

REFLECTION SEISMOGRAPH SURVEY  
TWISTED MOUNTAIN AREA OF N.W.T.  
FEB. 2, 1970 TO FEB. 16, 1970

PERMIT NO. 5590

REPORT ON THE  
REFLECTION SEISMOGRAPH SURVEY  
IN THE  
TWISTED MOUNTAIN AREA OF N.W.T.  
CONDUCTED FOR  
PACIFIC PETROLEUMS LTD.  
BY  
BEAVER GEOPHYSICAL SERVICES LTD.  
FROM  
FEBRUARY 2, 1970 TO FEBRUARY 16, 1970  
ON  
PERMIT NO. 5590

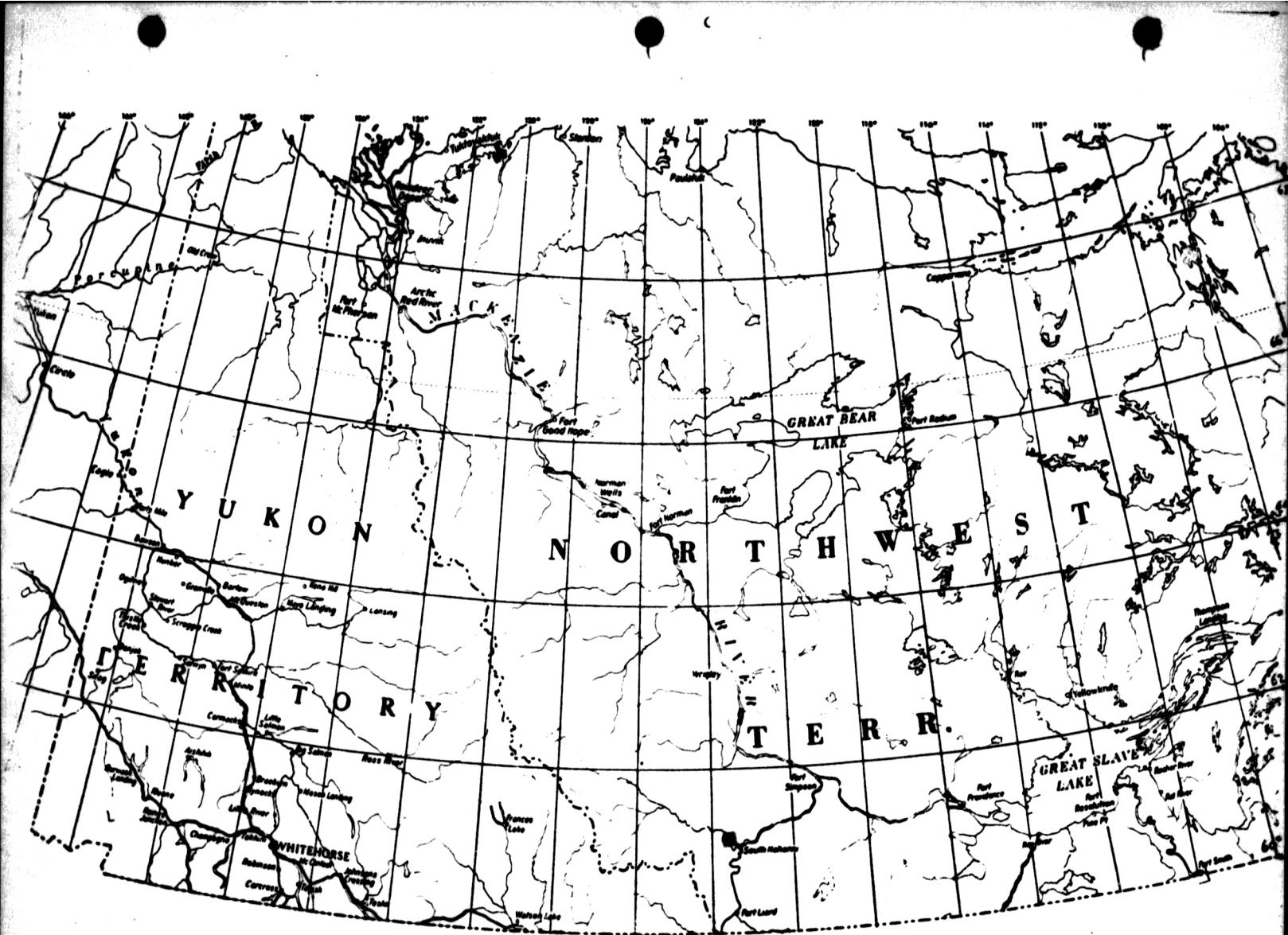


DATE: JANUARY 28, 1971

BY: S. Oczkowski

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### INTRODUCTION

A reflection seismograph survey was conducted in the Twisted Mountain area on Permit No. 5590 between February 2, 1970 and February 16, 1970. A trailer camp was established within the Permit area and access was via bush trails from Ft. Simpson, about 120 miles to the northeast, to the settlement of Nahanni Butte. The results of this survey are illustrated on maps enclosed in the attached folder.

### STATISTICAL DATA

Mobilization Data: Bulldozers moved in January 18, 1970.  
Recording Commenced: February 2, 1970.  
Recording Completed: February 14, 1970.  
Last Day on Project: February 15, 1970.  
No. of Miles Shot: 27.8  
No. of Shots: 236  
Average Miles/Day: 2.1  
No. of Days Worked: 13  
No. of Weather Days: Nil  
Instrument Type: S.I.E. PT - 800 Binary Gain  
Vehicle Type: Wheeled Truck  
No. of Drill Hours: 1459.5  
Party Manager: Peter Seiman  
No. of Personnel on Crew: 26  
Surveying Instrument: Transit  
Survey Control: Sun shots horizontal, Nahanni settlement vertical  
Radio Liason: Mobile telephone.

C.D.P. Percent: 300%

Charge Size: Average 2 1/2 lbs.

Distance Between Flags: 150 feet.

Spread Layout: 1800-0-1800

Hole Depth: 45 feet.

Sections Prepared:

- Datum - 500 feet above sea level.
- N.S.V. - 5,000 feet per second.
- Filter - 5/10 - 55/60 c.p.s. bandpass
- Decon - None

