86	921	73531	50265	730	31.8712	1.32899	0.5934	2.6811	62187	66390	-94179	48698	1567	-56495	-56495
DEC 86	913	70786	49218	630	34.2349	1.32747	0.5902	2.7058	58190	68603	-83766	45369	3849	-52647	-52647
JAN 87	913	41497	38709	557	5.0054	1.32747	0.5902	2.7058	7394	68603	-22556	16088	22621	-30026	-30026
FEB 87	913	59494	55176	660	6.5424	1.32747	0.5902	2.7058	11506	61964	27902	36528	18648	-11378	-11378
MAR 87	913	63106	58361	709	6.6925	1.32747	0.5902	2.7058	12648	68603	83857	37682	20679	9302	9302
APR 87	913	53412	49148	557	7.6553	1.32747	0.5902	2.7058	11388	66390	138859	28821	20327	29629	29629
MAY 87	913	50113	45413	539	8.7199	1.32747	0.5902	2.7058	12572	68603	194890	24706	20707	50337	34343
JUN 87	913	62251	57949	500	8.6040	1.32747	0.5902	2.7058	11506	66390	249774	37665	20284	70620	30403
JUL 87	913	40420	36848	424	8.4245	1.32747	0.5902	2.7058	9551	68603	308826	15024	21824	92444	30397
AUG 87	913	33391	18015	328	46.8780	1.32747	0.5902	2.7058	41516	68603	335913	8005	10010	102455	25798
SEP 87	913	21095	19970	503	2.2366	1.32747	0.5902	2.7058	2908	66390	399394	0	19970	122425	20231
OCT 87	913	12745	11281	355	4.1239	1.32747	0.5902	2.7058	3866	68603	464132	0	11281	133706	7676
NOV 87	915	13341	12195	351	3.2650	1.32785	0.591	2.6997	3000	66390	527522	0	12195	145901	2668
DEC 87	915	10417	9482	359	2.6045	1.32785	0.591	2.6997	2428	68603	593697	0	9482	155383	0
JAN 88	915	19764	17757	578	3.4723	1.32785	0.591	2.6997	5263	68603	657036	0	17757	173140	0
FEB 88	915	2075	1612	84	5.5119	1.32785	0.591	2.6997	1227	64177	719986	0	1612	174752	0
MAR 88	915	204	109	22	4.3182	1.32785	0.591	2.6997	251	68603	788338	0	109	174861	0
APR 88	915	204	0	60	3.4000	1.32785	0.591	2.6997	535	66390	854194				
MAY 88	915	184	0	47	3.9149	1.32785	0.591	2.6997	484	68603	922312				
JUN 88	915	208	0	11	18.9091	1.32785	0.591	2.6997	559	66390	988144				
JUL 88	915	132	0	1	132.0000	1.32785	0.591	2.6997	356	68603	1056391				
AUG 88	915	190	0	10	19.0000	1.32785	0.591	2.6997	510	68603	1124484				
SEP 88	915	120	0	1	120.0000	1.32785	0.591	2.6997	324	66390	1190550				
OCT 88	915	206	0	8	25.7500	1.32785	0.591	2.6997	554	68603	1258599				
NOV 88	836	213	0	8	26.6250	1.31156	0.5562	2.9777	631	66390	1324357				
DEC 88	836	174	0	8	21.7500	1.31156	0.5562	2.9777	515	68603	1392445				
JAN 89	836	161	0	8	20.1250	1.31156	0.5562	2.9777	477	68603	1460571				
FEB 89	836	180	0	16	11.2500	1.31156	0.5562	2.9777	530	61964	1522005				
MAR 89	836	4270	0	115	37.1304	1.31156	0.5562	2.9777	12675	68603	1577933				
APR 89	836	27639	0	1099	25.1492	1.31156	0.5562	2.9777	81921	66390	1562401				
MAY 89	836	24007	0	594	40.4158	1.31156	0.5562	2.9777	71280	68603	1559724				
JUN 89	836	40416	0	549	73.6175	1.31156	0.5562	2.9777	120157	66390	1505957				

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUL 89	836	45252	0	509	88.9037	1.31156	0.5562	2.9777	134571	68603	1439990				
AUG 89	836	44626	0	475	93.9495	1.31156	0.5562	2.9777	132718	68603	1375875				
SEP 89	836	41893	0	393	106.5980	1.31156	0.5562	2.9777	124609	66390	1317656				
OCT 89	836	40278	0	403	99.9454	1.31156	0.5562	2.9777	119796	68603	1266463				
NOV 89	766	33740	0	397	84.9874	1.29754	0.5247	3.2902	110842	66390	1222010				
