Office of the Supervising Mining Recorder
JAN 8 1979
WHITEHORSE
Yukon Territory

GEOPHYSICAL AND GEOCHEMICAL SURVEY REPORT

OF

RIN 1-24, KID 1-18, RIOX 1-30 AND MS 1-12 M.C.

LOCATED IN MAYO MINING DISTRICT

QUARTET LAKES AREA

MAP SHEETS 106 E/1 AND 106 E/2 N.T.S.

LAT. ~~64~~ 65° 10' N. LONG. 134° 28' W

YUKON TERRITORY

FOR

RIO ALTO EXPLORATIONS LTD.

AND

MARLINE OIL CORPORATION LTD.

1978

By

PAUL S. WHITE P.ENG.

090415

RECEIVED
2 JAN 1979
MINING RECORDER
LAND AGENT
MAYO, Y.T.
I.A. & N.D.

RECEIVED
JAN 10 1979
INSPECTOR'S OFFICE
WHITEHORSE, Y.T.

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

$17,800.00

D.P. Craig 25 Jan/79

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B.R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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APPENDICES:

REPORT ON 1978 GEOCHEMICAL AND GEOPHYSICAL SURVEY - QUARTET LAKES.

INTRODUCTION:

Rio Alto Explorations Ltd. of Calgary, Alta. are the beneficial owners of 84 mineral claims acquired by staking under the Yukon Quartz Mining Act located at Quartet Lakes Y.T. as follows:

NAME	GRANT NO.
RIOX 1-30 incl.	YA 1851-1880 incl.
KID 1-18 incl.	YA 1881-1898 incl.
MS 1-12 incl.	YA 1899-1910 incl.
RIN 1-24 incl.	YA 14799-YA14822 incl.

This Report describes and certifies expenditures on a geophysical and geochemical survey conducted on behalf of Rio Alto Explorations Ltd. and Marline Oil Corporation Ltd. during the 1978 summer exploration season, between the dates of July 15 and Sept. 1, 1978.

LOCATION AND ACCESS:

The claims are in a contiguous group northerly and adjacent to the two northernmost lakes of the 4 small lakes known as the Quartet Lakes on N.T.S. Map Sheet 106 E/1. The claim group is located approximately 120 air miles NE of the settlement of Mayo Yukon, and is accessible by winter road on an existing winter tractor trail known as the Wind River Road, or more practically, by fixed wing float equipped aircraft or by helicopter.

HISTORY OF DISTRICT

Prior to 1975, the district had been casually prospected for possible gold occurrences and for economic copper deposits. In 1975, the consulting firm of Archer, Cathro and Associates Ltd. acting for a consortium of exploration companies located and staked a number of showings of uranium mineralization

HISTORY OF DISTRICT (Continued):

and located a large number of breccia pipe zones that appear to be associated with the uranium mineralization. In February 1976, a special release by the Geological Survey of Canada on the geology of the district as it related to the newly found uranium showings led Rio Alto Explorations Ltd. and other explorationists to locate claims in the area. In 1976 a preliminary scintillometer survey and Track Etch cup regional survey was made over the claim group, and in 1977 the claims were retained by payment of fees in lieu of representation work. Marline Oil Corporation Ltd. entered into an exploration agreement with Rio Alto Explorations Ltd. in late 1977.

One of the early uranium interested exploration companies- Mountaineer Mines Ltd.- entered into exploration agreements with Pan Ocean Oil Ltd. of Calgary, Alta. and have conducted extensive prospecting, survey and drilling programs for uranium in the vicinity of Quartet Lakes and acquired mineral claims adjoining the Rio Alto group by staking in late 1978.

The Geological Survey of Canada has mapped the district at a scale of 1:250,000 and in 1976 and 1977 conducted an extensive geochemical survey regional program in north central Yukon including the Quartet Lakes area. The results of that survey were released to the public in early 1978.

REGIONAL GEOLOGY:

The geology of the district is mapped as Ho sequence of Lower Helikian or Aphebian age overlain unconformably by orange weathering algael carbonates of probable Helikian age by the G.S.C. A preliminary geological evaluation of the Rio Alto group was made in 1976 by Taiga Consultants Ltd. of Calgary, Alta., (R. Netolitzky, P. Geol.) and was included with the 1976 report of geophysical work submitted to the Mining Recorder at Mayo Y.T. as representation work during that year. In 1978, J. Davis

REGIONAL GEOLOGY (Continued):

of Taiga Consultants Ltd. spent 8 days on the property conducting basic prospecting and geological mapping functions which are not currently avaliable for inclusion with this report.

METHODS OF SURVEYS:

The following surveys were conducted in 1978 on the subject claims:

1. Line cutting (blazing and stationing) - 50 line miles
2. Scintillometer survey
3. Airborne radiometric Survey
4. Geochemical Survey - Uranium, Copper, Molybdenum, Iron.
5. RADON 200 Gas Detector survey
6. Basic prospecting of outcrop and exposed float.
7. Detailed Track Etch cup survey.

The line cutting was performed by MBW Surveys with Topofil measuring and blazing by compass. Concurrently, a hand held SRAT SPP2 NF Scintillometer survey was conducted, and geochemical samples were taken for analysis at Whitehorse Assay Office. An airborne radiometric survey was conducted over the group by Archer Cathro and Associates Ltd. at low altitude with helicopter mounted equipment in June, 1978 after the area became snow free. A radon 200 gas detector survey was attempted in August, 1978, but was abandoned due to unconformity of sequential readings in water filled holes due to permafrost melting. 79 track etch cups were placed in a detailed survey of an anomaly located by regional track etch cup placement and analysis in 1976, and retrieved three weeks later for analysis by the Terradex Corporation. Taiga Consultants Ltd. conducted a basic prospecting and mapping program, to investigate uranium bearing outcrop.

