

MAR 19770032: BLUERIDGE SOUTH

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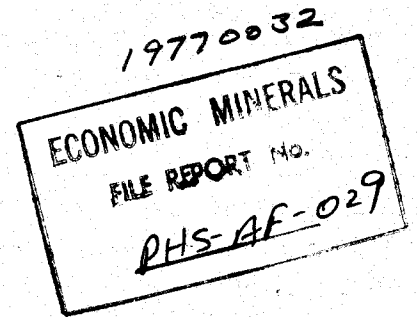
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REPORT ON
QUARTZ MINERAL EXPLORATION PERMIT
6876070006

August 2, 1977



J. R. Century Petroleum Consultants, Ltd.

July 13/76
Blueridge South

REPORT ON PROGRESS OF EXAMINATION

Permit No. 6876070006

1. Geological Interpretation: (Maps and Cross-sections)
 - A. Nordegg Phosphorite Isopach (enclosure 1)
 - B. Correlations (enclosures 2 & 3)
 - C. Lithology (enclosed lithologs)
 - D. Core Analysis (enclosures 2 & 3)
 - E. Drill Stem Tests (enclosures 2 & 3)

2. Geochemical Analysis and X-Ray Mineralogy
 - A. P_2O_5 % (enclosures 1, 2 & 3)
 - B. X-Ray Diffraction (enclosed X-Ray Diffraction patterns)

3. Expenditure during First Year (see attached schedule)

4. Work Program for 1977-78
 - A. Refinement and continuation of items 1 & 2 above -
J. R. Century and the Geological Survey of Canada.
 - B. Research on the kinetics of in situ solution processes -
Alberta Research Council and J. Hyne
 - C. Seismic interpretation of Nordegg paleotopography -

 - D. Estimated expenditures - \$5,000.00

EXPENDITURES

Quartz Mineral Exploration Permit No. 6876070006

1.	[REDACTED] P. Geol. Technical Consulting Fee for geologic interpretation and preparation of report.	\$2,000.00
2.	Paid Employees: One full time technician - [REDACTED] Petroleum Tech. One part-time assistant and one part time draftsman	850.00 250.00
3.	Outside Services: Field Log Library, Rileys, Western Canadian Reproduction, ERCB, Laboratory costs for geochemistry and x-ray mineralogy.	600.00
4.	Outside Consultants University and Government Research and Consulting services. (Deemed value in lieu of expenditure)	1,200.00
5.	Travel, Field Work, Long Distance calls	100.00
	Estimated Total Expenditure	<hr/> \$5,000.00