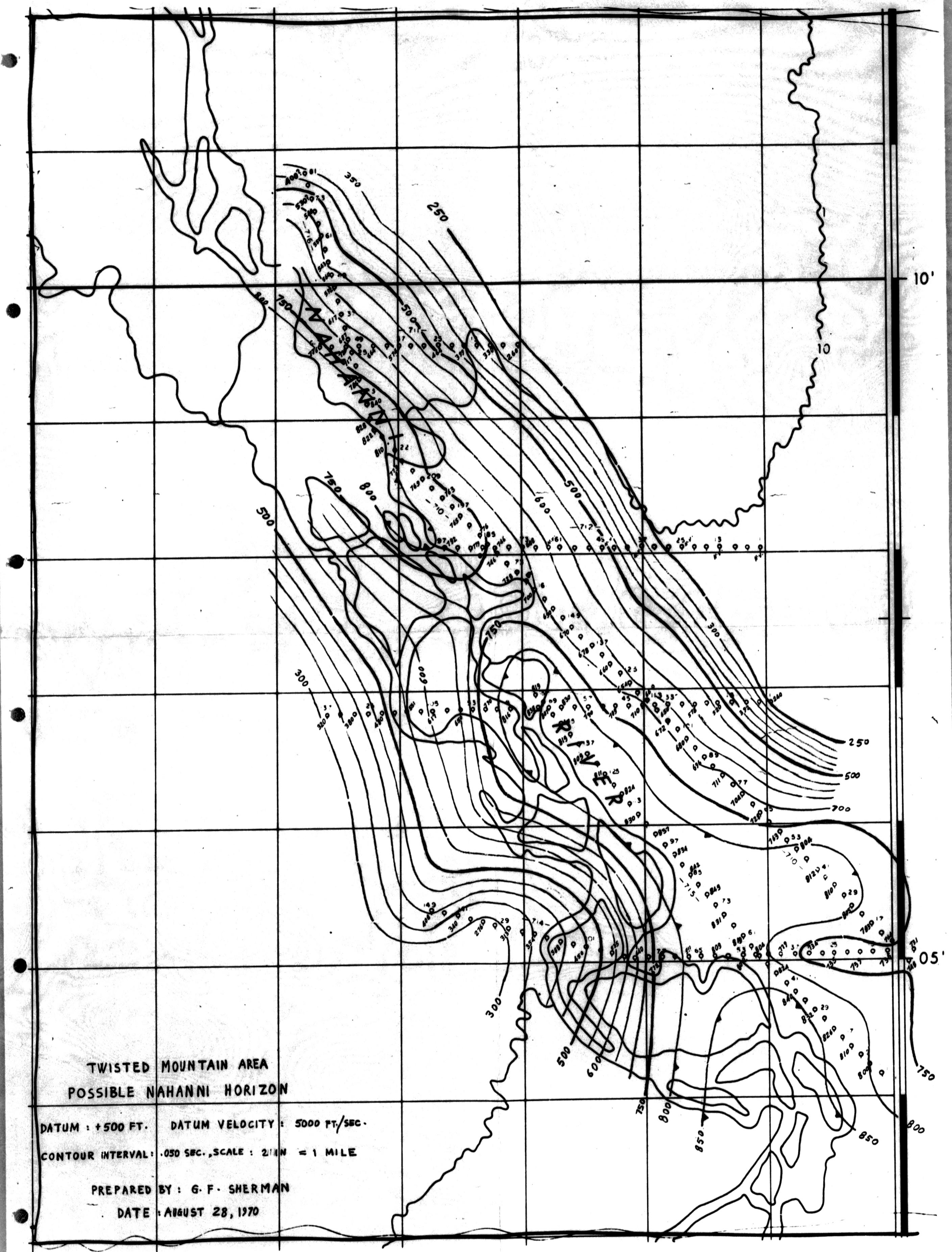
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