TRACK ETCH® SERVICE PROGRAM

FOR

QUARTET LAKE PROGRAM

1978

FOR

PAUL S. WHITE MANAGEMENT

Terradex Corporation
1900 Olympic Boulevard
Walnut Creek, California 94596
Phone: (415) 938-2545 Telex: 33-7793

TERRADEX

October 6, 1978

Paul S. White & Associates
P. O. Box 4550
Whitehorse, Yukon Y1A 2R8
Canada

Dear Mr. White,

I am enclosing a set of final tabulated data from your recent 79 cup Track Etch survey of the [redacted] Quartet Lakes Area. The Track Etch readings are reported in units of tracks per square millimeter (T/sq.mm) and they are normalized to equivalent 30 day exposures. The data have been tabulated in two different ways for easy use; firstly by ascending Track Etch readings and secondly, by ascending serial numbers. The readings ranged from 0.6 to 27.8 T/sq.mm and the mean of the background distribution for the area was 4.5 T/sq.mm. The standard deviation of the background mean was 2.9 T/sq.mm or 66%. All statistics on the program are also included on the attached statistics sheet.

The background mean and its standard deviation are related to shallow mineralization of uranium at ppm levels. The background mean is substantially less than the Canadian average of 11 T/sq.mm. The relatively low background could be due in part to the "melted permafrost" conditions you mention. High ranking points may be expressed in terms of "Z", the number of standard deviations above background. Rudimentary statistics imply that values with Z greater than three have a very low probability of belonging to the background distribution and hence are anomalous. The range of "Z" for the high ranking points in your survey are shown below together with the more conventional ratio to background.

Range of Z	# of Points	Range of T/sq.mm	Range of Ratio to Background
2 - 3	6	10.4 - 12.8	2.3 - 2.9
3 - 4	3	13.3 - 15.7	3.0 - 3.5
4 - 5	5	16.2 - 18.5	3.6 - 4.2
over 5	6	20.3 - 27.8	4.6 - 6.2

It is highly improbable that points with Z greater than 3 are part of the background distribution; hence they are almost certainly anomalous. In this survey 14 points have a Z greater than 3, or 17.7% of the total. This, in our experience, is a high percentage and represents a good

potential for mineralization, particularly if there is strong spatial clustering of high ranking points. The magnitude of the high ranking points is not encouraging but the values may be depressed by the ground conditions mentioned above.

No Track Etch radon contour map was prepared for this survey.

It has been a pleasure to work with you on this program and we look forward to serving you in the future.

Sincerely,

H. Ward Alter
President

HWA/kem
Enclosures

[redacted] QUARTET LAKES 10-05-78

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
47581.	4.1	
47582.	5.2	
47583.	7.5	
47584.	6.4	
47585.	4.6	
47586.	1.2	
47587.		MISSING
47588.	2.9	
47589.	5.2	
47591.	20.9	
47592.	5.2	
47593.	7.5	
47594.	16.2	
47595.	4.1	
47596.	5.2	
47597.	11.0	
47601.	10.4	
47602.	5.8	
47603.	1.2	
47604.	1.2	
47605.	20.3	
47606.	24.3	
47607.	6.4	
47608.	1.2	
47609.	4.6	
47611.	2.3	
47612.	11.6	
47613.	13.3	
47614.	1.7	
47615.	2.3	NOT ON DATA SHEET
47616.	17.4	NOT ON DATA SHEET
47617.	4.1	NOT ON DATA SHEET
47618.	22.0	
47619.	12.8	
47620.	5.8	
47621.	1.2	
47622.	2.3	
47623.	27.8	
47624.	9.3	
47625.		MISSING
47626.	15.7	
47627.	5.2	
47628.	1.7	
47631.	4.1	
47632.	1.7	
47633.	4.1	
47634.	1.7	
47635.	2.9	
47636.	2.3	
47637.	5.8	

[redacted] QUARTET LAKES 10-05-78

CUP SERIAL NUMBER	DETECTOR READING (T/SQ. MM.)	FIELD NOTES AND DATA
47638.	13. 9	
47639.	16. 8	
47640.	2. 3	
47641.	8. 7	
47642.	1. 7	
47643.	18. 5	
47644.	4. 6	
47645.	1. 7	
47646.	4. 1	
47647.	2. 9	
47648.	20. 3	
47651.	17. 4	
47652.	2. 3	
47653.	1. 2	
47654.	5. 8	
47655.	0. 6	
47656.	1. 7	
47657.	4. 1	
47658.	9. 9	
47659.	12. 8	
47660.	3. 5	
47671.	5. 8	
47672.	9. 9	
47673.	1. 7	
47674.	5. 8	
47675.	2. 3	
47676.	9. 9	
47677.	1. 2	
47678.	4. 1	
47679.	11. 0	
47680.	2. 9	

([redacted] QUARTET LAKES 10-05-78

TRACK ETCH SURVEY RESULTS AND STATISTICS

VALUES GIVEN IN T/SQ. MM. NORMALIZED TO 30 DAY EXPOSURE

NO. USEFUL PTS. : 79

HIGH (T/SQ. MM.): 27. 8

LOW (T/SQ. MM.): 0. 6

BACKGROUND MEAN (T/SQ. MM.): 4. 5

STD. DEVIATION OF BKG. MEAN (T/SQ. MM.): 2. 9

RELATIVE STD. DEVIATION (PERCENT): 66. 0

HIGH RANKING POINTS

RANGE OF Z	NO. OF PTS.	RANGE OF T	RANGE OF RATIO TO BACKGROUND
2 - 3	6	10. 4 - 12. 8	2. 3 - 2. 9
3 - 4	3	13. 3 - 15. 7	3. 0 - 3. 5
4 - 5	5	16. 2 - 18. 5	3. 6 - 4. 2
OVER 5	6	20. 3 - 27. 8	4. 6 - 6. 2

