

WELLS IN WHICH PRESSURES WERE MEASURED WITH BOTTOM HOLE PRESSURE GAUGES)

* B-M-G best estimate (where values differ significantly).
** Not datum pressures.

* B-M-G best estimate
** Not datum pressures.

PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL

FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988

OCD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO

In this section are basic details of analyses showing conversion of measured pressures to datum of +370 feet above sea level.

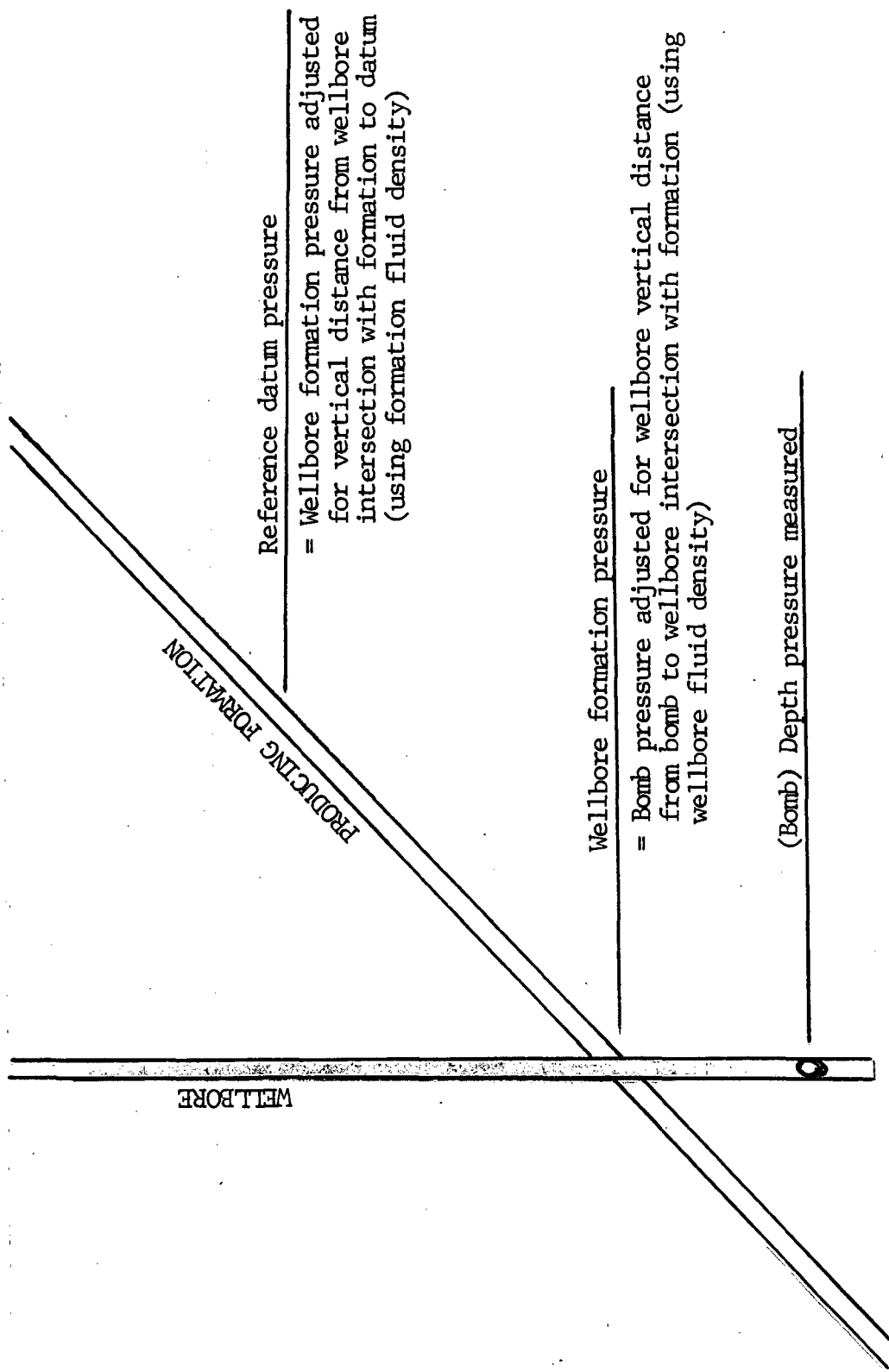
A pressure from the survey is selected near the depth of the top of the B zone; and this pressure corrected by wellbore fluid density to the top of the B zone. From this point the pressure is corrected to datum using the vertical distance from the wellbore intersection with formation (top of the B zone) to datum using formation fluid density as shown on the sketch on the facing page.

