

BASIC BOMBARDIER

VOLUME 11, No. 34 (73-30) HENDERSON, NEVADA NOVEMBER 17, 1944

GENERAL MANAGER CASE SAYS "THANKS FOR GRAND JOB"



Because of surplus magnesium stocks and the exigencies of war our 311 metal production has stopped and this is the last issue of the BOMBARDIER. We have crossed another milestone in BMI's war record. Many of our associates have left and others will follow as soon as they complete their part of our war assignment.

These developments bring sadness to all of us, but they should not detract in any way from our pride in BMI's record of achievements. The loyalty, resourcefulness and teamwork of our entire organization have enabled BMI to establish a new magnesium process under the stress of war conditions and to produce in record time over 150,000,000 pounds of magnesium when it was vitally needed for our armed forces and those of our allies.

I shall always be very proud of the fact that I have had the privilege of being associated with such a fine group and that all of you have given me your loyalty and friendship. On behalf of our staff and management I extend to you again sincere thanks for a grand job well done and best wishes for the future.

F. O. Case
General Manager

MAGNESIUM TO BECOME BIG FACTOR — HOBBS



J. R. HOBBS
PRESIDENT, ANACONDA COPPER MINING CO. and BASIC MAGNESIUM, INC.
I believe that we all, as citizens of the United States, are proud and happy over the tremendous industrial accomplishments and the rapid increases in production that have been made in critical war material and equipment. Not the least of these accomplishments is that which has been achieved in the magnesium industry, which, in the late 30's was producing less than 10,000,000 pounds per year and which in 1943 produced above 400,000,000 pounds.

The fact that in the midst of total war, in many important fields, curtailment and cut-backs can be ordered and that critical production has so far exceeded requirements should give us all a feeling of great gratitude as well as assurance as to the ability of our people to meet whatever crisis is presented. BMI has been a great accomplishment from the early inception of the project. The bringing to America by our British associates of MBL the plans and the know-how, the assembling on the desert of a vast organization of men, including some of the finest technical skill in America, within the comparatively short time which has elapsed since 1941 marks this project out as one of the great industrial accomplishments of the war. This plant was designed to produce at the rate of 112,000,000 pounds of magnesium per year. At its early stages it was freely predicted that it could not reach maximum production and perhaps not produce at all. However, the plant has for a period produced metal at the rate of approximately 120,000,000 pounds per year.

From an industrial point of view I am most regretful that this plant was not able to operate at capacity for at least another year. It is my opinion that with the continued improvements in the process, greater mechanization and higher efficiencies, operating costs could have been achieved which would have been competitive with any other magnesium plant in the country.

To the men and women of Basic whose loyalty, industry, skill and vision have made possible the success of this great project I extend on behalf of myself and my associates, our very sincere gratitude and thanks. This plant achieved a peak of production at a time when magnesium was most needed for the war and, thus, fulfilled its purpose as a great contributor to the war effort. The future of the plant I can not predict as that rests entirely in the hands of our government. I do predict however, that within a comparatively few years MAGNESIUM WILL BECOME AN IMPORTANT FACTOR IN THE ECONOMIC LIFE OF THIS NATION.

J. R. Hobbs
J. R. HOBBS

FEDERAL LOAN ADMINISTRATOR SENDS MESSAGE

BY DIRECT WIRE FROM
WESTERN UNION NOV 8 1944

CLASS OF SERVICE
This is a full-rate Telegram or Cablegram. It is subject to the usual conditions of service and is not subject to any special rates.

STANDARD
10-15-20-30-40-50-60-70-80-90-100-110-120-130-140-150-160-170-180-190-200-210-220-230-240-250-260-270-280-290-300-310-320-330-340-350-360-370-380-390-400-410-420-430-440-450-460-470-480-490-500-510-520-530-540-550-560-570-580-590-600-610-620-630-640-650-660-670-680-690-700-710-720-730-740-750-760-770-780-790-800-810-820-830-840-850-860-870-880-890-900-910-920-930-940-950-960-970-980-990-1000-1010-1020-1030-1040-1050-1060-1070-1080-1090-1100-1110-1120-1130-1140-1150-1160-1170-1180-1190-1200-1210-1220-1230-1240-1250-1260-1270-1280-1290-1300-1310-1320-1330-1340-1350-1360-1370-1380-1390-1400-1410-1420-1430-1440-1450-1460-1470-1480-1490-1500-1510-1520-1530-1540-1550-1560-1570-1580-1590-1600-1610-1620-1630-1640-1650-1660-1670-1680-1690-1700-1710-1720-1730-1740-1750-1760-1770-1780-1790-1800-1810-1820-1830-1840-1850-1860-1870-1880-1890-1900-1910-1920-1930-1940-1950-1960-1970-1980-1990-2000-2010-2020-2030-2040-2050-2060-2070-2080-2090-2100-2110-2120-2130-2140-2150-2160-2170-2180-2190-2200-2210-2220-2230-2240-2250-2260-2270-2280-2290-2300-2310-2320-2330-2340-2350-2360-2370-2380-2390-2400-2410-2420-2430-2440-2450-2460-2470-2480-2490-2500-2510-2520-2530-2540-2550-2560-2570-2580-2590-2600-2610-2620-2630-2640-2650-2660-2670-2680-2690-2700-2710-2720-2730-2740-2750-2760-2770-2780-2790-2800-2810-2820-2830-2840-2850-2860-2870-2880-2890-2900-2910-2920-2930-2940-2950-2960-2970-2980-2990-3000-3010-3020-3030-3040-3050-3060-3070-3080-3090-3100-3110-3120-3130-3140-3150-3160-3170-3180-3190-3200-3210-3220-3230-3240-3250-3260-3270-3280-3290-3300-3310-3320-3330-3340-3350-3360-3370-3380-3390-3400-3410-3420-3430-3440-3450-3460-3470-3480-3490-3500-3510-3520-3530-3540-3550-3560-3570-3580-3590-3600-3610-3620-3630-3640-3650-3660-3670-3680-3690-3700-3710-3720-3730-3740-3750-3760-3770-3780-3790-3800-3810-3820-3830-3840-3850-3860-3870-3880-3890-3900-3910-3920-3930-3940-3950-3960-3970-3980-3990-4000-4010-4020-4030-4040-4050-4060-4070-4080-4090-4100-4110-4120-4130-4140-4150-4160-4170-4180-4190-4200-4210-4220-4230-4240-4250-4260-4270-4280-4290-4300-4310-4320-4330-4340-4350-4360-4370-4380-4390-4400-4410-4420-4430-4440-4450-4460-4470-4480-4490-4500-4510-4520-4530-4540-4550-4560-4570-4580-4590-4600-4610-4620-4630-4640-4650-4660-4670-4680-4690-4700-4710-4720-4730-4740-4750-4760-4770-4780-4790-4800-4810-4820-4830-4840-4850-4860-4870-4880-4890-4900-4910-4920-4930-4940-4950-4960-4970-4980-4990-5000-5010-5020-5030-5040-5050-5060-5070-5080-5090-5100-5110-5120-5130-5140-5150-5160-5170-5180-5190-5200-5210-5220-5230-5240-5250-5260-5270-5280-5290-5300-5310-5320-5330-5340-5350-5360-5370-5380-5390-5400-5410-5420-5430-5440-5450-5460-5470-5480-5490-5500-5510-5520-5530-5540-5550-5560-5570-5580-5590-5600-5610-5620-5630-5640-5650-5660-5670-5680-5690-5700-5710-5720-5730-5740-5750-5760-5770-5780-5790-5800-5810-5820-5830-5840-5850-5860-5870-5880-5890-5900-5910-5920-5930-5940-5950-5960-5970-5980-5990-6000-6010-6020-6030-6040-6050-6060-6070-6080-6090-6100-6110-6120-6130-6140-6150-6160-6170-6180-6190-6200-6210-6220-6230-6240-6250-6260-6270-6280-6290-6300-6310-6320-6330-6340-6350-6360-6370-6380-6390-6400-6410-6420-6430-6440-6450-6460-6470-6480-6490-6500-6510-6520-6530-6540-6550-6560-6570-6580-6590-6600-6610-6620-6630-6640-6650-6660-6670-6680-6690-6700-6710-6720-6730-6740-6750-6760-6770-6780-6790-6800-6810-6820-6830-6840-6850-6860-6870-6880-6890-6900-6910-6920-6930-6940-6950-6960-6970-6980-6990-7000-7010-7020-7030-7040-7050-7060-7070-7080-7090-7100-7110-7120-7130-7140-7150-7160-7170-7180-7190-7200-7210-7220-7230-7240-7250-7260-7270-7280-7290-7300-7310-7320-7330-7340-7350-7360-7370-7380-7390-7400-7410-7420-7430-7440-7450-7460-7470-7480-7490-7500-7510-7520-7530-7540-7550-7560-7570-7580-7590-7600-7610-7620-7630-7640-7650-7660-7670-7680-7690-7700-7710-7720-7730-7740-7750-7760-7770-7780-7790-7800-7810-7820-7830-7840-7850-7860-7870-7880-7890-7900-7910-7920-7930-7940-7950-7960-7970-7980-7990-8000-8010-8020-8030-8040-8050-8060-8070-8080-8090-8100-8110-8120-8130-8140-8150-8160-8170-8180-8190-8200-8210-8220-8230-8240-8250-8260-8270-8280-8290-8300-8310-8320-8330-8340-8350-8360-8370-8380-8390-8400-8410-8420-8430-8440-8450-8460-8470-8480-8490-8500-8510-8520-8530-8540-8550-8560-8570-8580-8590-8600-8610-8620-8630-8640-8650-8660-8670-8680-8690-8700-8710-8720-8730-8740-8750-8760-8770-8780-8790-8800-8810-8820-8830-8840-8850-8860-8870-8880-8890-8900-8910-8920-8930-8940-8950-8960-8970-8980-8990-9000-9010-9020-9030-9040-9050-9060-9070-9080-9090-9100-9110-9120-9130-9140-9150-9160-9170-9180-9190-9200-9210-9220-9230-9240-9250-9260-9270-9280-9290-9300-9310-9320-9330-9340-9350-9360-9370-9380-9390-9400-9410-9420-9430-9440-9450-9460-9470-9480-9490-9500-9510-9520-9530-9540-9550-9560-9570-9580-9590-9600-9610-9620-9630-9640-9650-9660-9670-9680-9690-9700-9710-9720-9730-9740-9750-9760-9770-9780-9790-9800-9810-9820-9830-9840-9850-9860-9870-9880-9890-9900-9910-9920-9930-9940-9950-9960-9970-9980-9990-10000-10010-10020-10030-10040-10050-10060-10070-10080-10090-10100-10110-10120-10130-10140-10150-10160-10170-10180-10190-10200-10210-10220-10230-10240-10250-10260-10270-10280-10290-10300-10310-10320-10330-10340-10350-10360-10370-10380-10390-10400-10410-10420-10430-10440-10450-10460-10470-10480-10490-10500-10510-10520-10530-10540-10550-10560-10570-10580-10590-10600-10610-10620-10630-10640-10650-10660-10670-10680-10690-10700-10710-10720-10730-10740-10750-10760-10770-10780-10790-10800-10810-10820-10830-10840-10850-10860-10870-10880-10890-10900-10910-10920-10930-10940-10950-10960-10970-10980-10990-11000-11010-11020-11030-11040-11050-11060-11070-11080-11090-11100-11110-11120-11130-11140-11150-11160-11170-11180-11190-11200-11210-11220-11230-11240-11250-11260-11270-11280-11290-11300-11310-11320-11330-11340-11350-11360-11370-11380-11390-11400-11410-11420-11430-11440-11450-11460-11470-11480-11490-11500-11510-11520-11530-11540-11550-11560-11570-11580-11590-11600-11610-11620-11630-11640-11650-11660-11670-11680-11690-11700-11710-11720-11730-11740-11750-11760-11770-11780-11790-11800-11810-11820-11830-11840-11850-11860-11870-11880-11890-11900-11910-11920-11930-11940-11950-11960-11970-11980-11990-12000-12010-12020-12030-12040-12050-12060-12070-12080-12090-12100-12110-12120-12130-12140-12150-12160-12170-12180-12190-12200-12210-12220-12230-12240-12250-12260-12270-12280-12290-12300-12310-12320-12330-12340-12350-12360-12370-12380-12390-12400-12410-12420-12430-12440-12450-12460-12470-12480-12490-12500-12510-12520-12530-12540-12550-12560-12570-12580-12590-12600-12610-12620-12630-12640-12650-12660-12670-12680-12690-12700-12710-12720-12730-12740-12750-12760-12770-12780-12790-12800-12810-12820-12830-12840-12850-12860-12870-12880-12890-12900-12910-12920-12930-12940-12950-12960-12970-12980-12990-13000-13010-13020-13030-13040-13050-13060-13070-13080-13090-13100-13110-13120-13130-13140-13150-13160-13170-13180-13190-13200-13210-13220-13230-13240-13250-13260-13270-13280-13290-13300-13310-13320-13330-13340-13350-13360-13370-13380-13390-13400-13410-13420-13430-13440-13450-13460-13470-13480-13490-13500-13510-13520-13530-13540-13550-13560-13570-13580-13590-13600-13610-13620-13630-13640-13650-13660-13670-13680-13690-13700-13710-13720-13730-13740-13750-13760-13770-13780-13790-13800-13810-13820-13830-13840-13850-13860-13870-13880-13890-13900-13910-13920-13930-13940-13950-13960-13970-13980-13990-14000-14010-14020-14030-14040-14050-14060-14070-14080-14090-14100-14110-14120-14130-14140-14150-14160-14170-14180-14190-14200-14210-14220-14230-14240-14250-14260-14270-14280-14290-14300-14310-14320-14330-14340-14350-14360-14370-14380-14390-14400-14410-14420-14430-14440-14450-14460-14470-14480-14490-14500-14510-14520-14530-14540-14550-14560-14570-14580-14590-14600-14610-14620-14630-14640-14650-14660-14670-14680-14690-14700-14710-14720-14730-14740-14750-14760-14770-14780-14790-14800-14810-14820-14830-14840-14850-14860-14870-14880-14890-14900-14910-14920-14930-14940-14950-14960-14970-14980-14990-15000-15010-15020-15030-15040-15050-15060-15070-15080-15090-15100-15110-15120-15130-15140-15150-15160-15170-15180-15190-15200-15210-15220-15230-15240-15250-15260-15270-15280-15290-15300-15310-15320-15330-15340-15350-15360-15370-15380-15390-15400-15410-15420-15430-15440-15450-15460-15470-15480-15490-15500-15510-15520-15530-15540-15550-15560-15570-15580-15590-15600-15610-15620-15630-15640-15650-15660-15670-15680-15690-15700-15710-15720-15730-15740-15750-15760-15770-15780-15790-15800-15810-15820-15830-15840-15850-15860-15870-15880-15890-15900-15910-15920-15930-15940-15950-15960-15970-15980-15990-16000-16010-16020-16030-16040-16050-16060-16070-16080-16090-16100-16110-16120-16130-16140-16150-16160-16170-16180-16190-16200-16210-16220-16230-16240-16250-16260-16270-16280-16290-16300-16310-16320-16330-16340-16350-16360-16370-16380-16390-16400-16410-16420-16430-16440-16450-16460-16470-16480-16490-16500-16510-16520-16530-16540-16550-16560-16570-16580-16590-16600-16610-16620-16630-16640-16650-16660-16670-16680-16690-16700-16710-16720-16730-16740-16750-16760-16770-16780-16790-16800-16810-16820-16830-16840-16850-16860-16870-16880-16890-16900-16910-16920-16930-16940-16950-16960-16970-16980-16990-17000-17010-17020-17030-17040-17050-17060-17070-17080-17090-17100-17110-17120-17130-17140-17150-17160-17170-17180-17190-17200-17210-17220-17230-17240-17250-17260-17270-17280-17290-17300-17310-17320-17330-17340-17350-17360-17370-17380-17390-17400-17410-17420-17430-17440-17450-17460-17470-17480-17490-17500-17510-17520-17530-17540-17550-17560-17570-17580-17590-17600-17610-17620-17630-17640-17650-17660-17670-17680-17690-17700-17710-17720-17730-17740-17750-17760-17770-17780-17790-17800-17810-17820-17830-17840-17850-17860-17870-17880-17890-17900-17910-17920-17930-17940-17950-17960-17970-17980-17990-18000-18010-18020-18030-18040-18050-18060-18070-18080-18090-18100-18110-18120-18130-18140-18150-18160-18170-18180-18190-18200-18210-18220-18230-18240-18250-18260-18270-18280-18290-18300-18310-18320-18330-18340-18350-18360-18370-18380-18390-18400-18410-18420-18430-18440-18450-18460-18470-18480-18490-18500-18510-18520-18530-18540-18550-18560-18570-18580-18590-18600-18610-18620-18630-18640-18650-18660-18670-18680-18690-18700-18710-18720-18730-18740-18750-18760-18770-18780-18790-18800-18810-18820-18830-18840-18850-18860-18870-18880-18890-18900-18910-18920-18930-18940-18950-18960-18970-18980-18990-19000-19010-19020-19030-19040-19050-19060-19070-19080-19090-19100-19110-19120-19130-19140-19150-19160-19170-19180-19190-19200-19210-19220-19230-19240-19250-19260-19270-19280-19290-19300-19310-19320-19330-19340-19350-19360-19370-19380-19390-19400-19410-19420-19430-19440-19450-19460-19470-19480-19490-19500-19510-19520-19530-19540-19550-19560-19570-19580-19590-19600-19610-19620-19630-19640-19650-19660-19670-19680-1

