

MAR 19770034: WHITECOURT EAST

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REPORT ON
QUARTZ MINERAL EXPLORATION PERMIT
6876090005

August 2, 1977

19770034

ECONOMIC MINERALS
FILE REPORT No.
DHS-AF-031(1)

J. R. Century Petroleum Consultants, Ltd.

REPORT ON PROGRESS OF EXAMINATION

Permit No. 6876090005

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. P₂O₅ % (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. 6876090005

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

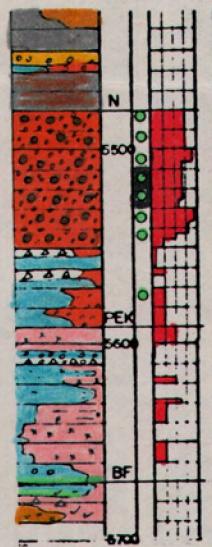
5. Travel, Field Work, Long Distance calls 100.00

Estimated Total Expenditure \$5,000.00

CONCLUDING REMARKS

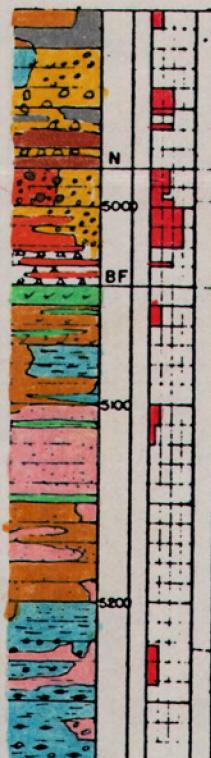
Request for Waiver of Renewal Rental

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.



19770034

7-17-59-0005



19770034
7-23-59-10W5

19770034

QUARTZ MINERAL EXPLORATION PERMIT NO. 6876090005

CANCELLED

J.R. CENTURY PETROLEUM CONSULTANTS LTD.,
P.O. BOX 6593,
STATION "D",
CALGARY, ALBERTA.
T2P 2E4

TP.

DATE OF ISSUE - SEPTEMBER 30, 1976

AREA - 9,920 ACRES

//// - NOT IN PERMIT

NO LEASES SELECTED

TP.

TP.59

TP.58

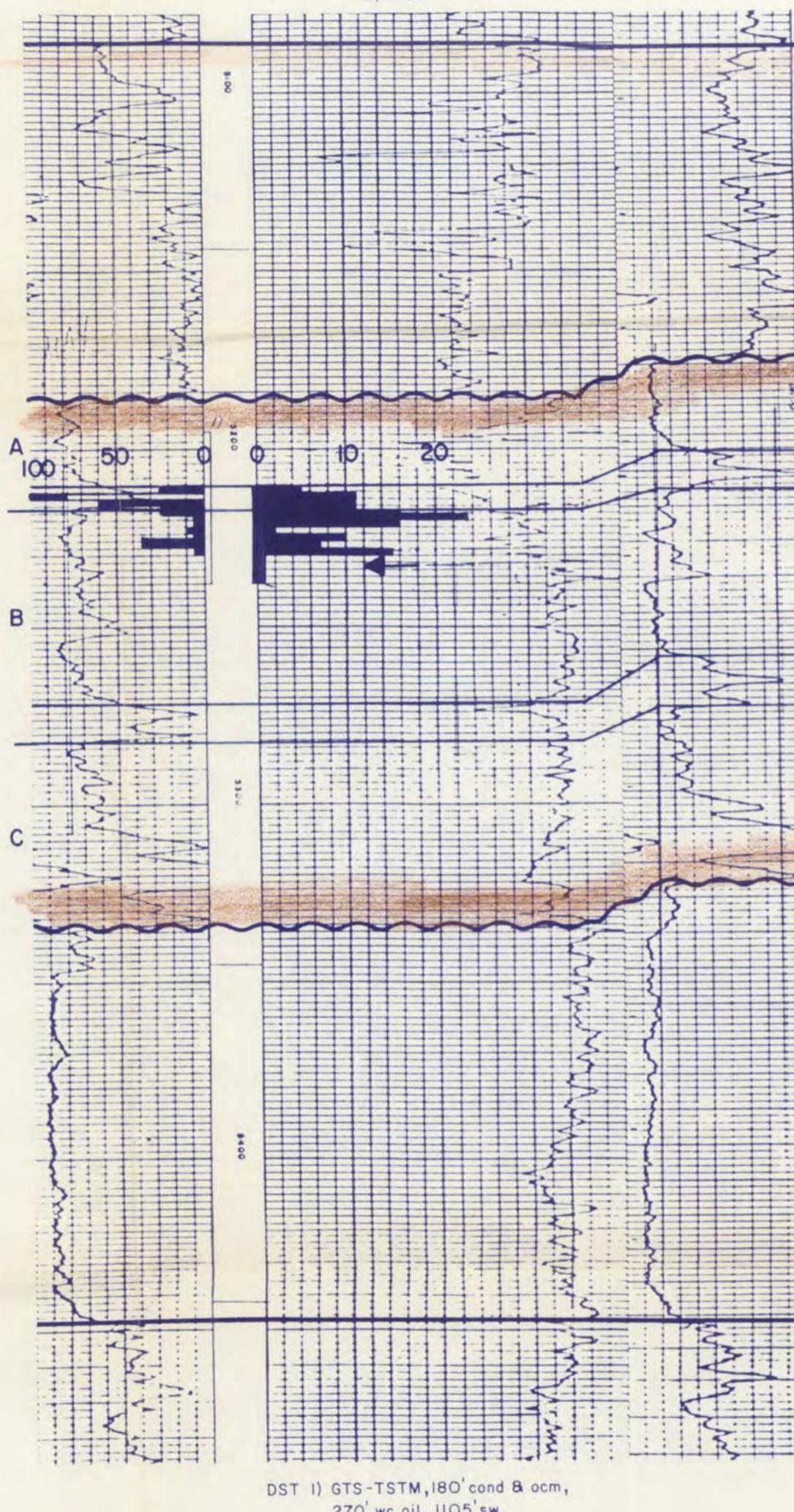
R.

R.

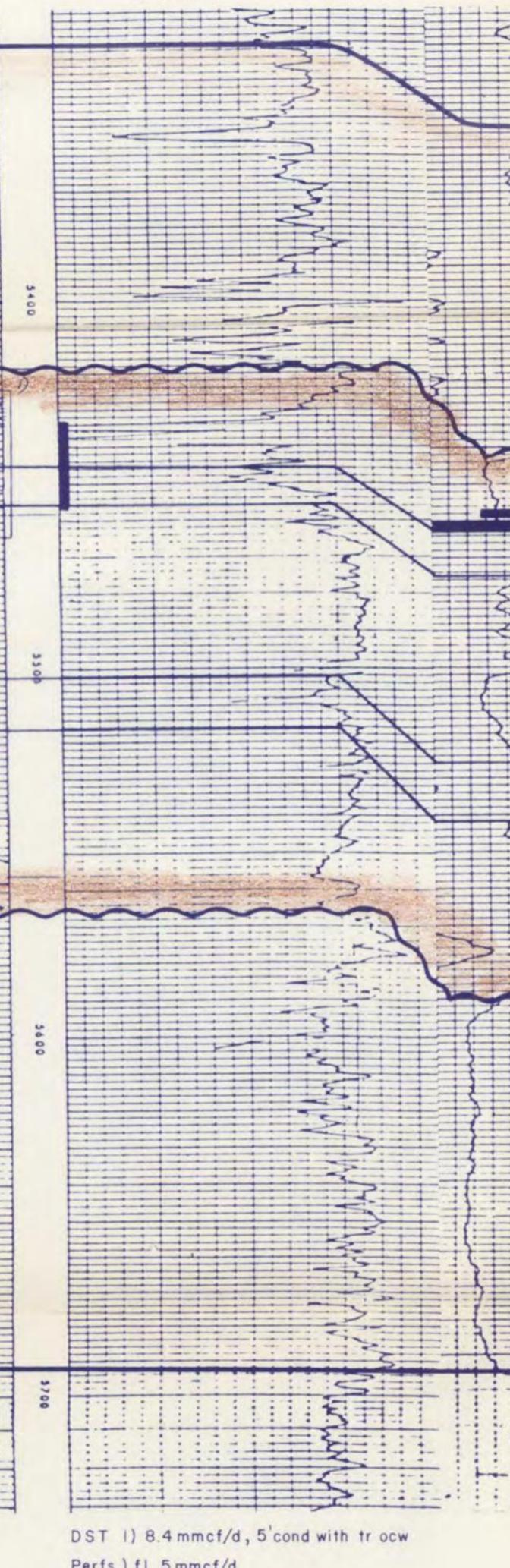
R. II

R. 10 W. 5 M.

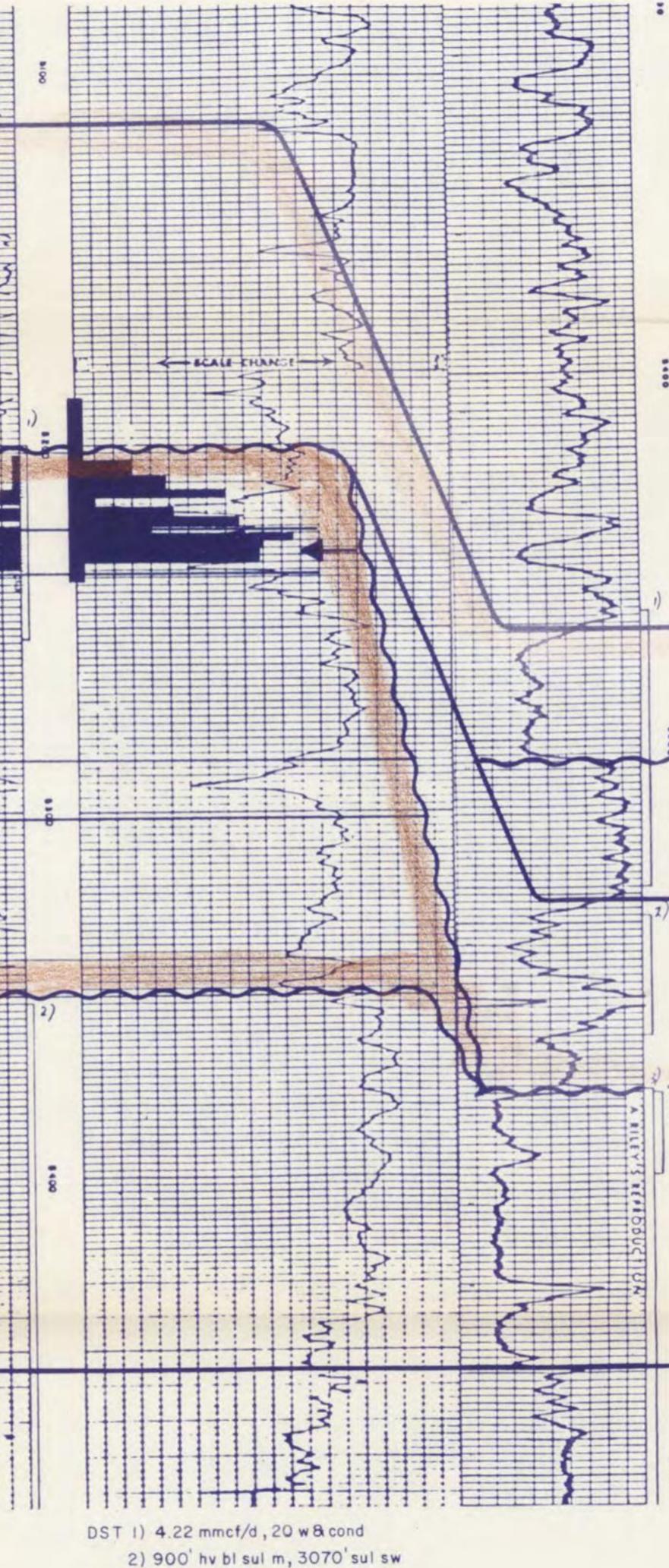
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2/1969