The reservoir density is unknown. Adjustments to datum were used employing three different reservoir densities:

1. Density of mobile fluids (GOR converted to formation temperatures and pressures).
2. B-M-G's best estimate for reservoir density based on pressure.
3. B-M-G's estimate of maximum reservoir density.

These reservoir densities are described on the next two pages.

ADJUSTMENT OF MEASURED WELLBORE
PRESSURES TO DATUM



RESERVOIR FLUID DENSITIES
GAVILAN - WEST PUERTO CHIQUITO BOUNDARY AREA

In some reservoirs the density for adjusting pressures to datum is simply the density of the continuous non-wetting phase. For example the gas cap area in the Canada Ojitos Unit has a density of the gas down to the effective gas-oil contact. Below that, in some areas, the density is that of oil. The location of the gas-oil contact is unknown, so this complicates the analysis.

For Gavilan and the boundary area with West Puerto Chiquito, the problem is different; but still indefinite when the conditions are such that pressures are substantially below the bubble point and produced GOR's substantially above the solution GOR. For these times, which includes the OCC-ordered pressure surveys of June and November 1987 and February 1988, B-M-G estimated reservoir densities as shown herein.

The different reservoir fluid densities which B-M-G used in converting measured pressures to datum are shown on the graph on the facing page. The densities recommended by B-M-G are arbitrary estimates that might help in using the data. The main point to be made here, however, is that the densities are unknown - and recognition made of the possible attendant errors. The various densities are described below.

Upper curve:

This curve B-M-G believes would be the probable maximum density. This is the density which would occur if the reservoir were expanded from one pressure to the next (V/V_{SAT} as given by reservoir fluid samples).

Lower solid line:

This is the density if the reservoir contained only gas (gas gradient).

Dotted curve:

This is the density for the approximate average GOR which has accompanied the corresponding pressure in Gavilan (density of mobile fluids). (The GOR is converted to density at reservoir conditions of temperature and pressure.)

Two dashed lines:

These are B-M-G's recommendation for use in converting pressures to datum until more precise information is available.

(One of the problems in estimating reservoir densities is that they probably are not uniform across the reservoir - particularly the top structure, high GOR wells in Gavilan, where the reservoir density will approach that of gas.)

PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL

FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988
OCD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO

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	<u>Mesa Grande Bearcat</u>	<u>Meridian Hill Fed. 2-Y</u>	<u>Merrion Krystina</u>	<u>Sun Boyt & Lola #1</u>
1) Elevation	7249 KB	7467 KB	7314 KB	7351 KB
2) Depth to top B	6777	7013	6769	6848
3) Depth of +370 datum	6879	7097		6981
<u>June, 1987 survey</u>				
4) Gas-Oil Ratio (cf/bbl)	7800	3300		3600
5) Reference pressure	1034	1109		847
6) and depth	6750	7000		6800
7) Distance to B zone	+27	+13		+48
8) Wellbore gradient	.030	.03		.020
9) ΔP to B zone	+1	-		+1.0
10) B zone pressure	1035	1109		848
11) B zone to +370 (feet)	+102	84		+133
12) Reservoir density	.04	.06	.26	.24
13) ΔP to datum	+4	+5	+18	+29
14) Datum pressure	1041	1114	1127	856
	1061	1131		880
<u>November, 1987 survey</u>				
15) Gas-Oil Ratio (cf/bbl)	8000			3600
16) Reference pressure	765			698
17) and depth	6770			6800
18) Distance to B zone	+7			48
19) Wellbore gradient	.025			.32
20) ΔP to B zone	-			15
21) B zone pressure	765			713
22) B zone to +370 (feet)	+102			+133
23) Reservoir density	.03	.17	.22	.21
24) ΔP to datum	+3	+17	+22	+28
25) Datum pressure	768	782	787	720
				736
				741
<u>February, 1988 survey</u>				
26) Gas-Oil Ratio (cf/bbl)	43,000			3600
27) Reference pressure	732			730
28) and depth	6770			6800
29) Distance to B zone	+7			48
30) Wellbore gradient	.025			.32
31) ΔP to B zone	-			15
32) B zone pressure	732			745
33) B zone to +370 (feet)	+102			+133
34) Reservoir density	.02	.17	.21	.21
35) ΔP to datum	+2	+17	+21	+28
36) Datum pressure	734	749	753	750
				768
				773

