

# MAR 19770031: WHITECOURT EAST

Received date: Dec 31, 1977

Public release date: Jan 01, 1979

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ECONOMIC MINERALS

FILE REPORT No.

PHS-AF-028(1)

REPORT ON  
QUARTZ MINERAL EXPLORATION PERMIT  
6876070003

August 2, 1977

J. R. Century Petroleum Consultants, Ltd.

## EXPENDITURES

Quartz Mineral Exploration Permit No. 6876070003

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.

850.00

One part-time assistant and one part time draftsman

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

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Estimated Total Expenditure

\$5,000.00

REPORT ON PROGRESS OF EXAMINATION

Permit No. 6876070003

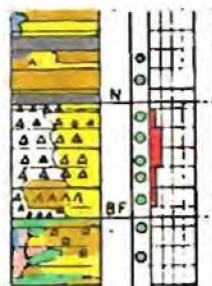
1. Geological Interpretation: (Maps and Cross-sections)
  - A. Nordegg Phosphorite Isopach (enclosure 1) ✓
  - B. Correlations (enclosures 2 & 3) ✓
  - C. Lithology (enclosed lithologs) ✓
  - D. Core Analysis (enclosures 2 & 3)
  - E. Drill Stem Tests (enclosures 2 & 3) ✓
2. Geochemical Analysis and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



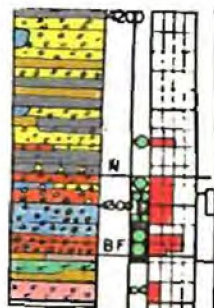
## CONCLUDING REMARKS

### Request for Waiver of Renewal Rental

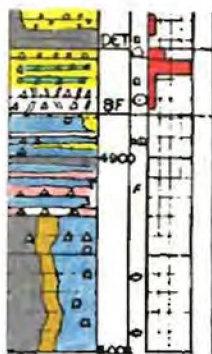
The negative reaction of a number of corporations to the proposal for in situ solution extraction of phosphate indicates that industry is not currently prepared to risk a long-term investment of this kind. This is unfortunate; a domestic phosphate industry is so obviously in the national interest, and 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.



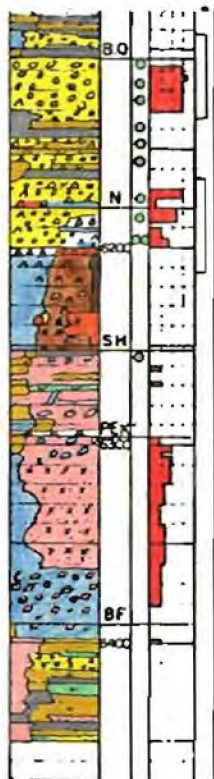
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2-14-57-BWS



