

R. H. SERAPHIM ENGINEERING LIMITED  
GEOLOGICAL ENGINEERING

# 470

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82K/6E

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316 - 470 GRANVILLE STREET  
VANCOUVER 2, B.C.

REPORT ON  
JOHN 1 TO 10 CLAIMS  
MT. JOHNSON  
SLOCAN M. D.  
NTS 82K6 - EAST HALF

for

SPROATT SILVER MINES LTD.  
333 - 885 Dunsmuir Street  
Vancouver, B.C.

by

R. H. Seraphim, Ph.D., P. Eng.

May 20, 1975

21. Give the aggregate direct remuneration, including amounts for services rendered, paid or payable by the issuer and its subsidiaries during the past year to the insiders of the issuer.	See Schedule attached
22. Give brief particulars of all options to purchase securities (other than such as are granted or proposed to be granted to shareholders as such on a <i>pro rata</i> basis) outstanding or proposed to be given by the issuer and its subsidiaries to any person or company, naming each such person or company and showing separately all such options outstanding or proposed to be given to the insiders of the issuer or its subsidiaries.	See Schedule attached
23. State the prices at which shares of the issuer have been issued for cash during the past year. If any shares have been issued for services, state the nature and value of the services and give the name and address of the person or company who received such shares. State the number of shares issued at each price.	Nil
24. Give the dates of and parties to and the general nature of every material contract entered into by the issuer or any subsidiary within the preceding two years which is still in effect and is not disclosed in the foregoing.	Nil
25. Give particulars of any other material facts relating to the shares proposed to be offered and not disclosed pursuant to the foregoing items.	See Schedule attached
26. If assets include investments in the shares or other securities of other companies, give an itemized statement thereof showing cost of book value and present market value.	See Schedule attached

27.

CERTIFICATE OF THE COMPANY

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts.

Dated May 26, 1975

SPROATT SILVER MINES LTD.

*John E. Millette (D.R.)*  
*TO: A. Millette*  
*Carl A. Toporowski* [Corporate Seal.]  
 by his attorney in fact  
*D. C. Millette*

AGENT AND SELLING SHAREHOLDERS

CERTIFICATE OF ~~AGENT AND SELLING SHAREHOLDERS~~

To the best of our knowledge, information and belief the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts.

Dated June 2, 1975

AGENT: MIDLAND DOHERTY LIMITED

Per: *[Signature]*

SELLING SHAREHOLDERS:

*Andrew Harmon* PER HIS ATTORNEY IN FACT  
*Andrew Harmon*  
*Magnus Bratlien* PER HIS ATTORNEY IN FACT  
*Magnus Bratlien*  
*Thomas H. Cross* PER HIS ATTORNEY IN FACT  
*Thomas H. Cross*