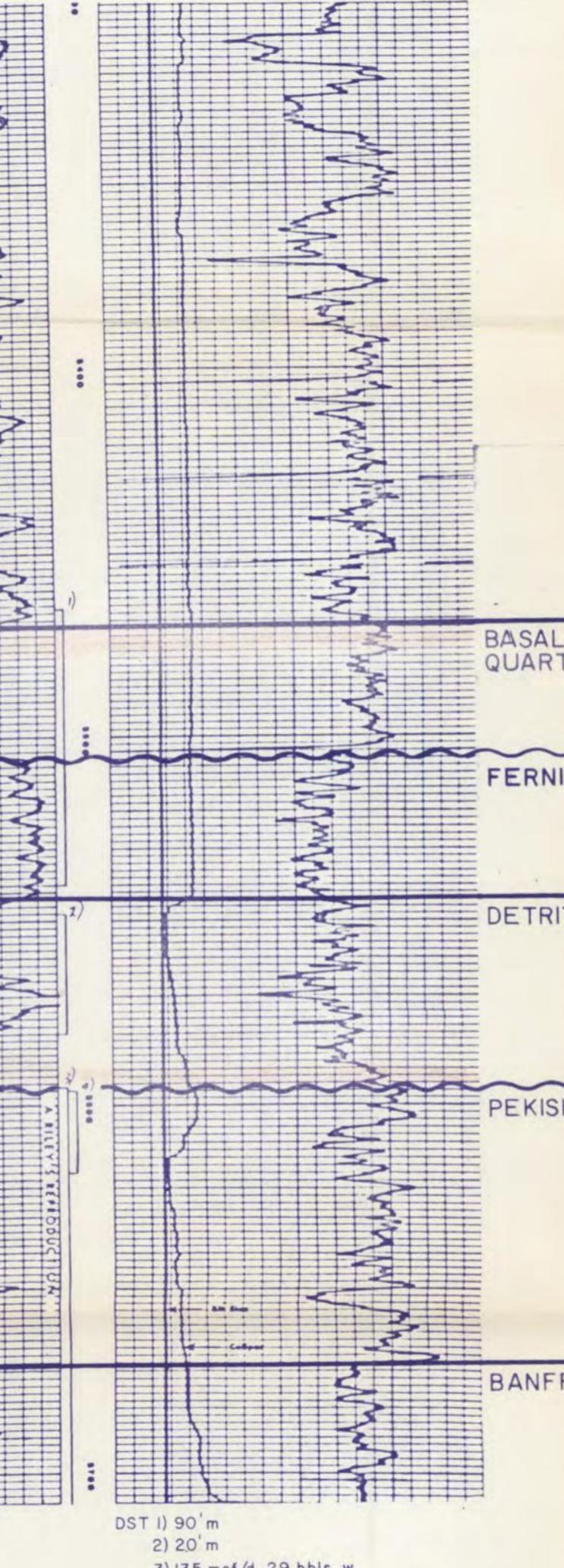
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NORD
2/1971



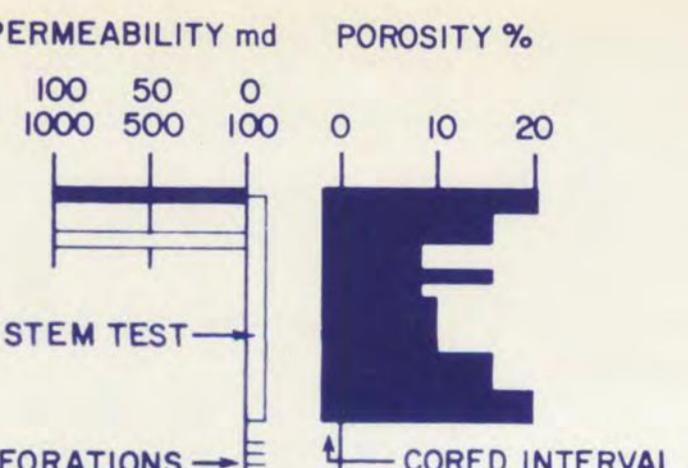
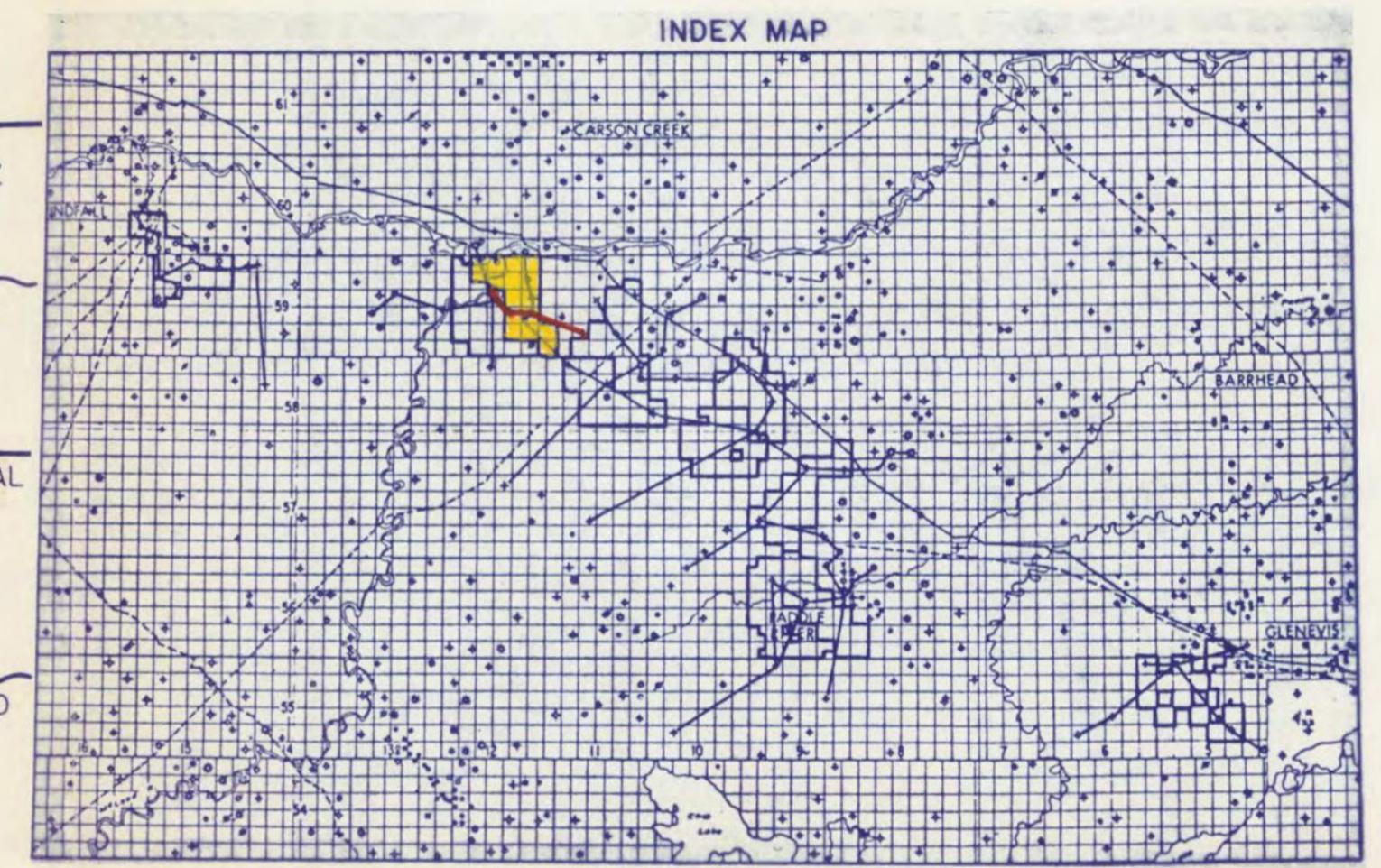
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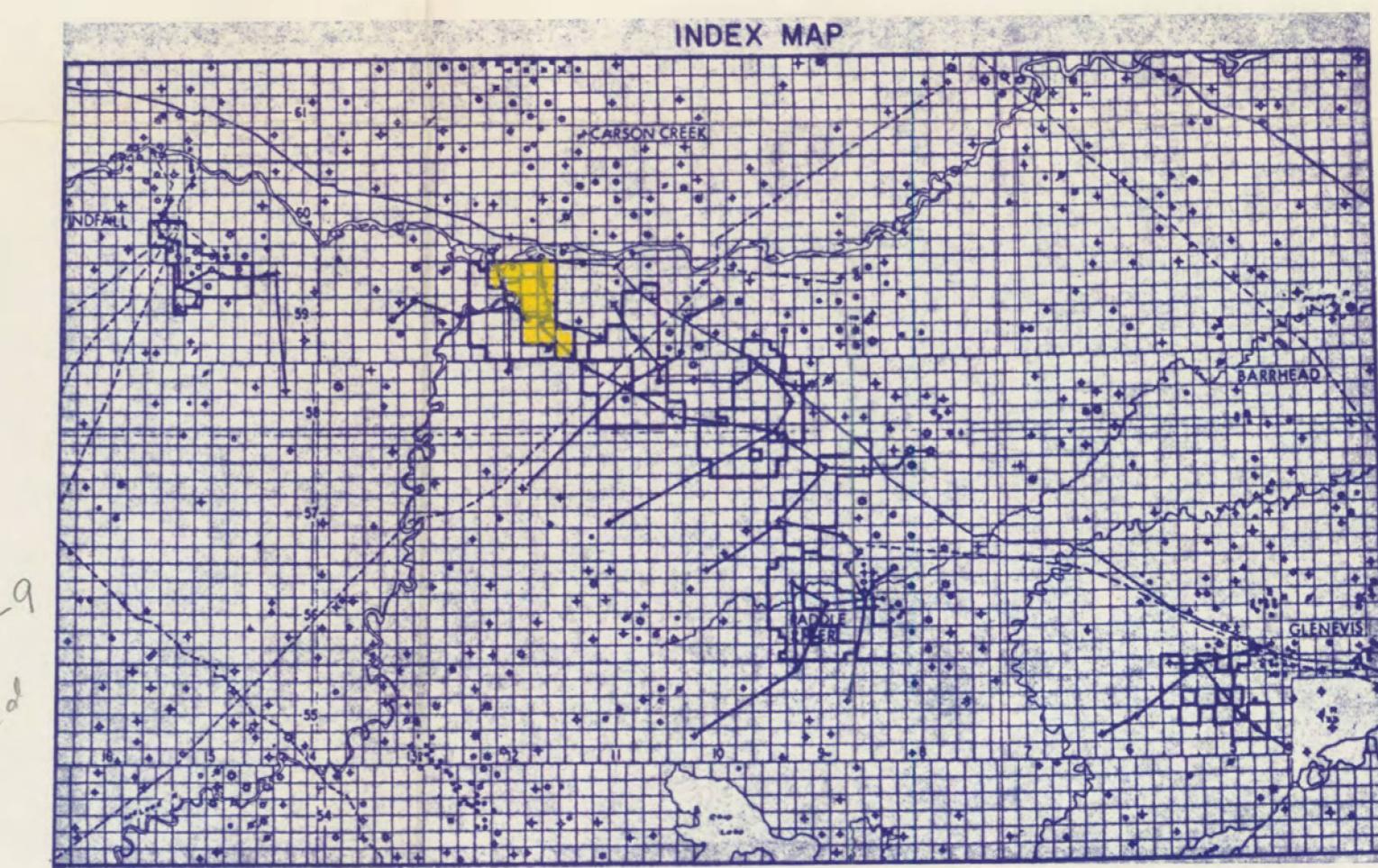
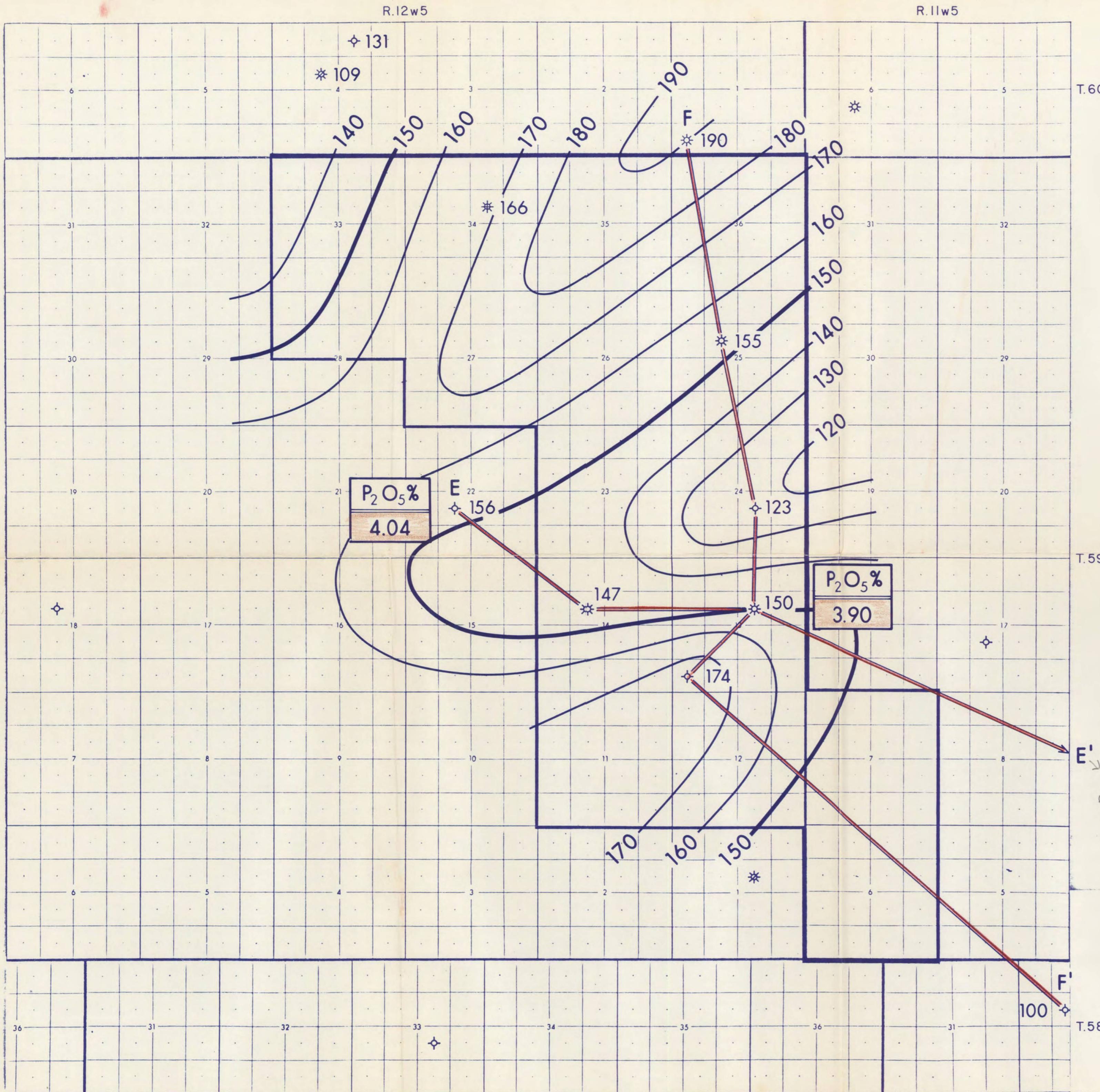
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KB 2620
10/1974