RFC CHAIRMAN HENDERSON SENDS CONGRATULATIONS TO BMI WORKERS

WESTERN UNION

CLASS OF SERVICE: This is a follow-up telegram on Cablegram subject to the standard charges to be charged by a cable operator when the message is received.

STANDARD TIME at point of destination

VS15 07 7 EXTRA GOVT WUX WASHINGTON DC 3 NOV 4 1944

F O CASE, GENL MGR BMI LASVEGAS NEV=

THE DIRECTORS OF THE RECONSTRUCTION FINANCE CORPORATION CANNOT LET THE OPPORTUNITY PASS BEFORE THE CLOSING OF YOUR PLANT. TO LET YOU KNOW HOW DEEPLY THEY APPRECIATE THE COOPERATION AND ASSISTANCE OF THE OFFICIALS AND EMPLOYEES OF BASIC MAGNESIUM ALL OF YOU ARE TO BE CONGRATULATED FOR THE SPLENDID WORK YOU HAVE DONE AND PARTICULARLY FOR YOUR CONTRIBUTION TO THE WAR EFFORT. IN THE PRODUCTION OF A MOST VITAL WAR MATERIAL WE THANK YOU AND WISH ALL OF YOU CONTINUED SUCCESS.

F. O. C. NOV 6 1944

CHARLES B. HENDERSON, CHAIRMAN
RECONSTRUCTION FINANCE CORPORATION. (56)

WAR PRODUCTION BOARD EXECUTIVE SAYS BMI DID SPLENDID WAR JOB

BY DIRECT WIRE FROM

WESTERN UNION

CLASS OF SERVICE: This is a follow-up telegram on Cablegram subject to the standard charges to be charged by a cable operator when the message is received.

STANDARD TIME at point of destination

NOV 2 GOVT LG PD-TDC WASHINGTON DC NOV 4 1944 14:09

F O CASE, GENL MGR BMI LASVEGAS NEV=

F. O. C. NOV 6 1944

MAY I TAKE THIS OPPORTUNITY OF CONGRATULATING YOU ON THE EXCELLENT RECORD YOU AND YOUR STAFF HAVE MADE IN THE OPERATION OF THE BASIC MAGNESIUM PLANT SINCE YOU TOOK IT OVER IN OCTOBER, 1942. YOU WERE AT THAT TIME FACED WITH INNUMERABLE DIFFICULTIES WHICH HAVE BEEN OVERCOME WITH MAXIMUM SPEED AND EFFICIENCY AND AT MINIMUM COST TO THE GOVERNMENT. THE PRODUCTION OF MORE THAN 166-MILLION POUNDS OF MAGNESIUM FOR THE WAR EFFORT COMMENCING AT A TIME WHEN URGENT WAR DEMANDS WERE NOT BEING SATISFIED IS A RECORD OF WHICH YOU ALL SHOULD BE PROUD AND I WISH TO THANK YOU FOR THE WAR PRODUCTION BOARD AND FOR THE ALUMINUM AND MAGNESIUM DIVISION FOR YOUR OUTSTANDING CONTRIBUTION TO THE WAR.

PHILIP D. WILSON VPE METALS.

(1131A)



Mr. W. H. Hoover, Vice President and General Counsel, Anaconda Copper Mining Company, was a noted visitor at the plant site the other day. He accompanied Anaconda's President J. R. Hobbs, during business conferences with BMI General Manager Case and inspected plant here.



Mr. E. J. Barnsley, of Imperial Chemicals, Ltd., Director of BMI and Anaconda, was a plantsite guest recently. He negotiated original agreement with Howard Eells, George Thatcher and Jack Lowman in March, 1941, that brought BMI into being.

BRITISH EXPERTS PROMOTED

Information from reliable sources intimate that Dr. S. J. Fletcher and Mr. J. R. Charles, executives of Magnesium Elektron, Ltd., Manchester, England, will be welcomed home with surprise promotions. They left for London Wednesday.

Dr. Fletcher is rumored to be advanced from Chief Chemist to Director of All Research.

Mr. Charles steps up from Chief Engineer to General Manager. Both these British experts accompanied Major Ball, BMI Vice President, on a recent trip by air from London to the plantsite. Charles has been with MEL since 1935.

American friends join in expressions of congratulations to Dr. Fletcher and Mr. Charles.

Wanna bring those fighting 'kids home? BUY WAR BONDS!

BILL TULLEY IN VEGAS

Many folks here will remember Bill Tulley, good looking blind but expert stenographer who worked in the steno pool until he left recently for a position in San Francisco.

Well, Bill had great difficulty getting housed comfortably up north and his dog, the beautiful German Shepherd 'Seeing-eye dog, got terribly confused in the traffic and noise of the busy metropolitan area.

The weather was pretty tough and Bill's health started failing. On the recommendation of his doctor, Bill is back in Las Vegas and must take a rest for a month. He stated he is renewing old acquaintances.

SIXTH WAR LOAN CAMPAIGN BEGINS

Despite the curtailment of magnesium production here, the war is still going strong and it takes money in vast amounts to lick powerful enemies like the Huns and Nips. Government officials have planned a Sixth War Bond Drive, officially to get under way November 20 and to conclude December 16.

BMI has been given a heavy quota in the overall, nationwide goal of 14 billion dollars. We are charged with contributing \$200,000. Always oversubscribing our allotment in previous Loan Drives, BMI employees remaining on the job will unquestionably maintain that outstanding patriotic record by cash and payroll deduction purchases of Government Bonds.

An official bulletin will be released from the office of Ross A. Ross, chairman and coordinator of the local War Bond committee.

HOOPER TO RICE

Laura Hooper, Office Supplies, is aflutter over news from her boy Bob in the Navy. He completed two semesters at the University of New Mexico with high marks and was among top students selected to take specialized training in mechanical engineering at Rice Institute, Houston, Texas. Bob was transferred to Rice November 1 and will be there for two years.



Listed on the Masthead of the BASIC BOMBARDIER as editor is Guernsey Frazer, seen in rare photo, above. He has been on the project three years. During early construction days "Doc" - as he is familiarly known - was Assistant Project Manager under former General Managers D. W. Stewart and Howard Mann.

Later assuming responsibilities of Public Relations Director he handled reporters from scores of the nation's leading publications and was responsible for much of the fine publicity that appeared with profuse illustrations in such periodicals as Look, Life, Saturday Evening Post and many other publications.

More recently he has been Administrative Assistant to General Manager Frank Case and handled 9 million dollars worth of housing and 2 1/2 million dollars in highway jobs here.



The Hospital at Basic Magnesium, Incorporated, has been one of the busiest of all the busy divisions at the great magnesium project. At this institution, with latest scientific surgical and medical equipment, rested the responsibility of caring for whatever emergencies arose among the thousands of war workers at the desert plant. Families of employees also took advantage of the facilities for services made available for them. Hospital will continue services for undetermined period - under direction Chief Surgeon, Dr. D. E. Hemington.



FIRE FIGHTING EQUIPMENT at BMI is the largest concentration of such mobile apparatus in the State of Nevada. Under direction of Plant Protection and immediate supervision of Fire Chief J. Ray Hatfield, the Department has maintained an enviable record of efficiency. Not only has it fought fires, it has educated war workers to prevent fires through an extensive training system which included rescue work in gaseous areas. The Fire Department has responded to emergency calls from adjoining communities and performed outstanding service.

BASIC BOMBARDIER

TRAFFIC DEPT. STILL GOING STRONG

By J. J. BROZ
Traffic Manager, BMI

The Traffic Department supervises "transportation service". We have been the silent partner at BMI. First came our inbound shipments of construction materials - lumber, cement, iron and steel, electrical equipment, machinery, firebrick and hundreds of others. These were followed by operating materials - magnesite, salt, coal, potash, peat moss, etc.

Finally, we shipped outbound products including metal, chlorine, caustic soda and flux. We're also shipping such surplus material as peat moss, used machinery, electrical products, scrap iron and steel and other items.

Our functions included the handling and servicing of inbound and outbound traffic reports, freight charge analyses, loss and damage claims, sales



records, shipping routings, demurrage charges, tariff files, reservations and freight rate reductions.

