secutions istead of ringfield

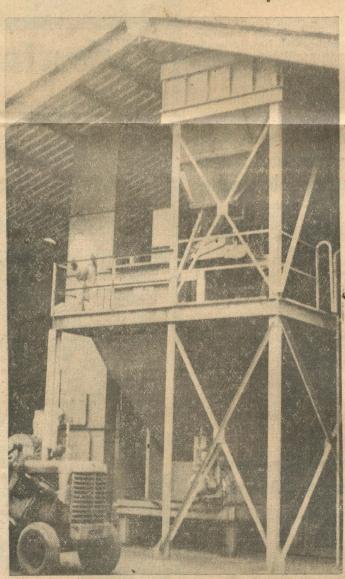
The Springfie

Fifty-Sixth Year-No. 70

Entered as Second Class Matter at the Springfield (Oregon) Post Office

Springfield, Oregon, Thursday,

National Metallurgical Corp. Turns on New Furnace Marking End Of Half-Million Dollar Expansion and Construction Project Here



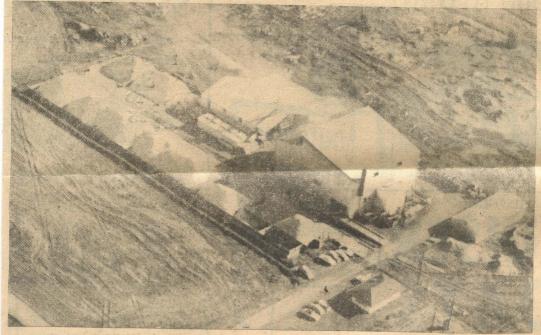


New furnace, three stories high.



Turning on the electricity.

Old furnace glows like this.



Aerial view shows newly-enlarged National Metallurgical co. plant. At upper right is new machine shop. Moving to the left, one sees the old building, which now houses two

large furnaces. Adjoining to the left is a new mixing and storage building. Piles of quartz, raw material for silicon production, may be seen.

This week marked the climax | tricity to get the furnace hot of more than a year of actual construction and more than two vears of planning for a half nillion dollar enlargement of National he Metallurgical company's Springfield silicon

A large new 3,000-KW furnace was turned on Tuesday and today is still being heated up preparatory to receiving its irst "charge" of a mixture of uartz, coke and hog fuel from which comes silicon. The 24nch-thick refractories around he furnace must be brought lowly to the sizzling temperaure required for the process, ence the slow heating period. Vinton Platte, vice-president nd manager of the company. enough to charge. It was expected the first charge would go into the furnace late today.

The improvements will more than double the output of silicon, Platte said.

The original furnace is 2,700-KW capacity with a 3,000-KWA transformer. The new 3,000-KW furnace has a 4,000-KWA transformer. The new furnace has Whiting hydroarc regulator, of two furnaces in the United States using such a system (the other is in a General Electric plant at Schenectady, N.Y.), regulated by current take-off from bus bars. The new mixer system was designed by Alvin Nelson, secstimated it would require retary-treasurer and assistant ,000 kilowatt hours of elec- manager. Each ingredient is

weighed, mixed and conveyed to storage, ready for the furnace crews.

The silicon will go, as does the present output, to National Metallurgical's three parent companies a Long Beach, Calif., Cleveland, Ohio, and Chicago,

Twelve people have been added to the permanent pay-

In the accompanying pictures, the new furnace is shown at top right, nearly reaching from foundation to ceiling of a building 40 feet high. At top left is the mixer plant, 29 feet high. Platte turned on the first electricity, with Nelson watching. The glow of the old furnace, to be duplicated by the new one when it is charged and producing silicon, is blinding. Oregonian Dec 22, 1959

Springfield Plant Sold

Apex Smelting Co., which operates National Metallurgical Corp. of Sringfield, Ore., has been purchased by Aluminum Ltd., big Canadian aluminum producer, according to a joint announcement made in New York by Nathanael V. Davis, president of Aluminium Ltd., and William A. Singer, chairman of the board of Apex.