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<u>MAPS</u>	
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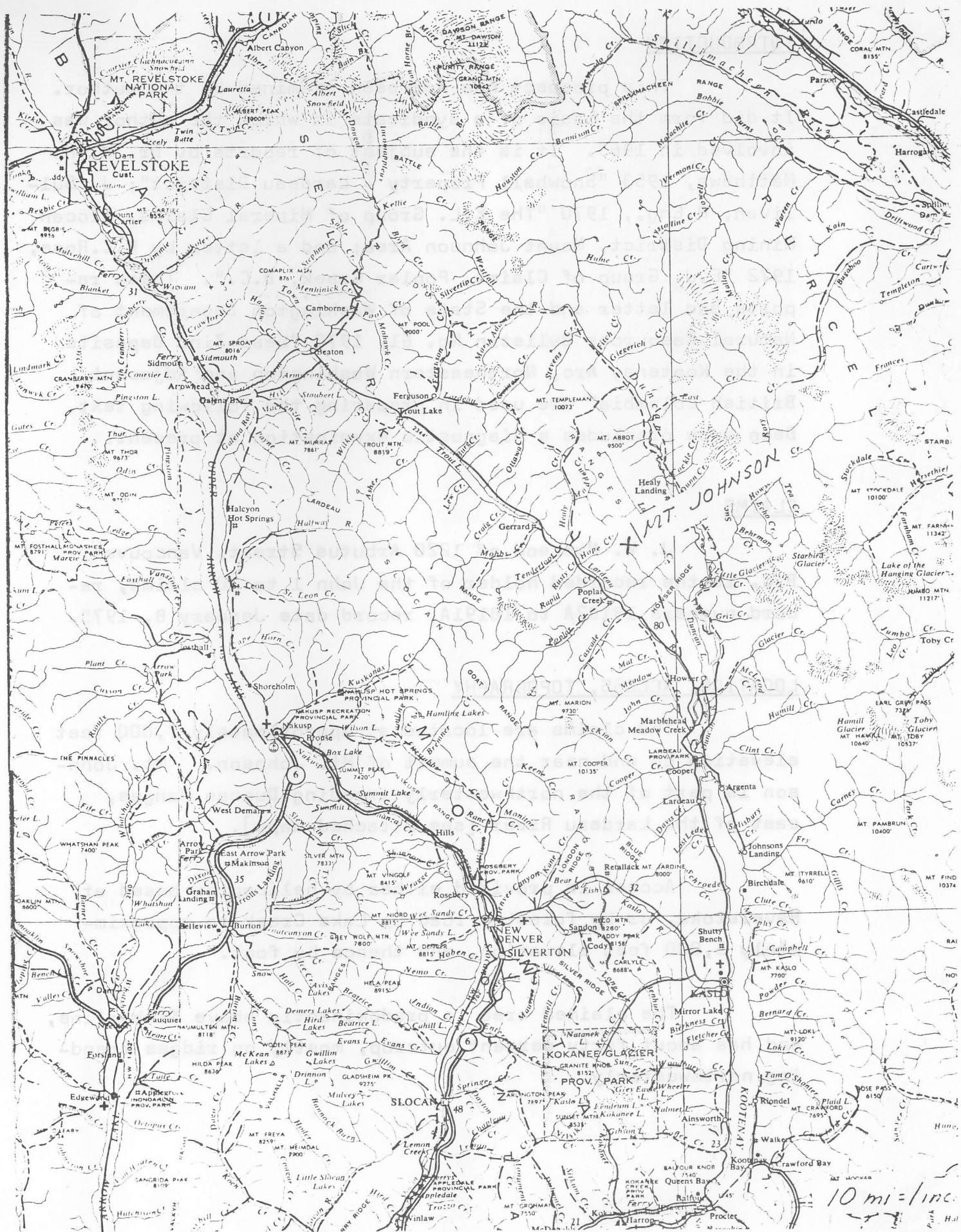
SUMMARY, CONCLUSIONS, RECOMMENDATIONS

The John Claims cover a dozen or more showings or groups of showings of zinc-lead-silver mineralization. The best mineralization locally is ore-grade and is in limestone and altered limestone correlated with the Badshot stratum. This stratum or its equivalent, the Reeves, hosts the Duncan Lake, Bluebell, Jersey, Reeves MacDonald, Van Stone, and other important deposits or mines in the Kootenay Arc.

Further geological work is recommended to determine the structure of the Badshot limestone throughout the claim area. Geochemical survey should then be completed over the areas in which the Badshot is suspected to be in sub-outcrop. Geochemical anomalies, if located, would be explored by trenching.

COSTS:

	<u>Stage 1</u>	
Geological Survey	\$3,000	
Geochemical Survey	3,000	
Camp Supplies and Equipment	2,000	
Assays, Engineering, Supervision	<u>2,000</u>	\$ 10,000
	<u>Stage 2</u>	
Trenching	\$8,000	
Assays, Sampling, Supervision	<u>2,000</u>	10 000
		<hr/>
	Total	<u>\$ 20,000</u>