DEC 89	766	36094	0	360	100.2611	1.29754	0.5247	3.2902	118604	68603	1172010				
JAN 90	766	35952	0	414	86.8406	1.29754	0.5247	3.2902	118113	68603	1122500				
FEB 90	766	32425	0	325	99.7692	1.29754	0.5247	3.2902	106547	61964	1077917				
MAR 90	766	34137	0	326	104.7147	1.29754	0.5247	3.2902	112179	68603	1034341				
APR 90	766	33350	0	188	177.3936	1.29754	0.5247	3.2902	109649	66390	991082				
MAY 90	766	29124	0	238	122.3697	1.29754	0.5247	3.2902	95723	68603	963962				
JUN 90	766	27118	0	282	96.1631	1.29754	0.5247	3.2902	89104	66390	941248				
JUL 90	766	33019	0	347	95.1556	1.29754	0.5247	3.2902	108492	68603	901360				
AUG 90	766	20634	0	146	141.3288	1.29754	0.5247	3.2902	67828	68603	902135				
SEP 90	766	25996	0	165	157.5515	1.29754	0.5247	3.2902	85462	66390	883062				
OCT 90	766	31652	0	221	143.2217	1.29754	0.5247	3.2902	104048	68603	847617				
NOV 90	766	28816	0	285	101.1088	1.29754	0.5247	3.2902	94689	66390	819318				
DEC 90	766	28406	0	289	98.2907	1.29754	0.5247	3.2902	93339	68603	794582				
JAN 91	766	29042	0	335	86.6925	1.29754	0.5247	3.2902	95411	68603	767774				
FEB 91	766	25577	0	213	120.0798	1.29754	0.5247	3.2902	84063	68603	752314				
MAR 91	766	12879	0	91	141.5275	1.29754	0.5247	3.2902	42336	68603	778581				
APR 91	785	13795	0	99	139.3434	1.30115	0.53325	3.1884	43944	68603	803239				
MAY 91	785	18110	0	125	144.8800	1.30115	0.53325	3.1884	57692	68603	814150				
JUN 91	785	11880	0	182	65.2747	1.30115	0.53325	3.1884	37806	68603	844948				
JUL 91	785	17354	0	122	142.2459	1.30115	0.53325	3.1884	55283	68603	858268				

1 OXY's Pressures

140,76 .+
 174,29 .+
 199,889.+
 4,14 .+
 408.-
 4,973.+
 4,729.
 13,34 .+
 51,225.+
 62,616.+
 76,859.+
 80,723.+
 124,610.+
 75,84 .+
 88,99 .+
 79,035.+
 60,41 .+
 71,32 .+
 47,09 .+
 76,29 .+
 68,602.+
 50,62 .+
 56,023.+
 75,127.+
 60,123.+
 65,042.+
 53,007.+
 59,839.+
 66,274.+
 56,19 .+
 61,119.+
 66,074.+
 60,966.+
 66,207.+
 8,905.+
 69,836.+
 71,867.+
 71,53 .+
 66,319.+
 72,287.+
 72,050.+
 78,861.+
 87,377.+
 87,211.+

2

85,325.+
 84,726.+
 39,620.+
 81,815.+
 55,678.+
 61,490.+
 61,490 .+
 68,546.+
 67,568.+
 69,512.+
 51,586.+
 77,272.+
 65,195.+
 92,903.+
 58,683.+
 73,869.+
 55,479.+
 45,340 .+
 62,457.+
 58,475.+
 60,109.+
 86,030.+
 96,64 .+
 87,419.+
 59,869.+
 68,063.+
 67,316.+
 59,317.+
 55,761.+
 32,424.+
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Citgo Empire Abo Unit Reservoir Voidage Calculations

Using Oxy's Pressure

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUN 75	1181	94670	24050	13013	5.4269	1.3802	0.7155	2.0030	140765	44260	-96505	72229	-48179	-48179	
JUL 75	1181	157535	70147	14044	6.2224	1.3802	0.7155	2.0030	174298	68603	-202200	122914	-52767	-100947	
AUG 75	1181	179754	79589	14069	7.1196	1.3802	0.7155	2.0030	199889	68603	-333486	145132	-65543	-166490	
SEP 75	1181	72459	70180	8008	0.2846	1.3802	0.7155	2.0030	4141	66390	-271237	39103	31077	-135413	-135413
OCT 75	1181	86429	86429	7707	0.0000	1.3802	0.7155	2.0030	-408	68603	-202226	51976	34453	-100959	-100959
NOV 75	1181	83782	81082	8210	0.3289	1.3802	0.7155	2.0030	4973	66390	-140809	50420	30662	-70298	-70298