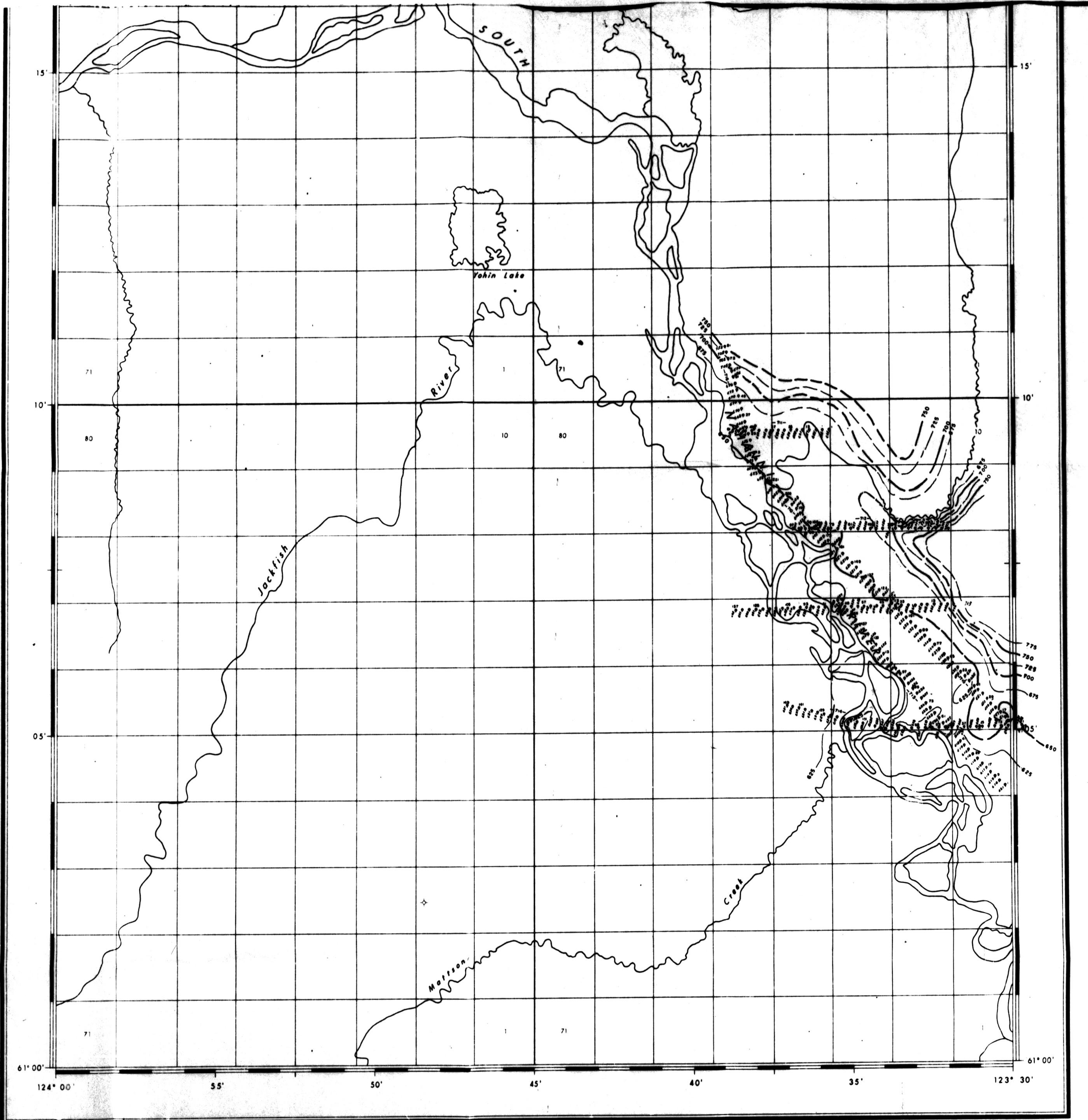
INTERPRETATION AND SUMMARY