Since August, 1941, about 8 million dollars in transportation charges have been paid here. About 90 percent of this amount was paid to railroads here and at Luning.

Trucking cost studies prepared by your Traffic Department furnished a basis upon which to contract for ore handling from Gabbs to the plantsite.

Nearly 150 million pounds of magnesium metal have been shipped to date - most of it being in the form of incendiary bombs have been delivered by capable air carriers over the aerial route to their destination - Germany.

During the past three years the men and women of the Traffic Department staff performed their assigned duties faithfully and well. They cooperated with all other departments throughout the plant at all times and in the closing issue of the BOMBARDIER I wish to acknowledge my appreciation for their outstanding contribution to this greatest of all the world's magnesium plants.

MILES OF MATERIAL IN HOUSING PROJECT

The original one thousand homes built by McNeill Construction Company at Basic Townsite required 2,854,183 square feet of plywood - equivalent to 65 acres. The four inch flooring would extend in one line for 587 miles.

In the Townsite homes there were 6,297 doors and 8,634 windows with 117,128 panes of glass and 2,297 bedrooms.

Utilities necessary to service the 1000 homes at Henderson included 14 miles of cast iron water main, 27 miles of vitrified sewer line and 27 miles of galvanized water pipe, 5 miles of copper tubing and 8,500 valves of various kinds. Evacuation crews dug 50 miles of trenches to accommodate the underground lines needed.

BIGGEST STEEL JOB IN WESTERN AMERICA

Structural steel men who have passed through the working ranks of BMI from construction days to curtailment agree that this has been the most interesting job they have ever undertaken.

In terms of tonnage, BMI was the biggest structural steel job ever tackled west of New York. More than 50,000 tons of structural steel went into the project.

That represented over 1,000 carloads. There are as many lineal feet of structural steel on this magnesium plant job as went into the Empire State Building, which, next to Radio City, was the biggest ever completed in this nation.

"Inside the fence" at BMI more than 300,000 rivets and 300,000 permanent bolts were required. (The engineer who supervised that part of the project for the American Bridge Company was superintendent of the great San Francisco-Oakland Bay Bridge job.)

Equipment in use to handle massive erection requirements included eight especially designed speed cranes, five 25 ton capacity and three 40 ton "cherry-pickers". Each embodied many patented safety features. With 140 foot booms, they traveled all over the project. One locomotive steam crane was able to pick up and set down 70 tons.

Structural steel rolled into the plantsite from all the mills in the country able to supply the high priority demand of BMI.

The cantilever bridge facetiously called "the bridge that leads to nowhere" - is one of the engineering freaks of the project. It required 1042 tons of steel. Its anchor arm is 153 feet and the cantilever arm sticks out over Lake Mead for 233 feet and stops right there in the middle of the lake.

On the end of the arm is a pump house and pump equipment. The tower where the cantilever arm begins is 60 feet high. BMI built a 1,000 foot causeway of rock and dirt fill leading from "cantilever" island to the mainland.

The ten magnesium producing units present an entirely new style for structural steel work in America and have brought gasps of astonishment from visiting steel engineers.

History has been written in steel work at BMI - as it will be written in magnesium after the victory has been won.

Aggregate purchase orders for electrical equipment installed at BMI amounted to more than 12 million dollars and represented the largest electrical order ever placed in the world.

MAGNIFICENT ACHIEVEMENT SAYS COULTER

By J. RAY COULTER

BMI Superintendent of Production



The closing of this great magnesium producer has brought sorrow to countless people, but nowhere is there a deeper feeling of sorrow than in the hearts of the employees of the Production Department. Theirs has been a magnificent achievement, yet they are particularly saddened because they best realize and are most fully aware of the magnitude of the prodigious improvements that were scheduled for very early realization at the time the curtailment order was received.

At this time I should like to congratulate each and every employee of the Production Department on a splendid performance of a vital duty and to express again my deep appreciation of their unswerving loyalty. On behalf of the employees of the Production Department I should like also to express our thanks for the expert direction and inspiring encouragement we have always been accorded by top management.

COMPTROLLER HANRAHAN PAYS TRIBUTE TO STAFF



It is unfortunate that circumstances beyond the control of the management make it necessary to close this plant. However, in my opinion, all employees, including administrative and management personnel, have benefited by their association with this project.

I have particularly in mind the very large number of supervisory employees who never before had the responsibilities of supervisory work. From early 1943 on, many changes were made and those who remained caught on to the fundamentals of supervisory work, and this was definitely reflected in lower costs. Those who remained until recent months and those who are still here deserve a great deal of credit for the showing made.

The cost of this plant and the dollars advanced by the Government to operate it amount to a sum much larger than most of us realize. The management of this project is trustee for the Government funds and must account to the Government for every dollar appropriated. This work will take a number of months and we are fortunate to have a group of key employees in the Accounting Department who have been here since the latter part of '41 and who are well qualified to do the work.

I want to take this opportunity to express my appreciation for the unusually fine work done by the Accounting and other administrative divisions under extremely trying conditions during the past two to three years.

(Signed): F. R. HANRAHAN, Comptroller

ELECTRICAL DEPARTMENT



Reporter SALLY NOBLE

Dear Sally:

So you thought this would be a lovely time to take your vacation because the work would not be heavy. Far be it from me to spoil your fun by telling you just what I've gone through since you started your annual 2 weeks as a lady of leisure. I'll just be unselfish and say we all hope you are having a wonderful time.

You'll be surprised to learn that Glen Marsh deserted us for a job in Azusa; Phil Noble has gone to work at Boulder Dam, Stan Phillips is also going to work at Boulder and Mr. Taylor is optimistic enough to think I can struggle along with his job. Andy Anderson and Bill Redden are on their way to Tennessee.

They're going to have a lot of friends there as Joe Craig is there and several others from the department are planning to leave as soon as they can be released.

I wonder what makes the electricians so skeptical. When I showed up the other day with a beautiful "shiner" not one of them would believe the truth - that I actually got it trying to break up a dog fight. (They thought I'd be afraid to tell about that here!)

Mr. Gillings is in L. A. on power business. Dorothy Smith is back - was pretty sick and spoiled her vacation. And, say, the telephone operators tell me their party at the last Frontier was a grand success.

We'll be looking forward to welcoming you back.

Sincerely,
Delsa Sheahan

(Ed. Note: Since Delsa sent the above copy to us we learn that Reporter Sally Noble has been very ill and is home abed. Get well and c'mon back, Sal)

STUDENTS REMEMBER PAL

Bill Bedwell was a student at Basic High School ten months ago. He is an average American kid. Played on the school baseball and football teams. Had a whale of a lot of fun at school parties. Finished as a graduate in February and didn't want to wait for commencement exercises so went right into the Navy from Basic HI. His dad, employed at BMI, accepted Bill's diploma at graduation ceremonies last June. Got a big hand for Bill, too.

Bill was sent to the South Pacific fighting zone after he left boot camp. He got banged up battling the Nips somewhere along the line and classmates heard that Bill was hospitalized somewhere down there. They bought one of the coveted High School Annuals, filled it full of wise cracks and messages of cheer that only kids can think of and mailed it to him. Bill's getting better.

HOW TO MAKE MAGNESIUM

Producing magnesium is no mystery. It is merely the transformation of an oxide to an anhydrous chloride and the passage of an electric current through the chloride. Magnesium and chlorine are the result. That's all there is to it.

BASIC BOMBARDIER

—CHLORINE—CAUSTIC—



Reporter NINA COURTURE

When Al, our Editor, told me to prepare copy for the last issue of the BOMBARDIER, it certainly brought home the realization that BMI is heaving its last sigh of action. To those of us who have been with Basic since its beginning, leaving here will turn a new leaf in our Book of Memories to start a new page with an entirely different story - for BMI is a story all its own.

When this plant was designed, magnesium was needed urgently and quickly by our armed forces. Every nook and corner of these United States contributed to the personnel and, despite innumerable handicaps and shortages of material and equipment, soon had this huge plant well under way.

Such a buzz of activity! Watching it, one never dreamed that such teamwork, cooperation and industry could be equalled. However, records were unbelievably surpassed. After the disastrous fire which completely destroyed the Administration Building, the hum of activity previously marvelled at was a mere dull din compared to the hustle and bustle of getting work in order again. This was accomplished without a lost moment toward completion of the Metal Units Plant - for BMI went into production ahead of schedule.

Today its job is done; having supplied the required precious metal, the units are now quiet. The hurry and scurry of just a few months ago have disappeared with hundreds of recent terminations.

The Chlorine and Caustic Plants are still carrying on, supplying their output to the war effort. The first of November records showed more than 40,000 tons of chlorine and caustic produced - and they're still going strong. Many post-war plans are already under consideration, for, you see, the story of BMI isn't ending - it's really only beginning!



One of the busiest spots behind the teeming activity of BMI's war job has been the plant Machine Shop. A battery of heavy duty lathes, milling machines and drill presses have been manned by the best machinists in the nation for the toughest assignments in shop work. Trimming steel crucibles weighing several tons was easy pickings for these experts. They could turn out a delicate part for an automobile carburetor as efficiently as they carved carbon-hard steel. Under Superintendent W. J. "Big Bill" Treataway and Foreman George Mattingly they've helped to make history for magnesium.

PERSONNEL DIRECTOR CARL HYDE SAYS "ESTO PERPETUA!"



CARL L. HYDE

One cannot have been a part of an endeavor as great as BMI and then become separated from it without feeling genuinely emotional. When this project adopted me, January 12, 1942, I became No. 527 on the payroll employed since its beginning July, 1941. When I checked off the payroll at the close of business October 31, 1944, the cumulative terminations totaled 21,022. During the same period 22,514 cumulative hires had been made for this project, not counting any of the several contractors' employment. These totals represent two good sized towns. Literally hundreds of these employees represent the finest people it has been my privilege to meet and know. I am confident that this employee publication has played a significant part in the development of the good will which has characterized so generally the relations of us as the BMI family. The intelligent, liberal and understanding attitude of the management of this desert colossus has been an exhibit of rather rare quality and measure by comparison with ordinary so-called industrial standards. In this statement I feel most sincerely that I reflect the sentiments of the rank and file of this great organization. Because of my job as Personnel Director I have expressed my personal appreciation many times for the fine fellowship, cooperation and job loyalty which the overwhelming majority of these people have manifested on this project. Now I am in the role of saying goodbye to the comparative few hundred that are still here. I believe I could be charged with ingratitude if I did not express a few words in the closing issue of the BOMBARDIER for the fine civilian soldiers that are still here doing their bit to conclude whatever may be the last chapter in this great enterprise. To them I say - "Esto Perpetua! May your shadow never be less."

(Signed) CARL L. HYDE

OWNERSHIP OF WAR BONDS IS AN INVESTMENT IN GOOD CITIZENSHIP.

Allan Gannell, man-about-town, reports that Micky and Minnie, K-9 pets of BMI, are expecting again.

TRANSPORTATION—SAFETY



Reporter BETH SCHWARTZ

*Dear Virginia:
A lot of things can happen in 2 1/2 years at BMI. Your coming to live with us was in itself something out of this world. A rap at the door and there you were. We didn't know you; we weren't looking for a roomer - but you didn't have a place to bunk.

I had just started in Transportation. You soon took your stand in Production. Such fusing and fuming as YOU poured that first ladle of magnesium.

Member the time we thought Purchasing had gone completely off the beam when some refugee from a coal mine had us send a special car to the airport to meet some canary birds?

Member when we got tired fixing that Accounting Room desk and sent one of the lads loaded with everything from crow-bars to pickhandles? He let the tools clatter one by one and to the bug-eyed stares of Accountants.

You'll remember the night you spent catching pneumonia looking for me while we were out "rum-running" newly purchased autos across the border. It was almost fatal for us as "old grumpy" threatened to shoot the girls if they didn't stop giggling where we were unloading the cars.

Did I tell you about the time one of the Courtesy car drivers on her first call found herself on top of J-1 with the whole Refinery crew summoned to get her down?

Them days are gone forever. I promise to keep a diary and perhaps 50 years from today we can get together and read excerpts from our past.

Luck on your new job.

BETH.

(*Written to Virginia Price, Bert Harden's former secretary, now in San Francisco)

KEEP 'EM ON THE ROAD TO BATAAN. BUY BONDS AND BONDS AND BONDS!



22

People have often referred to BMI as "the biggest brick job in the nation because more than 16 million bricks of all types and styles were used on the job. At peak of operations there were 396 bricklayers who marvelled at the process of mixing mortar in ice cream freezers. They ground more than a thousand different shapes some with as many as nine sides to a tolerance of 1/64th of an inch. Shed above was used for finished acid and heat resisting refractory brick made to careful design for chlorinators, electrolysis cells and other specific purposes.