DEC 75	1181	77903	75330	8017	0.3209	1.3802	0.7155	2.0030	4729	68603	-76935	43442	31888	-38409	-38409
JAN 76	1181	90475	83570	9218	0.7491	1.3802	0.7155	2.0030	13343	68603	-21675	55982	27588	-10821	-10821
FEB 76	1181	107175	81361	9098	2.8373	1.3802	0.7155	2.0030	51225	64177	-8722	74895	6466	-4354	-4354
MAR 76	1181	120023	88478	10757	2.9325	1.3802	0.7155	2.0030	62616	68603	-2735	85489	2989	-1366	-1366
APR 76	1181	121452	82853	8619	4.4784	1.3802	0.7155	2.0030	76859	66390	-13204	88079	-5226	-6592	-6592
MAY 76	1181	129698	89174	8465	4.7872	1.3802	0.7155	2.0030	80723	68603	-25324	95225	-6051	-12643	-12643
JUN 76	1181	149926	87514	7617	8.1938	1.3802	0.7155	2.0030	124610	66390	-83544	116580	-29066	-41709	-41709
JUL 76	1263	129544	88608	7182	5.6998	1.3966	0.7565	1.8536	75840	68603	-90781	92512	-3904	-45613	-45613
AUG 76	1263	132874	84843	7305	6.5751	1.3966	0.7565	1.8536	88991	68603	-111168	95842	-10999	-56611	-56611
SEP 76	1263	127658	84999	6956	6.1327	1.3966	0.7565	1.8536	79035	66390	-123813	91821	-6822	-63433	-63433
OCT 76	1263	117335	84725	6522	5.0000	1.3966	0.7565	1.8536	60410	68603	-115621	80305	4420	-59013	-59013
NOV 76	1263	114550	76054	6650	5.7889	1.3966	0.7565	1.8536	71320	66390	-120551	78714	-2660	-61673	-61673
DEC 76	1263	101089	75661	6491	3.9174	1.3966	0.7565	1.8536	47097	68603	-99045	64059	11602	-50071	-50071
JAN 77	1263	116327	75145	6818	6.0402	1.3966	0.7565	1.8536	76298	68603	-106740	79296	-4151	-54222	-54222
FEB 77	1263	104638	67609	6383	5.8012	1.3966	0.7565	1.8536	68602	61964	-113378	71190	-3581	-57803	-57803
MAR 77	1263	104489	77161	6405	4.2667	1.3966	0.7565	1.8536	50620	68603	-95395	67459	9702	-48102	-48102
APR 77	1263	97777	67537	5480	5.5182	1.3966	0.7565	1.8536	56023	66390	-85028	61944	5593	-42509	-42509
MAY 77	1263	105051	64505	5445	7.4465	1.3966	0.7565	1.8536	75127	68603	-91552	68024	-3519	-46029	-46029
JUN 77	1263	100869	68418	5171	6.2756	1.3966	0.7565	1.8536	60123	66390	-85285	65037	3381	-42648	-42648
JUL 77	1263	102664	67560	4992	7.0321	1.3966	0.7565	1.8536	65042	68603	-81724	65639	1921	-40727	-40727
AUG 77	1255	113438	82347	5104	6.0915	1.395	0.7525	1.8674	58007	68603	-71128	76673	5674	-35052	-35052
SEP 77	1255	115045	82973	5103	6.2849	1.395	0.7525	1.8674	59839	66390	-64577	79465	3508	-31544	-31544
OCT 77	1255	120103	84584	5266	6.7450	1.395	0.7525	1.8674	66274	68603	-62248	83337	1247	-30297	-30297
NOV 77	1255	114861	84740	4770	6.3147	1.395	0.7525	1.8674	56199	66390	-52058	79283	5457	-24840	-24840
DEC 77	1255	115194	82435	5390	6.0777	1.395	0.7525	1.8674	61119	68603	-44574	78427	4008	-20833	-20833
JAN 78	1255	120056	84643	5495	6.4446	1.395	0.7525	1.8674	66074	68603	-42045	83289	1354	-19478	-19478
FEB 78	1255	102784	70112	4477	7.2977	1.395	0.7525	1.8674	60966	61964	-41047	69578	534	-18944	-18944

	Res Press	Gas Prod	Gas Inj	Oil Prod	Rpn	Bo	Rs	Bg	Res Voidage	Monthly Voidage Allow	Cumm Over/Under Neg= Overprod	Res Void Balance Gas	Over/Under Injection Neg=Under	Unadjusted Gas Bank	Adjusted Gas Bank
	(PSIA)	(MCF)	(MCF)	(STB)					(RB)	(RB)	(RB)	(MCF)	(MCF)	(MCF)	(MCF)
MAR 78	1255	117267	81786	4934	7.1911	1.395	0.7525	1.8674	66207	68603	-38650	80503	1283	-17661	-17661