NO. OF PTS. ABOVE Z = 3: 14

PERCENT OF TOTAL PTS. : 17. 7

(Z IS THE NUMBER OF STD. DEVIATIONS ABOVE BKG. MEAN)

[redacted] QUARTET LAKES 10-05-78

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
	47587.	MISSING
	47625.	MISSING
0.6	47655.	
1.2	47603.	
1.2	47586.	
1.2	47621.	
1.2	47677.	
1.2	47604.	
1.2	47653.	
1.2	47608.	
1.7	47632.	
1.7	47614.	
1.7	47628.	
1.7	47634.	
1.7	47656.	
1.7	47642.	
1.7	47673.	
1.7	47645.	
2.3	47636.	
2.3	47622.	
2.3	47640.	
2.3	47615.	NOT ON DATA SHEET
2.3	47652.	
2.3	47675.	
2.3	47611.	
2.9	47680.	
2.9	47647.	
2.9	47635.	
2.9	47588.	
3.5	47660.	
4.1	47581.	
4.1	47646.	
4.1	47678.	
4.1	47633.	
4.1	47595.	
4.1	47657.	
4.1	47631.	
4.1	47617.	NOT ON DATA SHEET
4.6	47609.	
4.6	47644.	
4.6	47585.	
5.2	47589.	
5.2	47592.	
5.2	47582.	
5.2	47596.	
5.2	47627.	
5.8	47654.	
5.8	47602.	
5.8	47620.	
5.8	47637.	

[redacted] QUARTET LAKES 10-05-78

DETECTOR READING (T/SQ. MM.)	CUP SERIAL NUMBER	FIELD NOTES AND DATA
5. 8	47674.	
5. 8	47671.	
6. 4	47607.	
6. 4	47584.	
7. 5	47583.	
7. 5	47593.	
8. 7	47641.	
9. 3	47624.	
9. 9	47676.	
9. 9	47658.	
9. 9	47672.	
10. 4	47601.	
11. 0	47597.	
11. 0	47679.	
11. 6	47612.	
12. 8	47659.	
12. 8	47619.	
13. 3	47613.	
13. 9	47638.	
15. 7	47626.	
16. 2	47594.	
16. 8	47639.	
17. 4	47651.	
17. 4	47616.	NOT ON DATA SHEET
18. 5	47643.	
20. 3	47605.	
20. 3	47648.	
20. 9	47591.	
22. 0	47618.	
24. 3	47606.	
27. 8	47623.	

DATE. SEPTEMBER 9, 1978.

FILE NO. 164-1

ASSAY CERTIFICATE

WHITEHORSE ASSAY OFFICE LTD.
BOX 4518 WHITEHORSE Y. T.
PHONE 667 2694 Y1A 2R8

SAMPLE RECEIVED FROM MR. P. WHITE

SAMPLE NO.	GOLD Oz. Per Ton	SILVER Oz. Per Ton	URANIUM U_3O_8					
NO MARK			.07					

ASSAYER. GEO. SPALDING

(1)

WHITEHORSE ASSAY OFFICE
BOX ~~[illegible]~~ 4518
WHITEHORSE, YUKON

Samples from: PAUL S. WHITE MANAGEMENT Lot. No.: A-2043-320

ALL RESULTS - P.P.M.

SAMPLE #	Cu	Fe	Mo	SAMPLE #	Cu	Fe	Mo
L6 @ 00BL	12	> 2%	2	LVIII @ E8	44	> 2%	1
L6 - 4W	12	> 2%	1	-12E	40	> 2%	2
-8W	12	1-2%	2	-15	40	> 2%	2
-12W	44	> 2%	2	L8 @ 00 → W	6	> 2%	2
-16W	20	1-2%	2	@ 4W	28	1-2%	2
BETWEEN 16W & 20W NO #	36	> 2%	2	-8W	24	> 2%	4
L6 -20W	32	> 2%	2	-12W	36	> 2%	2
LVI @ 00	52	> 2%	1	-15W	36	> 2%	3
@ 3W	12	1-2%	1	19+50W	60	> 2%	3
-10W	36	> 2%	4	-22W	40	> 2%	2
-3E	28	6000	2	-25W	36	> 2%	3
-6E	60	> 2%	1	-28W	124	2600	2
-7E	40	1-2%	1	-30W	12	> 2%	2
-9E	4	3800	1	L8 @ 00	8	> 2%	1
-12E	40	> 2%	2	@ 5E	12	> 2%	2
LVI -15E	12	1-2%	2	-10E	24	5200	2
LVII @ 4W	68	> 2%	2	-15E	12	1-2%	2
-7W	16	> 2%	2	-20E	12	> 2%	3
@ 10W	44	1-2%	1	-25E	36	3600	2
LVII -00	36	> 2%	1	-30E	36	5600	2
L7 @ 4W	16	1-2%	2	-35E	32	1-2%	1
-8W	24	1-2%	1	-40E	72	> 2%	2
-12W	40	> 2%	1	L8 @ 4500	36	> 2%	1
-16W	32	> 2%	2	LIX 0W	16	8800	2
-19W	8	> 2%	1	-4W	12	> 2%	2
-22W	42	> 2%	1	-7W	44	> 2%	1
@ 25W	20	> 2%	2	-10W	20	1-2%	2
-28W	8	1-2%	2	-4E	20	1-2%	2
L7 -30W	8	> 2%	2	-8E	44	> 2%	3
LVII @ 3E	28	> 2%	TR	-12E	40	1-2%	3
-6E	36	1-2%	2	LIX -15E	40	> 2%	3
-10E	28	> 2%	1	L9 -00W	16	8000	1
-12E	36	1-2%	1	-4W	44	1-2%	2
-15E	8	4100	2	-8W	40	1-2%	3
L7 @ 00	16	8200	4	-12W	44	> 2%	1
LVIII @ 7W	8	4800	2	-16W	36	> 2%	2
@ 10W	24	> 2%	2	-18W	12	1700	I.S.
ON 00	36	> 2%	2	-21W	44	> 2%	2
@ 4E	20	> 2%	2	BETWEEN 21W & 28W NO #	24	> 2%	2
LVIII - 4E	40	> 2%	2	L9 -28W	18	1-2%	1