Section of interior of largest brick grinding shed in the nation where refractory brick that went into chlorinators, electrolysis cells and chlorine usages, were ground to a tolerance of 1/64. Hundreds of especially fabricated shapes with multiple faces were handled by three shifts during peak of construction. Ventilation was an important feature of this huge area. Great care was observed and frequent inspections maintained maximum elimination of dust particles to dispel hazards of inhaling ground dust. (Hawthorne Photo)

BASIC BOMBARDIER

EDITORIAL

Serving as editor of your **BASIC BOMBARDIER** during its final days has been a pleasant but heart-tugged experience. The pleasantries are self-evident - the heart-tug comes with the thought of the publication going to press for the last time. The **BOMBARDIER** has had a fine, fruitful and lively existence. It has fulfilled a much-needed mission among us. Launched by effervescent and dynamic Harold Kingsley, veteran newspaperman, a pace was set that was hard to follow. Old-timer John L. Von Blon kept you well primed with action news. Zelda Reed Smith performed yeoman service for you. Your department correspondents served faithfully. The people behind the scenes - vari-typist, photographers, print shop supervisor and workers did much to make the paper a success. Circulation was capably handled. Al Weinberg, assistant editor, stood the brunt of a tough job more recently. To those who so untiringly contributed so much effort toward the interest of the **BOMBARDIER** we extend sincere thanks and a Winchellian orchid. Good luck to you all.

GUERNSEY P. FRAZER.

A lot of things have happened since the first issue of the **BASIC BOMBARDIER** appeared. They were things of importance to the world at a time when the world had important things to think of and to do. Conceived for the sole purpose of coordinating the activities and interests of the thousands of men and women who came to this desert spot from all quarters of the nation, the publication was dedicated to a service exemplified by a sincere attempt to lessen the tribulations of a tough war time job. And this has been a tough job for many BMI employees. Not only battling the elements of nature, but following through with new ideas and processes developed by the nation's outstanding industrial and engineering leaders, were but portions of the responsibilities of the rank and file worker here. Magnesium was practically new to American industry. It took patience, under pressure, for the ideas and research findings of chemical and electrical physicists to be carried from the drafting room to the production line and BMI did it with such enthusiasm and under such fine leadership that the fighting people who needed this necessary magnesium got it so fast that war markets were flooded with the precious light metal. We gave them so much they had to call a halt. But much has happened from the time we went into production in the Fall of '42 to the winter of '44. The great headway made by our fighting heroes is, in part, a tribute to the success of the job tackled under pressure of war by Basic Magnesium, Incorporated - managed and operated for Uncle Sam by Anaconda Copper Mining Co.

The **BOMBARDIER** fitted into the overall scheme by keeping the thousands of war workers posted on the rapidly advanced program of operations as well as providing an outlet for information covering "over the fence" activities of the BMI family.

If there has been any measure of success attained by the publication, it is due entirely to the efforts of those who founded it and to those who worked quietly, but diligently, behind the scenes to get it to you.

(Signed): Al Weinberg

TRAINEES BRAVED ATLANTIC DANGERS SAYS MAJ. BALL

By CHARLES J. P. BALL

Vice President, BMI

and

Managing Director, MEL, Manchester, England



The story of Basic Magnesium is one of the outstanding examples of what can be achieved by Anglo-American cooperation. It is to the light alloy industry what the Packard, Rolls-Royce, 'Merlin' production is to the aero-engine industry. BMI's production of almost 85,000 tons of magnesium in so incredibly short a space of time enabled Nevada to take a leading part in supplying the incendiary bombs for the U. S. Air Forces and the R.A.F.'s devastating bombing programmes, and formed a splendid contribution to the Allied war effort. Where all

have done so well it is difficult to particularise, but I am sure that all will agree that the BMI Trainees and the MEL Staff who braved the dangers of the Atlantic Crossing to make possible this epic of BMI are deserving of special recognition. In its short life BMI has provided an unequalled example of large scale production of magnesium, and all who have taken part will ever recall with pride the days they served with Basic Magnesium, Incorporated.

To one and all, wherever you may be, I send the warmest good wishes for all at M.E.L. and of myself for good health and good fortune in the days that lie ahead.



Stock Records and Surplus Materials are becoming increasingly important as curtailment program takes hold. This office staff supervised by Bob Rutherford will be charged with the responsibility of final stores inventories and its a big job as this Saturday afternoon photo by Earl McNaughton, Photo Lab, proves. Caught at work also are Earl Keenan, Surplus Stores Expeditor without portfolio, at the third desk, right, in conference with Gus "DPC" Shankey and his shadow Smitty. Tony Martin, Warehouse Supervisor sits at first desk, right, with Rutherford and Jack Wilson right behind him. The little "birdie" caused them all to look up as he flew away. Notice?

BMI STARTLED WORLD SAYS SUPERINTENDENT "SATT"

By H. G. SATTERTHWAITTE

Superintendent, BMI



Basic undertook a gigantic problem when it promised that 9,170,000 pounds per month of magnesium metal could be produced at Henderson. Very few people believed that this figure could be achieved and many doubted if the process could make magnesium at all. Statistics show that Basic DID produce over 9,180,000 pounds per month of magnesium AND DID IT EVERY MONTH THAT THE PLANT OPERATED AT FULL 10-UNIT CAPACITY! In fact, in the month of March of this year - the last full month the plant operated at full capacity - the production was 10,300,000 pounds. The splendid record that has been made has startled the entire world. It has been achieved by an organization second to none. Each employee, from the last laborer to the General Manager, may well be proud of its achievement.

My fervent hope is that every employee of this grand organization may secure as good or a better position than he has had at Basic. It is gratifying to see that a great number of employees have already been assigned for excellent jobs. The fact that many industrial companies have sent their personnel representatives here signifies that our employees have sold themselves to the entire nation. Each employee when he leaves Basic may rest assured that he has served his nation well for the duration.

REFRACTORIES



Reporter JACK ARNOLD

Refractory Maintenance was organized about the time BMI got under way with production and was destined to become one of the most active departments in the M & O program.

Anticipating the problem of maintaining the largest refractory job in the world, Dr. Max Muller, first Superintendent, and Herman Muehleisen, assistant Superintendent, laid out a schedule that has meant much toward keeping the production of magnesium at a high level.

There were 150 bricklayers in addition to mortar and warehousemen, cell hood builders and supervisors. They set up their own receiving and checking section and made all BMI cellhood and chlorinator castings.

As the work progressed many improvements in the process of handling and making brick were affected all with a view to solve the problem of maintenance.

The few who remain in the rapidly disappearing department have been among the many who have learned a lot on this

BASIC BOMBARDIER

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REFRACTORIES JACK ARNOLD
TECHNICAL SERVICE HARRIET KING
TRANSPORTATION - SAFETY BETH SCHWARTZ
CARVER PARK IOTHA JOHNSON

SHHH, SECRETS REVEALED!!!

Rachel Bailey is proud of her grandson whose daddy is fighting for you and me.

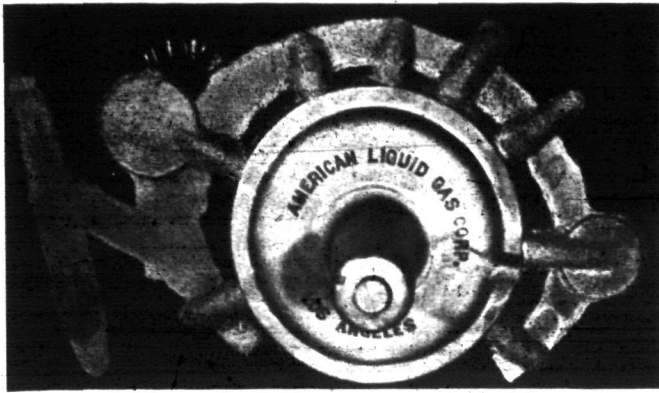
Virginia Haglund thrills over the exploits of the 362nd Field Artillery, 91st Division, Italy. Her brother is a 1st Lodee in that outfit.

Nina M. "DPC" Patrick is more cheerful even tho' her son has been invalided home to San Francisco.

Velta W. Shay, Plant Protection, was not so long ago President of Huntington Park, Legion Auxiliary Unit, California.

SIXTH WAR LOAN DRIVE STARTS NOV. 20. \$18.75 GETS YOU \$25. project and they already miss old friends who helped win the battle of Basic.

BASIC BOMBARDIER



BUTANE GAS ZERO PRESSURE REGULATOR cast at BMI Proving Foundry demonstrated for the American Liquid Gas Corporation that pressure tightness in cast magnesium is readily obtained with proper alloy. Product of BMI.

SURPRISED NURSE

Supervising Nurse Verda Solomon, BMI Hospital, was really surprised when the entire hospital staff, doctors and all, crowded a dinner party in between the rush of official duty the other day. Verda was the guest of honor because it was her birthday. She was presented with enough unmentionables to start a hope chest.

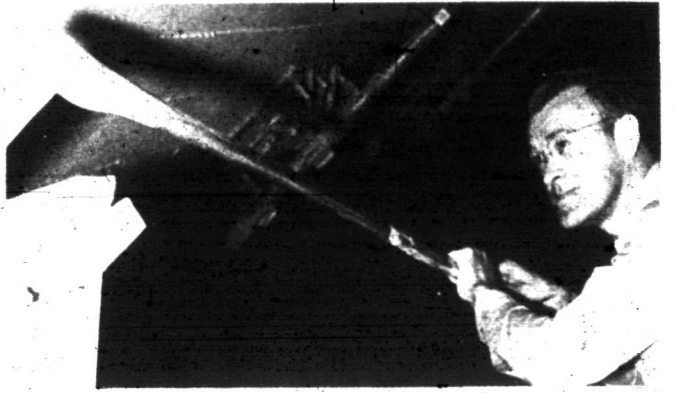
Earl McNaughten, Plant Protection Photographer, was an aerial photographer in this war. And W. Park Barritt, Jr., was a finger print and identification expert with the Imperial Valley, Calif., sheriff before coming to BMI.

H. W. "Bob" Smith's first name is Hillebert and he once taught accounting in a school of his own - California, of course.

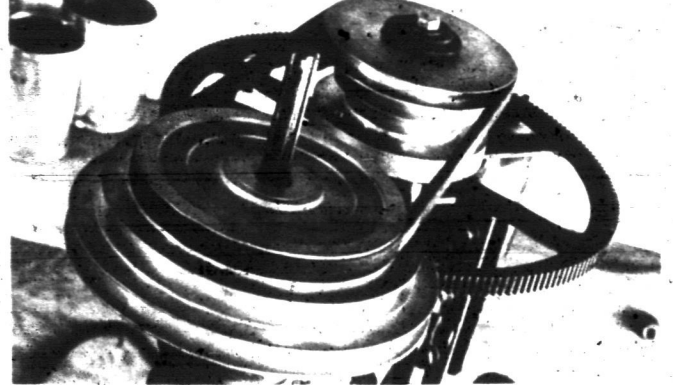


Here, dear reader, is the reason why auditors go bald young. Behold W. H. "Bob" Smith, Supervisor, C&A Accounting - a full fledged CPA - with W. J. Hoesch, Engineering Research expert, adding the final touches to an invoice submitted by McNeil Construction Company for a cool half million dollar supplemental charge for the BMI job. The desk is loaded with nothing but supporting data to cover the one bill and consists of freight bills, blue prints, geographical maps, weather reports, graphs, charts, bus and railroad ticket stubs, plane schedules, photographs, photostats, drawings as well as correspondence from London, Cleveland, New York, Chicago, Salt Lake City, San Francisco, San Diego, Washington and Kalamazoo. The bill covers items from stitching asbestos gloves to transporting scrap lumber to Las Vegas Army Air Field after desert wind blew half their buildings down and is supported with photographs of everything except the wind blowing. Bound copies of submitted data measured more than five feet in height and weighed more than 200 pounds. It has been dubbed by experts to be the most voluminous single bill ever presented and is compared to a half page invoice from an electrical vendor for 2 million dollars which cost but 3¢ for the postage stamp.

DPC audit people in Washington, it is rumored, have been geared in advance for post-war overtime in their section if, when and as the record-breaking document gets that far.



FIVE FOOT MAGNESIUM WRENCH cast in magnesium at BMI Proving Foundry for use at Gabbs Plant replaced an 18-pound steel wrench which was utilized for overhead work. Necessity for light weight durable tool is shown. Magnesium - 5 lbs.



WHEELS, GEARS, PULLEYS of all designs as well as extruded products may be successfully fabricated from magnesium alloys as shown above. Circular items were made from BMI metal at BMI Proving Foundry. Many aircraft steering wheels are made of magnesium.

BMI HOSPITAL TO REMAIN OPEN

Dr. D. E. Hemington, Chief Surgeon at BMI Hospital announces that the institution will remain open for complete service to everyone as long as we continue production of chlorine and caustics.

Service and facilities up to the capacity of the institution will be available for obstetrics, surgery and medical cases.