APR 78	1255	112722	75799	4370	8.4492	1.395	0.7525	1.8674	68905	66390	-41166	77146	-1347	-19008	-19008
MAY 78	1255	124602	87180	4475	8.3625	1.395	0.7525	1.8674	69836	68603	-42399	87840	-660	-19668	-19668
JUN 78	1255	102866	64360	3830	10.0538	1.395	0.7525	1.8674	71867	66390	-47876	67293	-2933	-22601	-22601
JUL 78	1255	86630	48305	3628	10.5637	1.395	0.7525	1.8674	71531	68603	-50804	49873	-1568	-24169	-24169
AUG 78	1218	108074	73670	3910	8.7990	1.3876	0.734	1.9310	66319	68603	-48520	72487	1183	-22986	-22986
SEP 78	1218	113116	75618	4151	9.0335	1.3876	0.734	1.9310	72287	66390	-54416	78672	-3054	-26040	-26040
OCT 78	1218	106381	69009	3907	9.5654	1.3876	0.734	1.9310	72050	68603	-57864	70794	-1785	-27825	-27825
NOV 78	1197	92629	52478	4301	9.3353	1.3834	0.7235	1.9685	78861	66390	-70335	58813	-6335	-34160	-34160
DEC 78	1197	114007	69534	4104	10.8365	1.3834	0.7235	1.9685	87377	68603	-89109	79071	-9537	-43698	-43698
JAN 79	1197	129590	85192	4542	9.7750	1.3834	0.7235	1.9685	87211	68603	-107717	94645	-9453	-53151	-53151
FEB 79	1197	107568	64144	3777	11.4970	1.3834	0.7235	1.9685	85325	61964	-131078	76012	-11868	-65018	-65018
MAR 79	1197	116434	73314	3805	11.3325	1.3834	0.7235	1.9685	84726	68603	-147201	81504	-8190	-73209	-73209
APR 79	1197	81817	61642	2295	8.7908	1.3834	0.7235	1.9685	39620	66390	-120431	48043	13599	-59610	-59610
MAY 79	1197	97692	56060	3356	12.4052	1.3834	0.7235	1.9685	81815	68603	-133643	62772	-6712	-66321	-66321
JUN 79	1197	88927	60585	2756	10.2837	1.3834	0.7235	1.9685	55678	66390	-122931	55143	5442	-60880	-60880
JUL 79	1197	92342	61050	2643	11.8396	1.3834	0.7235	1.9685	61490	68603	-115818	57436	3614	-57266	-57266
AUG 79	1197	94987	63695	2649	11.8128	1.3834	0.7235	1.9685	61490	68603	-108705	60081	3614	-53652	-53652
SEP 79	1197	100030	65147	2956	11.8007	1.3834	0.7235	1.9685	68546	66390	-110861	66242	-1095	-54748	-54748
OCT 79	1197	94756	60376	2658	12.9345	1.3834	0.7235	1.9685	67568	68603	-109826	59850	526	-54222	-54222
NOV 79	1206	100682	65007	3204	11.1345	1.3852	0.728	1.9517	69512	66390	-112948	66607	-1600	-55822	-55822
DEC 79	1206	80770	54281	3152	8.4039	1.3852	0.728	1.9517	51586	68603	-95930	45562	8719	-47102	-47102
JAN 80	1206	108105	68460	2871	13.8088	1.3852	0.728	1.9517	77272	68603	-104600	72902	-4442	-51544	-51544
FEB 80	1206	98489	65033	2805	11.9273	1.3852	0.728	1.9517	65195	64177	-105618	65555	-522	-52066	-52066
MAR 80	1206	107404	59750	2721	17.5134	1.3852	0.728	1.9517	92908	68603	-129923	72204	-12454	-64520	-64520
APR 80	1206	105529	75417	2277	13.2244	1.3852	0.728	1.9517	58688	66390	-122221	71471	3946	-60573	-60573
MAY 80	1206	114292	76403	2188	17.3167	1.3852	0.728	1.9517	73869	68603	-127488	79101	-2698	-63271	-63271
JUN 80	1206	91474	63012	1961	14.5140	1.3852	0.728	1.9517	55479	66390	-116576	57421	5591	-57681	-57681
JUL 80	1206	85568	62301	1944	11.9686	1.3852	0.728	1.9517	45340	68603	-93314	50382	11919	-45762	-45762
AUG 80	1206	97623	65589	1780	17.9966	1.3852	0.728	1.9517	62457	68603	-87168	62440	3149	-42612	-42612
SEP 80	1206	95734	65737	1962	15.2890	1.3852	0.728	1.9517	58475	66390	-79252	61681	4056	-38557	-38557
OCT 80	1206	103514	72677	2106	14.6425	1.3852	0.728	1.9517	60109	68603	-70758	68325	4352	-34205	-34205