> - GREATER THAN I.S. - INSUFFICIENT SAMPLE

Date: September 5, 1972 Assayer: K. Hoyland

71-350 BP

WHITEHORSE ASSAY OFFICE
BOX ~~[illegible]~~ 4518
WHITEHORSE, YUKON

Samples from: Paul S. White Management Lot. No.: A-2043-320 Page 2

SAMPLE #	Cu	Fe	Mo	SAMPLE #	Cu	Fe	Mo
L9- 60W	100	1-2%	3	L11- 45E	32	>2%	2
L9 @ 00E	40	1-2%	2	L12- 00E	16	1-2%	3
-5E	48	>2%	2	-5E	8	1300	2
-10E	12	1-2%	3	-10E	36	>2%	3
-15E	12	1-2%	2	-15E	28	>2%	3
-20E	12	>2%	4	-20E	44	>2%	3
-25E	28	>2%	7	-25E	76	>2%	6
-30E	20	1-2%	3	-29E	8	5200	3
-35E	32	>2%	2	-31E	52	1-2%	3
-40E	16	1-2%	3	-35E	28	>2%	2
L9 -45E	36	1-2%	3	-40E	12	8000	1
L10 - 4W	36	>2%	3	-45E	20	1-2%	3
-8W	36	>2%	2	-51E	20	1-2%	2
-12W	32	>2%	2	-55E	36	>2%	3
-16W	44	>2%	3	-60E	20	2200	2
-20W	10	>2%	3	-65E	24	5000	2
-22W	16	1-2%	2	L12 -70E	20	4800	2
-25W	20	>2%	2	L13- 00E	28	1-2%	2
-28W	4	>2%	3	- 5E	36	>2%	2
-30W	44	>2%	2	-10E	16	2000	2
L10 @ 00	36	>2%	2	-15E	24	2800	1
L10- 00E	24	>2%	2	-20E	40	>2%	2
-5E	32	>2%	2	-25E	16	1-2%	2
-10E	36	>2%	2	-30E	20	1-2%	2
-15E	16	1-2%	2	-35E	20	1-2%	2
-20E	20	1-2%	1	-40E	20	3700	3
-25E	4	1-2%	3	-45E	28	1-2%	1
-30E	64	>2%	2	-50E	28	1-2%	2
-35E	44	3200	3	-55E	24	1-2%	2
-40E	36	10,000	3	-60E	36	>2%	2
L10 -45E	48	4500	3	-65E	40	>2%	2
L11 - 00E	36	>2%	3	L13 -70E	20	1-2%	2
-5E	32	7500	3	L13 -75E L14- 5W	12 20	4200 1-2%	1 2
-10E	24	7500	3	-10W	36	>2%	3
-15E	36	>2%	4	-15W	64	>2%	1
-20E	28	1-2%	3	-20W	40	1-2%	3
-25E	28	8300	3	-25W	44	1-2%	2
-30E	12	1-2%	3	-30W	INSUFF.	SAMPLE	2
-35E	20	1-2%	2	-35W	16	1-2%	1
L11 -40E	16	7000	3	L14 -40W	32	7200	2

Date: September 5, 1978. Assayer: K. Hoyland

WHITEHORSE ASSAY OFFICE
BOX [redacted] 4518
WHITEHORSE, YUKON

Samples from: Paul S. White Management Lot. No.: A-2043-320 Page 3

SAMPLE #	Cu	Fe	mo	SAMPLE #	Cu	Fe	mo
L14- 45W	28	1-2%	2	L16- 40W	52	>2%	1
-00E	24	1-2%	1	-45W	16	2800	2
-5E	28	2400	2	-50W	20	6800	1
-10E	24	2800	2	-55W	36	>2%	1
-15E	36	1-2%	3	-60W	28	1-2%	2
-50E	28	1-2%	3	L16 -65W	32	1-2%	I.S.
-65E	56	>2%	2	L17- 5W	30	1-2%	TR
-70E	36	>2%	2	-10W	32	1-2%	TR
L14 @ 75E	36	>2%	1	-15W	32	3500	1
L15 - 5W	32	1-2%	2	-20W	44	>2%	1
-10W	16	1-2%	2	-25W	24	>2%	2
-15W	44	1-2%	1	-30W	52	>2%	3
-20W	36	1-2%	1	-35W	20	1-2%	6
-25W	24	1-2%	2	-40W	36	1-2%	2
-30W	32	>2%	2	-45W	28	1-2%	1
-35W	36	>2%	2	-50W	40	3000	2
-40W	44	>2%	1	-55W	20	5300	5
-45W	32	>2%	2	-60W	40	>2%	1
-00E	20	3100	1	-65W	28	1-2%	1
-5E	36	>2%	2	-70W	24	10000	1
-10E	28	7300	2	-75W	44	>2%	1
-15E	28	4500	2	-80W	20	1-2%	2
-20E	12	1-2%	1	-85W	32	10000	1
-25E	24	>2%	1	-90W	24	5800	2
-32E	164	1-2%	2	L17 -95W	20	6000	1
-35E	20	4500	1	L17 @ 00	12	2000	1
-40E	12	5500	1	@ 5E	24	1-2%	2
-45E	6	1140	1	-10E	24	>2%	1
-50E	20	1-2%	2	-15E	44	>2%	TR
-55E	52	8600	1	-20E	20	10000	2
-60E	40	>2%	1	-25E	8	2400	2
-65E	60	>2%	2	-30E	20	1-2%	2
L15 -67E	36	>2%	1	-35E	16	4000	2
L16- 5W	40	1-2%	1	-40E	28	7800	2
-10W	32	1-2%	1	-45E	28	1-2%	2
-15W	40	>2%	TR	-50E	28	1-2%	1
-20W	32	1-2%	1	@ 55E	36	>2%	1
-25W	36	>2%	1	-66E	32	1-2%	2
-30W	40	1-2%	1	L17 -69E	16	>2%	2
L16 -35W	44	1-2%	1	L18 @ 00	24	>2%	2