Note regarding reservoir fluid densities: For each well on Lines 12, 23 and 34 are three different reservoir fluid densities. The lefthand column is for density equal to that of "mobile fluids" (GOR converted to reservoir conditions). The center column is B-W-G's estimate of probable density and the third column is B-W-G's estimate of probable maximum density.

PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL

FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988
OCD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO

Reading & Bates
Howard Federal 43-15

Mallon Howard 1-8

Mallon Fisher

Mallon Johnson

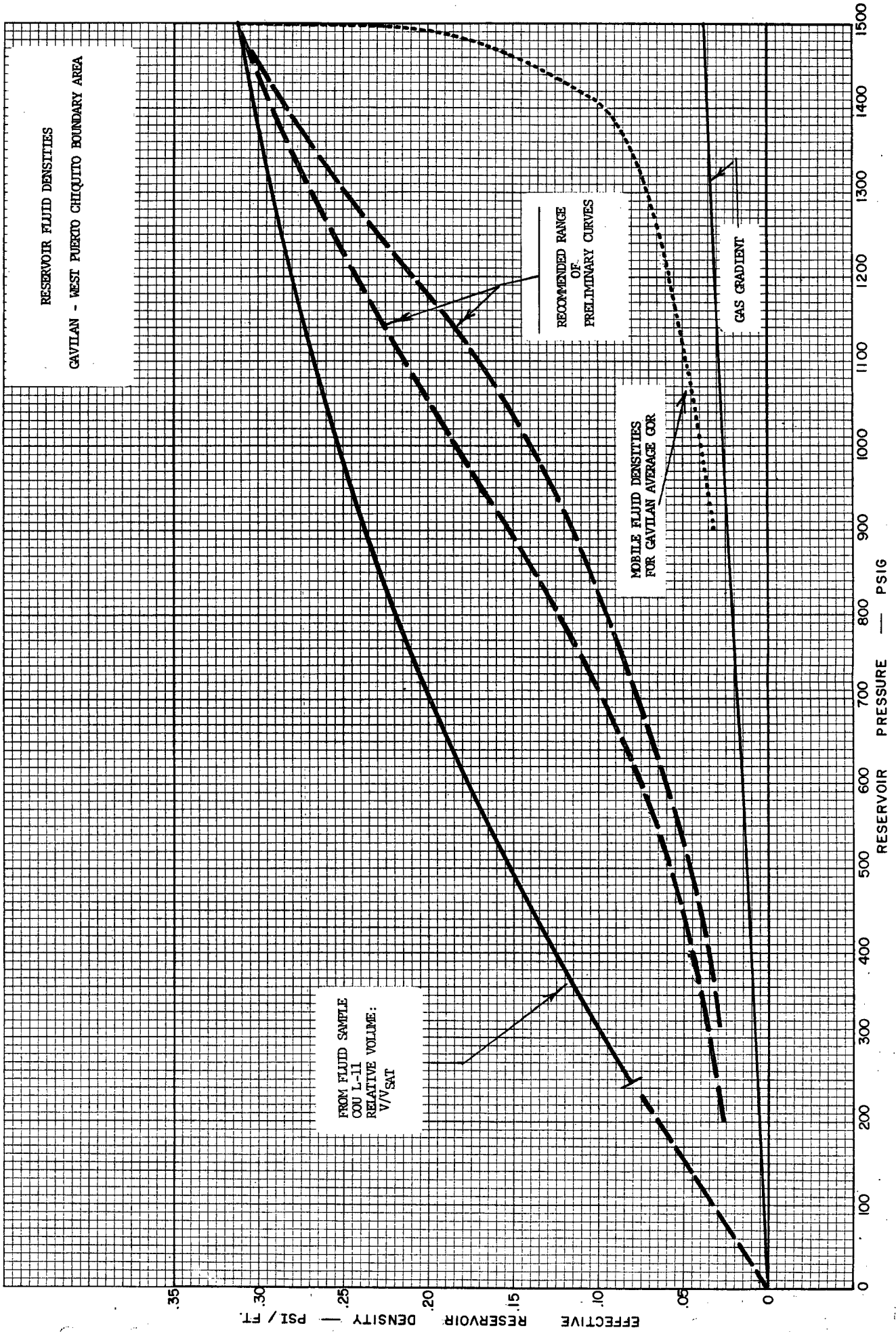
Meridian Hill Fed #1

1) Elevation	7480 KB	7430 KB	7660 KB	7523 KB	7261 KB
2) Depth to top B	7017	7029	7307	7150	6799
3) Depth of +370 datum	7110	7060	7290	7153	6891
June, 1987 survey					
4) Gas-Oil Ratio (cf/bbl)		27,000			83,000
5) Reference pressure		1429			1045
6) and depth		7611			6790
7) Distance to B zone		-582			+9
8) Wellbore gradient		.355			.030
9) Δ P to B zone		-207			+27
10) B zone pressure		1222			1045
11) B zone to +370 (feet)		+31			+92
12) Reservoir density		.03 .22 .24			.03 .22 .26
13) Δ P to datum		+1 .7 +7			+3 .20 +24
14) Datum pressure		1223 1229 1229			1048 1065 1069
November, 1987 survey					
15) Gas-Oil Ratio (cf/bbl)	33,000		1,300		52,000
16) Reference pressure	936		978		780
17) and depth	6955		7275		6793
18) Distance to B zone	+62		+32		+6