NOV 80	1161	115652	73534	2270	18.5542	1.3762	0.7055	2.0462	86030	66390	-90399	83132	-9598	-43803	-43803
DEC 80	1161	118344	71042	2247	21.0512	1.3762	0.7055	2.0462	96640	68603	-118435	84744	-13702	-57504	-57504

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JAN 81	1161	119804	77008	2256	18.9699	1.3762	0.7055	2.0462	87419	68603	-137251	86203	-9195	-66700	-66700
FEB 81	1161	107563	78244	1845	15.8911	1.3762	0.7055	2.0462	59869	61964	-135157	77220	1024	-65676	-65676
MAR 81	1161	119819	86484	2122	15.7092	1.3762	0.7055	2.0462	68068	68603	-134622	86223	261	-65415	-65415
APR 81	1161	119819	86852	2111	15.6168	1.3762	0.7055	2.0462	67316	66390	-135548	87305	-453	-65867	-65867
MAY 81	1161	111423	82378	1715	16.9359	1.3762	0.7055	2.0462	59317	68603	-126262	77840	4538	-61329	-61329
JUN 81	1161	97876	70585	1225	22.2784	1.3762	0.7055	2.0462	55761	66390	-115634	65391	5194	-56135	-56135
JUL 81	1161	99486	83596	1340	11.8582	1.3762	0.7055	2.0462	32424	68603	-79455	65915	17681	-38455	-38455
AUG 81	1161	114353	85459	1284	22.5031	1.3762	0.7055	2.0462	59037	68603	-69890	80784	4675	-33780	-33780
SEP 81	1161	108306	82509	1214	21.2496	1.3762	0.7055	2.0462	52705	66390	-56205	75821	6688	-27092	-27092
OCT 81	1161	108178	78547	1210	24.4884	1.3762	0.7055	2.0462	60551	68603	-48152	74612	3935	-23157	-23157
NOV 81	1087	100523	77650	1856	12.3238	1.3614	0.6685	2.2117	50370	66390	-32132	70407	7243	-15914	-15914
DEC 81	1087	106391	55402	1528	33.3698	1.3614	0.6685	2.2117	112592	68603	-76121	75291	-19889	-35803	-35803
JAN 82	1087	109827	76725	1938	17.0805	1.3614	0.6685	2.2117	72984	68603	-80502	78706	-1981	-37784	-37784
FEB 82	1087	98961	73011	1599	16.2289	1.3614	0.6685	2.2117	57206	61964	-75744	70859	2152	-35632	-35632
MAR 82	1087	108164	78982	1730	16.8682	1.3614	0.6685	2.2117	64338	68603	-71479	77054	1928	-33704	-33704
APR 82	1087	109521	82626	1633	16.4697	1.3614	0.6685	2.2117	59292	66390	-64381	79416	3210	-30495	-30495
MAY 82	1087	111479	81587	1647	18.1494	1.3614	0.6685	2.2117	65918	68603	-61696	80373	1214	-29281	-29281
JUN 82	1087	105570	80094	1438	17.7163	1.3614	0.6685	2.2117	56176	66390	-51482	75476	4618	-24663	-24663
JUL 82	1087	107359	80275	1478	18.3248	1.3614	0.6685	2.2117	59728	68603	-42607	76262	4013	-20650	-20650
AUG 82	1087	107233	76086	1456	21.3922	1.3614	0.6685	2.2117	68716	68603	-42720	76137	-51	-20701	-20701
SEP 82	1087	107311	77403	1371	21.8147	1.3614	0.6685	2.2117	65986	66390	-42316	77220	183	-20518	-20518
OCT 82	1087	111967	79916	1661	19.2962	1.3614	0.6685	2.2117	70692	68603	-44405	80860	-944	-21463	-21463
NOV 82	1076	105497	73753	1679	18.9065	1.3592	0.663	2.2402	70900	66390	-48915	75766	-2013	-23476	-23476
DEC 82	1076	114493	76241	1740	21.9839	1.3592	0.663	2.2402	85471	68603	-65783	83771	-7530	-31006	-31006
JAN 83	1076	122766	78197	1861	23.9490	1.3592	0.663	2.2402	99607	68603	-96788	92037	-13840	-44846	-44846
FEB 83	1076	101790	66605	1395	25.2222	1.3592	0.663	2.2402	78644	61964	-113468	74051	-7446	-52292	-52292
MAR 83	1076	114372	76790	1526	24.6278	1.3592	0.663	2.2402	83997	68603	-128862	83662	-6872	-59164	-59164