The Associated Press said that the purchase was made for a p r o x i m at e l y 340,000 shares of Aluminium stock. The stock was quoted Monday at 35 on the New York Stock Exchange which would make the purchase price in the neighborhood of 11.9 million dollars.

Stock Sharing Set

The transfer, the news service said, contemplates distribution of 1.6 shares of Aluminium for each share of Apex.

nium for each share of Apex.

Aluminium Ltd. has headquarters in Montreal and is
known as builder of the famed
Kitimat project in British Columbia. It is one of the major
suppliers of primary aluminum ingot to American fabricating companies.

Apex, a producer of aluminum foundry alloys has plants in Chicago, Cleveland and Los Angeles. The National Metallurgical plant at Springfield is a producer of silicon.

NATIONAL METALLURGICAL CORPORATION

P. O. BOX 656

CHICAGO OFFICE 2537 W. TAYLOR ST., ZONE 12

SPRINGFIELD, OREGON

PLANT LOCATION

SPRINGFIELD, OREGON

PHONE RI 6-3233

NEW YORK OFFICE

PLANT NATIONAL METALLURGICAL CORPORATION LOCATION Springfield, Oregon PERSONNEL Approx. 30 employees Silicon (98.8%+) PRODUCT PROCESS Electro-thermal reduction of quartz. USES a) Making aluminum die cast alloys b) De-oxidizer in steel Transistors (after ultrapurification) d) Waxes, oils, resins, silicones

NEXT YOLY
NEWS FURNACE D'ENSTING
How By 1- 4000 KUA 40 TON
How B, G, TON CORP
[(085 7 \$500,000 STATION)
chapter secretary.
Por an official count, this ballot must be returned to your
Peggy Fepper, Portland Chapter #17
Willy Burgarende Cuyler, Mercury Chapter #39
the largest number of votes in all chapters in the District will be declared elected District Director. Please vote for one nomines
Lantor two years (1984-61), and list of below The nomine 1201/10 - Since
Nominees for the position of District Direct to Serie OCCE
For District Director Election for District No. 2 C1192
For District Director Election for District No. 1
EX DONS-ON OFFICIAL BALLOT
CONTRACT.
FIRM Danson STATE ENFRONTESS ASSOCIATION SHELLES
1du Nem Pon. Co.

NON-METALLIC CONSUMERS

Use Silicon	Product Quartz								
Consumer National Metallurgical Corp. Springfield,									
Consumption Pre-war	Present Next 12 Mo.								
Price paid FOB plant \$8.50/ton plant (June 1960)									
Present source of supply Crystal Peak near Reno, Northern Calif.									
Specifications Required or Desired									
Maximum price									
Delivery schedule									
Alumina	•05%								
Iron	.12%								
CaO	tr.								
MgO	tre								
Mn	.05 max.								
Sion	. 99.6% MIN								
The state of the s									
Miscellaneous									
postoregue en									
A state of the control of the contro									

JUNE 17, 1960. AIME

NATIONAL METALLURGICAL COMPANY, Springfield, Oregon

Subsidiary of Apex Smelting and Refining, Aluminum Alloy melters.

- 1. Crystal Peak quartz, shipped in from Northern California, near Reno, 500 punds. 99.6% SiO2. So pure that it often contains large quartz crystals.
- 2. Wood chips 850 pounds.
- 3. Petroleum coke, 150 pounds.

The furnace revolves slowly around the carbons to prevent cratering.

About 13,500 tons of quartz is kept on hand at the present. Impurities in the quatz include, .05 Alumina, .12 iron, Ca oxide trace, Mg oxide trace, Mn .05 Max.

One of the two furnaces is down now so the staff is reduced from 34 to 21 employees. The second furnace should be overhauled and back in operation late in the summer.

The final product, SILICON is 95.5 % pure. Most of the impurities comme from the wood ash from the chips.

A new conveyor belt system and mixing plant has just been installed and should impove mixing and speed up operations.