19) Wellbore gradient	.023		.34		.020
20) Δ P to B zone	+1.5		+11		-
21) B zone pressure	937.5		989		780
22) B zone to +370 (feet)	+93		-17		+92
23) Reservoir density	.03 .17 .25		.09 .17 .25		.03 .17 .22
24) Δ P to datum	+3 +15.8 +23		-2 -3 -4		+3 +16 +20
25) Datum pressure	940 953 960		987 986 985		783 796 800
February, 1988 survey					
26) Gas-Oil Ratio (cf/bbl)	72,000			12,000	71,000
27) Reference pressure	940			909	739
28) and depth	6955			7100	6500
29) Distance to B zone	+62			+50	+299
30) Wellbore gradient	.024			.348	.02
31) Δ P to B zone	+1.5			17.4	+6
32) B zone pressure	941.5			926.4	745
33) B zone to +370 (feet)	+93			+3	+92
34) Reservoir density	.02 .17 .25			.02 .17 .24	.02 .17 .21
35) Δ P to datum	+2 +15.8 +23			+0 +0.5 +1	+2 +16 +19
36) Datum pressure	944 957 965			926 927 928	747 761 764

Note regarding reservoir fluid densities: For each well on Lines 12, 23 and 34 are three different reservoir fluid densities. The lefthand column is for density equal to that of "mobile fluids" (GOR converted to reservoir conditions). The center column is B-M-G's estimate of probable density and the third column is B-M-G's estimate of probable maximum density.

RESERVOIR FLUID DENSITIES

CAVILAN - WEST PUERTO CHIQUITO BOUNDARY AREA



PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL

FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988
OCD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO

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	Sun Wildfire *	Mobil B-37	B-M-G COU E-6	B-M-G COU A-20	B-M-G COU B-32
1) Elevation	7727	7134 KB	7493 GL	7432 GL	7599 GL
2) Depth to B	7408	6683 KB	7136 GL	7026 GL	7178 GL
3) Depth of +370	7357	6764 KB	7123 GL	7062 GL	7229 GL
<u>June, 1987 survey</u>					
4) Gas-Oil Ratio (cf/bbl)	(NR)	8100	4400	1500	880
5) Reference pressure	1191	1031	1169	1179.5	1181
6) and depth	7400	6608 (GL?)	7065 GL	6954 GL	7104 GL
7) Distance to B zone	+8	+83	+71	+72	+74
8) Wellbore gradient	.32	.03	.03 & .32	.03 & .32	.03
9) Δ P to B zone	+2	+2	+4	+3.5	+2
10) B zone pressure	1193	1031	1173	1183	1183
11) B zone to +370 (feet)	-51	+81	-13	+36	+51
12) Reservoir density	.04	.22	.05	.10	.14
13) Δ P to datum	-2	+3	-1	+4	+7
14) Datum pressure	1191	1034	1172	1187	1190
		1051	1170	1191	1194
		1055	1169	1193	1197
<u>November, 1987 survey</u>					
15) Gas-Oil Ratio (cf/bbl)	(NR)	4100	4500	5000	1250
16) Reference pressure	1028	767	966 psia	964.7	981.5 psia
17) and depth	7400	6600 GL, 6614 KB	7125	6954	7290
18) Distance to B zone	+8	+69	+11	+72	-112
19) Wellbore gradient	.32	.022	.022	.022	.022
20) Δ P to B zone	+2	+2	-	+1.6	-2.4
21) B zone pressure	1030	769	955 psig	966	968 psig
22) B zone to +370 (feet)	-51	+81	-13	+36	+51
23) Reservoir density	.04	.17	.04	.04	.10
24) Δ P to datum	-2	+3	-1	+1	+5
25) Datum pressure	1028	772	954	967	973
		783	953	972	977
		787	951	975	982
<u>February, 1988 survey</u>					
26) Gas-Oil Ratio (cf/bbl)	(NR)	4100	5000	7500	1200
27) Reference pressure	972	730	952.2	947.8	940.5
28) and depth	7400	6680 KB	7065	6954	7090
29) Distance to B zone	+8	+3	+71	+72	+88
30) Wellbore gradient	.32	.32	.024	.024	.024
31) Δ P to B zone	+2	1	+1.7	+1.6	+2.4
32) B zone pressure	974	731	954	949.4	942.9
33) B zone to +370 (feet)	-51	+81	-13	+36	+51
34) Reservoir density	.03	.17	.04	.03	.10
35) Δ P to datum	-2	+3	-0	+1	+5
36) Datum pressure	972	734	954	950	948
		745	952	956	952
		748	951	959	957

Note regarding reservoir fluid densities: For each well on Lines 12, 23 and 34 are three different reservoir fluid densities. The left-hand column is for density equal to that of "mobile fluids" (GOR converted to reservoir conditions). The center column is B-M-G's estimate of probable density and the third column is B-M-G's estimate of probable maximum density.

* No pressure reported for Sun #1 Wildfire. Reservoir mobile fluid densities for Luddy #1 used here.

PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL

FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988
OOD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO

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Sun Laddy

- 1) Elevation
- 2) Depth to to B
- 3) Depth of +370

7167 KB
 6922
 6797

June, 1987 survey

- 4) Gas-Oil Ratio (cf/bbl)
- 5) Reference pressure
- 6) and depth
- 7) Distance to B zone
- 8) Wellbore gradient
- 9) ΔP to B zone
- 10) B zone pressure
- 11) B zone to +370 (feet)
- 12) Reservoir density
- 13) ΔP to datum
- 14) Datum pressure

7500
 1094
 6900
 22
 .024
 -
 1094
 -125
 .04 .22 .27
 -5 -28 -34
 1089 1066 1060

November, 1987 survey

- 15) Gas-Oil Ratio (cf/bbl)
- 16) Reference pressure
- 17) and depth
- 18) Distance to B zone
- 19) Wellbore gradient
- 20) ΔP to B zone
- 21) B zone pressure
- 22) B zone to +370 (feet)
- 23) Reservoir density
- 24) ΔP to datum
- 25) Datum pressure

5100
 902
 7100
 -178
 .32**
 -57
 845
 -125
 .04 .17 .22
 -5 -21 -28
 840 824* 817
 .025**
 -5
 897
 -125
 .04 .17 .22
 -5 -21 -28
 892 876 869

February, 1988 survey

- 26) Gas-Oil Ratio (cf/bbl)
- 27) Reference pressure
- 28) and depth
- 29) Distance to B zone
- 30) Wellbore gradient
- 31) ΔP to B zone
- 32) B zone pressure
- 33) B zone to +370 (feet)
- 34) Reservoir density
- 35) ΔP to datum
- 36) Datum pressure