1977 0031  
12-1-58-7W5



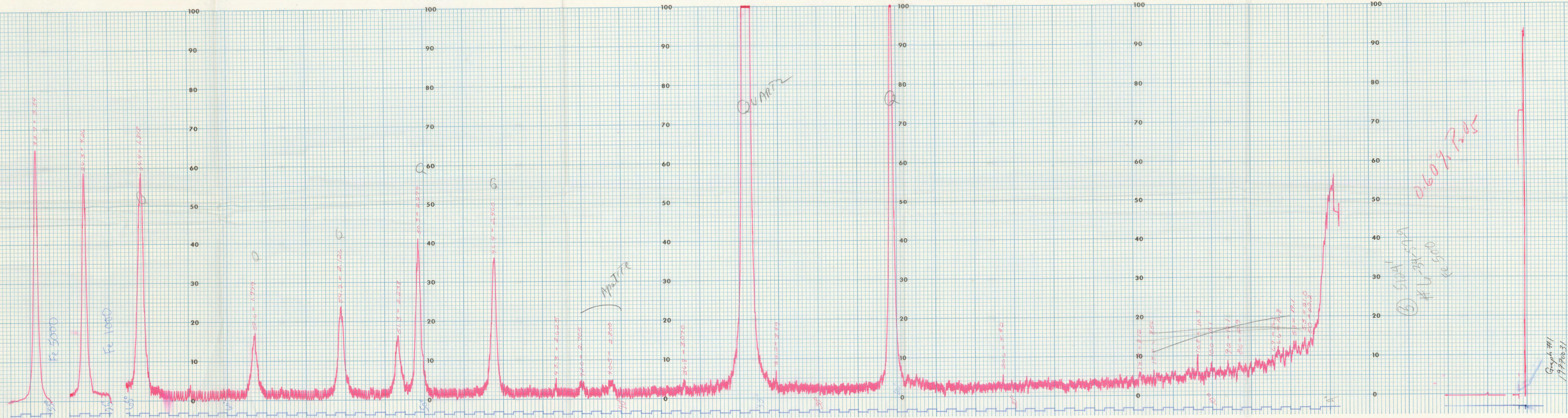
19770031  
8-11-58-845