QUARTZ MINERAL EXPLORATION PERMIT NO. 6876090006
WHITECOURT E.
NORDEGG PHOSPHORITE
STRATIGRAPHIC CROSS SECTION E-E'
Vert. Scale: 1" = 40'
Datum - Top Banff
J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976
Enclosure 2

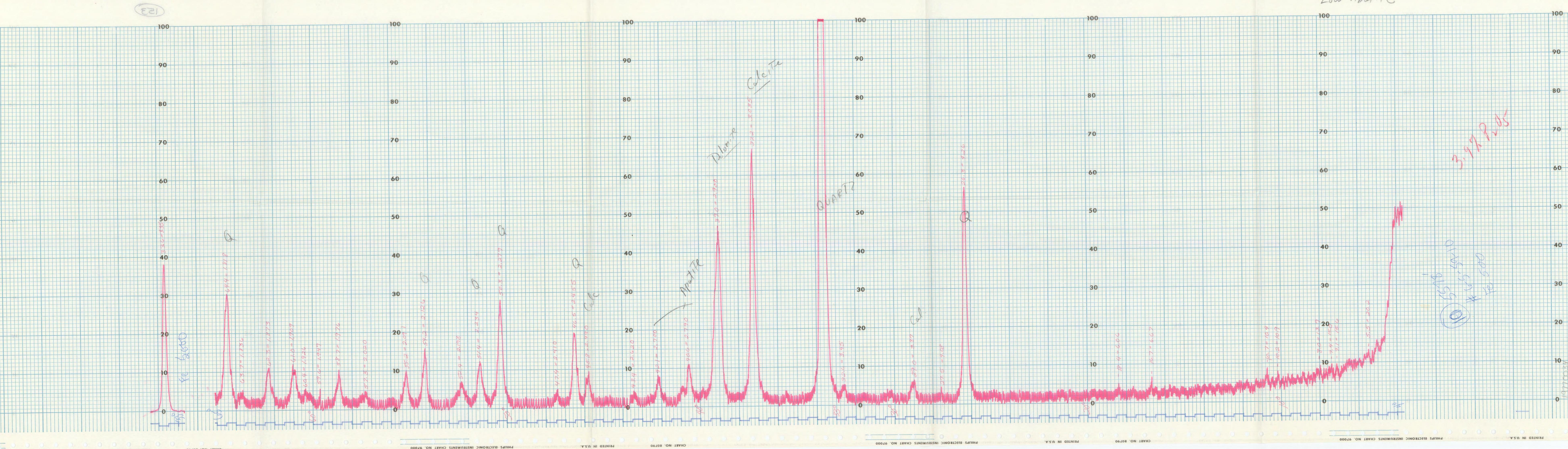


$\leftarrow P_2O_5\% - SPOT SAMPLE$



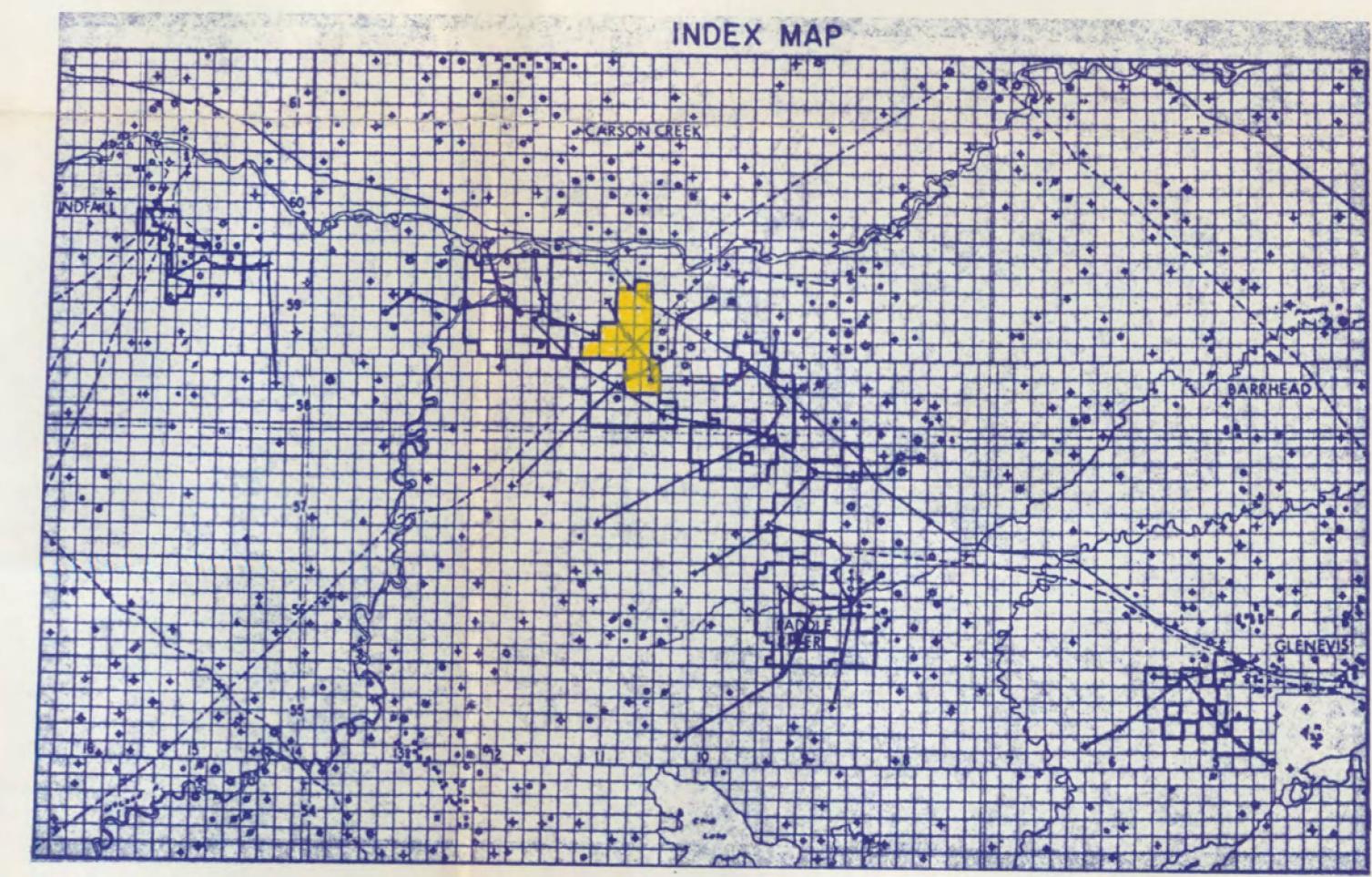