CONCLUDING REMARKS

Request for Waiver of Renewal Rental

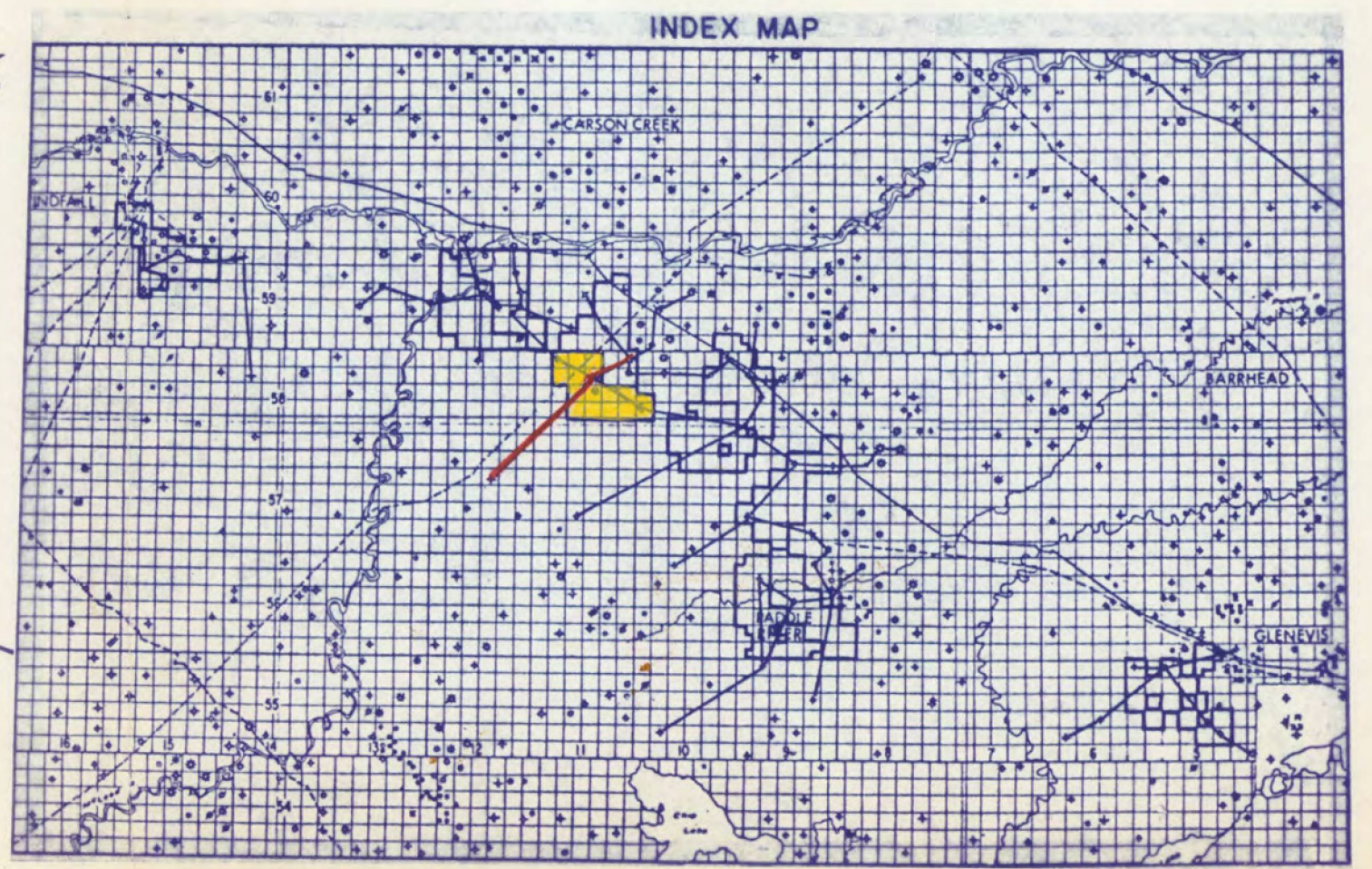
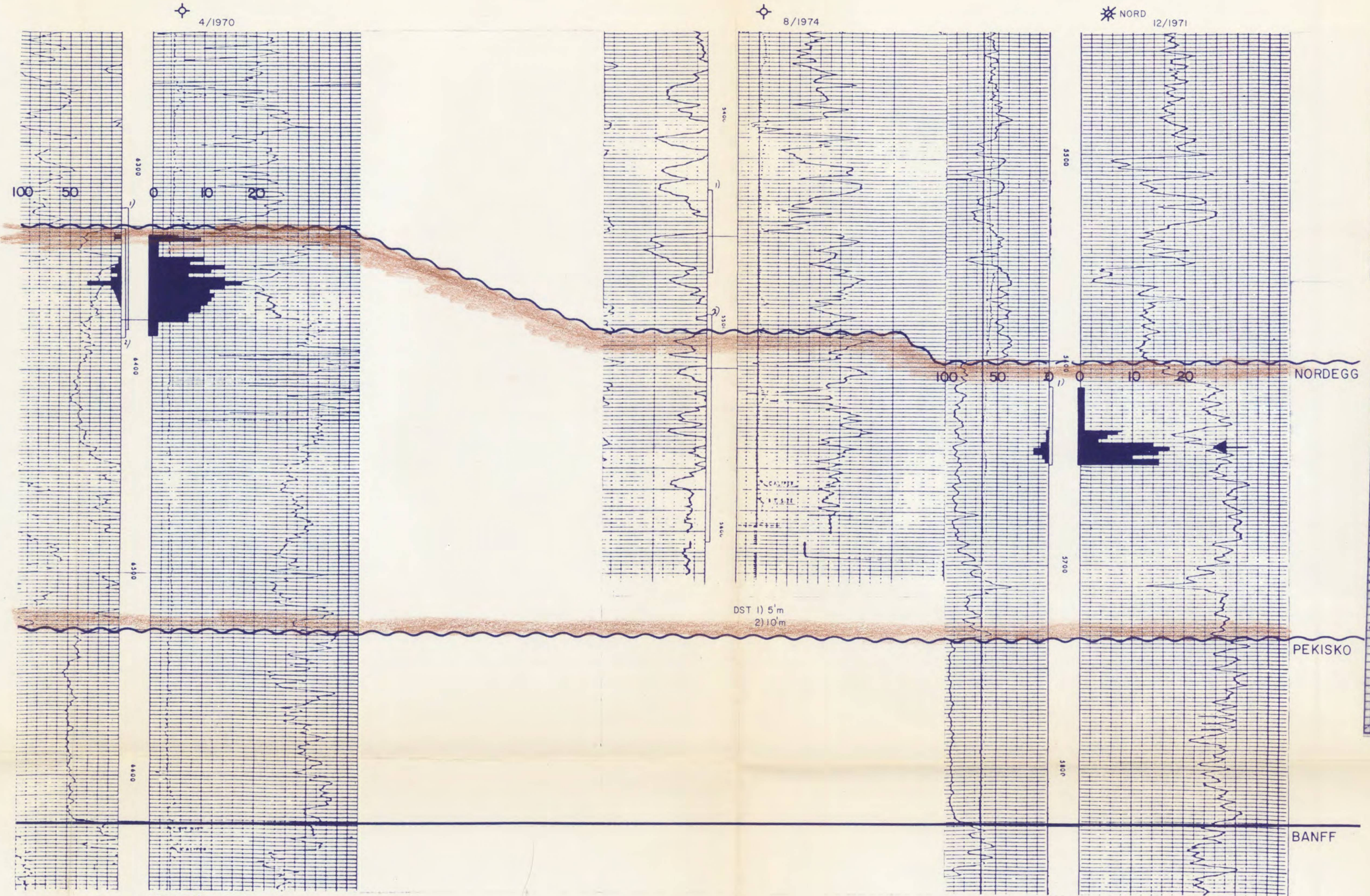
The negative reaction of a number of corporations to the proposal for in situ solution extraction of phosphate indicates that industry is not currently prepared to risk a long-term investment of this kind. This is unfortunate; a domestic phosphate industry is so obviously in the national interest, and so potentially profitable, that this indifference is surprising. The Department of Energy, Mines and Resources recognizes the import, and the Alberta Research Council has favourably judged the technical merit of the project; but they are unable to support it financially. This lack of financial assistance is taxing to the continuation of research, and for this reason I request that the Minister waive rental fees for the upcoming year.