7000
 807
 6900
 +22
 .02
 .4
 807
 -125
 .03 .17 .22
 -4 -21 -28
 803 786 779

Sun High Adventure #1

7330 KB
 7150
 6960

3600
 1099.5
 7107
 +43
 .32
 +14
 1114
 -190
 .06 .22 .26
 -11 -42 -49
 1103 1072 1065

2500
 911
 7400
 -250

.32**
 -80
 831
 -190
 .06 .17 .22
 -11 -32 -42
 820 799* 789
 .025**
 -6
 905
 -190
 .06 .17 .22
 -11 -32 -42
 894 873 863

2500
 820
 7200
 -50
 .3
 -15
 785
 -190
 .05 .17 .21
 -10 -32 -40
 775 753 745

* B-W-G's estimate of best pressure (where values differ significantly).

** Wellbore gradient not available. Pressures estimate for conditions of all gas and all oil.

Note regarding reservoir fluid densities: For each well on Lines 12, 23 and 34 are three different reservoir fluid densities. The left hand column is for density equal to that of "mobile fluids" (GOR converted to reservoir conditions). The center column is B-W-G's estimate of probable density and the third column is B-W-G's estimate of probable maximum density.

PRESSURES ADJUSTED TO DATUM OF +370' ABOVE SEA LEVEL
FOR THE

JUNE 1987, NOVEMBER 1987 AND FEBRUARY 1988
OCD-ORDERED PRESSURE SURVEYS: GAVILAN - WEST PUERTO CHIQUITO
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B-M-G OOU K-13

B-M-G OOU L-27

- 1) Elevation
- 2) Depth to top B
- 3) Depth of +370 datum

June, 1987 survey

- | | |
|---------------------------|------|
| 4) Gas-Oil Ratio (cf/bbl) | 1478 |
| 5) Reference pressure | 5850 |
| 6) and depth | |
| 7) Distance to B zone | |
| 8) Wellbore gradient | |
| 9) ΔP to B zone | |
| 10) B zone pressure | |
| 11) B zone to +370 (feet) | |
| 12) Reservoir density | |
| 13) ΔP to datum | |
| 14) Datum pressure | |

November, 1987 survey

- | | |
|----------------------------|------|
| 15) Gas-Oil Ratio (cf/bbl) | 1388 |
| 16) Reference pressure | 6810 |
| 17) and depth | |
| 18) Distance to B zone | |
| 19) Wellbore gradient | |
| 20) ΔP to B zone | |
| 21) B zone pressure | |
| 22) B zone to +370 (feet) | |
| 23) Reservoir density | |
| 24) ΔP to datum | |
| 25) Datum pressure | |

February, 1988 survey

- | | |
|----------------------------|------|
| 26) Gas-Oil Ratio (cf/bbl) | 1440 |
| 27) Reference pressure | 5850 |
| 28) and depth | |
| 29) Distance to B zone | |
| 30) Wellbore gradient | |
| 31) ΔP to B zone | |
| 32) B zone pressure | |
| 33) B zone to +370 (feet) | |
| 34) Reservoir density | |
| 35) ΔP to datum | |
| 36) Datum pressure | |

Note regarding reservoir fluid densities: For each well on Lines 12, 23 and 34 are three different reservoir fluid densities. The left hand column is for density equal to that of "mobile fluids" (GOR converted to reservoir conditions). The center column is B-M-G's estimate of probable density and the third column is B-M-G's estimate of probable maximum density.

PRESSURE DIFFERENCES BETWEEN SURVEYS

Pressure differences between surveys are shown on the schedule on the facing page.

The reduction of errors by using pressure declines in a given well for analysis, rather than absolute pressures can be seen, for example, in the figures for the Mesa Grande Bearcat in which a 20 psi difference exists for a given survey as a consequence of the different estimated reservoir densities. Yet the difference, from one survey to the next, is nearly the same. (June to November, 1 psi difference in decline.)