NONPLUSSD

Down in Electrical circles they are still agog about the turmoil caused recently when Designing Engineer Neumann produced a problem, not electrical. His 7th grade daughters' homework was too much for "pappy", and also for the entire department. Technical Service Library came to the rescue with the desired answer - **THE WEIGHT OF A BUSHEL OF OATS!**



The little group above represents the first family to move into the model negro housing community of Carver Park, especially designed for war workers at BMI. H. O. Williams and his family came to the area early in 1942 and resided in Las Vegas until FPHA completed their housing construction. The five youngsters were among the first to attend the Carver Park School. Williams was a metallurgist, Electrolysis. Now in the Navy, his family are still here. Mrs. Williams spends her time caring for her children with many spare moments left for service with the local Red Cross. Originally from Crosett, Arkansas, they represent a sincere part of America that is doing its bit the hard way and not grumbling.

BASIC BOMBARDIER

PLANT PROTECTION PRAISED BY MILITARY HEADS

By T. M. SWIFT

Director, Plant Protection

We wouldn't have missed it for a million. While BMI was not the largest WAR job, there is no question in our minds but that it was the most interesting. The splendid construction and production record of this plant required a tremendous expenditure of money, materials and manpower at a speed unequalled in history. When we arrived on the project the armed services were demanding magnesium in unprecedented quantities - and speed was the prime consideration. BMI came through.

Plant Protection is proud of the association and part that it played in this program.

Not one case of organized sabotage developed on this project. Not one hour's production was lost as a result of sabotage. Damage from fire and other causes was held to a minimum, despite the many handicaps. We are proud of the complimentary communications praising the excellent efficiency record of our organization which came from such important government agencies as the FBI, 9th Service Command, Military Intelligence, Navy Intelligence, Army Air Forces and others with overall responsibility for the security of the national war effort. The accomplishments of the Plant Protection group were attained only by the exceptional cooperation of a splendid management and a grand staff of employees.

Plant Protection at one time numbered nearly five hundred employees, every one of whom gave it all they had. We shall always proudly remember our association with them and the other grand guys and gals who made this project such an outstanding success at a time when the national emergency existed.



Here is an exceptionally splendid setting shown in the interior of Saint Peter's Catholic Church, Henderson, during the "Forty Hours Devotion." Alternating every hour, at least, two parishioners keep the vigil continuously during the period of this important religious observance of the Adoration before the Blessed Sacrament exposed on the High Altar. This was the first observance of "The Forty Hours Devotion" at Saint Peter's. Father Peter V. Moran began the impressive ceremony with High Mass Sunday morning and concluded with High Mass last Tuesday.

BMI HAD MOST UNIQUE BRICK JOB IN WORLD

Lining the wash towers which were an essential part of the equipment of making magnesium was one of the strangest jobs at BMI.

Brick had to be laid inside of high upright towers where fittings were as precise as the workings of a watch - and where the inside space in which bricklayers worked, was only two feet in diameter. The towers were lined with three rows of brick, fitted so that there was not more than 1/64th of an inch tolerance in any one place.

Brick masons were lowered into the tower on a rope until they stood on a three-foot table which was also lowered with a rope. The bricks were passed down one at a time already "buttered."

When he completed a height of three feet of lining the slim bricklayer was pulled out of the tower on a rope, another table was lowered and he went down again for another three foot job. That continued until the tower was lined to the top.

There were 174 different shapes of bricks that went into these towers and there were 60 such towers - nearly all of the same shape - on the job.

The brick plant and storage buildings covered four acres. More than \$94,000.00 worth of grinding tools had been installed to handle the fitting job.

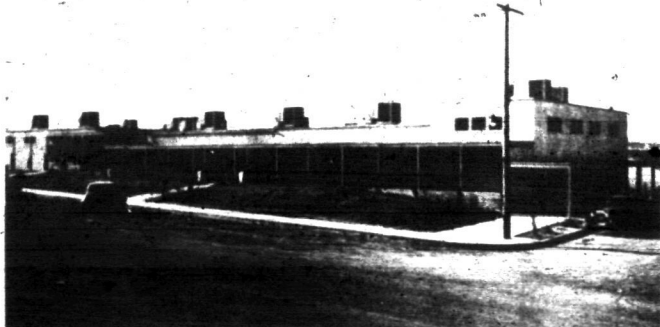
One brick order for BMI was slightly over a million dollars and was the largest single purchase of refractory brick in America.

The fitting job was as careful as was ever done on milady's dress. Exact models of the equipment to be lined were made of wood. Then hundreds of patterns of the bricks to be ground were also made of wood. From these patterns it was possible to fit the bricks perfectly before they were ever taken out to the job. The bricks were ground and fitted around plaster models of the equipment for which they were designed - and the answers had to be right.

Some of the million dollars for brick went for a million store tile, 110 carloads of quarry tile and 750,000 hollow ceramic tile.

Every brick was thoroughly inspected and carried an inspector's number and the operator's number as well. Callipers were applied to obtain final touches.

BMI certainly had the most unique brick job in the world. War's not over yet. Buy Bonds.



Portion of the Henderson shopping area in the townsite showing Nevada's largest grocery and market on the extreme left, department store and the beauty shop on the corner. DPC Housing offices are on the second floor. Managing authority rests with Fred Unsworth, Housing Manager, and a staff of assistants. Information from store owners is that they will remain open as long as there are people in the community to serve. That holds good for the barber shop, theatre, recreation center, shoe repair shop, telegraph office and the drug store. Disposition of houses - an even thousand of them - has not been decided by Washington Housing headquarters.

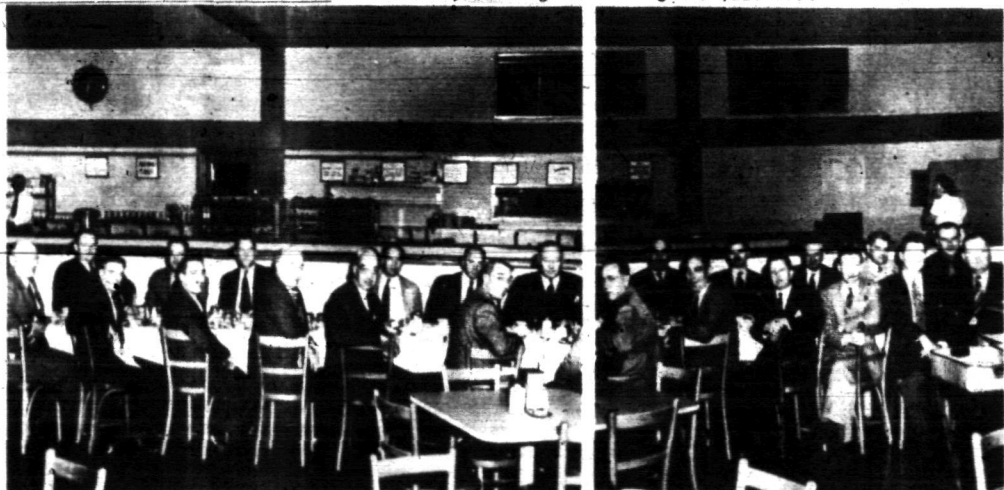
FPHA HOUSES BUILT FOR WAR WORKERS

One of the big problems at BMI during early days was the question of adequate housing facilities for employees and their families.

With the completion of construction on the original one thousand houses in the townsite, later to become Henderson, Nevada's third largest city, applications for accommodations far surpassed available homes.

Officials at the plant called upon various authorities all over the country for help and after many conferences and some delay, the Federal Public Housing Authority came through in a big way.

Responsibility was passed to the State and then to Clark County. A local County Authority was established and they went into action with a vengeance. Construction was speeded to complete a brand new community called Victory Village. Built as a war housing emergency project, comfortable brick units, some partially furnished, were made available for families and unattached persons.



Not for months has BMI had as many outstanding officials gathered here at one time as were here a few days ago. Meeting for very important business conferences dealing with the curtailment and other programs with General Manager Frank O. Case were Executives and Directors of Anaconda Copper Mining Company, headed by

President J. R. Hobbins. Other officials are associated with Imperial Chemical, Ltd., Magnesium Elektron, Ltd., of England and Basic Magnesium, Inc. At a luncheon at Anderson's Plant site Cafeteria, the distinguished visitors and heads of BMI departments were guests of Mr. Case.

SOLDIER SAYS GOING TOUGH IN ITALY DESPITE NEWSPAPER WINNING HEADLINES

Virginia R. Haglund, secretary to Guernsey Frazer, has received a clipping from Stars and Stripes, soldier newspaper overseas, sent by her friend Capt. C. W. Snider, 347th Field Artillery, 91st Division, Italy. The Captain is a patient in an Army Field Hospital and sent the clipping without comment.

To give our war workers a new slant on how the going is over there, a few extracts are lifted. The paper says:

"If a GI, slopping yard by yard through the thick mud, cold and rain, miserable and tired beyond belief, found time to open his home town newspapers several weeks ago, he might have read the following headline: 'Allies Chase Routed Foe 15 Miles From Bologna.'

"This headline actually did appear in a New York Newspaper dated September 25th. If the doughboy had read farther, as his family knowing he is in Italy and vitally concerned with how things are going here undoubtedly did, he would have read this: 'Mighty blows of the U.S. 5th and British 8th Armies caved in the entire eastern half of the 115-mile Gothic Line and today the Germans were in disorderly retreat from the rubble of their fortifications before American forces surging to the edge of the Lombardy plain within 15 miles of Bologna.'

Stars and Stripes comments on the story in this fashion:

"This is to describe the slow, heartbreaking advance that crawled up the slope of one mountain only to face another one on the other side. This is to describe a battle with an enemy who has never fought any harder or any better on this or any other front. This is to describe an enemy whose with-

drawal through the Gothic Line came slowly, yard by yard, and only after long and bitter resistance. This is to describe a month of fighting that will rank with the bloodiest and most costly of the whole war.

"No, the Gothic Line didn't 'cave in' in one 'mighty blow.' It took many little pushings by a lot of guys who won't do much pushing any more. And the Germans weren't in 'disorganized retreat' - not then and not now even though the Gothic Line per se has been passed. The Germans are fighting well, their equipment is good and if there are reports that their morale is cracking, somebody ought to tell them about it.

"And the Americans, on Sept. 25th, or even now for that matter, weren't 'surging' to the edge of the Lombardy plain. They are getting there foot by foot. They are getting there by advancing a little one day, maybe being pushed back the next, and advancing a little more the following day. It won't be a surging line back or a home run with the bases loaded. It has got to be done the hard way,

"You can't kid the GIs. They are right up there and they know what the score is. They resent what they consider home front ignorance of what is happening and the fact that the civilians 'don't know there is a war on.'

The story concludes with criticism of that type of newspaper reporting which its writer, Sgt. Bob Fleisher, says is causing the GI to lose his faith in the press.

Apparently, it will take more than enthusiastic news reporting to win the war.



These storage tanks held thousands of cubic feet of propane gas which, under high pressure, was piped to BMI refineries for furnaces which heated crucibles. Noted for fantastic equipment, BMI was supplied with liquid propane gas in metal ball tank trucks, one of which may be observed in the background. Coated with aluminum paint (because magnesium paint has not yet been marketed) these storage tanks were a landmark at the world's largest magnesium plant.

FREE GLOBAL MAP

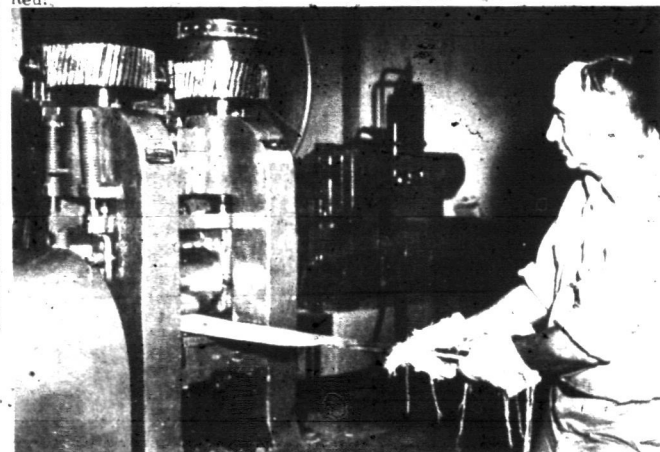
The Union Pacific Railroad has produced a nifty pocket atlas with color maps of the fighting fronts of the world. You may have one FREE for the asking, at any Union Pacific office, or write C. J. Collins, General Passenger Traffic Manager, Union Pacific RR, 1416 Dodge St., Omaha, 2, Nebraska.

H. H. Gillings reserves the right to be called "Red" only for his intimate friends. H. Red!

The entire program of housing in the Victory Village and Carver Park communities has been under the efficient management of Clark County FPHA Housing Director A. C. Grant.