7-27-57-12w5
KB 3188

7-27-58-11w5
KB 2744

10-36-58-11w5
KB 2968

QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070006
BLUERIDGE S.
NORDEGG PHOSPHORITE
STRATIGRAPHIC CROSS SECTION G-G'
Vert. Scale: 1" = 40'
Datum - Top Banff
Enclosure 2
J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976

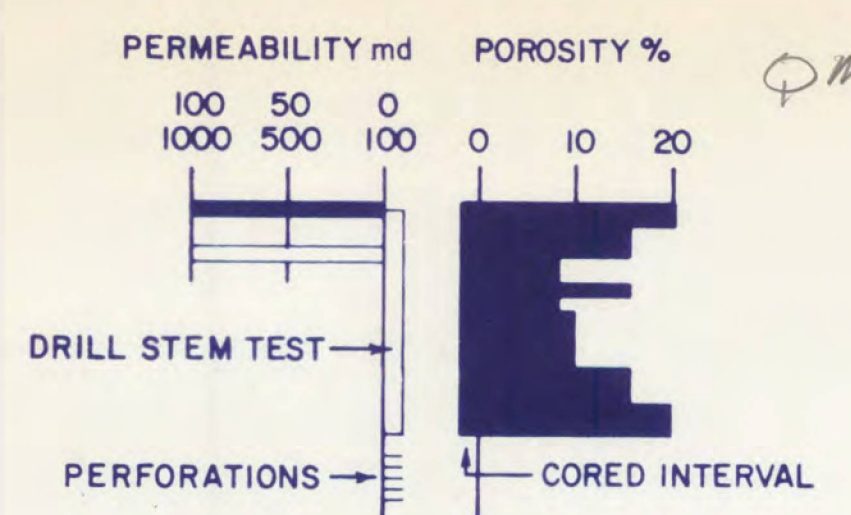


DST 1) 100' gcm, 180' sw, 185' br sw
2) 613' gcm

DST 1) 5' m