Product has been sold entirely to APEX SMELTING, but now about half is being peddled on the open market. Tons per month ???

tem

5102 GO 2800KL @ ,44 = 240 "

S1 = 28 = 47.%

S, 98%: \$380 STON

250 7/10 S,? 2800 Ku x24 x,4 = NAT. METALLURGICAL

6,750 Toiss Orz/4n = 3100 Ports Suconff 3100×90%= 2800 × 380/TON = \$1,060,000 /R

AMARCEMENT 1 - COSTS

LABOR 34 MEN X 20/PAYX 250 DAYS 170,000 Pongy 5800 KN @ .009 x29 x 350 Days = 194,000 QUARTZ 6,750 TONS x 8.50/1001 57,375 406,378 = 115,000 Woon CHIPS 11,500 TOUS X 10.00/100 .40,000) PET COKE 2,000 TOUS * \$ 20.00 EST

INTEREST & AMORTIZATURIN (15 YES) = 86,600

TAXES - MSURANCE ETC

COLNTY TAXES 10,000 STATE CONDA TAX 5,000 FED MEONE TAX 157,500 -157,500 25,000 HSCRAISEE - SIAC-FICATO,000

CEPAIRS & Idise (ISSTINATIO) -100,000 DEPRECIATION - (10 YKS)

TOTAL COSTS 980,475 TOTAL INCOINE \$1.060,000 LESS \$980,475 = 79,500 = 7.5% PROFIT

* HOLHAN FUEL QUOTED (6-30-60) BARK-FREE CAIDS \$12.00/TON BE-5 1776 (HR NOWNAW) REGULAR FIR CHIPS \$ 9.00/TON 1.50/1011 NOG FUEL

Internal Revenue Service BE-4 8211 =x 435 MR (KWEESTAD)

PUBSTAD

- 1. What taxes do corporations pay?
- 2. What is the tax rate.
- 3. Is there a sliding scale based on amount of profit or is the tax tied to a profit-investment ratio?
- 4. Is it possible to get federal taxes collected from Oregon mining and metallurgical firms by categories?

GOVERNING BOARD

MASON L. BINGHAM, CHAIRMAN, PORTLAND

LES R. CHILD, GRANTS PASS

NADIE STRAYER, BAKER



FIELD OFFICES:

2033 FIRST STREET

BAKER

239 SOUTHEAST "H" STREET

GRANTS PASS

STATE OF OREGON

DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1069 STATE OFFICE BUILDING

PORTLAND 1

January 5, 1959

The annual round-up of information on Oregon's mineral and metallurgical industry will appear in the January issue of The Ore.-Bin. A complimentary copy will be mailed to you immediately it is printed.

Before we go to press, however, we need some first-hand information on your activities in 1958. News about improvements in your operation, changes in ownership, new markets or products is particularly welcome. If you wish you can write the information on the bottom of this sheet.

A stamped self-addressed envelope is enclosed. Since we go to press about January 15 we would appreciate hearing from you promptly.

Sincerely yours,

Ralph S. Mason Mining Engineer

RSM: 1k Encl.