Stacked record cross sections show that there is only one event to pick, and the "possible Nahanni Horizon" map is presented.

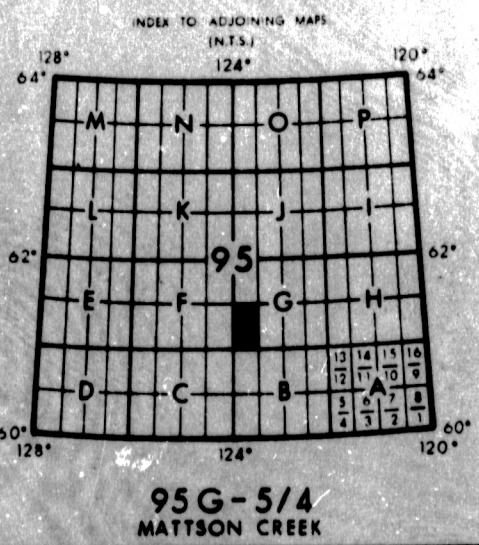
The enclosed Nahanni Horizon map illustrates anomalies which are considered significant in this area.

S. Oczkowski,  
Manager - Geophysics.





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MATTSON CREEK  
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SCALE 1:50,000

1.25 inches to 1 mile approximately

Miles 1 0 1 2 3 4 Miles  
Ft 5000 0 5000 10000 15000 20000 Ft

Meters 1000 0 1000 2000 3000 4000 5000 6000 Meters  
1 Km 0 1 Km 2 Km 3 Km 4 Km 5 Km 6 Km

North American Datum 1927

Universal

Transverse Mercator Projection

(Gauss-Kruger)

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TWISTED MOUNTAIN AREA

TOPOGRAPHY	
CONTOUR INTERVAL 25'	DATE March 1970
ELEV. CORR. VEL.	
DATUM ELEVATION:	
INTERPRETED BY:	
CONTRACTOR: BEAVER OILFIELD SERVICES LIMITED	