2) 10' m

DST 1) 175 mcf/d, 270' gcm

← P₂O₅%
1.74

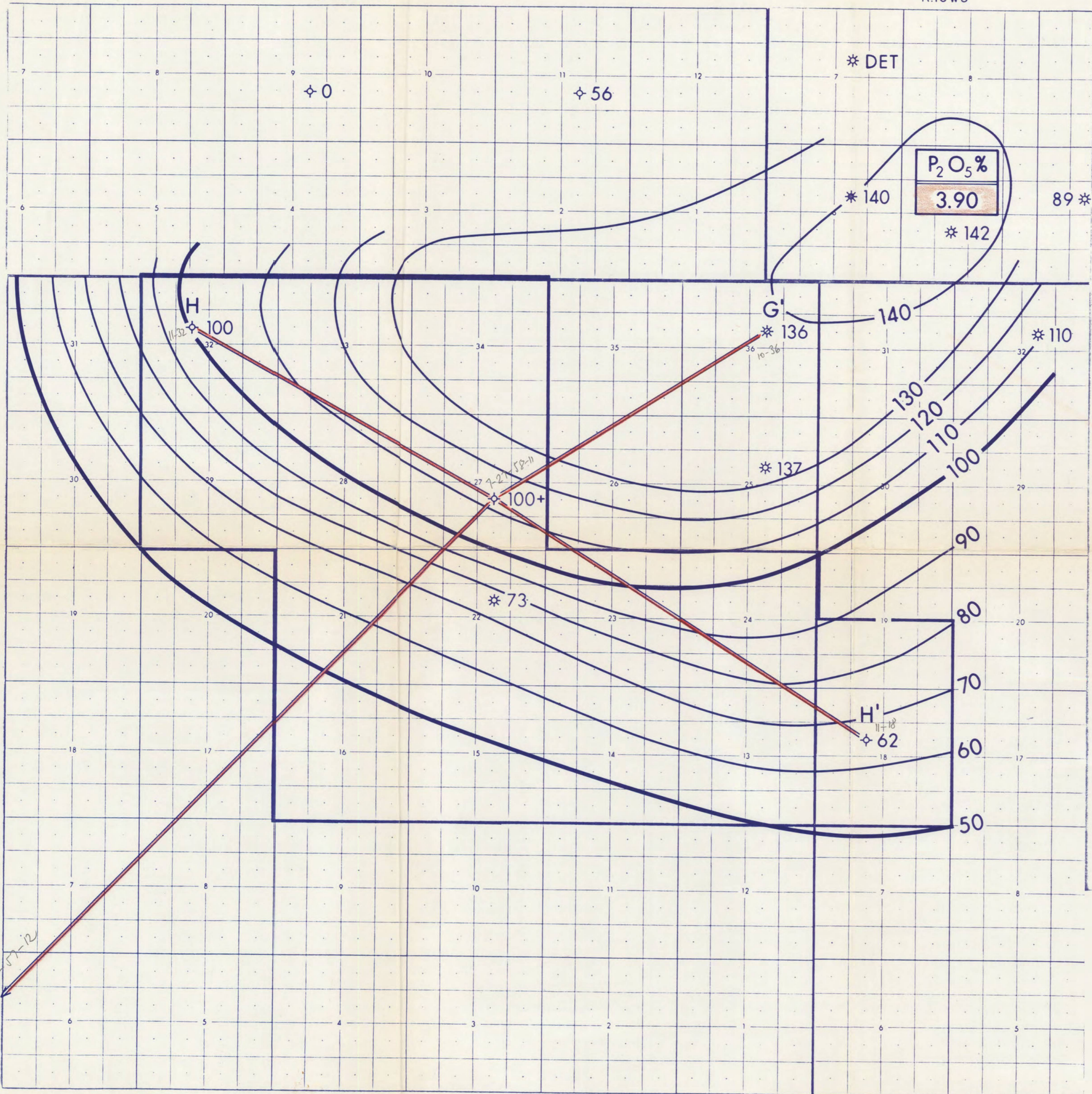


← P₂O₅% - SPOT SAMPLE

QMEP # 6876070006

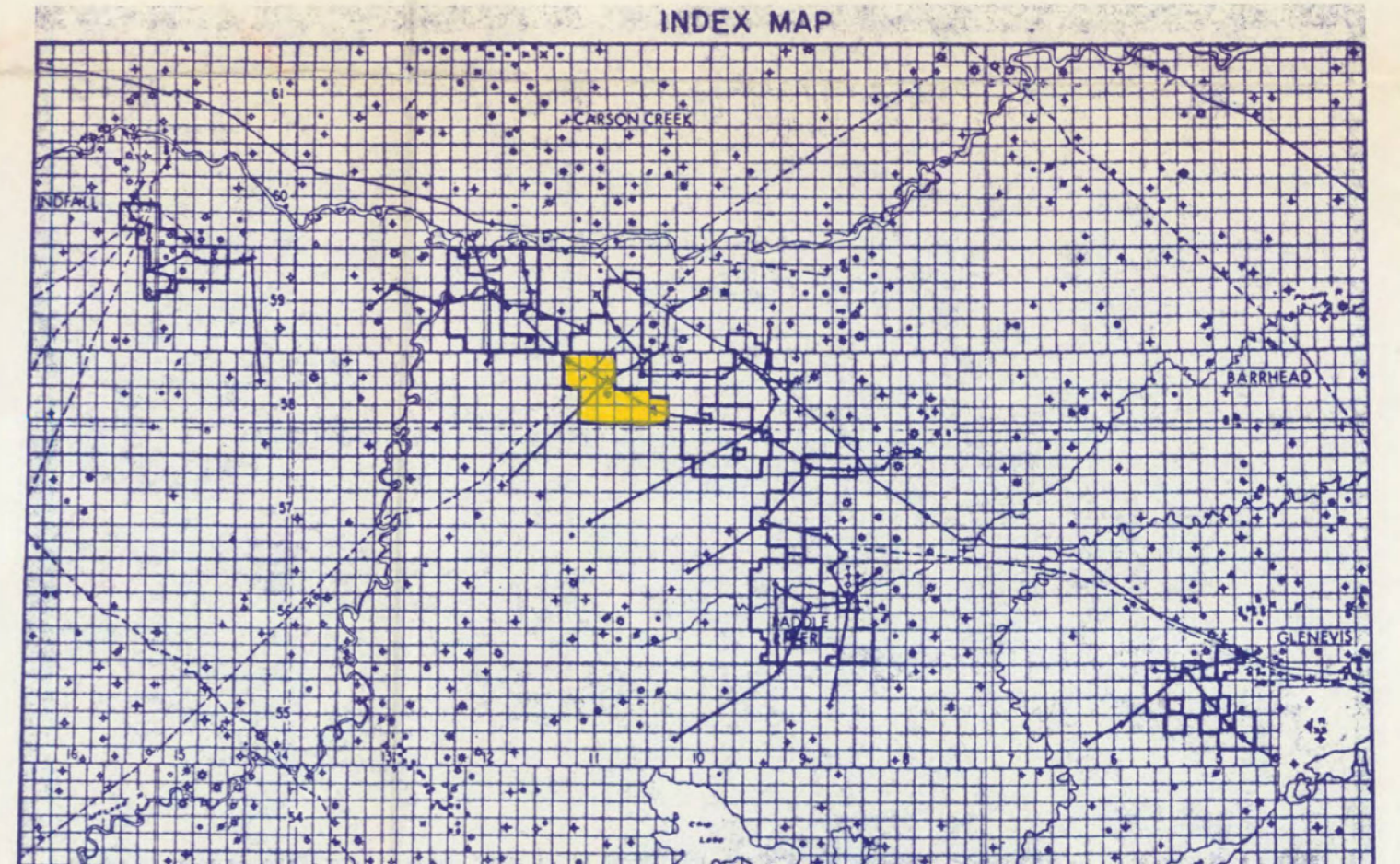
R.11w5

R.10w5



T.59

T.58



QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070006

ISOPACH
 NORDEGG PHOSPHORITE
 BLUERIDGE S.

Scale: 2" = 1 mile C.I. = 10' Enclosure 1
 J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976