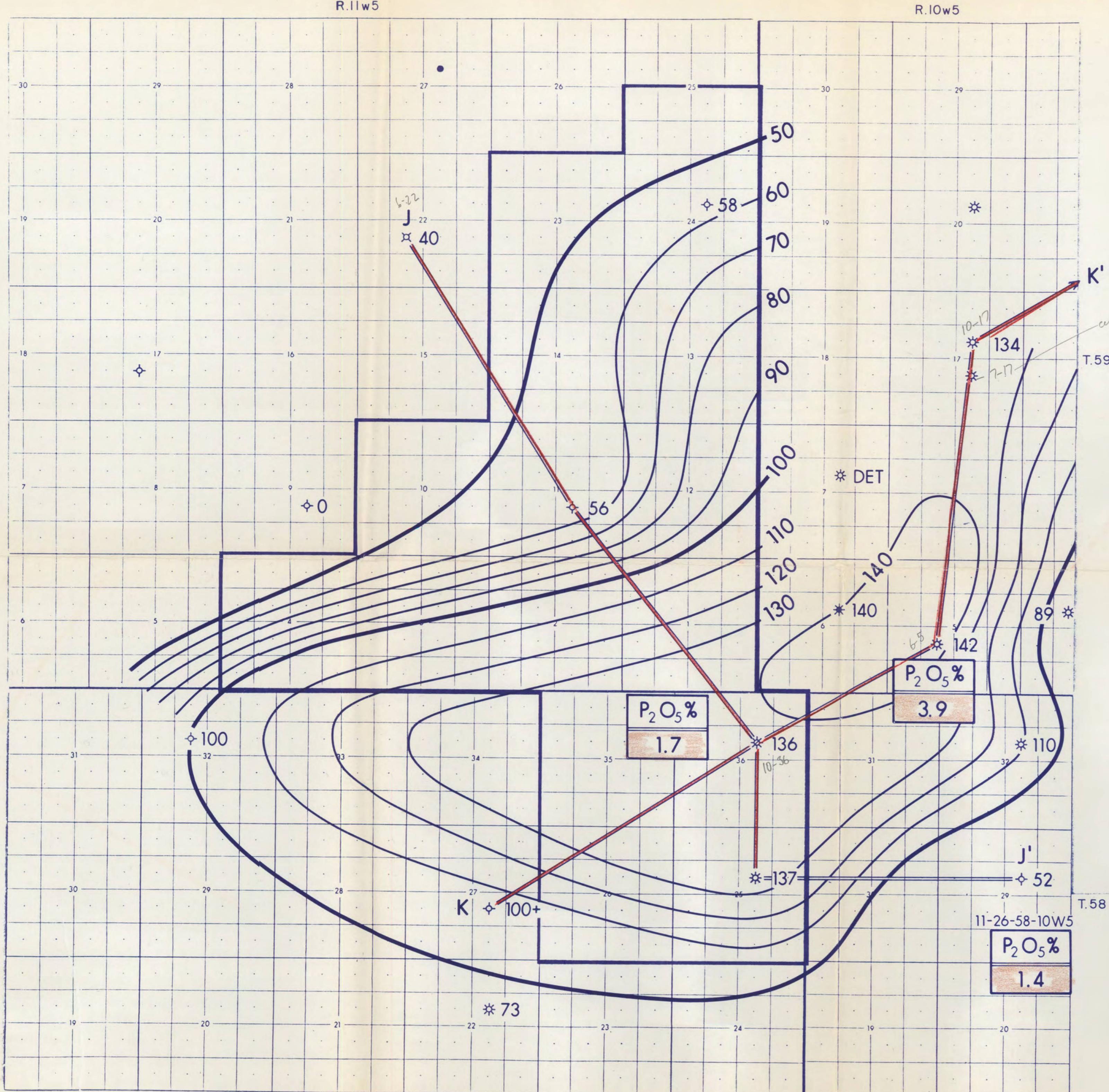
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ISOPACH
NORDEGG PHOSPHORITE
WHITECOURT E.



Low

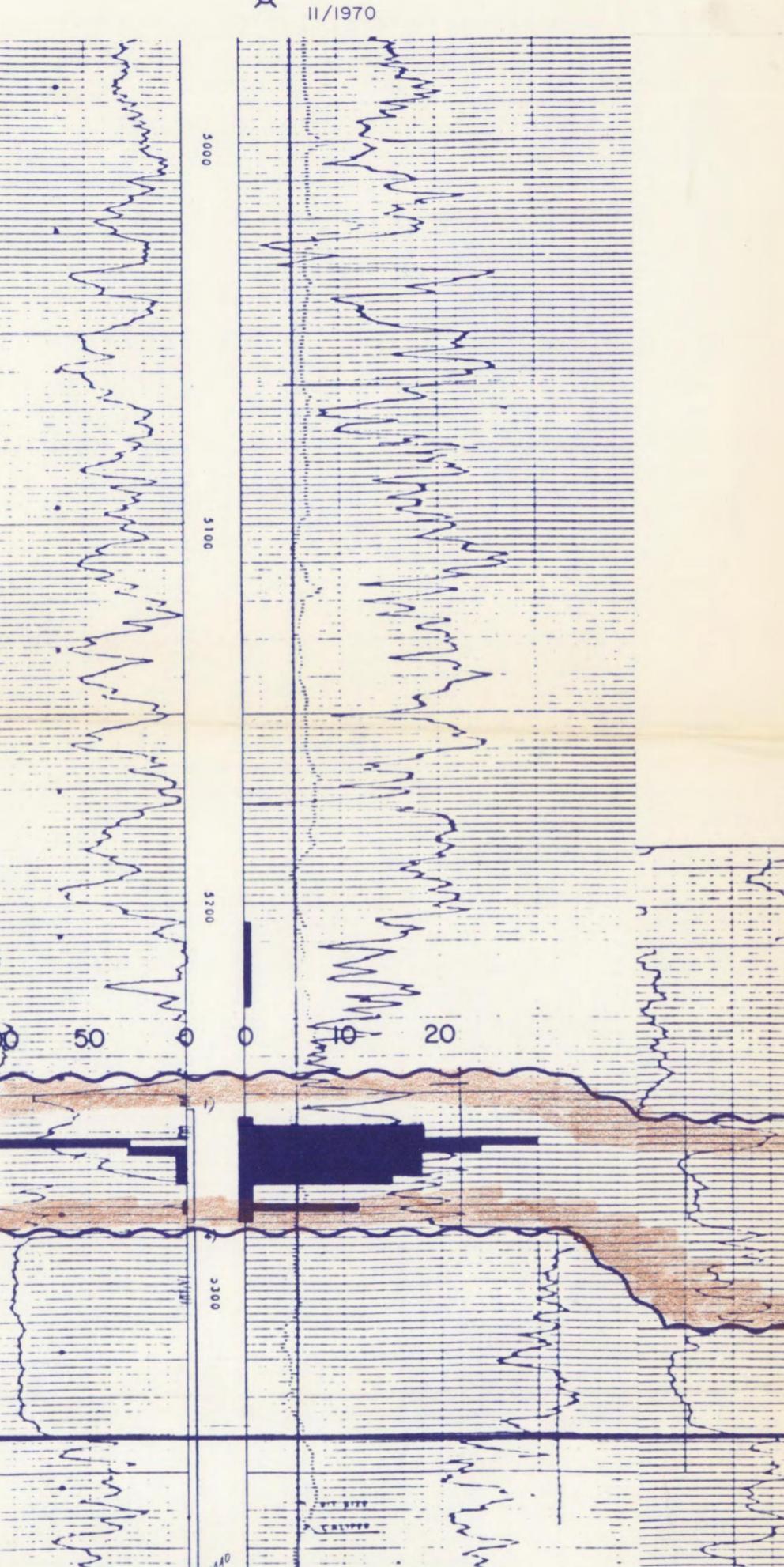
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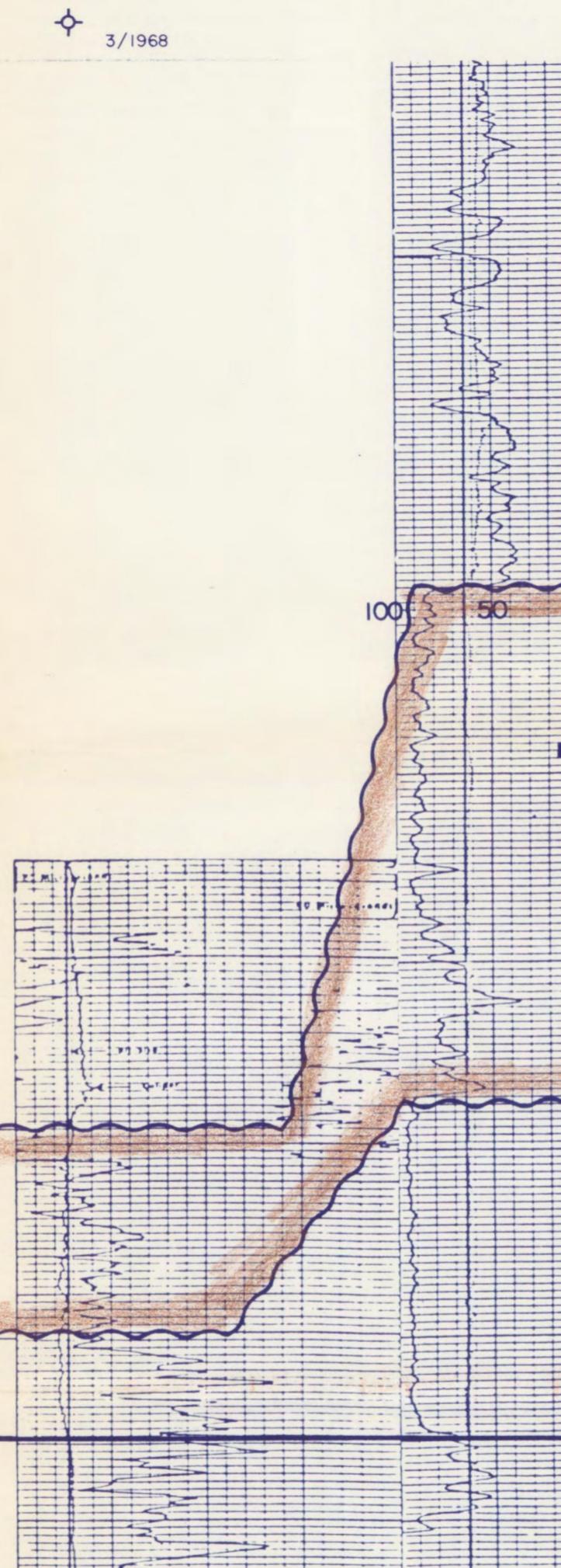
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NORDEGG PHOSPHORITE
BLUERIDGE N.