ı	FORM 1120	U.S. CORPORAT				
U.	S. Treasury Department ternal Revenue Service	or Other Taxable Year Beginning	(PLEASE TYPE OF	_, 1959, Ending PRINT)	, 19_	
	neck if taxpayer is a sole	Name //A 5.		0.5, 25, 0.00		
ne	rship electing under ction 1361 to be taxed as					
ac	corporation. this a consolidated re-					
	n? Yes No (See Instruction I)	City or town, postal zone number,	CONTRACTOR OF THE PARTY OF THE			
C. Ar						
CO	mpany? Yes No (See Instruction H)					
D. To	tal assets from line 13 h. L (See instruction O)	\$	E. County in which	located	If "yes," place incorpo	
	1. Gross Receipts		Less: Returns an	d allowances		1,146,000
	2. Tiess: Cost of a	roods sold (Schedule A) and/or	r operations (Attac	h Schedule)		406 375
6.3	3. Gross Profit					739,625
INCOME	4. Dividends (Sche	edule C)				
0	5. Interest on obli	igations of the United States, -1-41—(1) U.S. savings and	etc. issued:	etc. issued: Gross Amount of Interest		
2	ourned in a	arrange of the principal amount	t of \$5,000 and			
		tions of a U.S. instrumentality				
S	instrumento	er 3-1-41, by the U.S. or any cality thereof	agency or any			
8	6. Other interest.		L			
CH	7. (a) Rents		(b) Roy	ralties		
		es) (from separate Schedule D				
	9. Other income ((Attach schedule)				739.625
	10. TOTAL	income, lines 3 to 9, inclusive	1			15 000
	11. Compensation	of officers (Schedule E) vages (not deducted elsewhere				170,000
	12. Salaries and w	rages (not deducted elsewhere	s or capital expend	litures)		20,000
	13. Repairs (Do not include cost of improvements or capital expenditures). 14. (a) Bad debts (Sch. F)					
	15. (a) Taxes (Sch. B)					45,000
	16. Contributions of	or gifts paid (Attach schedule))			
W	T I the state of t					
Z	18. (a) Amortization (Attach sch.) 6 Depletion (b) Depletion					66,600
UCTIONS	19. Depreciation (Schedule G)					100,000
5						
Þ	21. Amounts contri		1 1 180 1	1.		
8	(a) Pension, profit-sharing, stock bonus, annuity plans (Attach sch.)					***************************************
DE	(b) Other employee benefit plans (Attach sch.) 22. Other deductions (Attach schedule)					
	23. TOTAL deductions in lines 11 to 22, inclusive					416,600
	24. Taxable incom	ne before net operating loss de	eduction and speci	al deductions (li	ne 10 less line 23)	323,025
	25. Less: Net oper	rating loss deduction	· · · · · · · · · · · · · · · · · · ·			
	26. Taxable incom	ne before special deductions				
	27. Special deduct	tions (Schedule I)				222 026
	28. Line 26 less lin	ne 27	Ct-tion Cabo	dula 2000 2)		323028
		income tax (from line 9, Tax		dule, page 3)		
		ounts paid on 1959 income to with application for extension		file		
M		and credits on 1959 Declarat				
H	31. If tax (line 29)) is larger than payments (line	e 30), the balance	is TAX DUE. E	nter balance here->	
	32. If payments (lin	ine 30) are larger than tax (lin	e 29) H	Inter the OVER	PAYMENT here->	
		of line 32 you want: Credited	on 1960 estimated	tax	Refunded	
byr	SIGNATURE AND VERIFICATION (See Instruction E) I declare under the penalties of perjury that this return (including any accompanying schedules and statements) has been examined me and to the best of my knowledge and belief is a true, correct, and complete return. If the return is prepared by a person other than the spayer, his declaration is based on all the information relating to the matters required to be reported in the return of which he has knowledge.					
taxp	payer, his declaration	. is based on all the information	relating to the ma	ners required to	so reported in the retu	or minorial and anomicago
CC	DRPORATE SEAL	(Date)	(Signature of offi	cer)		(Title)
	(Date)	(Individual or firm sign	acture)		(Addres	s)
-	(Date)	(marviadar or mm sign				16-75410-1