19770031  
4-13-57-1205



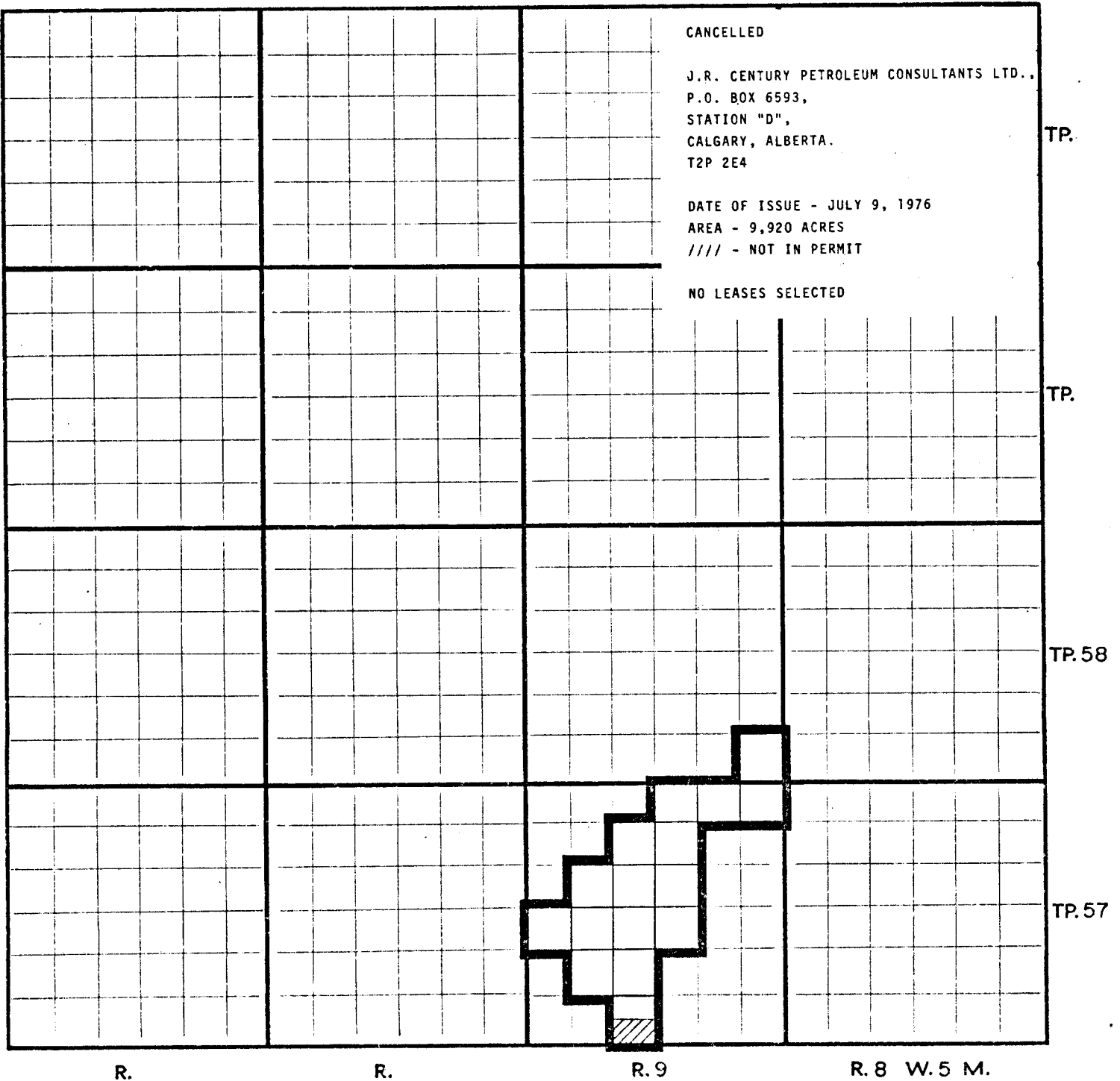
Traces of Apatite