Date: September 5, 1978 Assayer: K. Hoyland

71-350 BP

WHITEHORSE ASSAY OFFICE
BOX ~~556~~ 4518
WHITEHORSE, YUKON

Samples from: PAUL S. WHITE MANAGEMENT Lot. No.: A-2043-320 PAGE 4

SAMPLE #	Cu	Fe	Mo	SAMPLE #	Cu	Fe	Mo
L18- 5W	24	6800	2	L19- 40W	24	5500	I.S.
-10W	20	1-2%	2	-45W	40	>2%	2
-15W	40	1-2%	TR	-50W	48	>2%	1
-20W	36	1-2%	1	-55W	60	>2%	1
-25W	68	>2%	5	-60W	44	1-2%	2
-30W	24	1-2%	1	-65W	44	>2%	1
-35W	24	5900	1	-70W	20	>2%	1
-40W	56	>2%	2	-75W	32	1-2%	2
-50W	20	3400	1	-80W	36	1-2%	TR
-55W	24	7600	2	-85W	48	>2%	2
-60W	36	1-2%	1	-90W	48	>2%	1
-65W	16	1400	3	L19 -95W	24	>2%	1
-70W	12	1-2%	1	L19 @ 00	40	1-2%	2
-75W	36	1-2%	1	-5E	44	>2%	1
-80W	36	1-2%	2	-10E	28	>2%	TR
-85W	12	1-2%	1	L19 -15E	12	1-2%	1
-90W	44	>2%	1	L20- 5W	44	7400	1
L18 -92W	72	>2%	2	-10W	32	2600	TR
L18 @ 5E	12	2300	1	-15W	28	>2%	1
-10E	15	3750	1	-20W	20	5800	TR
-15E	32	1-2%	1	-25W	20	5000	TR
-20E	36	>2%	1	-30W	56	1-2%	2
-25E	24	4500	2	-35W	44	>2%	1
-30E	12	1100	1	-40W	32	>2%	2
-35E	52	1-2%	3	-45W	32	>2%	2
-40E	32	>2%	1	-50W	32	6300	2
-45E	28	6800	2	-55W	12	1300	I.S.
-50E	28	3100	I.S.	-60W	20	3400	2
-55E	40	1-2%	2	-65W	32	>2%	2
-60E	36	1-2%	1	-70W	20	3600	1
-65E	28	1-2%	1	-75W	20	1-2%	2
-70E	40	1-2%	TR	-80W	36	1-2%	1
L18 -75E	16	2200	1	-85W	40	3700	1
L19- 5W	48	>2%	TR	-90W	28	9400	2
-10W	28	>2%	1	L20 -95W	16	>2%	2
-15W	40	1-2%	2	L20 @ 00	52	1-2%	3
-20W	36	3200	1	-5E	60	1-2%	2
-25W	12	8300	1	-10E	16	4400	2
-30W	20	5000	1	L20 -15E	176	9400	2
L19 -35W	44	>2%	1				

Date: September 5, 1978. Assayer: K. Hoyland

71-350 BP

WHITEHORSE ASSAY OFFICE
BOX ~~F6~~ 4518
WHITEHORSE, YUKON

Samples from: PAUL S. WHITE MANAGEMENT Lot. No.: A-2043-320

SAMPLE #	P.P.M. U			SAMPLE #	P.P.M. U		
L6 @ 00BL	TR			L8- 8W	TR		
-4W	TR			12W	.4		
-8W	TR			15W	TR		
-12W	TR			19+50W	.8		
L6 -16W	TR			22W	.2		
No # BETWEEN 16W + 20W	.4			25W	.8		
20W	.4			30W	.4		
LVI @ 00	.8			@ 00	TR		
3W	TR			-5E	TR		
10W	TR			15E	TR		
@ 6E	TR			20E	.8		
7E	TR			35E	2.2		
12E	.2			40E	TR		
LVI - 15E	.4			L8 @ 4500	TR		
LVII @ 4W	.8			L1X 4W	TR		
7W	TR			7W	TR		
10W	.8			10W	TR		
LVII @ 00	TR			-8E	TR		
L7 @ 4W	TR			12E	.4		
8W	TR			15E	TR		
12W	TR			L9- 4W	TR		
16W	TR			8W	TR		
19W	TR			12W	2		
22W	TR			16W	TR		
25W	.6			21W	.4		
28W	TR			No # BETWEEN 21W + 28W	.2		
L7 -30W	TR			L9 28W	TR		
LVII @ 3E	TR			130W	.4		
6E	TR			00N- 10W	.8		
10E	TR			00 @ L9E	.4		
LVII @ 12E	2.0			L9 @ 5E	TR		
LVIII @ 10W	TR			10E	.8		
00	TR			15E	TR		
4 ⅞	TR			20E	TR		
⅞ 4	TR			25E	6.4		
E8	TR			30E	TR		
E12	TR			35E	TR		
LVIII- 15	TR			40E	TR		
L8 @ 00→W	TR			L9- 45E	1.6		
4W	9.6			L10- 4W	4.6		