11-32-58-11w5
KB 2736

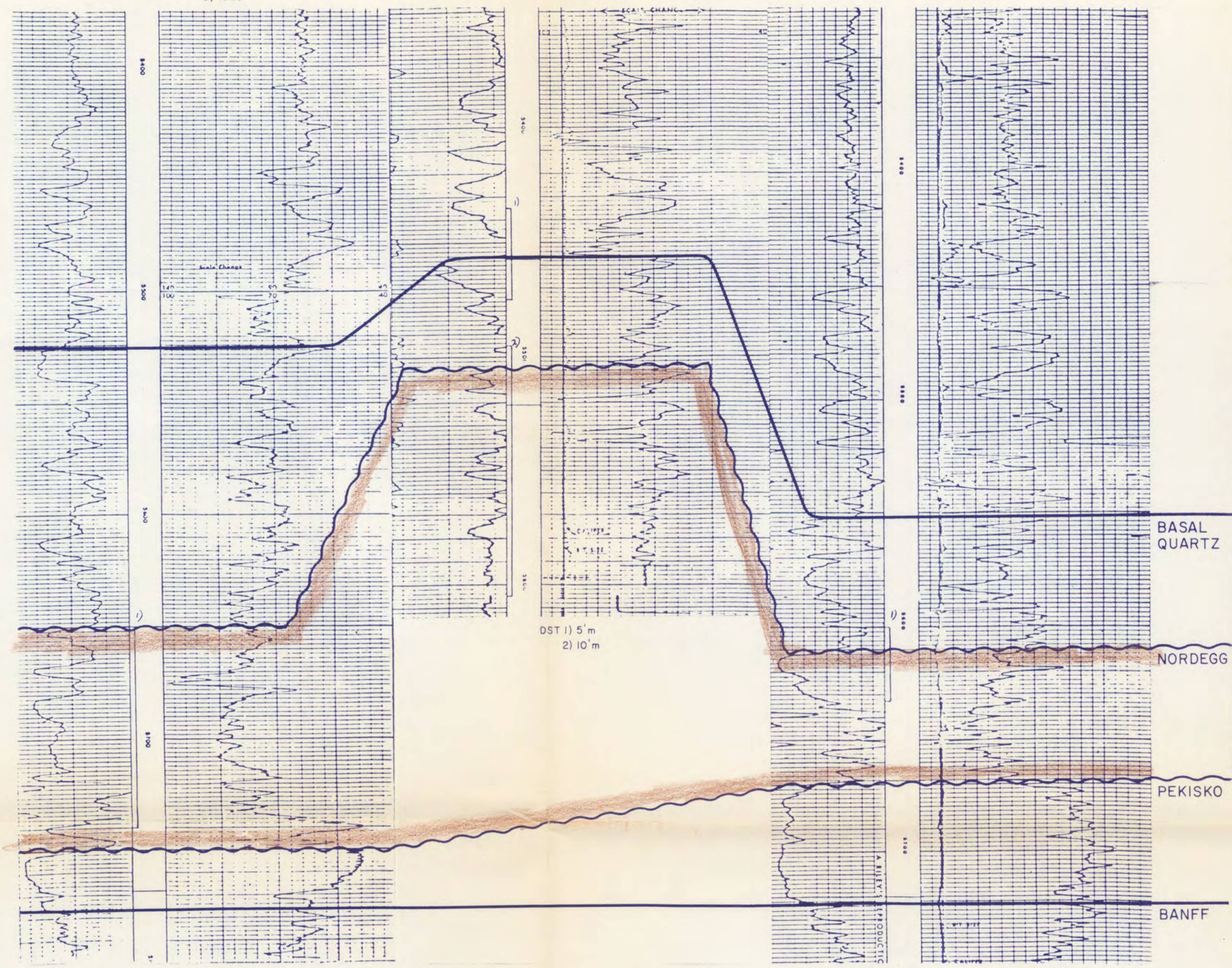
7-27-58-11w5
KB 2744

11-18-58-10w5
KB 2775

9/1969

8/1974

9/1974



DST 1) 260' sli ocm

DST 1) 5' m
2) 10' m

DST 1) 180' m, 3660' sw

QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070006

BLUERIDGE S.