REVELSTOKE

REVELSTOKE NATIONAL PARK

MT. REVELSTOKE

MT. SPROAT

MT. THOR

MT. ODIN

MT. FOSTHALL

MT. MARSH

MT. COOPER

MT. VINGOLF

MT. NIRO

MT. FREYA

MT. HILDA

MT. SANDOR

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MT. JOHNSON

NEW DENVER  
SILVERTON

SLOVAN

10 mi = 1 inc

INTRODUCTION

This prospect has not been examined by the author. It did form the basis of a syndicate in which the author was involved in 1963. It is the subject of reports by Dr. W. H. Matthews, 1953 "Snowball Property - Lardeau District"; J. Sullivan, P.Eng., 1970 "The E.L. Group of Mineral Claims, Slocan Mining District, Mount Johnson Area; and a letter by K.C. Rose, 1972 "E.J. Group of Claims, Poplar Creek, B.C.". These reports and letter and the State of Washington Department of Natural Resources Bulletin No. 61, 1970 "Lead-Zinc Deposits in the Kootenay Arc, Northeastern Washington and Adjacent British Columbia" are used in preparing the following text. Deep snow precludes a diagnostic examination at present.

CLAIMS

J. W. MacLeod of 1220 Arbutus Street, Vancouver, B.C. is the recorded holder of the John 1 to 10 claims, record numbers 18182A to 18191A, record date January 8, 1975.

LOCATION, ACCESS, TOPOGRAPHY

The claims are located at approximately 7,000 feet elevation on and near the summit of Mt. Johnson. Mt. Johnson is part of the northwesterly trending Duncan Ranges, east of the Lardeau River [see attached maps].

Access is provided either by helicopter based at Revelstoke, or by forestry road up Lake Creek to approximately 5,000 feet elevation, and thence by foot.

The claimed area is predominantly above timberline, and has about forty percent outcrop, mostly on ridges trending northwesterly.