Date: September 17, 1978. Assayer: K. Hoyland

WHITEHORSE ASSAY OFFICE
BOX ~~216~~ 4518
WHITEHORSE, YUKON

Samples from: Paul S. White Management Lot. No.: A-2043-320 Page 2

SAMPLE #	Au			SAMPLE #	Au		
L10 8W	.2			L13N- 50E	.2		
12W	TR			60E	TR		
16W	TR			65E	TR		
20W	TR			L13N- 70E	.2		
22W	TR			L14 - 5W	TR		
25W	TR			10W	1.2		
28W	TR			15W	TR		
30W	.4			20W	10.8		
@ 00	1.2			25W	.2		
00E	1.2			35W	.4		
5E	2.4			40W	1.8		
10E	.4			L14- 45W	1.6		
15E	.4			L14N- 00E	1.8		
20E	.4			15E	.4		
25E	.4			50E	5.8		
30E	5.4			65E	2.0		
L10- 40E	.4			70E	TR		
L11 - 00E	1.0			L14 - 75E	TR		
15E	TR			L15- 5W	.4		
20E	TR			10W	.2		
30E	1.2			15W	.4		
35E	10.4			20W	8.0		
L11- 45E	TR			25W	TR		
L12- 00E	.2			30W	TR		
10E	.4			35W	TR		
15E	.2			40W	TR		
20E	TR			45W	TR		
25E	.4			5E	TR		
31E	TR			20E	TR		
35E	TR			25E	TR		
45E	6.8			32E	TR		
51E	7.2			50E	TR		
L12- 55E	.4			60E	2.6		
L13- 00E	.6			65E	3.2		
5E	.2			L15 - 67E	.2		
20E	.8			L16 - 5W	.8		
25E	.4			10W	.8		
30E	.2			15W	TR		
35E	TR			20W	2.6		
L13N- 45E	.4			L16- 25W	TR		

Date: September 17, 1978 Assayer: K. Hoylard

71-350 BP

WHITEHORSE ASSAY OFFICE
BOX ~~3[illegible]~~ 4518
WHITEHORSE, YUKON

Samples from: PAUL S WHITE MANAGEMENT Lot. No.: A-2243-320 PAGE 3

SAMPLE #	Cu			SAMPLE #	Cu		
L16- 30W	1.2			L18- 80W	1.6		
35W	1.2			85W	.2		
40W	.2			90W	TR		
55W	TR			92W	1.2		
60W	TR			15E	.4		
L16- 65W	TR			20E	TR		
L17- 5W	.6			35E	TR		
10W	2.0			40E	TR		
20W	TR			55E	2.0		
25W	.8			60E	.8		
30W	.2			65E	.4		
35W	TR			L18- 70E	.4		
40W	.8			L19- 5W	TR		
45W	.2			10W	TR		
60W	TR			15W	3.6		
65W	.6			35W	TR		
70W	.8			45W	TR		
75W	TR			50W	TR		
80W	TR			55W	1.4		
85W	1.0			60W	.8		
@ 5E	TR			65W	.2		
10E	TR			70W	.2		
15E	TR			75W	2.4		
20E	1.2			80W	2.8		
25E	TR			85W	.4		
30E	TR			90W	TR		
45E	4.0			95W	TR		
50E	TR			@ 00	.4		
55E	.4			5E	.8		
L17@ 6E	1.4			10E	TR		
L18 @ 00	.8			L19- 15E	TR		
10W	TR			L20 - 15W	TR		
15W	.4			30W	1.6		
20W	TR			35W	TR		
25W	TR			40W	TR		
30W	.2			45W	TR		
40W	.2			65W	.8		
60W	.4			75W	.2		
70W	TR			80W	3.4		
L18- 75W	.2			L20- 95W	.4		

Date: September 17, 1978 Assayer: K. Hoyland

71-360 BP

WHITEHOUSE ASSAY OFFICE
BOX ~~[illegible]~~ 4518
WHITEHORSE, YUKON

Samples from: PAUL S. WHITE MANAGEMENT Lot. No.: A-2043-320 PAGE 4

SAMPLE #	U						
L20 @ 00	6.4						
5E	5.0						
15E	14.4						

Date: September 17, 1978. Assayer: K. Hoyland

71-350 BP

WHITEHORSE ASSAY OFFICE
BOX [redacted] 4518
WHITEHORSE, YUKON

Samples from: Paul S. White Lot. No.: A-2061-114

ALL RESULTS - P.P.M.

SAMPLE #	Cu	Mo	U	SAMPLE #	Cu	Mo	U
L2- 0E	22	3	12.4	L6- 8E	4	2	.4
8E	10	3	Tr	12E	16	2	.4
12E	52	1	3.6	16E	40	2	.8
32E	68	1	.8	20E	16	2	1.2
36E	102	2	5.6	24E	8	2	.4
40E	74	2	2.0	28E	42	2	.6
L2- 44E	86	3	2.0	32E	40	1	.4
L3- 0E	30	2	9.2	36E	38	1	.8
8E	6	2	Tr	40E	42	1	.4
20E	40	2	Tr	L6- 44E	26	2	.4
24E	34	2	1.2	L7- 0E	24	2	.6
28E	60	2	Tr	4E	12	3	Tr
32E	40	2	3.2	8E	8	2	Tr
36E	52	3	1.6	12E	8	2	.4
40E	50	1	1.6	16E	12	2	Tr
L3- 44E	54	2	2.6	20E	60	2	2.6
L4- 0E	34	3	.6	24E	216	2	5.0
4E	34	3	Tr	28E	38	3	Tr
8E	28	2	11.2	32E	28	3	.4
12E	24	2	.4	36E	40	1	.2
16E	14	3	.2	40E	30	1	.2
28E	28	2	.4	L7- 44E	20	3	3.6
32E	48	3	.8	L11- 0E	40	2	Tr
36E	54	4	.2	4E	40	2	Tr
40E	50	3	.4	8E	40	2	Tr
L4- 44E	40	2	4.2	12E	42	2	Tr
L5- 0E	6	2	.2	16E	28	3	.4
4E	26	2	1.2	20E	40	2	Tr
8E	40	2	.4	24E	40	1	Tr
12E	40	2	.4	28E	34	2	2.8
16E	18	2	Tr	32E	28	2	4.0
20E	72	2	.4	L11- 34E	20	1	.8
24E	76	2	.6	L12- 0E	38	1	Tr
28E	42	3	Tr	4E	42	1	Tr
32E	48	2	.4	8E	24	1	2.8
36E	50	TR	.4	12E	36	1	.2
40E	30	2	1.6	16E	42	3	2.2
L5- 44E	52	1	1.6	20E	38	3	Tr
L6- 0E	14	2	Tr	24E	74	3	1.6
4E	30	1	Tr	L12- 28E	36	2	Tr