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KB 2480



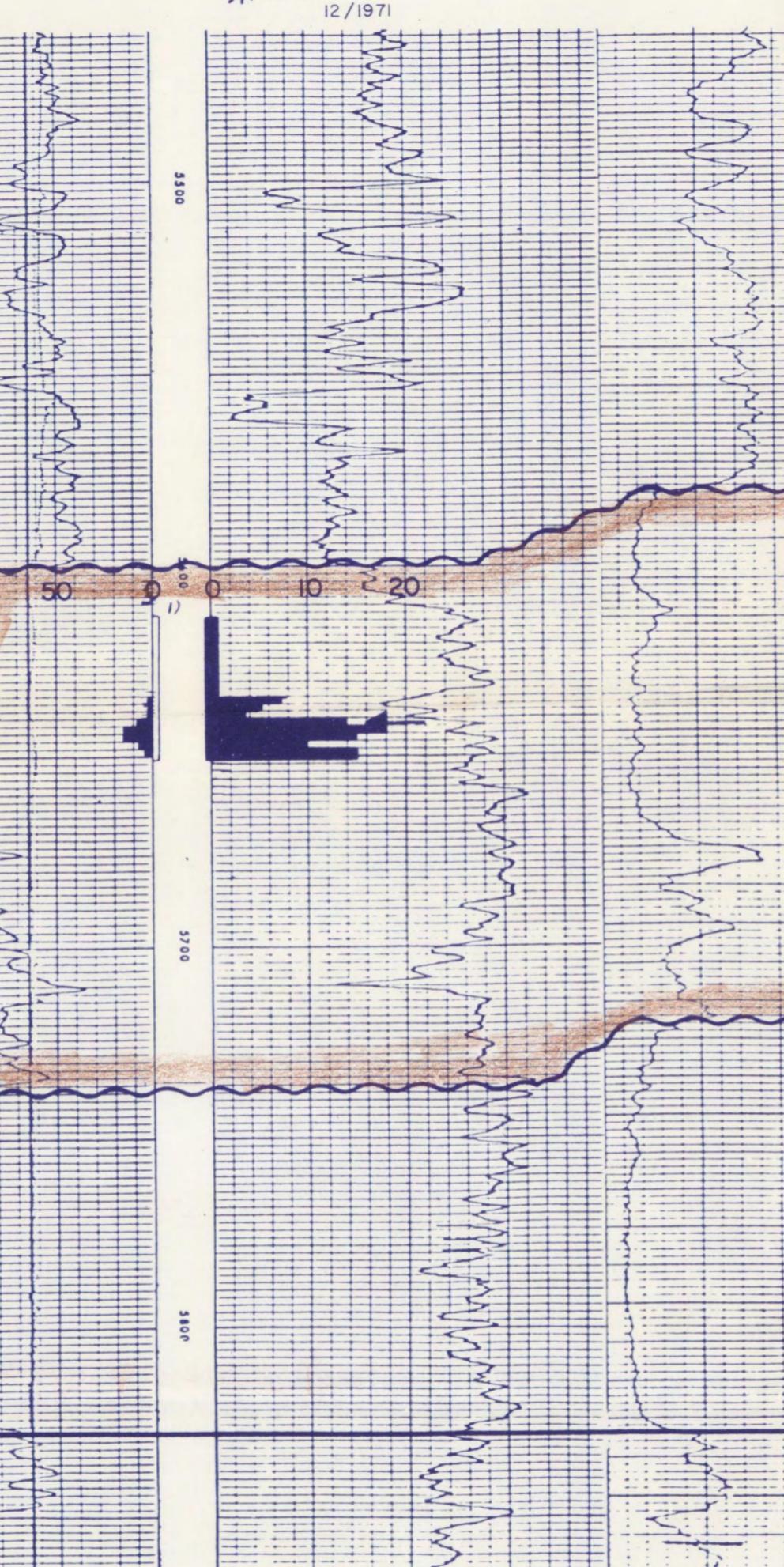
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3/1968



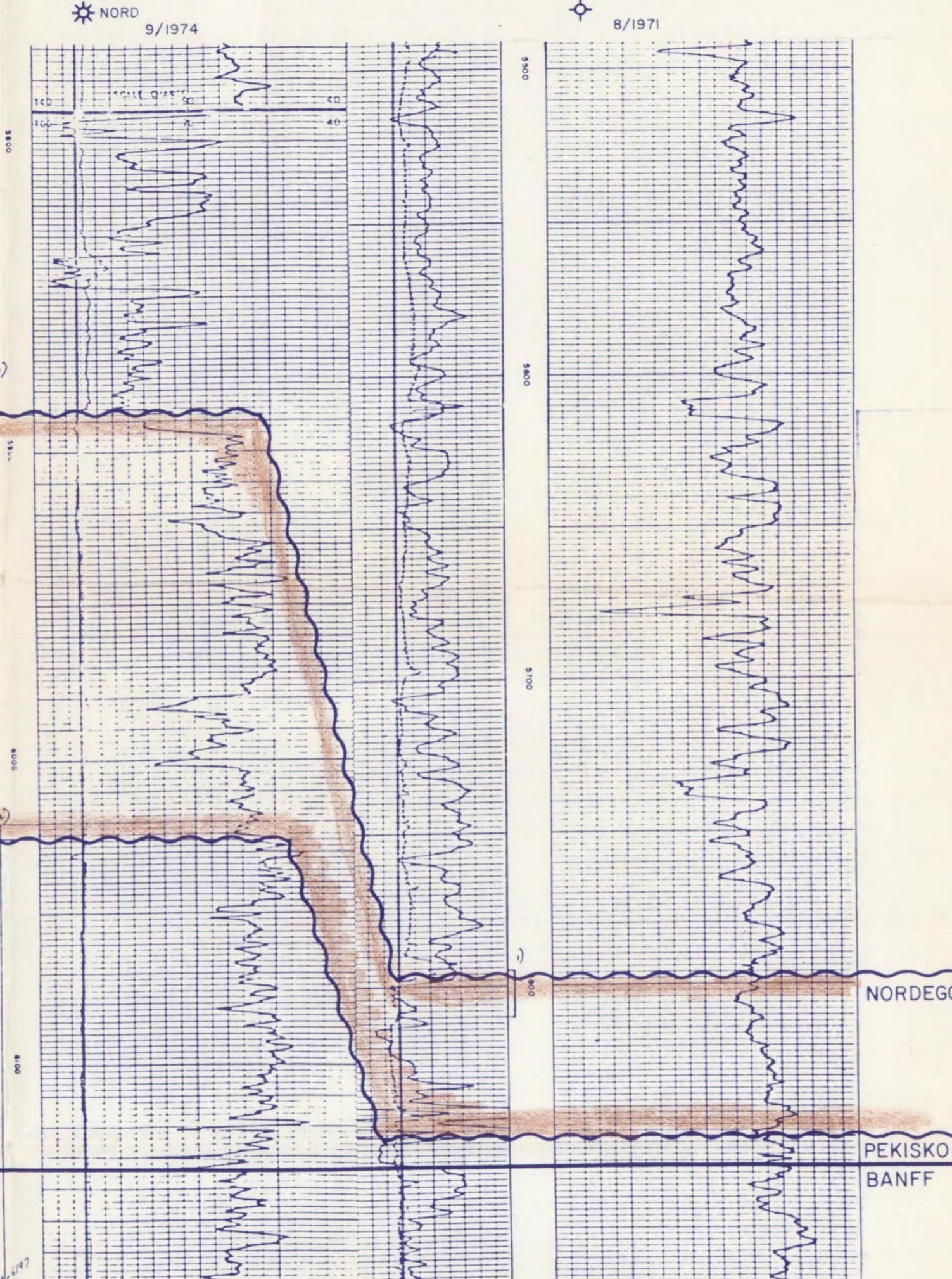
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12/1971