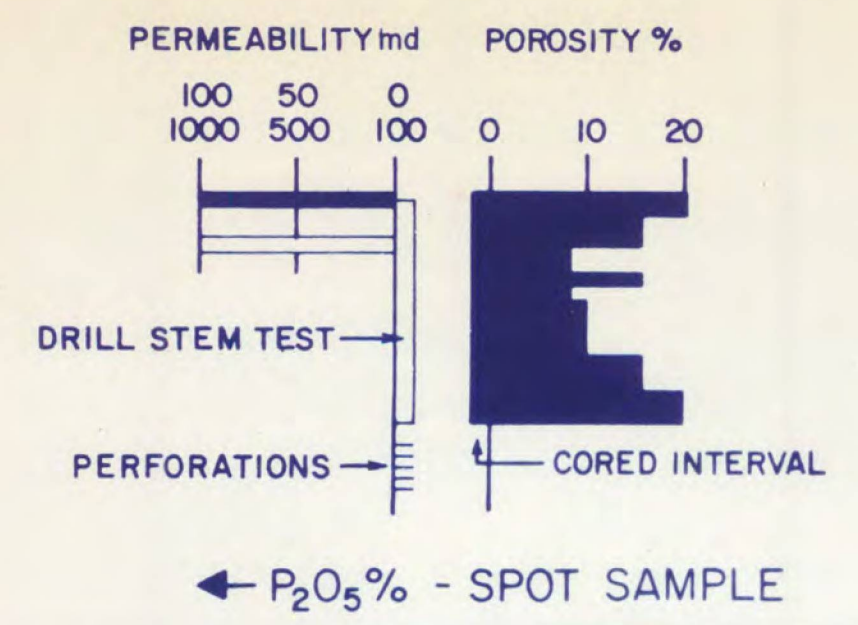
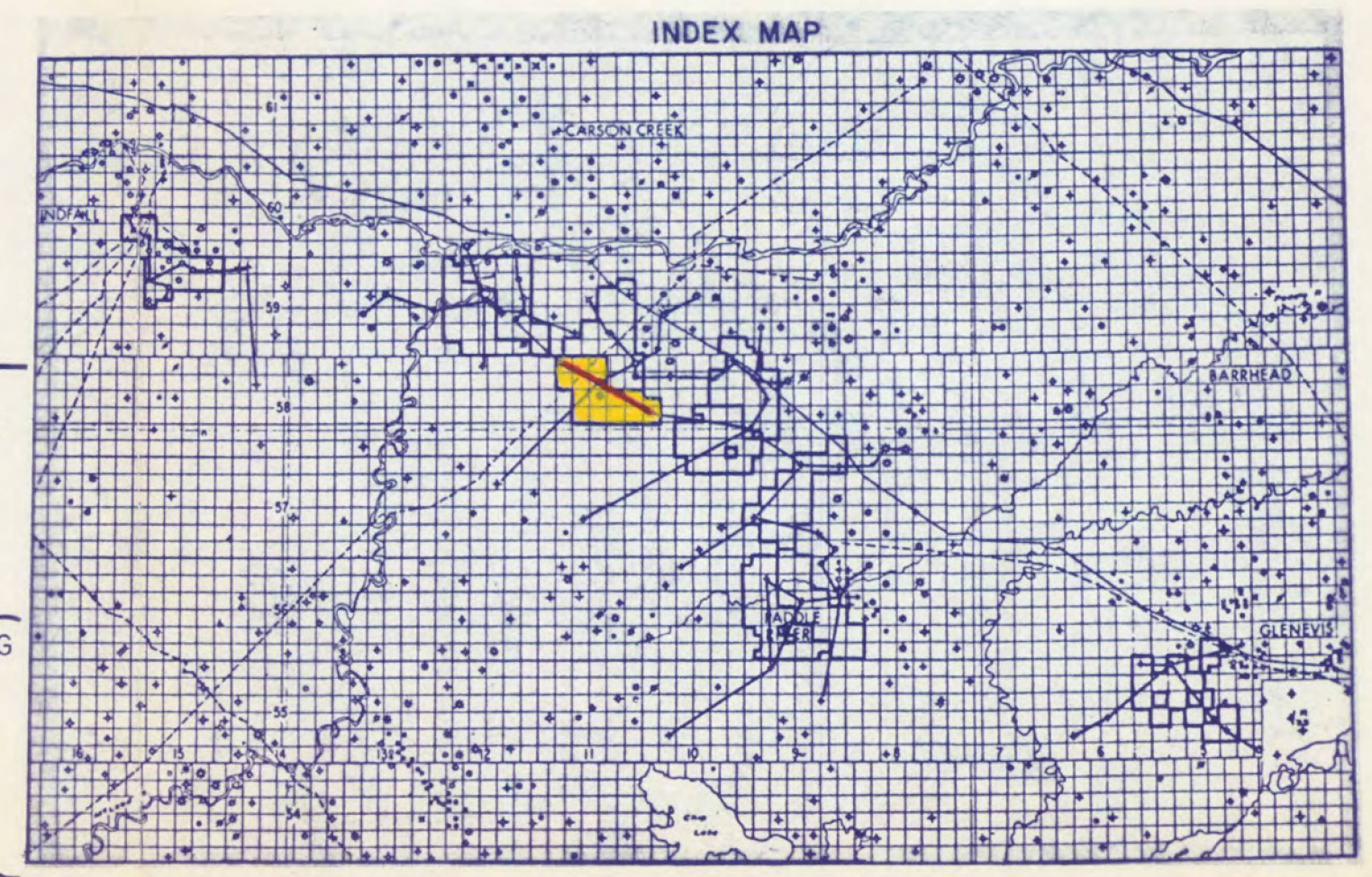
NORDEGG PHOSPHORITE