APR 83	1076	109763	82463	1415	19.2933	1.3592	0.663	2.2402	60978	66390	-123450	80047	2416	-56748	-56748
MAY 83	1076	113835	86374	1330	20.6474	1.3592	0.663	2.2402	61349	68603	-116197	83136	3238	-53510	-53510
JUN 83	1076	102698	70434	1334	24.1859	1.3592	0.663	2.2402	72108	66390	-121915	72987	-2553	-56063	-56063
JUL 83	1076	106385	75943	1216	25.0345	1.3592	0.663	2.2402	68042	68603	-121354	75692	251	-55812	-55812
AUG 83	1076	104756	74541	1235	24.4656	1.3592	0.663	2.2402	67531	68603	-120282	74062	479	-55334	-55334
SEP 83	1076	103538	72048	1317	23.9104	1.3592	0.663	2.2402	70377	66390	-124268	73828	-1780	-57113	-57113
OCT 83	1076	101003	78789	1256	17.6863	1.3592	0.663	2.2402	49605	68603	-105270	70308	8481	-48633	-48633

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg-Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank
NOV 83	1038	108832	86082	1567	14.5182	1.3516	0.644	2.3386	52961	66390	-91841	80339	5743	-42890	-42890
DEC 83	1038	109757	82435	1409	19.3911	1.3516	0.644	2.3386	63677	68603	-86915	80329	2106	-40784	-40784
JAN 84	1038	101410	78952	1389	16.1685	1.3516	0.644	2.3386	52305	68603	-70617	71983	6969	-33815	-33815
FEB 84	1038	104699	82016	1304	17.3949	1.3516	0.644	2.3386	52845	64177	-59285	77170	4846	-28969	-28969
MAR 84	1038	113111	89632	1318	17.8141	1.3516	0.644	2.3386	54704	68603	-45385	83689	5943	-23025	-23025
APR 84	1038	108513	81815	1253	21.3073	1.3516	0.644	2.3386	62242	66390	-41237	80041	1774	-21252	-21252
MAY 84	1038	107770	82762	1175	21.2834	1.3516	0.644	2.3386	58302	68603	-30936	78357	4405	-16847	-16847
JUN 84	1038	107516	81487	1098	23.7058	1.3516	0.644	2.3386	60701	66390	-25247	79054	2433	-14414	-14414
JUL 84	1038	111975	87255	1095	22.5753	1.3516	0.644	2.3386	57641	68603	-14285	82567	4688	-9726	-9726
AUG 84	1038	110213	84849	1097	23.1212	1.3516	0.644	2.3386	59146	68603	-4828	80805	4044	-5683	-5683
SEP 84	1038	103593	79148	887	27.5592	1.3516	0.644	2.3386	57030	66390	4532	75145	4003	-1680	-1680
OCT 84	1038	95353	71897	1118	20.9803	1.3516	0.644	2.3386	54681	68603	18454	65944	5953	4273	4273
NOV 84	1000	100731	75065	1078	23.8089	1.344	0.625	2.4370	62355	66390	22489	73409	1656	5929	5929
DEC 84	1000	105119	78863	991	26.4945	1.344	0.625	2.4370	63808	68603	27284	76896	1967	7896	7896
JAN 85	1000	97701	72673	978	25.5910	1.344	0.625	2.4370	60818	68603	35069	69479	3194	11091	11091
FEB 85	1000	87591	69724	1023	17.4653	1.344	0.625	2.4370	43359	61964	53674	62089	7635	18725	18725
MAR 85	1000	99709	78454	939	22.6358	1.344	0.625	2.4370	51630	68603	70647	71489	6965	25690	25690
APR 85	1000	96451	74868	862	25.0383	1.344	0.625	2.4370	52443	66390	84593	69145	5723	31413	31413
MAY 85	1000	99966	76794	739	31.3559	1.344	0.625	2.4370	56338	68603	96859	71761	5033	36446	36446
JUN 85	1000	95599	74968	801	25.7566	1.344	0.625	2.4370	50134	66390	113114	68298	6670	43116	43116
JUL 85	1000	95270	70111	770	32.6740	1.344	0.625	2.4370	61175	68603	120543	67063	3048	46164	46164
AUG 85	1000	97225	72303	704	35.4006	1.344	0.625	2.4370	60609	68603	128537	69023	3280	49445	49445
SEP 85	1000	94874	70049	737	33.6839	1.344	0.625	2.4370	60367	66390	134561	67577	2472	51916	51916
OCT 85	1000	89990	66001	772	31.0738	1.344	0.625	2.4370	58323	68603	144841	61783	4218	56135	56135