Date: October 3, 1978. Assayer: K. Hoyland

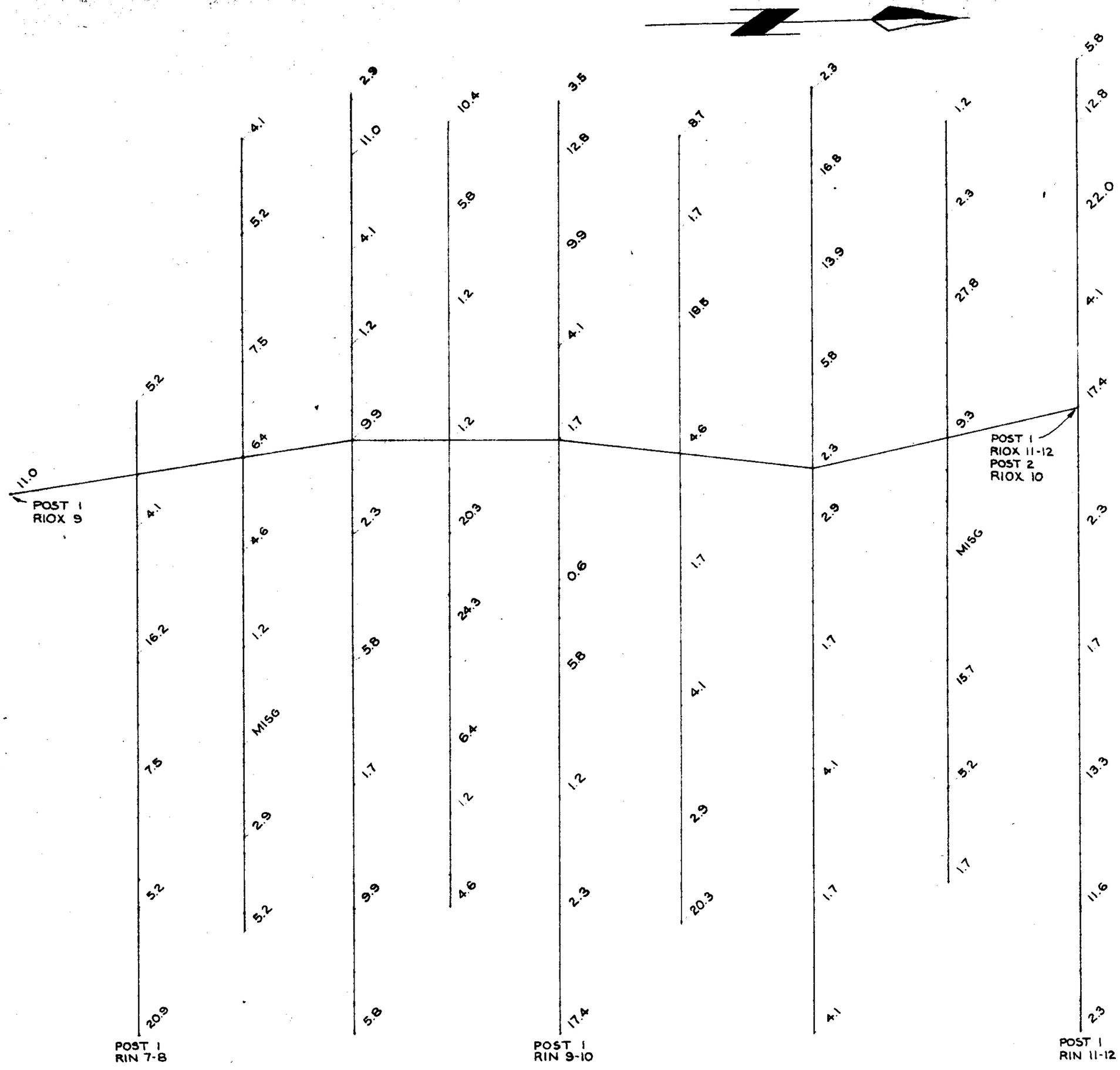
7-1-350 BP

WHITEHORSE ASSAY OFFICE
BOX [redacted] 4518
WHITEHORSE, YUKON

Samples from: PAUL S. WHITE Lot. No.: A-2061-114 PAGE 2

SAMPLE #	Cu	Mo	U
L12- 32E	38	2	Tv
36E	22	2	Tv
40E	24	2	Tv
L12- 44E	30	2	.2
L13+ 0E	32	3	.8
4E	44	1	Tv
8E	34	2	Tv
12E	28	2	Tv
16E	36	TR	1.8
20E	36	TR	.4
24E	14	1	Tv
28E	28	1	Tv
32E	30	TR	Tv
36E	16	1	Tv
40E	44	1	.8
150MN 40E	32	TR	.6
44E	44	1	.8
48E	32	1	1.6
L13- 50E	40	1	.4
L14- 0E	40	TR	4.0
4E	44	1	.2
8E	36	2	.2
12E	40	1	Tv
16E	36	1	.4
20E	36	2	4.2
24E	24	1	.4
28E	16	2	Tv
32E	24	2	Tv
36E	80	2	5.9
40E	28	2	.4
44E	12	2	Tv
48E	36	1	.8
L14- 52E	44	2	Tv
LINE 12+34	46	2	Tv