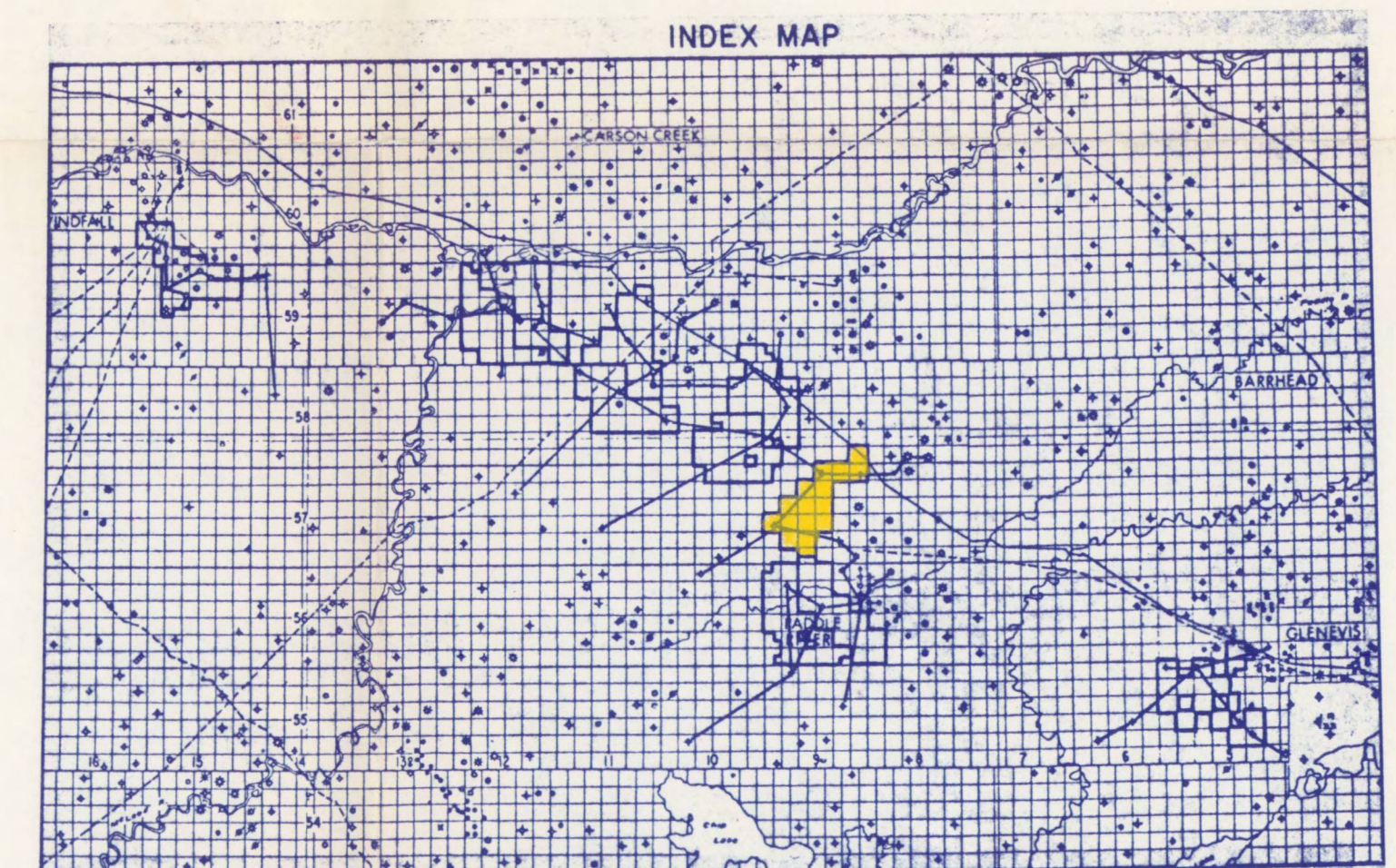
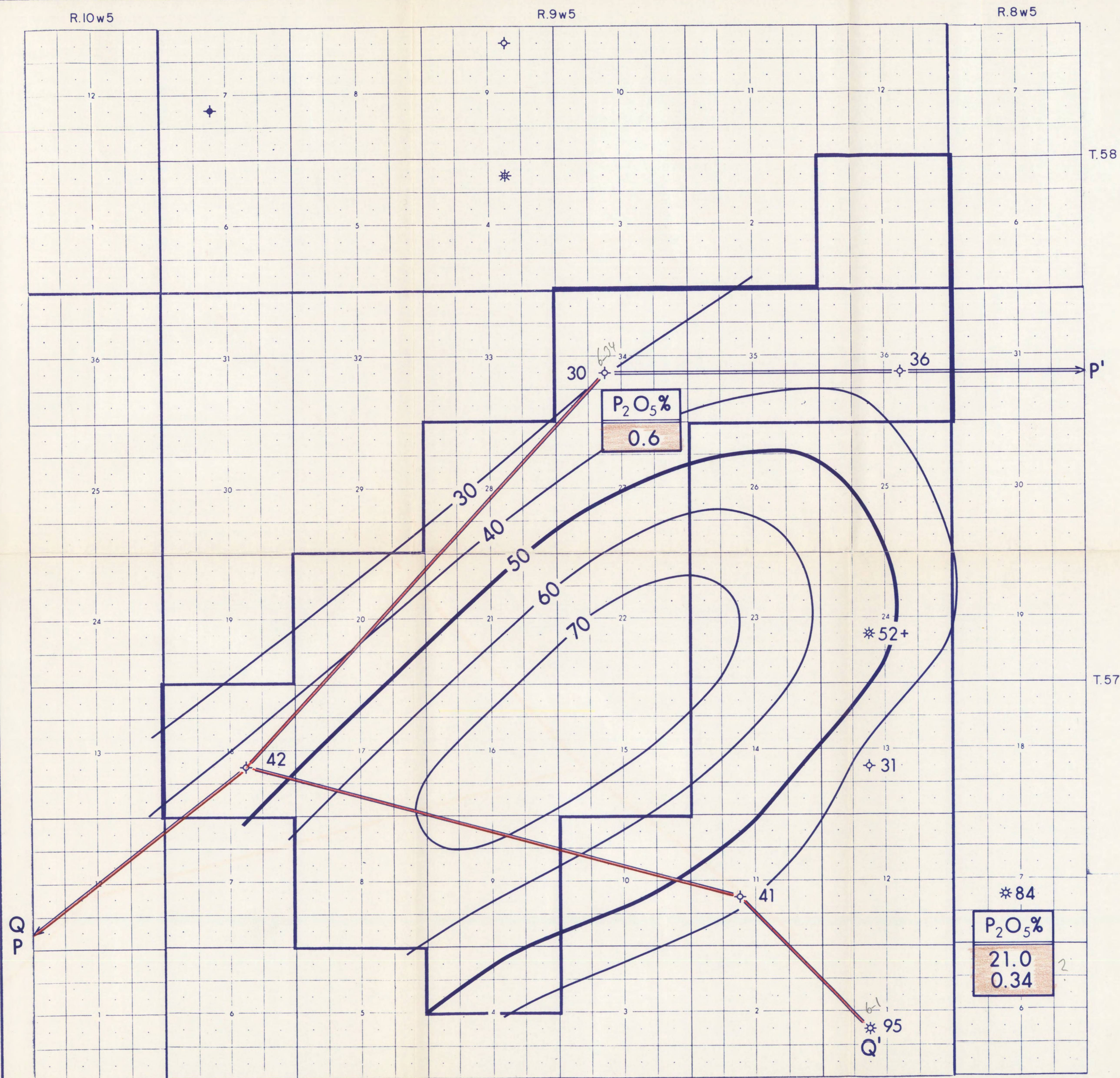