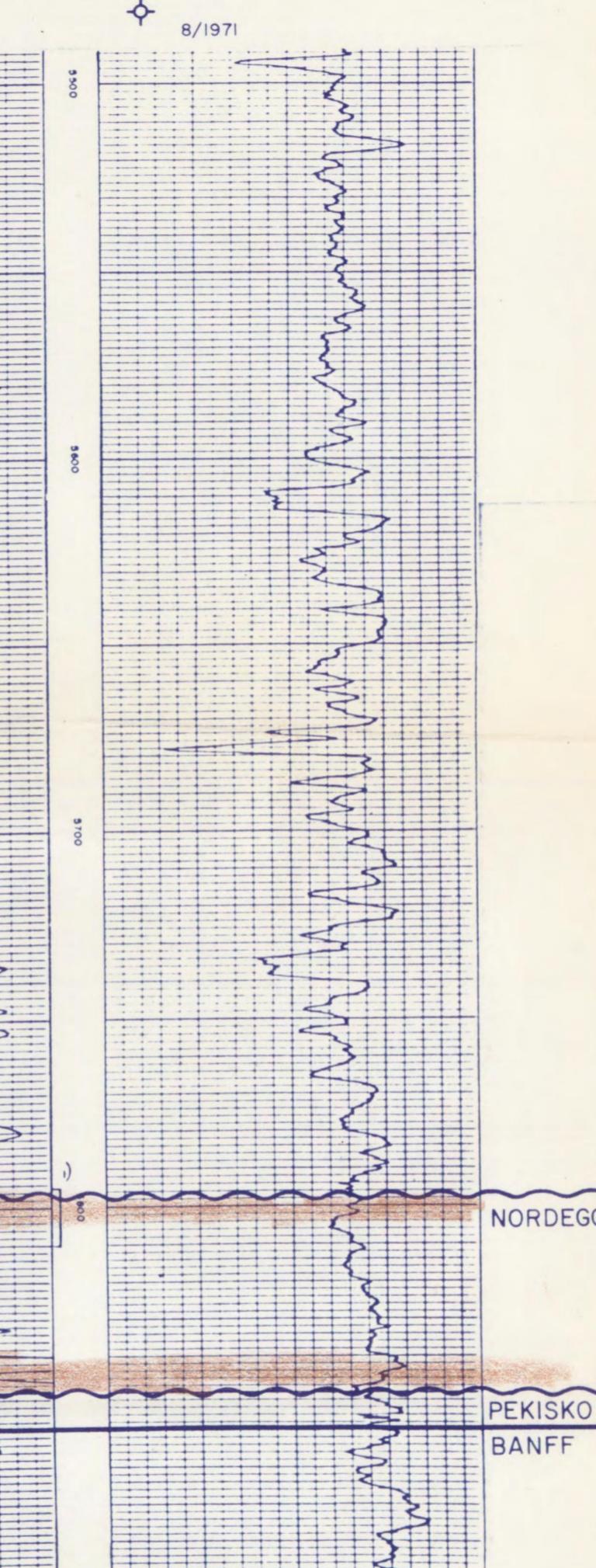
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KB 3227

9/1974

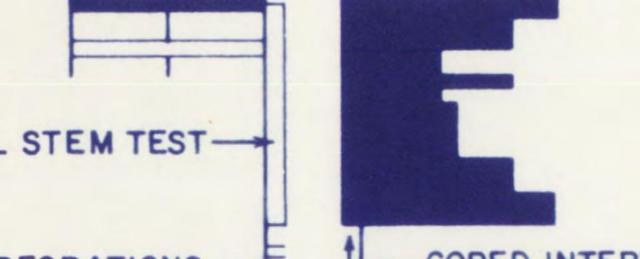
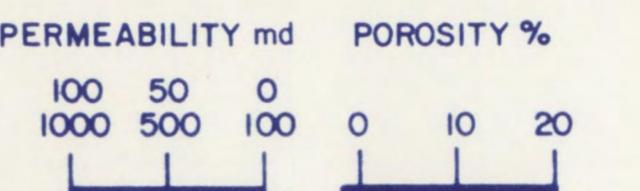
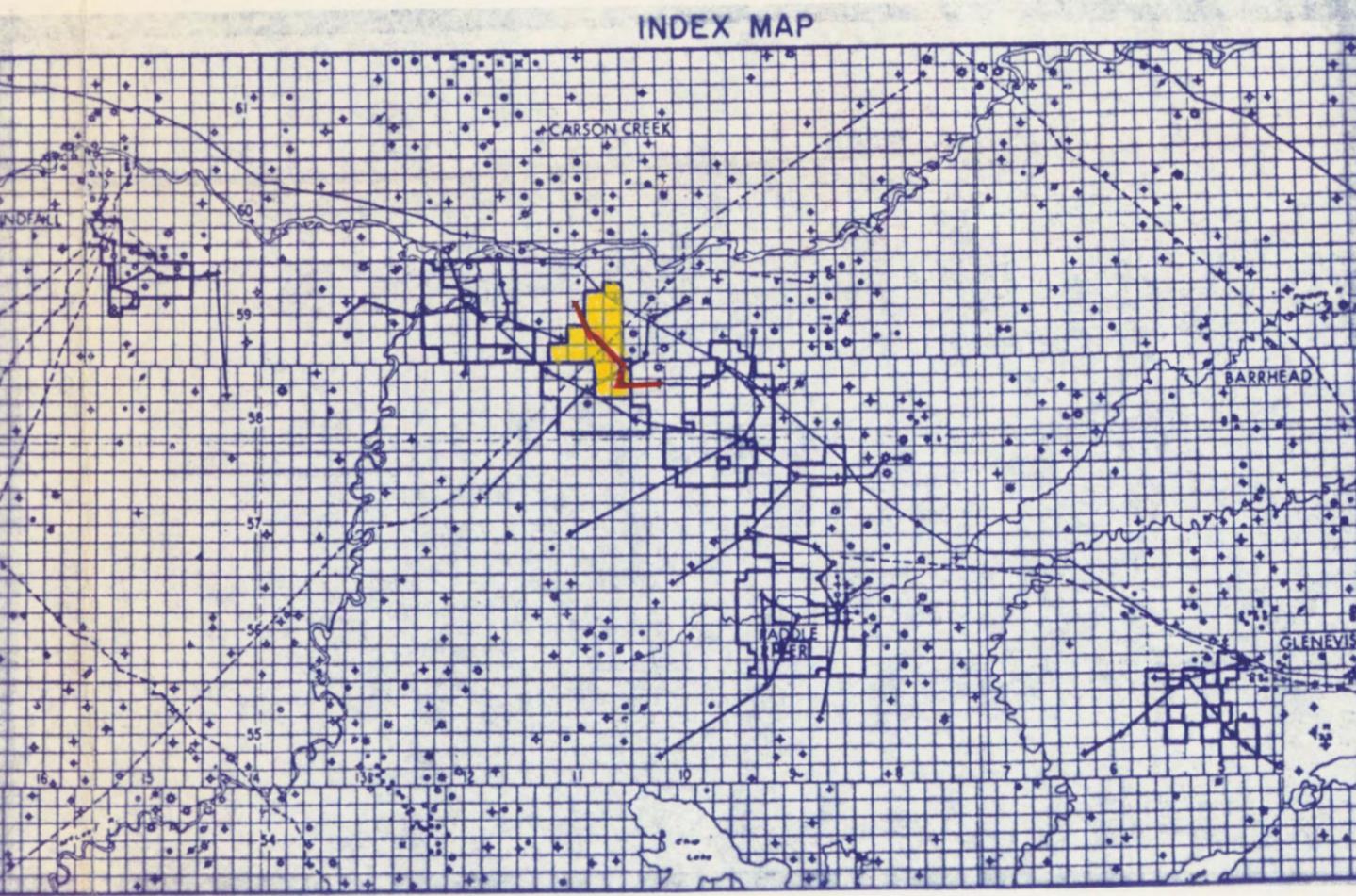


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KB 3028

8/1971



QUARTZ MINERAL EXPLORATION PERMIT NO. 6876090005
BLUERIDGE N.
NORDEGG PHOSPHORITE
STRATIGRAPHIC CROSS SECTION J-J'
Vert. Scale: 1" = 40'
Datum - Top Banff
J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976
Enclosure 2



CORED INTERVAL

← P₂O₅% - SPOT SAMPLE

DST 1) GTS-TSTM, 720' gc oil
2) 180±140 mcf/d, 100' gc oil
Perfs 5298-5305 127 bbls sw
5258-62 206 mcf/d

DST 1) GTS-TSTM, 105'm, 245'sw

← P₂O₅%
1.74

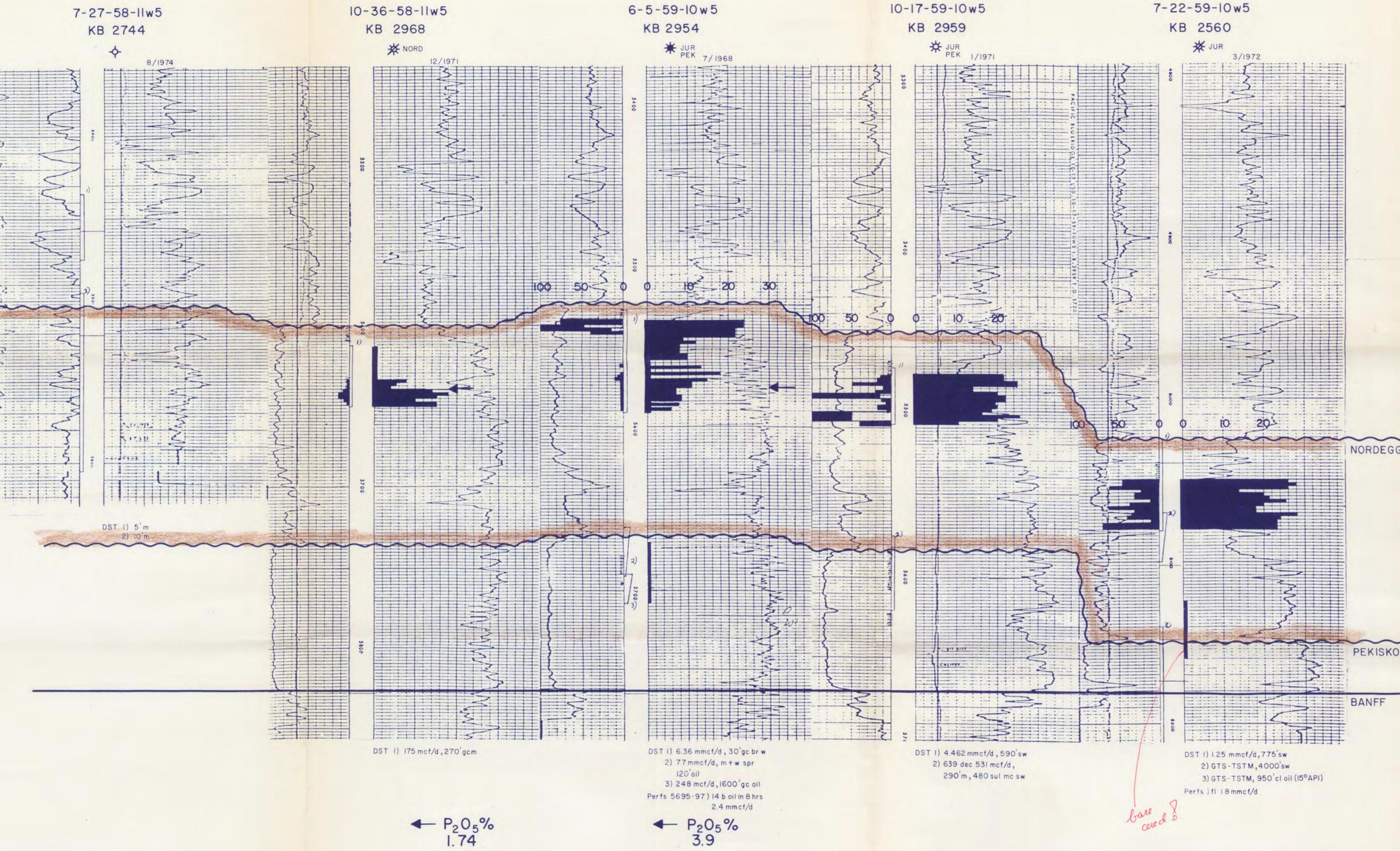
DST 1) 175 mcf/d, 4,270' gcm

2) GTS-TSTM, 280' gcm, 3870' oc br w

DST 1) 960 mcf/d, 120' br sw

2)