A	Schedule H.—SUMMARY OF AMORTIZATION AND DEPRECIATION SCHEDULES							
	Part A.—DEPRECIATION Part B.—AMORTIZATION							
1.	Straight line method	8. 1	mergency facilit	ties				
2.	Declining balance method	The state of the state of	The second secon	cilities				
	Sum of the years-digits method			rimental expenditures				
	Based on units of production			development expenditures.				
	Addl. 1st year (Sec. 179)			xpenditures				
6.	Other methods			rade name expenditures				
	Total depreciation claimed	and the same of th		n claimed				
		SPECI.	AL DEDUCTIO	ONS				
1.	Deduction for partially tax-exempt interest (See Instruction 5))						
	Dividends-received deductions:							
	(a) 85 percent of column 2, Schedule C							
	(b) 62.115 percent of column 3, Schedule C		The second secon					
	(c) 85 percent of dividends received from certain foreign of	corpora	tions					
3.	Total dividends-received deductions (sum of lines 2 (a), (b), of line 24, page 1 over the sum of lines 1 and 5). (See In	and (c)	but not to excee	d 85 percent of the excess				
	corporation is a small business investment company.)	nstructi	ons in case of n	et operating loss or it the				
A	Deduction for dividends paid on certain preferred stock of public							
"Aa	loss)							
5.	Deduction for Western Hemisphere trade corporations (See In	nstruction	ons in case of ne	et operating loss)				
	Total special deductions (enter here and on line 27, page 1).							
X	TAX COMPUTATION FOR CALENDAR YEAR 1959 A For other taxable years attach Sch	ND Ta	XABLE YEAR 1120 FY (See to	RS ENDING ON OR BEF ex computation instruction	ORE JUNE 30, 1960			
1.	(a) Line 28, page 1(b) plus line 1, Sche	edule I	特别是国际	Enter total here	323 025			
	If amount of line 1 is:							
	(a) Not over \$25,000—Enter 30 percent of line 1 (32 percent	t if a ac	neolidated return	n)				
	(b) Over \$25,000—Enter 30 percent of fine 1 (32 percent (b) Over \$25,000—	i ii d cc	insolitation return	4				
	Enter 52 percent of line 1 (54 percent if a consolidat	ted retu	rn)	162 000				
	Subtract \$5,500, and enter difference	ica ron	,	5,500.00	157,500			
	Subtract 40,000, and enter amerence							
2	Adjustment for partially tax-exempt interest. Enter 30 percent	of line 1	(b) but not in ex	cess of 30 percent of line 1				
	Normal tax and surtax (line 2 less line 3)				157,500			
7.	Normal tax and surfax (time 2 less time by							
5.	Income tax (line 4, or line 20 of separate Schedule D)							
6.	Credit allowed a domestic corporation for income taxes paid to United States possession (submit Form 1118)	o a for	eigh country or					
7.	Balance of income tax (line 5 less line 6)							
8.	Tax under section 541 of the Internal Revenue Code (from Sci	chedule	1120 PH)					
9.	Total income tax (line 7 plus line 8). Enter here and on lin							
	ADDITIONAL II		MATION REQU	UIRED				
G.	Employer Identification No.			"Yes," state the approxima				
H.	Date incorporated			ar amount billed during the ll such contracts and/or s				
I.	Did the corporation at any time during the taxable year	own	(See Instr	ruction G-(4))poration at any time durin	a the tarable year own			
	directly or indirectly 50 percent or more of the voting stoo		directly o	or indirectly any stock of a	foreign corpo-			
	a domestic corporation? Yes	No	ration?		Yes No			
	Did any corporation, individual, partnership, trust, or associated at any time during taxable year own directly or indirectly	ly 50	If answer is	"Yes," attach statement as	required by Inst. K.			
	percent or more of the corporation's voting stock?. Yes] No		nt of income (or deficit) from				
	If either answer is "Yes," attach separate schedule showing: (1) name and address;		(a) line 3	32, page 3, Form 1120, 1956.				
	(2) percentage of stock owned;			32, page 3, Form 1120, 1957.				
	(3) date stock was acquired; and (4) the District Director's office in which the income tax re	eturn		32, page 3, Form 1120, 1958				
	of such corporation, individual, partnership, trust	t, or		on is a cooperative associat				
	association for the last taxable year was filed.			rmers' marketing or a farm re association,	ers' purchasing coopera-			
J.	Did the corporation make a return of information on Forms 1 and 1099 for the calendar year 1959 in connection with:	1096						
	Taxable dividends Yes] No		onsumers' cooperative assoc				
	Other payments Yes] No	(3) 🗆 ot	her cooperative association.				
	(See Instruction G-(1).)			oup code No. and princip				
K.	Did the corporation, during the taxable year, have any contr or subcontracts subject to the Renegotiation Act of	racts		nstructions)				
	1951 Yes	No						
ESIST.					16-75410-1			