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QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070003







QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070003

ISOPACH  
NORDEGG PHOSPHORITE  
PADDLE RIVER N.

Scale: 2" = 1 mile      C.I. = 10'      Enclosure 1


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



10/1975

2/1969

9/1961



 NORD  
PEK 6/1973

NORD  
9/1970

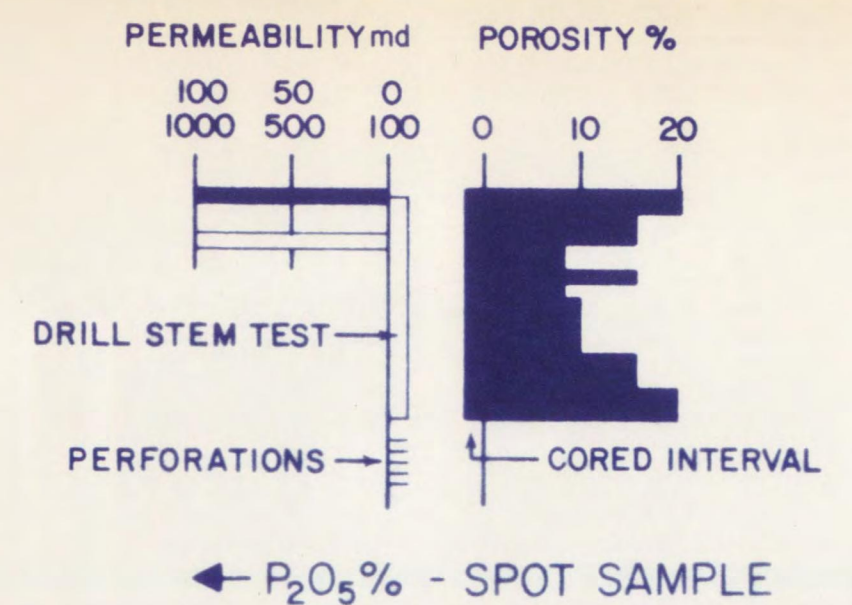
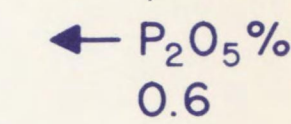
12/1970

PADDLE RIVER N.

19770031

Enclosure 2

DEC. 1976





6-33-56-10w5

KB 2754

10/1975

7-18-57-9w5

KB 2618

2/1969

6-11-57-9w5

KB 2615

12/1974

6-1-57-9w5

KB 2518

JUR 6/1961

QUARTZ MINERAL EXPLORATION PERMIT NO. 6876070003

PADDLE RIVER N.

NORDEGG PHOSPHORITE  
STRATIGRAPHIC CROSS SECTION Q-Q'

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

19770031

Enclosure 3

J.R. CENTURY PETROLEUM CONSULTANTS LTD.

DEC. 1976