NOV 85	949	95472	76401	757	25.1929	1.33431	0.6046	2.5946	49304	66390	161927	69816	6585	62720	62720
DEC 85	949	99037	65818	827	40.1681	1.33431	0.6046	2.5946	85996	68603	144534	72522	-6704	56016	56016
JAN 86	949	98447	55899	800	53.1850	1.33431	0.6046	2.5946	110207	68603	102930	71934	-16035	39981	39981
FEB 86	949	84266	53188	676	45.9734	1.33431	0.6046	2.5946	80476	61964	84417	60323	-7135	32846	32846
MAR 86	949	89603	62526	963	28.1173	1.33431	0.6046	2.5946	70028	68603	82992	63075	-549	32297	32297
APR 86	949	105579	70850	743	46.7416	1.33431	0.6046	2.5946	89933	66390	59449	79924	-9074	23223	23223
MAY 86	949	93692	60330	707	47.1881	1.33431	0.6046	2.5946	86395	68603	41657	67187	-6857	16366	16366
JUN 86	949	84239	54555	655	45.3191	1.33431	0.6046	2.5946	76864	66390	31183	58592	-4037	12329	12329
JUL 86	949	97960	64029	638	53.1834	1.33431	0.6046	2.5946	87887	68603	11898	71462	-7433	4896	4896
AUG 86	949	87427	60280	649	41.8290	1.33431	0.6046	2.5946	70283	68603	10218	60928	-648	4249	4249

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
SEP 86	949	87322	62177	647	38.8640	1.33431	0.6046	2.5946	65089	66390	11519	61676	501	4750	4750
OCT 86	949	85289	69131	651	24.8203	1.33431	0.6046	2.5946	41771	68603	38351	58789	10342	15092	15092
NOV 86	949	73531	50265	730	31.8712	1.33431	0.6046	2.5946	60195	66390	44546	47877	2388	17479	17479
DEC 86	949	70786	49218	630	34.2349	1.33431	0.6046	2.5946	55812	68603	57337	44288	4930	22409	22409
JAN 87	914	41497	38709	557	5.0054	1.32766	0.5906	2.7027	7386	68603	118554	16059	22650	45059	45059
FEB 87	914	59494	55176	660	6.5424	1.32766	0.5906	2.7027	11493	61964	169025	36502	18674	63733	36075
MAR 87	914	63106	58361	709	6.6925	1.32766	0.5906	2.7027	12634	68603	224994	37653	20708	84441	32283
APR 87	914	53412	49148	557	7.6553	1.32766	0.5906	2.7027	11375	66390	280009	28793	20355	104797	30071
MAY 87	914	50113	45413	539	8.7199	1.32766	0.5906	2.7027	12558	68603	336054	24677	20736	125533	34316
JUN 87	914	62251	57949	500	8.6040	1.32766	0.5906	2.7027	11493	66390	390951	37637	20312	145845	30374
JUL 87	914	40420	36848	424	8.4245	1.32766	0.5906	2.7027	9540	68603	450014	14995	21853	167698	30369
AUG 87	914	33391	18015	328	46.8780	1.32766	0.5906	2.7027	41469	68603	477147	7976	10039	177737	25770
SEP 87	914	21095	19970	503	2.2366	1.32766	0.5906	2.7027	2905	66390	540632	-3519	23489	201226	20203
OCT 87	914	12745	11281	355	4.1239	1.32766	0.5906	2.7027	3861	68603	605373	-12673	23954	225180	6484
NOV 87	914	13341	12195	351	3.2650	1.32766	0.5906	2.7027	3003	66390	668760	-11258	23453	248633	-2739
DEC 87	886	10417	9482	359	2.6045	1.32206	0.5787	2.7967	2508	68603	734855	-14151	23633	272266	-9150
JAN 88	886	19764	17757	578	3.4723	1.32206	0.5787	2.7967	5442	68603	798016	-4827	22584	294850	-12694
FEB 88	886	2075	1612	84	5.5119	1.32206	0.5787	2.7967	1270	64177	860923	-20881	22493	317344	-10079
MAR 88	886	204	109	22	4.3182	1.32206	0.5787	2.7967	259	68603	929267	-24328	24437	341781	-13287
APR 88	886	204	0	60	3.4000	1.32206	0.5787	2.7967	553	66390	995104				
MAY 88	886	184	0	47	3.9149	1.32206	0.5787	2.7967	501	68603	1063207				
JUN 88	886	208	0	11	18.9091	1.32206	0.5787	2.7967	578	66390	1129018				