GTS-TSTM, 280' gcm, 3870' oc br w

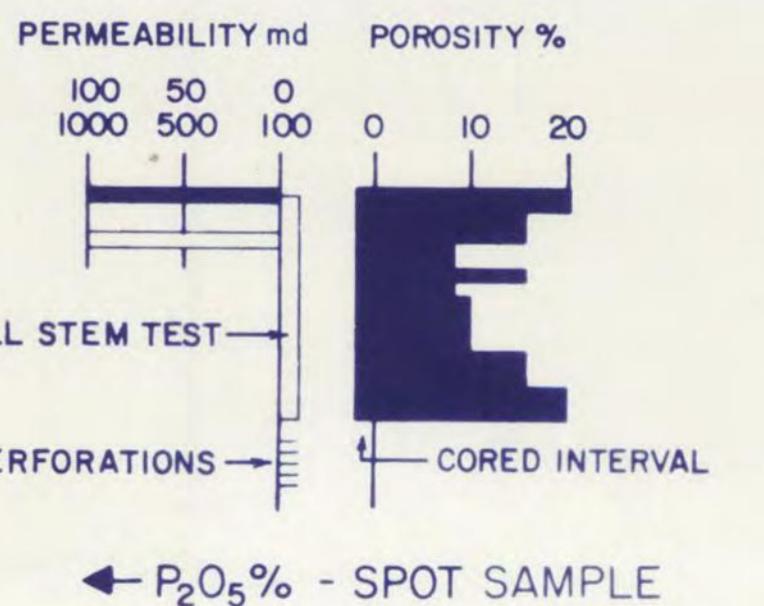
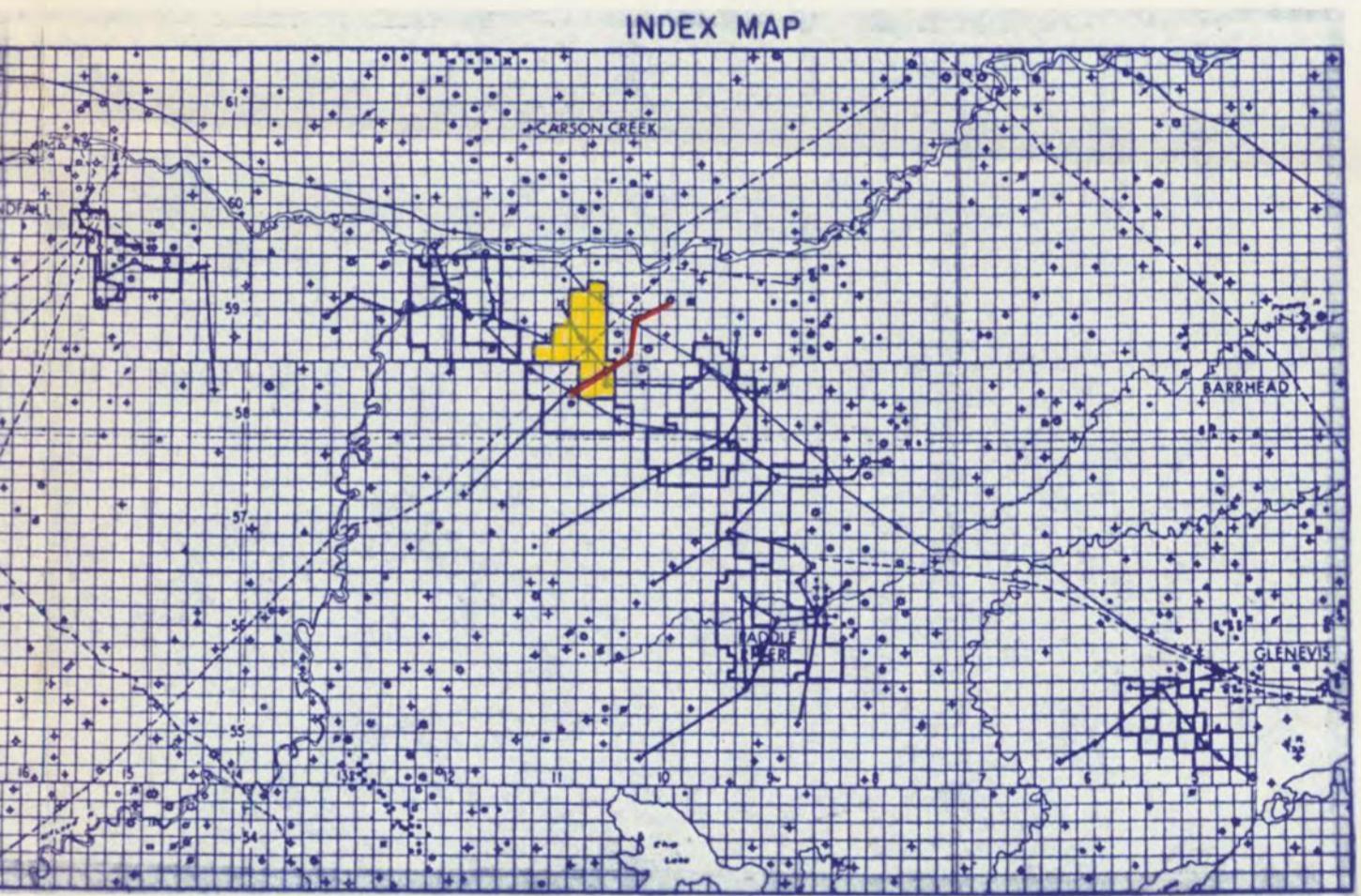