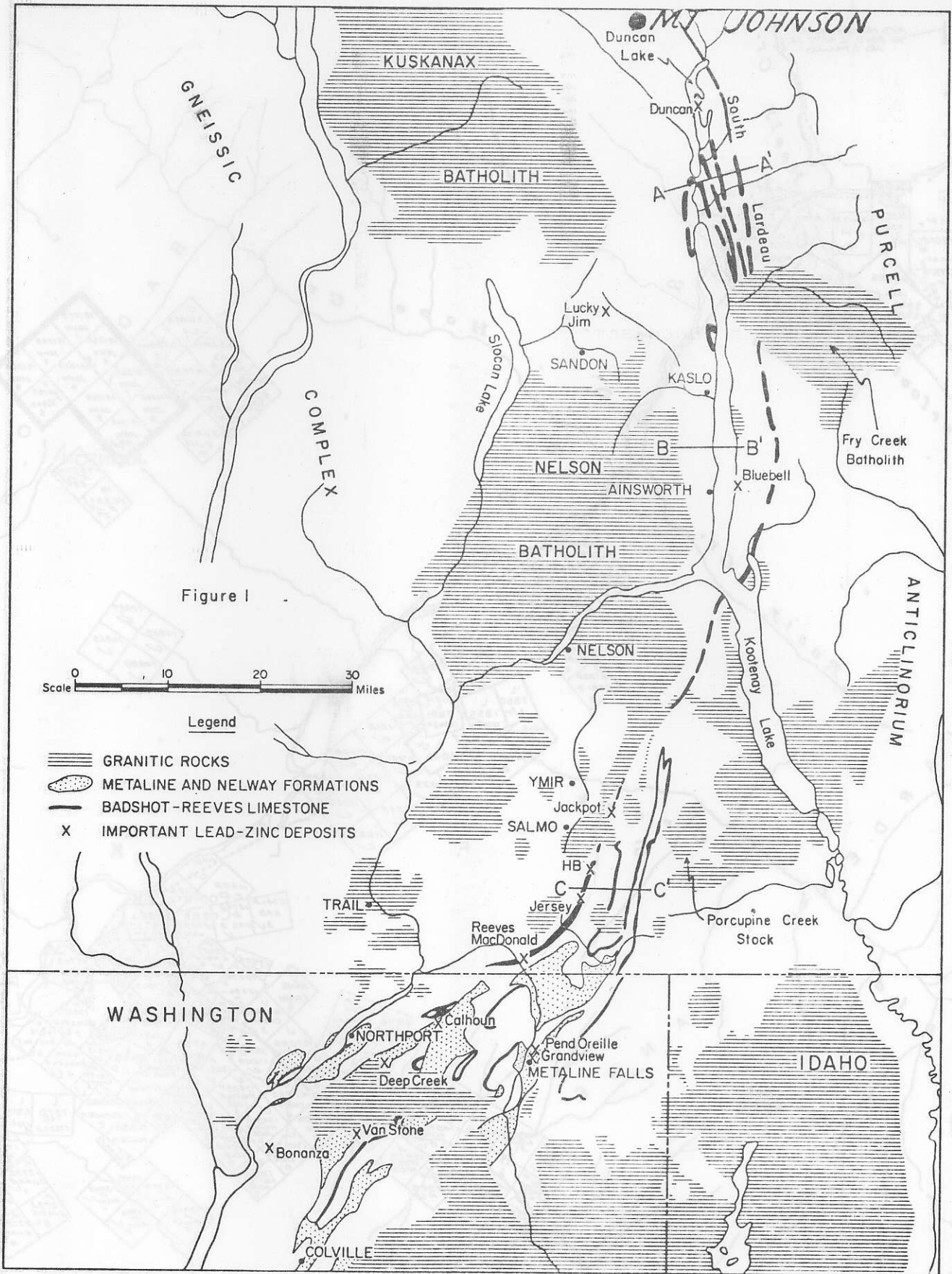


FIGURE IV-1.—Geological map of the southern part of the Kootenay Arc.



## HISTORY

The B.C. Department of Mines Bulletin for 1914 gives a brief description of mineral deposits on Mt. Johnson. Dr. W. H. Matthews mapped the claimed area for New Jersey Zinc Exploration in 1953. Several brief examinations which included some sampling of surficial exposures constitute the work completed since Matthew's mapping.

## GEOLOGY

The district is within the 'Kootenay Arc'. "The Kootenay Arc is a curving belt of complexly deformed sedimentary, volcanic, and metamorphic rocks trending northeast for 100 miles across Washington into British Columbia, north to northern Kootenay Lake, and northwest to near Revelstoke." It contains numerous zinc-lead-silver deposits which are shown on the included map. The most productive stratum is a band of limestone named the Badshot in the northern part of the arc, and the Reeves in the southern part.

Matthews' mapping shows that a band of limestone, which is undoubtedly the Badshot, outcrops on the John claims. The band is complexly folded into a series of gently plunging anticlines and synclines striking approximately north 45° west.

## MINERALIZATION

Several types of zinc-lead-silver mineralization are exposed in outcrops and hand trenches.

- [1] Silicified limestone and/or schist locally contain sphalerite, galena, and tetrahedrite. Samples taken

by Matthews and Sullivan from the '95' showings are compiled in a table below.

- [2] Bedded, unaltered limestone contains sphalerite and galena. The assay results of samples reported by Sullivan from No. 6 showings are compiled below.
- [3] Brown weathering ferroan-dolomite contains minor amounts of finely disseminated calcite, veinlets of quartz, and local pockety or banded disseminations of galena and sphalerite. The dolomite occurs in lenses in limestone close to or in contact with green schist, or in the M.S. and Ph.D. showings sampled by Matthews and the No. 8 showings reported by Sullivan. [see table below].
- [4] Quartz lenses a few feet thick and a few tens of feet long contain sparse galena and pyrite, but were not considered important enough to be sampled.

Showing	Width [ft]	Zinc %	Lead %	Silver oz.
95	8	8.2	4.2	0.35
"	2.2	9.7	7.7	0.70
"	3.0	8.5	11.4	-
"	4.0	1.9	1.1	Tr.
"	7.0	0.3	Tr.	"
"	1.5	0.1	0.1	"
"	20.0	0.5	0.9	"
No. 6	4.7	6.0	15.5	1.3
"	0.5	3.4	1.6	Tr.
"	2.5	4.2	3.1	1.1
M.S.	3.0	Tr.	0.2	Tr.
Ph.D.	2.5	2.1	0.3	Tr.
"	10.0	5.3	3.6	-
No. 8	5.0	3.8	1.5	Tr.
"	20.0	4.0	0.1	Tr.
"	2.0	8.0	3.7	0.3
"	2.0	10.0	10.8	1.6
"	0.7	8.9	3.0	0.1
"	1.5	25.2	3.1	2.6

May 20, 1975

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