STRATIGRAPHIC CROSS SECTION H-H'

Vert. Scale: 1" = 40'
Datum - Top Banff

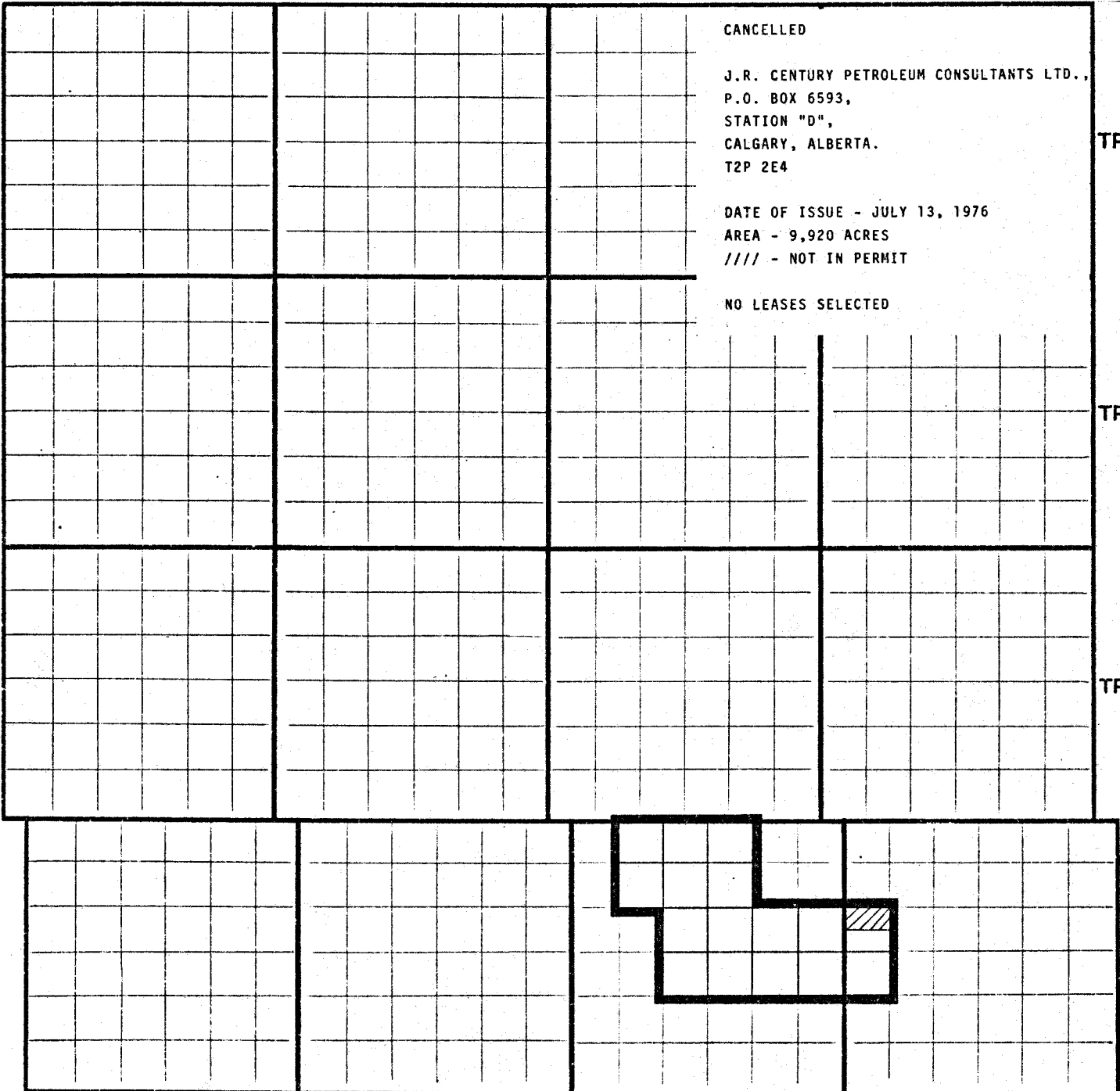
Enclosure 3

J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976



19770032

QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070006



R.

R.

R.II

R.10 W.5 M.