MODEL NEGRO COMMUNITY

Washington Carver Park has been set aside for the exclusive use of negro war workers at BMI and the community has been long identified as one of the neatest and best kept in the State of Nevada.



Laboratory Technician Elston E. Jones, working with asbestos gloves, is ready to move another sheet of BMI made magnesium as it is rolled in the Farrell-Birmingham 2-Hi Rolling Mill. This unit has been doing overtime duty in our experimental development program and handles magnesium sheets up to a foot wide. The tremendous pressure, hydraulic, is able to reduce metal from 1/4 inches slab thickness to .010, or foil thinness. Magnesium in sheets has been used as panelling in fighting aircraft and for covering material. Rudder assemblies on B-29s have magnesium alloy coverings.

BMI CASHIER DOES BIG CASH BUSINESS

Cashier Earl Evans has had one of the most responsible jobs at BMI. Handling all cash and check deposits for the organization, here is a brief outline of a portion of the business passing through his offices:

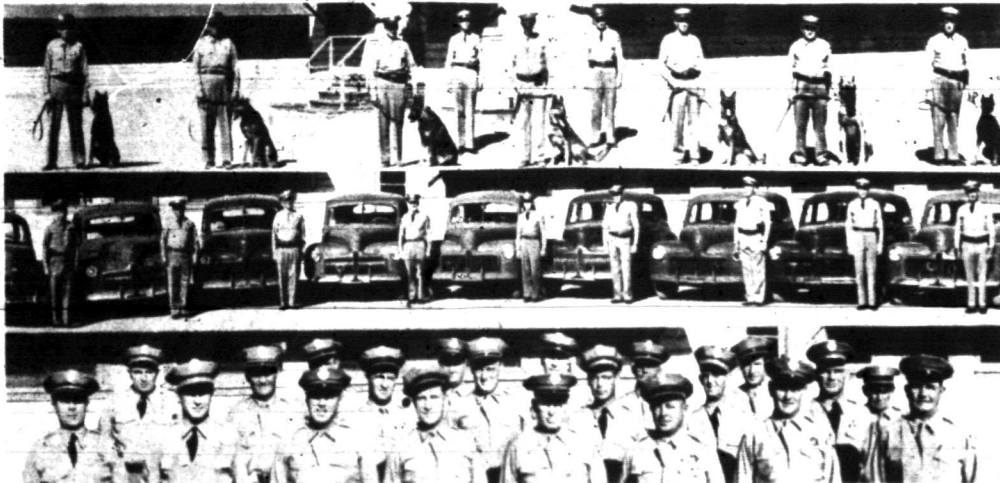
Total value of War Bonds sold \$3,768,125; money orders and travellers checks \$814,172; Postage and war stamps, \$127,750; Red Cross subscriptions for last March only,

nearly \$17,000; Poll Tax collected for State of Nevada, \$12,500.

Greatest amount of cash handled any one week was more than a million dollars. Largest value of pay checks cashed in one day, \$153,000.

In the matter of bond purchases, it was reported that negro employees were among the most consistent purchasers.

Treasury Department officials are staffed to handle special War Bond purchases and will make arrangements to hold them until purchasers want them.



Plant Protection divisions have had a wide diversification of responsibilities which include the more popular gate and pass guards as well as the lesser known special investigators whose business it was, among other jobs, to keep sabotage out of the operations schedule. Above are representative groups. Those with the dogs are not on the "dog watch" but are on special service guarding the "high line" and in the

area of BMI holdings toward Boulder Dam. The squints of the guard shift above are due to the glare of daylight - they represent the night shift. The prowl cars are but a small portion of the automotive section that have been available for duty in all weather 'round the clock. They've all contributed greatly toward a big job. Many of them will be on the BMI Plant Protection payroll for some time to come.



Mr. Thomas C. Russell, Superintendent of BMI Plant at Gabbs, has been in conference with local plant officials during the past few days. Responsible for operations at the "supply base" he kept calcined ore rolling to the Henderson plantsite in vast quantities.

BMI WEATHER

Nov. 1 - Nov. 15

Highest temperature	- 79
Lowest temperature	- 37
Highest humidity	- 86
Lowest humidity	- 30
Maximum wind velocity	- 31MPH
Rainfall	- .76

BASIC BOMBARDIER

HOWARD P. EELLS SENDS MESSAGE

Mr. Howard P. Eells, who first conceived the idea of Basic Magnesium, Incorporated, and who was primarily responsible for sending mountains of Nevada magnesite ore to war in the form of incendiary bombs and tracer bullets and who was first president of BMI, detoured from a western business trip to pay a visit to the plant. Asked for a statement for the last issue of your BOMBARDIER, Mr. Eells said:

"To Employees of Basic Magnesium, Incorporated:
"I appreciate your invitation to use the columns of the BOMBARDIER to send you a word of greeting at this juncture when circumstances are demanding the suspension of your operations.

"It is difficult to believe that it was but a little over three years ago that you were called into being. At that moment Basic Magnesium was no more than a general plan in the minds of a handful of men.

"The job upon which you embarked would have been a major one under any circumstances. With no nearby experience to serve as a guide and projected against the desert reaches of a sparsely populated area, it can be asserted without fear of contradiction that you started at considerably less than 'scratch.'

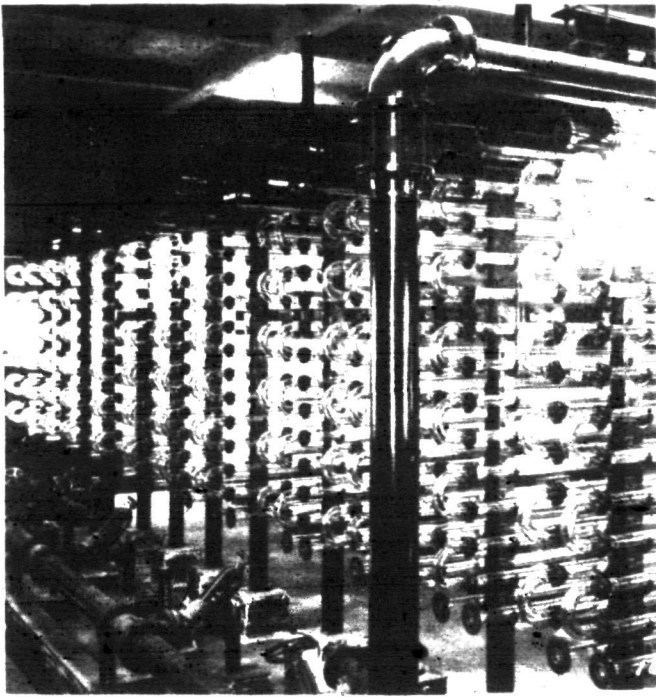
"Actuated in a large measure by patriotic motives you came here from all corners of our country to tackle a mighty undertaking. You and your families 'stuck it' in the face of heat, sand and early discomforts.

"Your accomplishment speaks for itself. Any competent appraisal will put it down as one of the greatest in the great industrial war effort. We may all take pride and satisfaction from having played this part.

"It is regrettable, that having been welded into a highly effective organization under your present fine and able leadership, you are denied the opportunity to establish yourself finally in the industrial scheme. But such, we must assume, are the fortunes of war.

"To all individuals within your ranks goes my sincere respect, my appreciation for the pleasure I have derived from the association with you - and my best wishes for the future success of each of you.

HOWARD P. EELLS, JR.



When the representative of the country's largest glass manufacturer flew out to BMI to discuss the purchase order for glass pipe he looked at the specifications and insisted that our engineers had put the decimal point in the wrong place. The order was for 24 miles of glass pipe. He couldn't believe it. That was the largest order of its kind the manufacturers in Corning, New York, ever heard of. Corner of Preparation Plant, above, shows where some of that pipe went. Chlorine cells, 900 of 'em, took their share, too. (Photo by Burrett)

HOSPITAL



REPORTER JACKIE DEVORE

I have just returned after spending a week's vacation in Los Angeles and boy, do I love Nevada!

Geneva Walton (nee Chase) has transferred to Bob Smith's Accounting Department along with Fannie Finlayson, who worked in our Physical Exam. Section at Personnel.

Fred Dewart is sure having a tough time trying to keep his "little green can" containing his tobacco from the reaches of one of our nurses who insists on hiding it at every opportunity. Fred desires suggestions on the problem as to how he may keep this precious object to himself. Phone ideas to him.

Our nurses are now scattered all over the countryside. Many have gone to Vancouver, some to Reno - others to the Coast. Here is wishing all of them good luck on their new jobs.

Another of our nurses up and got hitched on October 24. Our dental nurse is now Mrs. Robert MacGregor. Husband Bob, formerly with BMI, is employed in Las Vegas. Sending them off to a flying start, a group of nurses and doctors and office staff visited them after the ceremonies - at 11 P.M. - and really gave them a house warming that was a house warming.

Boy, this hospital is beginning to be a Romance and Marriage establishment. We have two more romances abloom -

HUGH THATCHER DOES SWELL JOB ON CLAIMS

The Legal Department of BMI set up a separate Claims Section to cover workmen's compensation and accident benefits under the supervision of Hugh Thatcher on April 22, 1943.

From that date to December, 1943 the Claims Section received and disbursed to claimants a total of \$29,268.10 (which represented 182 claims filed through the Industrial Claims Section) in payment of temporary total and permanent partial disability; and for the entire year of 1942, the Claims Section disbursed \$33,867.60 including outside cases of McNeill Construction Company.

From January through October 1944 the Section disbursed \$41,207.30 for all causes for BMI and McNeill. It is gratifying to know that in the payment of these sums to the claimants there has not been ONE COMPENSABLE FATAL ACCIDENT FROM ANY CAUSE ARISING IN THE COURSE OF THE EMPLOYEE'S EMPLOYMENT.

The average employment at BMI from January 1943 to December that year was 5150 employees and for Gabbs 543. For 1944 - up to November 1 the average employment for BMI at Henderson was 3264 and Gabbs 310. The average compensable claims were 8.1.

Mr. Thatcher came to BMI with a wide knowledge of industrial insurance and because of the application of this experience to the scores of problems arising in the Industrial Claims Section, hundreds of our employees were assured of outstanding service.

one of which looks like it might blossom forth any minute. Here's hoping, cause we like to go to weddings. Everybody cries so happily!

And we're crying happily over this last issue of the BOMBARDIER. 'Twas a lot of fun sending in the dope about the hospital. 'Bye, BOMBARDIER, youse was a great pal.

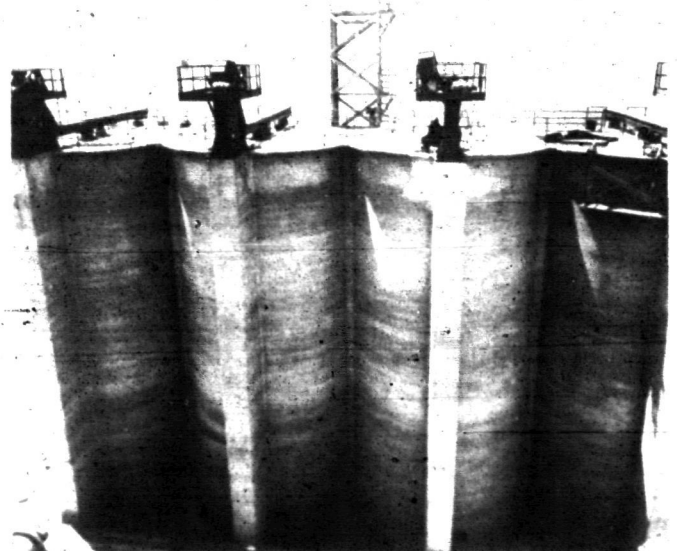
SHOCKLEY TO CHICAGO

Sam Shockley, DPC Auditor, on the BMI project since March, '43 has been transferred to Chicago and will assume his duties there about the 20th. Prior to coming out west, Sam was with a DPC job in Pittsburgh, Penna. A banquet in his honor was held by his fellow workers at Andersons Cafeteria. He was presented with a beautiful traveling bag as a token of the esteem with which he has been held here. Sam is an old timer in the ranks of Federal Civil Service and hails originally from Tulsa, Oklahoma.



A. F. Parker, above, has been responsible for the one-inch box appearing on the front page of your BOMBARDIER which tells about BMI Weather. Many a keen prediction has been pulled out of the smoke of that pipe.

THE NAVY IS GIVING 'EM HELL! BUY BONDS AND SPUR 'EM ON.



Oxide Tanks at Gabbs, 334 miles from the Henderson plantsite, where 400 million tons of magnesite ore were surface-mined from the white hills of Nevada. These massive concrete storage silos have capacity of three thousand tons of calcined ore which were transported to plantsite in especially designed trucks by Wells-Cargo company, at the rate of 30 tons every 35 minutes - 'round the clock. The mines and calcine plant feeding the world's largest magnesium producing project were taken out of operations in the latter part of September.