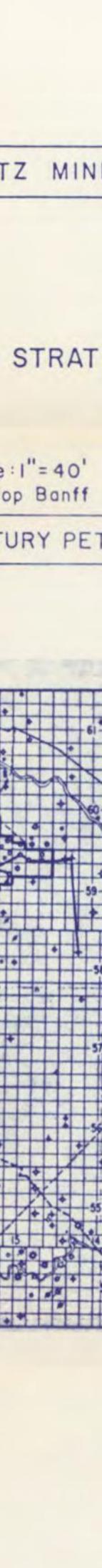
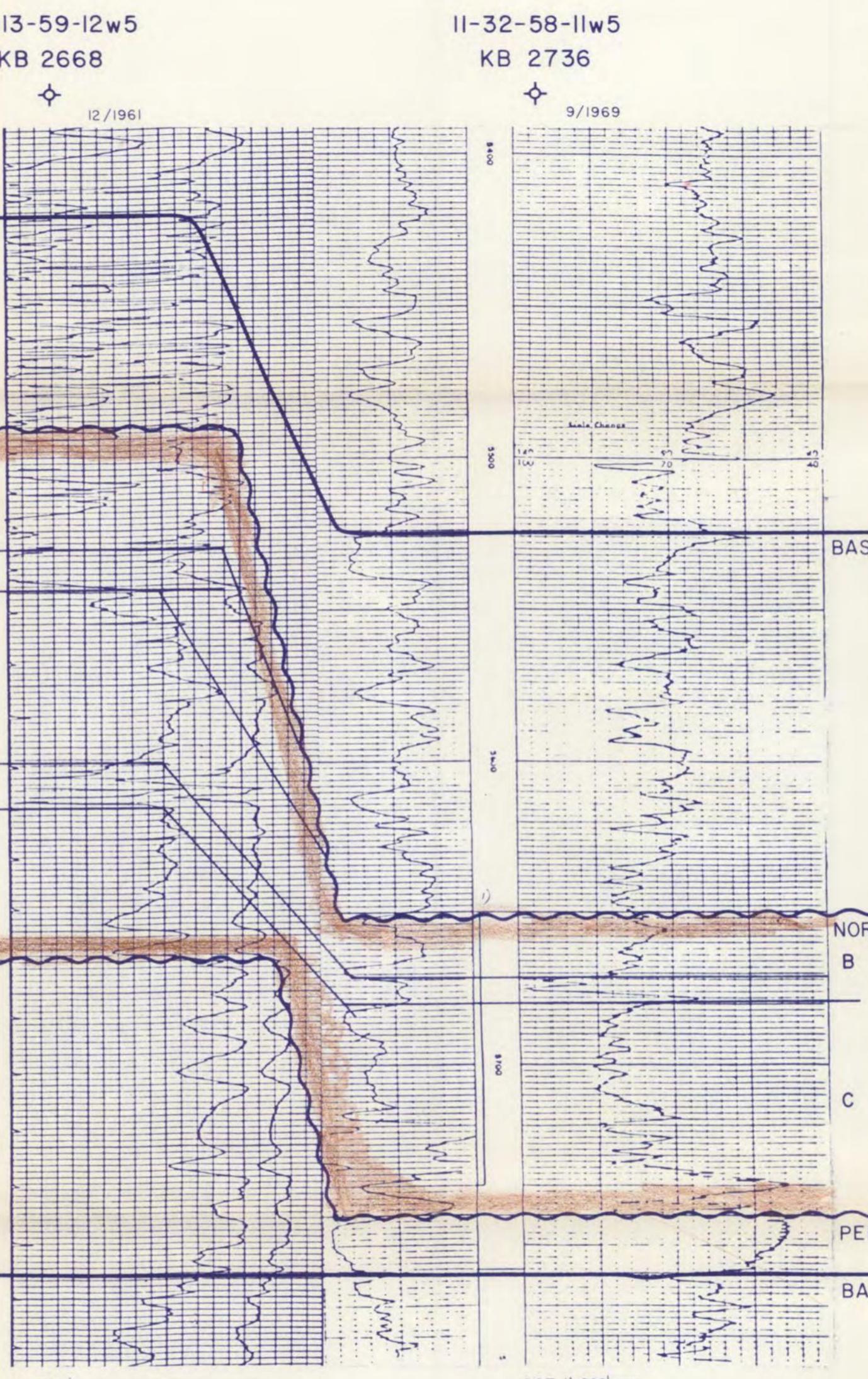
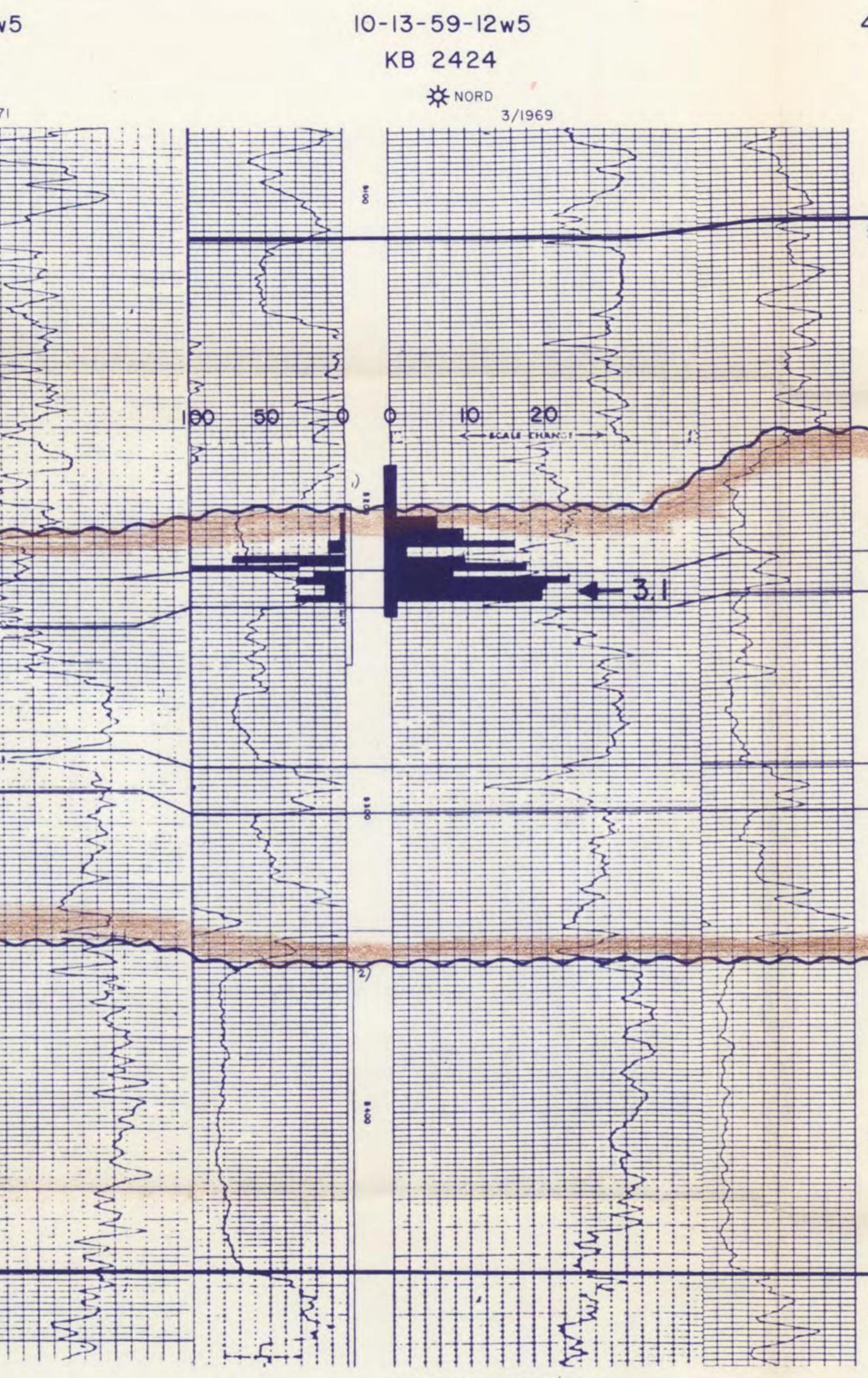
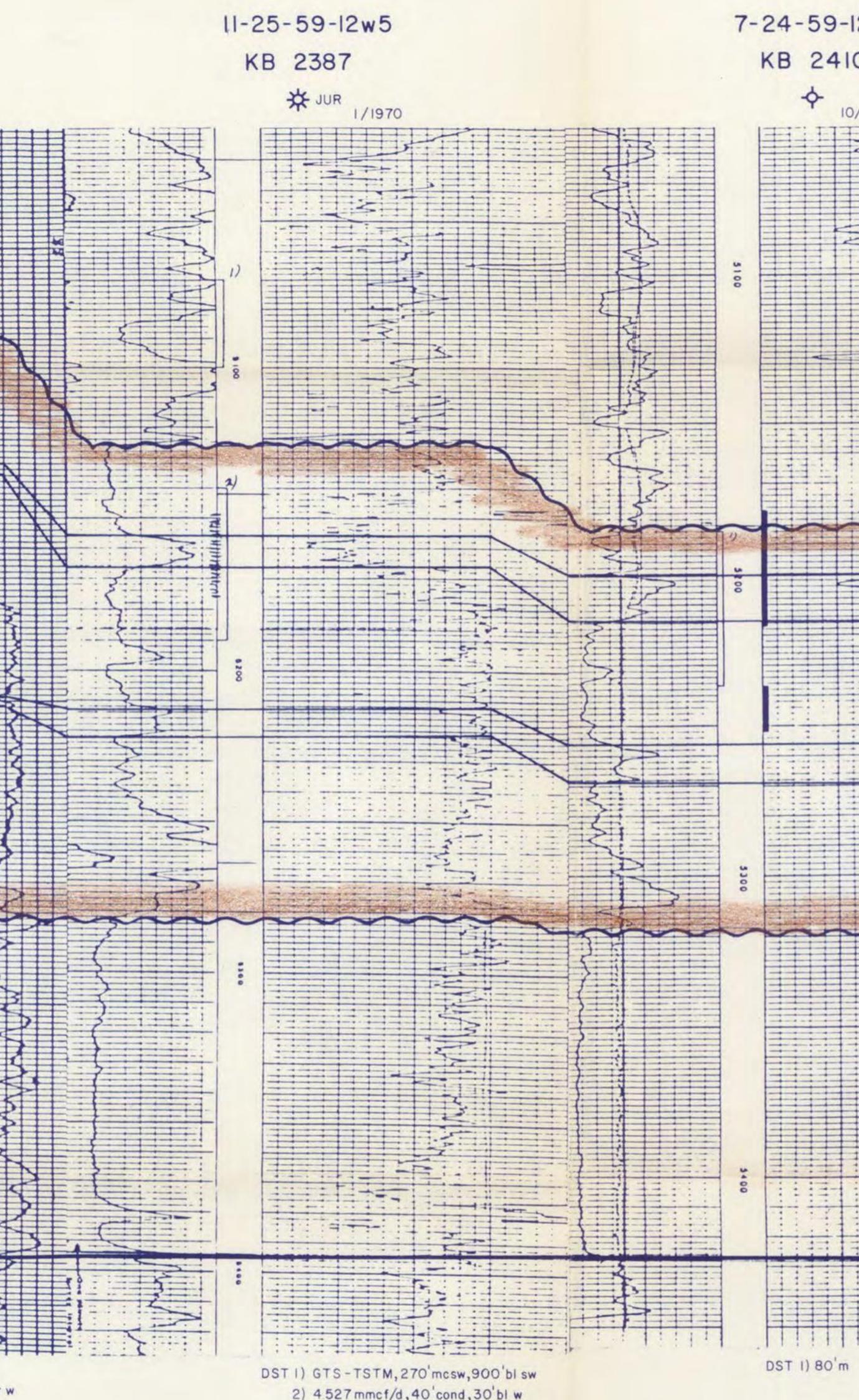
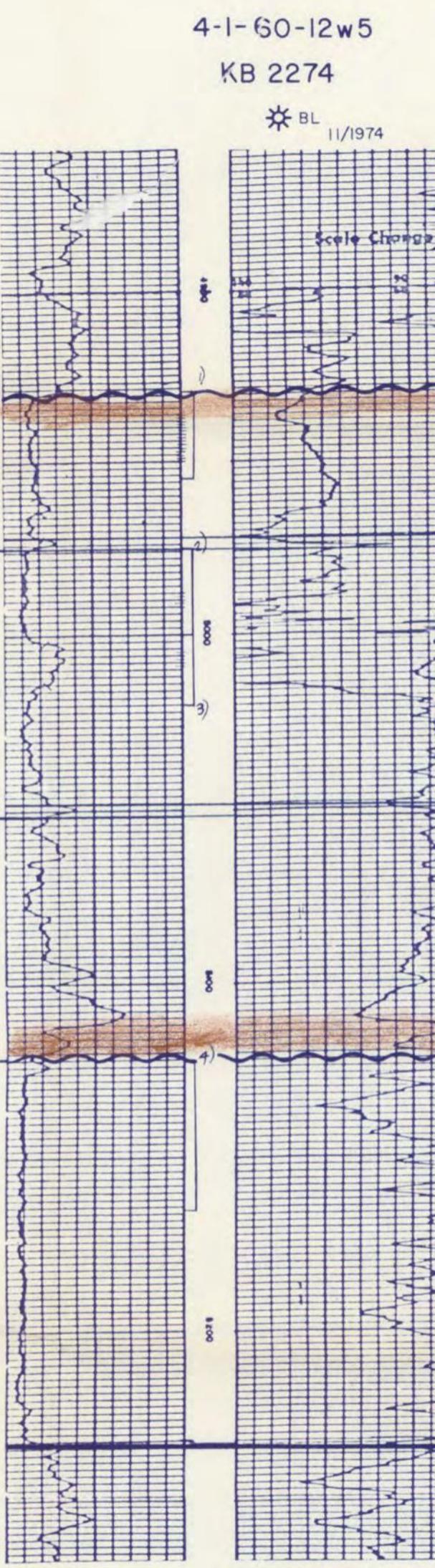
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BLUERIDGE N.

NORDEGG PHOSPHORITE
STRATIGRAPHIC CROSS SECTION K-K'

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

Enclosure 3
J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976





QUARTZ MINERAL EXPLORATION PERMIT NO. 5876090006
WHITECOURT E.
NORDEGG PHOSPHORITE
STRATIGRAPHIC CROSS SECTION F-F'
Vert. Scale: 1" = 40'
Datum - Top Banff
J.R. CENTURY PETROLEUM CONSULTANTS LTD. DEC. 1976
Enclosure 3