PRESSURE INFORMATION
FROM OIL CONSERVATION DIVISION ORDERED PRESSURE SURVEYS
OF
JULY 1987, NOVEMBER 1987 AND FEBRUARY 1988

The most useful data gathered from the pressure surveys is that of pressure decline in an individual well; and this compared with pressure declines in other wells.

Absolute pressures measured are useful only in a general sense - and certainly cannot be used for estimating pressure gradients horizontally across the reservoir except for large pressure differences and interpretations made in a general fashion.

The reasons for this are the inherent errors described in Case 9111, B-M-G Exhibit 1, Section G, Pages 6 and 7, and summarized below:

1. Error of bomb calibration.
2. Error of hole deviation.
3. Error of depth as shown by wireline.
4. Error of surface elevation.
5. Error of density of reservoir fluids.

If the same pressure measuring equipment is used on the same wells from one survey to the next, then the first four of the above errors are eliminated; and there is only the differences in stabilization and change in density of reservoir fluids from one survey to the next to cause an error in the pressure decline measured from one survey to the next.

As to these two matters: stabilization and reservoir fluid densities, the errors from these sources are also minimized where the pressure difference in a well from one period to the next is used, rather than comparing pressures across the reservoir. The reason that stabilization errors are minimized is that - comparing the same shut-in time for both surveys - the error is not the total difference in the measured pressure and the stabilized pressure, but the difference in stabilization in the same well from one survey compared to the next. By the same token, even though reservoir densities might vary substantially throughout the field, the change in reservoir density at one well location from one survey to the next is probably minimal.

Although large pressure differences exist across the reservoir, the pressure declines within certain identified areas were quite consistent. The different decline rates for the different areas appear to be the consequence of external pressure support. These pressure declines, summarized by well groups, are set out on the following page. Wells listed are those that were surveyed in all three survey periods using bottom hole pressure gauges for measurement of pressures.

INDIVIDUAL WELL PRESSURE DECLINES BETWEEN SURVEYS

June-Nov Nov-Feb June-Feb

Gavilan (Central)

Mobil Unit B-37	-268	-38	-306
Howard Federal 43-15	-269	-35	-304
Bearcat	-275	-33	-308
High Adventure #1	-273	-46	-319
Average (Psi/Month)	-271 (60)	-38 (13)	-309

Gavilan (Outer)

Wildfire Loddy	-161 -242	-56 -38	-217 -280
Average (Psi/Month)	-201 (45)	-47 (10)	-248

West Puerto Chiquito
Canada Ojitos Unit Exp. Area

COU E-6	-217	-1	-218
COU A-20	-219	-16	-235
COU B-32	-217	-25	-242
Average (Psi/Month)	-218 (48)	-25* (8)	-232

The June to February pressure declines are shown by areas on the plat next following.

* Small pressure declines are impossible to measure accurately. Pressure decline shown here is that for the B-32, the most representative high capacity well in the group.

PRESSURE INFORMATION
FROM OIL CONSERVATION DIVISION ORDERED PRESSURE SURVEYS
OF
JULY 1987, NOVEMBER 1987 AND FEBRUARY 1988

LOW PRODUCTION RATES ARE MORE EFFICIENT FOR THE CANADA OJITOS UNIT

Information from the subject surveys is most useful in analyses involving pressure decline (as opposed to absolute pressures). The test period from July to November resulted in a large enough pressure decline to be definitive. The test period from November 1987 to March 1988 was too short and pressure declines too small to assess behavior in all wells as accurately as might be desired for conclusive answers; however this survey data, along with supplementary information, points to more efficient recovery from the Canada Ojitos Unit of the West Puerto Chiquito Pool when produced at low rates as opposed to high rates.

As shown on the facing page, the recovery coefficient for the proposed expansion area of the Canada Ojitos Unit in terms of stock tank barrels of oil recovered per pound of reservoir pressure decline, is higher for production rates under the current allowable as compared to the high production rates of the last half of 1987.

On the following pages are summaries and details of the pressure surveys, along with information that points out the virtue of using pressure declines for analyses as opposed to absolute pressures because of the inherent errors of the absolute pressures.