BASIC BOMBARDIER

GENERAL OFFICE



Reporter RUTH LUSCH

The Eagles uptown have bought the Helldorado paper horses, so now our stable has been officially shut down.

In General Ledger some wag found an alarm clock hidden under Louise Schouten's desk, set it and when it exploded there was a lot of Schouten about by Louise trying to choke it off.

Curley Stewart thought up best gag in many weeks. Placed discarded white flowers in trees lining the Adm. Bldg. walk. Guests remarked on the flowering shrubs and there were loud guffaws from office gang.

In an hilarious series of mistakes, Lou Freeman crashed the wrong party, waiting in lobby for luncheon by Mr. Case, scheduled for Cafeteria, Lou hailed Boss, asked if he were too early for the affair. Ross, thinking he meant Major Ball's barbeque for the trainees, inquired if he needed a ride.

"Ride?" answered Lou, "For what?"

"It's being given at Hidden Wells Ranch," Ross explained patiently. So Lou accepted the ride, and we'd love to have a photo of the Major greeting this guest he obviously hadn't invited, and a full-face view of the dawn breaking on Lou that something was wrong. Mr. Case, in the meantime, was wondering what the deuce had happened to him.

Bill Stannert writes from New York that he's back in the mail business (for the Navy); says they've already got all the Xmas stuff out to the sailors. Hopes for transfer to the South Pacific into the thick of things.

Hats off to TWA, and western A.I.R. They made it possible for Carl Hyde's daughter to reach her husband, hospitalized in San Francisco after 22 months overseas, in the only quick way possible.

If you like this country, don't go away; don't go away anyway, for you'll miss it if you do. That's a positive guarantee!

BOILER PLANT DOES OUTSTANDING JOB

"Now that BMI is closing down many outstanding records are being brought to light," says Roger H. Dunlap, Safety Supervisor. He was particularly enthusiastic about the efficiency and attendance records of the Boiler Plant and its various sections which include fuel and Combustion, Hospital Boiler Plant and the main Boiler Plant. For 22 months they have reported no "lost time" accident.

With about 60,000 man hours of exposure they have set an outstanding record. "Congratulations go to Frank Baeyertz, Superintendent, Boiler Plant, and his splendid safe-working crew," said Mr. Dunlap. He explained that Mr. Baeyertz had the job of training men with

YOUR WAR JOB AT BMI

Fill in the date you were hired and the date of your termination to complete this chronological history of BMI. Yes, you have an important place in this history because you produced on average approximately one-half your weight in magnesium every day you worked here. Some other important dates are:

- 8-13-41 Defense Plant Corporation signs agreement with Basic Magnesium, Incorporated, at Washington, D. C. for construction and operation of world's largest magnesium plant near Las Vegas, Nevada.
- 9-15-41 Ground is broken for the plant, which has produced 25 percent of all the magnesium used by the Allied armed forces.
- 2-17-42 Construction of town of Henderson at plantsite is started to provide housing, shopping and service facilities for BMI employees. Henderson became the third largest city in State of Nevada.
- 3-30-42 Water line completed and the first water is pumped to plantsite reservoir from Lake Mead. Reservoir capacity - 30 million gallons.
- 6-14-42 Transmission line completed and the first power from Boulder Dam delivered at plantsite. BMI became Boulder Dam's best customer, using enough power daily to light the City of Los Angeles.
- 6-26-42 BMI's Magnesium Oxide Plant at Gabbs begins operations and 60 days later began regular shipments to Reduction Plant at Henderson. Gabbs produced total exceeding 400 million pounds of calcined magnesite.
- 8-3-42 World's largest chlorine plant at Henderson starts operations and six days later first car of liquid chlorine is shipped to other war industries. This plant supplied all chlorine required to make magnesium at BMI and furnished other essential war plants with more than 12 thousand tons of the vital liquid. Chlorine Plant is to continue operations after magnesium production is shut down.
- 8-28-42 Preparation Plant begins operations with first rotary kiln start up and production of first pellets. At peak the Preparation Plant mixed and prepared more than 700 tons of raw materials daily for the magnesium process.
- 8-29-42 First chlorinator charged, and
- 8-31-42 First magnesium metal is ladled from first cell in Electrolysis Building No. 1. Initial production of magnesium was accomplished less than eleven months after construction of plant began.
- 10-26-42 Refinery of metal begun at plantsite with start-up of Temporary Refinery No. 1.
- 10-27-42 Anaconda Copper Mining Company takes over management and operation of BMI - production increased 20-fold and costs subsequently reduced to below selling prices.
- 3-8-43 Start-up of Permanent Refinery No. #1-1.
- 5-30-43 Caustic Plant starts operations and in August began regular shipments of caustic soda to other war industries, now totalling more than 40 thousand tons.
- 7-12-43 BMI attains full production of magnesium at rated capacity of plant - 112 million pounds annually - and U.S. Army Air Force Command sends Flying Fortress Memphis Belle with original crew from European Theatre of War to Las Vegas to commemorate event.
- 7-31-43 Construction of Plant completed by McNeil Construction Company with cut-in of last electrolysis cell. For 10 consecutive months BMI produced critically needed magnesium for Armed Forces at rate 7 percent above designed capacity.
- 4-8-44 Sixty percent production ordered by WPB.
- 7-26-44 Forty percent production ordered by WPB.
- 9-6-44 Complete magnesium curtailment of production ordered by War Production Board.
- 11-15-44 The last pound of metal is ladled off the last cell and the world's largest magnesium plant is shut down after having produced, with your help, more than 165 million pounds of the vital war metal - magnesium.

various degrees of qualifications and safety was one of the responsibilities stressed. Safety meetings were always enlivened by worthwhile suggestions regarding the elimination of hazards throughout the project by employees of the Boiler Plant. This has paid dividends in the form of increased ease of mind in the performance of duty and the eradication of the fear of accident on the job.

GOOD BYE RECEPTIONIST

After three years with BMI, Receptionist Ruth Lusch has checked in to her new job with Las Vegas Chamber of Commerce. She'll do publicity work for the city under Carl Hyde, new Executive Secretary of the organization.

CONGRATULATIONS!

Friends are congratulating Mr. and Mrs. Jack Sellers (carpenter shop) upon their recent marriage. Jack took a vacation, went to Arizona a single man and came back with flying colors and a wife known to many old-timers at BMI. Mrs. Sellers is the former Mrs. Leotia Pieper of Accounting. They are honeymooning at the Cherry Lynn Apartments, Boulder City.

Cashier Earl Evans wishes it known that he has a fresh supply of blank forms for the purchase of War Bonds, either for cash or through payroll deductions. Service is available at Rooms C-1 and C-3 Ad Bldg., and at outside windows labelled BONDS close to Gate 7.

PURCHASING-WAREHOUSE



ARDEL FREEMAN

This is the last issue of the BOMBARDIER and we shall miss it no end. We have been able to keep track of the happenings of other departments through its columns as well as to tell a few of the happenings here.

We take printed memories of our department fellow workers with thoughts like these:

RACEY'S threat to go swimming with a pink bow tied around him.

The jellied chicken at the CASABLANCA.

The CHRISTMAS party. Royal flushes, straight flushes and RACEY'S pink flush when he raised four aces.

AFTON STACK winning three check pools in a row.

BOB RUTHERFORD wearing his one and only white shirt to the office with a gay design in gray down the front.

EARL KEENAN being responsible only to WPB, OPA, DPC, RFC, OBT, BMI and his wife in the sale of surplus material. Otherwise, his say-so is final.

Moving from Administration to Safety Stores Building and finally to the Warehouse. Upon arriving at our present office, the paramount job was one of desk moving - BOB ADAMS' chief assignment and prime hobby.

Beautiful MIRIAM LEMMON.

COKE'S expectant looks when the phone rings - hoping Wontana is calling.

BILL THEBEWAN'S daily visits to beekle FRANK SWITZER.

GRACE LEAMAN'S beautiful white hair which is always immaculately groomed.

RATHY GAREY'S violent temper when she discusses politics.

JUAN MATZINGER always hunting for Purchase Order Files.

MERTON SHAEFFER'S "cheap" tires.

Thumbnail sketch of Carol Freeman: Never a dull moment with harassed news correspondent of Purchasing. Walter Winchell had better find a bigger and better keyhole as he has nothing on Carrie when she is on the scent. Incidentally, Carol came with nylons the other day but before it was over she had gone back to nature. In other words, Nevada "daze." She is slated as the Purchasing Fashion Plate, with more suits than the Supreme Court. Take it easy Carol, we still love you.

LAS VEGAS TO HAVE MAGNESIUM FOUNDRY

Four lab men, Earl Magee, Doctor J. H. Bradford, Harry Giffen, and E. E. Jones have formed a company, leased the Midway Casino at Pittman and will open a magnesium foundry. Later, they'll build uptown. Three innovations will be used: vacuum castings, carbon molds, and induction electric furnaces. Company name will be NEVAMAG. Under trademark of Indian chief with headdress of silver-colored feathers will be legend, "STRONG, INFLEXIBLE, FEATHER-LIGHT." Already their advance order book is brimming.

BASIC BOMBARDIER

HAIL AND FAREWELL!

By W. HAROLD KINGSLEY

(Ed. Note: Harold Kingsley, former BMI Director of Employee Activities, handled a multiplicity of responsibilities while here and among other duties, was the founder and first editor of your BASIC BOMBARDIER)

The Old BOMBARDIER is "going to bed" for the last time. And that's all right, too. Like you and you and you-she did a grand job. But Holy Mackerel! Look at the golden chance she had! Look at the job she had to brag about, Look at the gang whose doings she was privileged to record! And look at the enlightened policy of management which gave her life, truth and vigor! No wonder she was unique among plant papers. The plant she served was unique.

I am proud to have been her editor. Because of the wonders you created which gave her food and fuel. She was handmaiden to a miracle. You wrought the miracle.

To me the BOMBARDIER will always live. I shall pour over her pages again and again as the years unroll. Not because I was her editor. But because of the living record she contains of what you men and women of Basic thought and said and did.

Wait 'til YOU leave. THEN you'll know how dear are the memories of the desert drama in which you played a part. THEN you'll know. Basic will always be one of the great wellsprings of your individual pride. So when the day comes, put it all behind you with a cheer.

Just as I now bid adieu to the BASIC BOMBARDIER - tenderly, smilingly - Aw, go jump in the Lake! It's not a tear, I just got something in my eye.

PLANT PROTECTION



Reporter Velta Shay

Welcome addition to Investigation staff is Charles E. Hyde, former AAF Instructor, who is throwing his lot with BMI and establishing a home at Boulder City.

Pratt Prince, Identification, is vacationing and enjoying a deer hunting trip. Upon his return he will take up duties in the Guard Section.

Records Section has a charming increase in the person of Margaret McGhie, formerly with Gabbs Identification office. Margaret is doing her bit here while her Sergeant husband helps warm things up for the Nazis at Aachen and hinterlands.

Mrs. R. G. Carson is home after a sojourn in the Las Vegas Hospital and is well on the way to recovery.

Among the deer hunters closing the season are Lt. Doty and A. E. McKinnon, Fire Dept., and Bob Montgomery, Investigation.

Let us forget that we are the luckiest people on earth, a letter from England received by ye correspondent reads in part - "3/4 lb. of sweets is the month's allotment... 24 coupons are allowed semi-annually for clothing... it takes 18 coupons for a suit or overcoat... 7 for shoes... 4 for stockings... 7 for a dress... 1 for two handkerchiefs... 4 for a blouse. - So you can see we cannot have a complete outfit at once. Still we manage."

I write my last column for the BOMBARDIER with the mixed feeling of relief and thankfulness - relief from the deadline and thankfulness to the many who have aided me since John Von Blon asked me to take over this assignment in '43. Chief among those who have faithfully helped me keep tab are Frances McCrea, Records, Chief Kahre and Sgt. Lucas, Guards, Capt. Paul Zink, Fire Dept. All have helped in keeping Plant Protection news on the grid. Thanks!

BUILDING MAINTENANCE



Reporter Evelyn Cherry

We believe that our part in the successful prosecution of this war has been one of importance in furthering the splendid record of our company and as Americans believing that honest labor and cooperation remain the backbone of American integrity.

We pledge that we will maintain our record for production wherever we may be until there is a final victory;

We pledge that we shall win the peace by showing the world that freedom to work brings forth the quality of production that adds meaning to the phase - "The American Way".

WAR WORKER INSPIRED BY BROTHERS' HEROISM

That grim look of determination on the face of Hebello Schena and the real reason behind his 100 percent attendance record as Typesetter Foreman have been prompted by a sense of responsibility to five members of his family in combat zones. Here's a proud family record: one brother an Army paratrooper - the other in the Navy. Mrs. Schena's only brother is a B-24 pilot. Two of her nephews are in uniform, one having gone through the entire African campaign - the landing at Salerno and the inching up to Rome where he is now stationed.