JUL 88	886	132	0	1	132.0000	1.32206	0.5787	2.7967	369	68603	1197252				
AUG 88	886	190	0	10	19.0000	1.32206	0.5787	2.7967	528	68603	1265327				
SEP 88	886	120	0	1	120.0000	1.32206	0.5787	2.7967	335	66390	1331382				
OCT 88	886	206	0	8	25.7500	1.32206	0.5787	2.7967	574	68603	1399411				
NOV 88	886	213	0	8	26.6250	1.32206	0.5787	2.7967	593	66390	1465208				
DEC 88	812	174	0	8	21.7500	1.30652	0.5454	3.0646	530	68603	1533280				
JAN 89	812	161	0	8	20.1250	1.30652	0.5454	3.0646	490	68603	1601393				
FEB 89	812	180	0	16	11.2500	1.30652	0.5454	3.0646	546	61964	1662811				
MAR 89	812	4270	0	115	37.1304	1.30652	0.5454	3.0646	13044	68603	1718370				
APR 89	812	27639	0	1099	25.1492	1.30652	0.5454	3.0646	84300	66390	1700460				
MAY 89	812	24007	0	594	40.4158	1.30652	0.5454	3.0646	73354	68603	1695709				
JUN 89	812	40416	0	549	73.6175	1.30652	0.5454	3.0646	123657	66390	1638442				

	Res Press (PSIA)	Gas Prod (MCF)	Gas Inj (MCF)	Oil Prod (STB)	Rpn	Bo	Rs	Bg	Res Voidage (RB)	Monthly Voidage Allow (RB)	Cumm Over/Under Neg= Overprod (RB)	Res Void Balance Gas (MCF)	Over/Under Injection Neg=Under (MCF)	Unadjusted Gas Bank (MCF)	Adjusted Gas Bank (MCF)
JUL 89	812	45252	0	509	88.9037	1.30652	0.5454	3.0646	138492	68603	1568553				
AUG 89	812	44626	0	475	93.9495	1.30652	0.5454	3.0646	136586	68603	1500570				
SEP 89	812	41893	0	393	106.5980	1.30652	0.5454	3.0646	128240	66390	1438720				
OCT 89	812	40278	0	403	99.9454	1.30652	0.5454	3.0646	123287	68603	1384036				
NOV 89	812	33740	0	397	84.9874	1.30652	0.5454	3.0646	103253	66390	1347173				
DEC 89	821	36094	0	360	100.2611	1.30841	0.54945	3.0320	109308	68603	1306468				
JAN 90	821	35952	0	414	86.8406	1.30841	0.54945	3.0320	108858	68603	1266213				
FEB 90	821	32425	0	325	99.7692	1.30841	0.54945	3.0320	98196	61964	1229982				
MAR 90	821	34137	0	326	104.7147	1.30841	0.54945	3.0320	103386	68603	1195198				
APR 90	821	33350	0	188	177.3936	1.30841	0.54945	3.0320	101049	66390	1160539				
MAY 90	821	29124	0	238	122.3697	1.30841	0.54945	3.0320	88218	68603	1140924				
JUN 90	821	27118	0	282	96.1631	1.30841	0.54945	3.0320	82120	66390	1125193				
JUL 90	821	33019	0	347	95.1556	1.30841	0.54945	3.0320	99989	68603	1093807				
AUG 90	821	20634	0	146	141.3288	1.30841	0.54945	3.0320	62510	68603	1099901				
SEP 90	821	25996	0	165	157.5515	1.30841	0.54945	3.0320	78760	66390	1087530				
OCT 90	821	31652	0	221	143.2217	1.30841	0.54945	3.0320	95889	68603	1060244				
NOV 90	821	28816	0	285	101.1088	1.30841	0.54945	3.0320	87268	66390	1039367				
DEC 90	821	28406	0	289	98.2907	1.30841	0.54945	3.0320	86023	68603	1021946				
JAN 91	821	29042	0	335	86.6925	1.30841	0.54945	3.0320	87935	68603	1002614				
FEB 91	821	25577	0	213	120.0798	1.30841	0.54945	3.0320	77473	68603	993745				
MAR 91	821	12879	0	91	141.5275	1.30841	0.54945	3.0320	39016	68603	1023331				
APR 91	785	13795	0	99	139.3434	1.30115	0.53325	3.1884	43944	68603	1047990				
MAY 91	785	18110	0	125	144.8800	1.30115	0.53325	3.1884	57692	68603	1058901				
JUN 91	785	11880	0	182	65.2747	1.30115	0.53325	3.1884	37806	68603	1089698				
JUL 91	785	17354	0	122	142.2459	1.30115	0.53325	3.1884	55283	68603	1103018				