COMPARISON OF
OIL RECOVERY ~~EFFICIENCY~~
CANADA OJITOS UNIT (PROPOSED EXPANSION AREA)

FOR PERIOD OF HIGH PRODUCTION RATE (JULY TO NOVEMBER 1987)
WITH
PERIOD OF CURRENT ALLOWABLE (NOVEMBER 1987 TO FEBRUARY 1988)

Test	Period	Oil Production (Bbls)	From Survey	
			Pressure Decline	Recovery Coefficient (Bbl/#)
High Allowable	July - Nov. 1987	389,115	218	1800*
Current Allowable	Nov. - Feb. 1988	124,526	25**	5000**

* Average for test period. Coefficient for last part of period increased $\pm 40\%$, believed due to pressure maintenance project: greater support at greater pressure differential.

** Small pressure declines are impossible to measure accurately. Pressure decline shown here is that for the B-32, the most representative high capacity well in the group.

Production statistics for the above schedule are shown on the last page in this section.

PROPOSED EXPANSION AREA CANADA QUITOS UNIT
OIL PRODUCTION BETWEEN OIL CONSERVATION DIVISION ORDERED PRESSURE SURVEYS

JULY TO NOVEMBER 1987

AND

NOVEMBER 1987 TO FEBRUARY 1988

	B-32	K-8	B-29	E-6	F-30	N-31	J-6	F-18	F-19	A-20	G-5	F-7	TOTAL
JULY THROUGH NOVEMBER 16, 1987													
July 1987	12938	240	18104	7820	10155	5288	0	3830	1935	128	0	0	60438
August 1987	19297	19	20912	11180	11599	5912	1901	9806	2172	1082	0	0	83880
September 1987	26922	40	31439	12518	12204	5592	1397	9433	1346	1309	1873	0	104073
October 1987	23844	0	30767	9714	10332	4935	128	11100	136	155	3058	0	94169
November 1987	<u>10554</u>	<u>0</u>	<u>15685</u>	<u>3949</u>	<u>5060</u>	<u>1870</u>	<u>257</u>	<u>4853</u>	<u>673</u>	<u>526</u>	<u>3128</u>	<u>0</u>	<u>46555</u>
Total	93555	299	116907	45181	49350	23597	3683	39022	6262	3200	8059	0	389115

NOVEMBER 16 THROUGH FEBRUARY 19, 1988

November 1987	1327	0	1296	0	638	0	0	151	57	0	182	0	3651
December 1987	10257	76	16481	2324	9502	1402	293	9732	631	679	3084	0	54461
January 1988	14229	77	0	1991	8228	0	198	9335	213	1368	4952	481	41072
February 1988	<u>10322</u>	<u>27</u>	<u>2927</u>	<u>0</u>	<u>5074</u>	<u>0</u>	<u>0</u>	<u>4586</u>	<u>0</u>	<u>116</u>	<u>2290</u>	<u>0</u>	<u>25342</u>
Total	36135	180	20704	4315	23442	1402	491	23804	901	2163	10508	481	124526
Nov. C-115	11881	0	16981	3949	5698	1870	257	5004	730	526	3310	0	50206
Nov. field gauges	12320	0	17710	4063	5761	2035	149	5469	712	585	3397	0	52201
Nov. 20-31	1376	0	1352	0	664	0	0	165	56	0	187	0	3800
Nov. 20-31 adjusted	1327	0	1296	0	638	0	0	151	57	0	182	0	3651
Nov. C-115	11881	0	16981	3949	5698	1870	257	5004	730	526	3310	0	50206
Less 20-31 prod.	<u>1327</u>	<u>0</u>	<u>1296</u>	<u>0</u>	<u>638</u>	<u>0</u>	<u>0</u>	<u>151</u>	<u>57</u>	<u>0</u>	<u>182</u>	<u>0</u>	<u>3651</u>
	10554	0	15685	3949	5060	1870	257	4853	673	526	3128	0	46555
Feb. C-115	17128	44	8868	0	8583	0	0	7173	0	116	3289	0	45201
Feb. field gauges	17497	42	9435	0	8701	0	0	7323	0	133	3383	0	46514
Feb. 1-16	10544	26	3114	0	5144	0	0	4682	0	133	2355	0	25998
Feb. 1-16 adjusted	10322	27	2927	0	5074	0	0	4586	0	116	2290	0	25342