The biggest thrill - and the most recent reason for greater effort on his war job came to Schena when he received a certified copy of a War Department citation mentioning the heroic action of his brother, Neno, in the New Guinea area. Here's the Citation:

"Staff Sergeant Neno Schena, Infantry, United States Army: For heroic achievement in connection with military operations against the enemy in the vicinity of Wokmer Drome, Blak Island... when an intense enemy barrage of artillery and small arms fire was concentrated in the vicinity of Staff Sergeant Schena's squad during their advance on the drome, he disposed his men in sheltered positions and directed return fire. His Browning Automatic rifleman was severely wounded by a shell burst which threw him into an exposed area. Staff Sergeant Schena ran about ten yards to the man and dragged him to a shallow hole. He administered first aid and then ran onto the drome to obtain an abandoned litter to expedite evacuation. He placed the man on it and dug the shallow hole deeper for better protection of the casualty while artillery shells burst within ten and fifteen yards of him."

We're proud of a family that produces such heroes because the kid he saved might have been mine.

Flux manufactured at BMI was used to remove impurities in magnesium by bodily force, despite the fact that metal recovered from our electrolysis cells came out 99.9 percent pure.

TECHNICAL SERVICE



Reporter Harriet King

Remember when we were scattered all over the project--some in the Ad Bldg., some in the temporary lab. (the old shack is torn down now)--it was hot as blazes in the summer--cold breezes whistling through the cracks in winter--three shifts--crowded working conditions. Some in the research laboratory up the long stairway at the top of Liquefaction No. 2--hot there, too. The rest scattered in the Proof Foundry, Sample Prep, and Doc Parsons' chlorination shack. Remember riding around the project in those great, big trucks. In the Fall of '43 we moved into our new lab--we were proud--we all got acquainted--Tech. Service parties--transportation (fighting words) bus--no bus; bus--no bus--new faces--old employees terminating--forms--1-As and 2-Bs. Remember finally getting Metallurgical Control's much awaited new equipment neck and neck with the shutdown order--hurrying to get it to work while there is still time.

Can we ever forget the canteen--Anderson's coffee--donuts--coffee made on a hot plate--the lovely aroma of chlorine (can't we take a small bottle along lest we get homesick)--a few pungent scents permeating the lab--(products of our own experiments)--spontaneous gags--check pools--(some people have all the luck)--the paging system--rush analyses--the yellow green smoke from the carbon resistor block coking furnace.

We have worked hard and we have had fun doing it. We regret the breaking up of a grand group. We regret that we shall no longer be working under the able guidance of Harley C. Lee, our superintendent and of Dan Finlayson, Pete Fitchett, Charley Mahoney and Ed Pearson, our division superintendents. So long and best of luck.

"BECAUSE OF THE WAR..."

With the curtailment pinchers closing in, many departments are getting chummy through the process of consolidation.

Personnel, including all units of Employee Service with Group Insurance and Selective Service, have been placed under the supervision of Chief Timekeeper Art Rutherford, who dons the official cap of Personnel Director-Timekeeper--Insurance Agent, etc.

Those sections, along with Cashier and Paymaster have been moved back to the Administration Building.

Soon to follow to the Ad Building are sections of Plant Protection, including Key Control, Identification, Personnel Records and others.

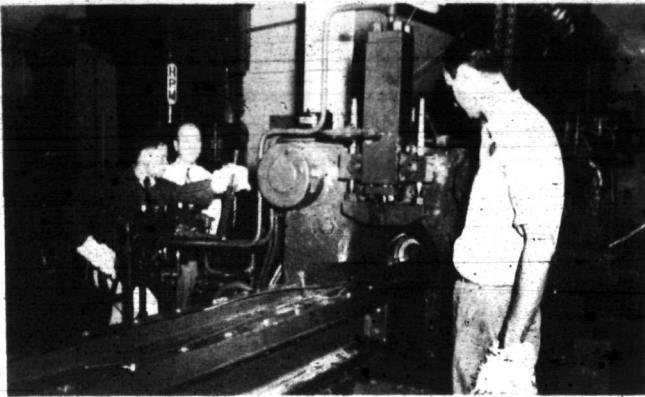
Most of us will be interested in knowing that Terminations and Hires are now located in Room C-19. (Line forms on the left).

Magnesium was first discovered by a man named Davey back in 1808. It was first separated into pure metal 88 years later.



This rare photo shows the silent people behind the scenes who have actually been responsible for publishing your BASIC BOMBARDIER. Their names never appear in print but theirs has been the responsibility of perfecting the conglomerate mass of script, hieroglyphics, literature, photos and "stuff" that come pouring into editorial and print shop and photo lab offices. With all due credit to the distinguished reporters and others whose pictures and writings fill this last issue of your BOMBARDIER, these people, above, are the babies who did the work. Do you know 'em? Left to right, meet Al Weinberg, Assistant editor, W. Park Burritt, Jr., Plant Protection Photo Lab supervisor, Rachel Bailey, circulation manager, Cleora Best, bindery and distribution, Helene Newkirk, vari-typer operator and layout, Alberta Winesky, folding machine operator, Wilbur "Willie" Loe, offset plate developer and photo technician, Earl McNaughton, Plant Protection photographer, and "Bud" Herrmann, pressman.

BASIC BOMBARDIER



This Watson-Stillman Hydraulic Extrusion Press is actually forcing BMI made magnesium through a die with a million pounds of pressure. Out of the maw of this huge unit come seven strands of wire, each of a different diameter. Charged like a gun, metal is placed in the breach, followed by a metal disc, or block, and rammed by hydraulic pressure at the rate of four feet per minute. Dies through which metal is forced may be of any desired shape. Metallurgical Engineer John B. English, Supervisor of fabrication development, operating the giant machine, has had a leading part in fabrication research, working under supervision of Chief Metallurgist C. H. Mahoney and Metallurgical Engineer Al Tarr, supervisor, Metallurgical laboratory. Graduated from Colorado School of Mines, English, served with the 2nd U. S. Engineers before coming to BMI more than two years ago.

BILL SCHERER WRITES LETTER

Dear Guernsey and Al:

Well, how do you say it? This Swan Song--this last contribution to the "Bombardier", I mean. How do you say "good-bye" after more than two years here?

You remember that we were a BIG IDEA, fighting time, shortages, priorities; that you personally were pretty small potatoes compared with the Big Job. So you shut your trap and went to work.

You remember all the grand people who are and were here. You like to feel you've made a lot of friends, hope you've made no enemies. You hope your courses will cross many times again; you feel that deeply

That's what you take away, don't you? And the realization that you and many like you hadn't much to offer the old Rock Pile, starting out, but you'd done mighty well in spite of that? You'd sooner stay than leave too, wouldn't you, if you thought there was a ghost of a chance that SHE might come to life again; that the Units might once more turn out more; metal than anyone ever dreamed they would?

Yes, -- you'd just better say, "so long", and let it go at that. It simply isn't any good, sitting here and looking down the line from Number Ten

Pip - pip!
(Signed:) BILL SCHERER



Chief Metallurgist C. H. Mahoney is discussing the merits of freshly extruded magnesium welding rods pressed through the huge one million pound extrusion machine beside them with Metallurgical Engineer John B. English, expert fabrication engineer and Al L. Tarr, Metallurgical Engineer in charge of Metallurgical Lab. English, center, witnessed the manufacture of the first incendiary bomb casing to be made from BMI magnesium and has contributed much toward the commercial future of the miracle metal.

CARVER PARK

Carver Park Sunday School sponsored a party for the children of Carver Tuesday evening. Mesdames Winters, Jefferson, Coleman and Lofton and Miss Lillian Iotha Johnson contributed to its success.

We are proud of our Sunday School as it shows a forward step on cooperation between various denominations. The superintendent is Methodist, one teacher is Catholic and the others are Baptist.

Sgt. Thomas S. Blanton and wife are newcomers to Carver Park. The Wyley Lewis, Dave Ellis, Harry Parker, Alex Robinson families have moved to San Bernardino, California.

The residents of Carver Park made a fine contribution to the Community and War Chest drive through the efforts of Mrs. Eliza Winters.

Mr. and Mrs. Collie Adams have

returned to Fordyce, Arkansas for a visit.

Two new businesses are expected to open in a few days at Carver Park.

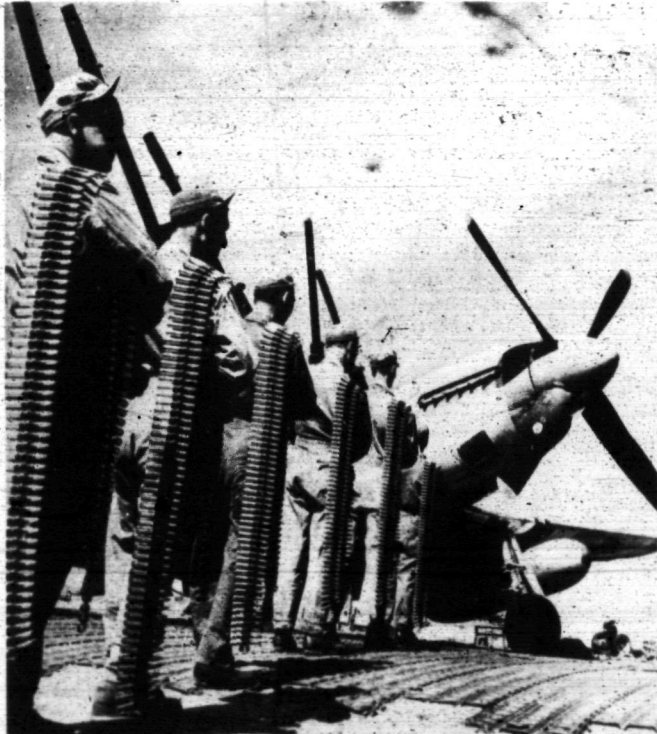
Mrs. Wolfe ward of 3-B Carver street has returned from the hospital with her son and heir Willie Clyde.

Mrs. Maude Weems, Nursery Teacher, has planned a party for the children of the nursery school. This will mark the close of the school as there are not enough tots to keep the youngsters' school going.

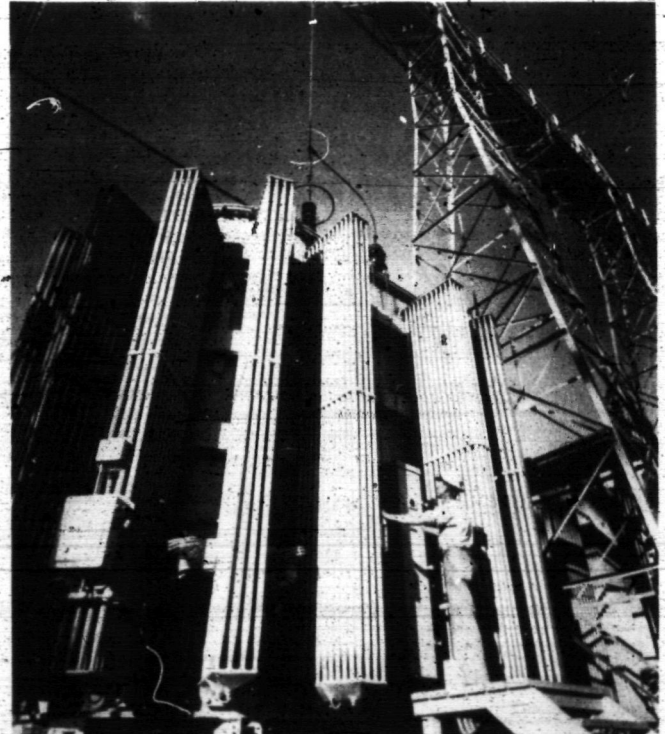
Mrs. Geraldine Hicks is still busy with her houseguests.

Mr. Osborne Franklin, son of Mr. and Mrs. Charles Franklin, was inducted into the army recently and is now stationed in Utah.

Well, folks, from now on we'll have to keep our gossip to ourselves or else go visiting as this is the last issue of the BOMBARDIER. We've certainly enjoyed it! So long!



Fire power of the P-51 Mustang Fighter. These are the six .50 calibre machine guns in the new U.S. Army Air Force North American P-51 Mustang Fighters. The cartridge belts being carried represent the amount used by only ONE gun on a flight. 36 men would be required to carry the total amount of ammunition required by the six guns. Every fifth cartridge is a tracer, magnesium packed, proving that BMI has had a potent part in actual combat. (Official Photo - AC/AS Intelligence Photographic Division U. S. Army Air Forces)



Ten huge 25,000 KVA Transformers such as the one pictured here were delivered to the big job at BMI. One was held for reserve. Installed originally by the Fritz Ziebarth company, they hold 14,000 gallons of transit oil and weigh 140 tons. Bridge-type tower and cat-walk were later changed to meet the local problem. Other improvements increased the efficiency of these giant transformers through which tremendous electrical energy from Boulder Dam hydroelectric power house flowed. (Photo by Hawthorne)