Date: October 3, 1978. Assayer: K. Hoyland



TRACK ETCH CUP

SURVEY ON

RIN 7 AND 9

AND

RIOX 9 AND 10

SHEET 106E1

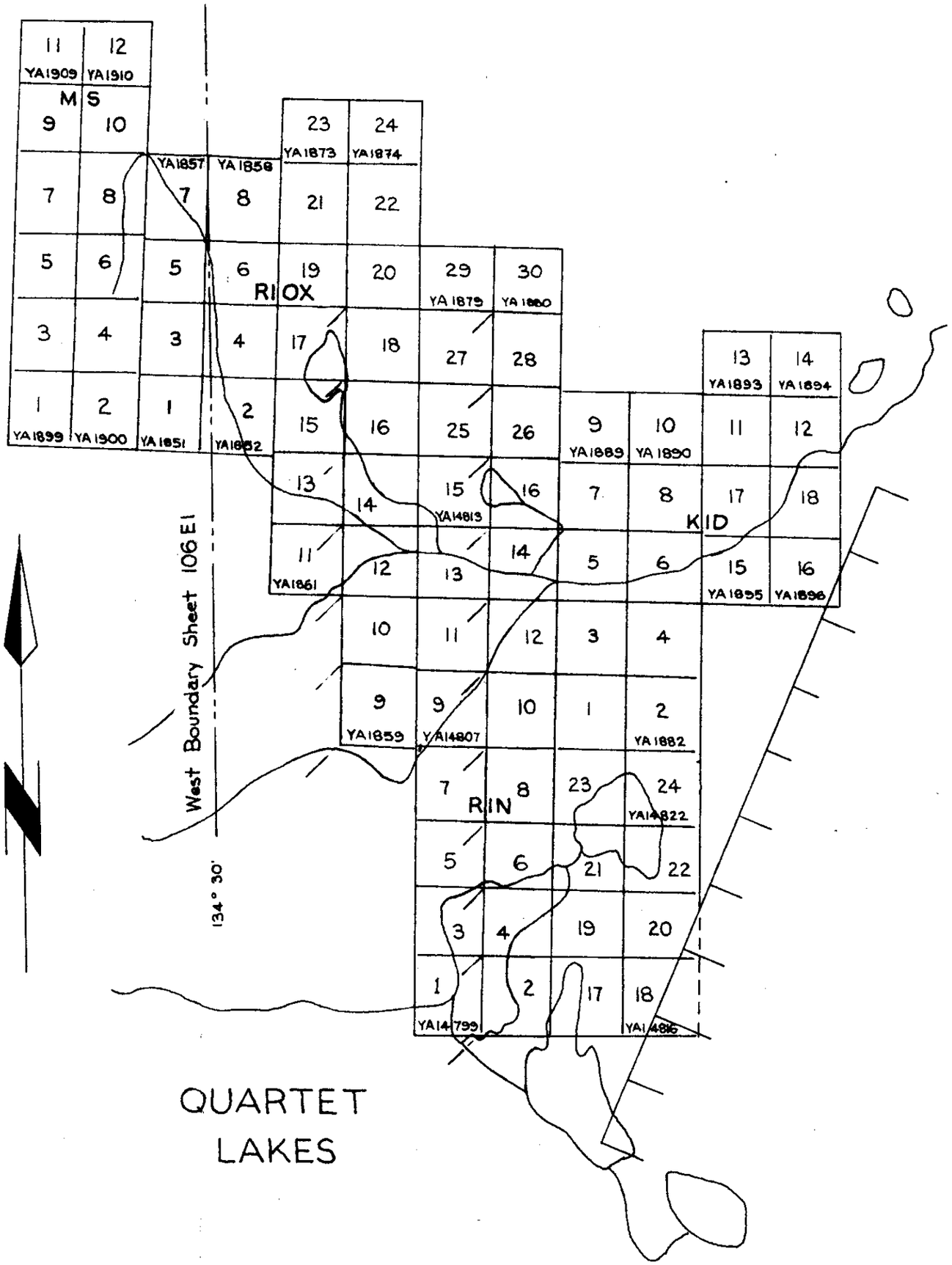
MAYO MINING DISTRICT

QUARTET LAKES Y.T.

JULY - AUGUST 1978

SCALE: 1 INCH = 300 FEET

Readings in Tracks per square millimetre (T/mm^2) normalized to 30 day exposure



GEOPHYSICAL SURVEY OF RIN, KID, RIOX AND MS MINERAL CLAIMS

SHEETS 106E1 AND E2

MAYO MINING DISTRICT

QUARTET LAKES AREA

JULY 1 - SEPTEMBER 15, 1978

Scale - 1 inch = ½ mile

P. S. White P. Eng.

START → LOOP TURN → TRAVERSE → END

78604.4 ← TRAVERSE IDENTITY.

65°15'N.

134° 30' E/54

Kiwi LAKE

Bonnet Plume River

78604.5

78604.6

78604.7

78604.8

78605.3

78604.10

78604.11

78604.12

78604.9

78604.1

78604.2

78604.3

78605.2

78605.1

78604.4

MS, RIOX, KID, RIN

QUARTET LAKES

106 E/11

106 E/12

SKETCH PLAN OF

SRAT SCINTILLOMETER SURVEY

AND

TRACK-ETCH CUP PLACEMENT

ON

RIOX, RIN, KID & MS MINERAL CLAIMS

MAP SHEETS 106 E 1&2

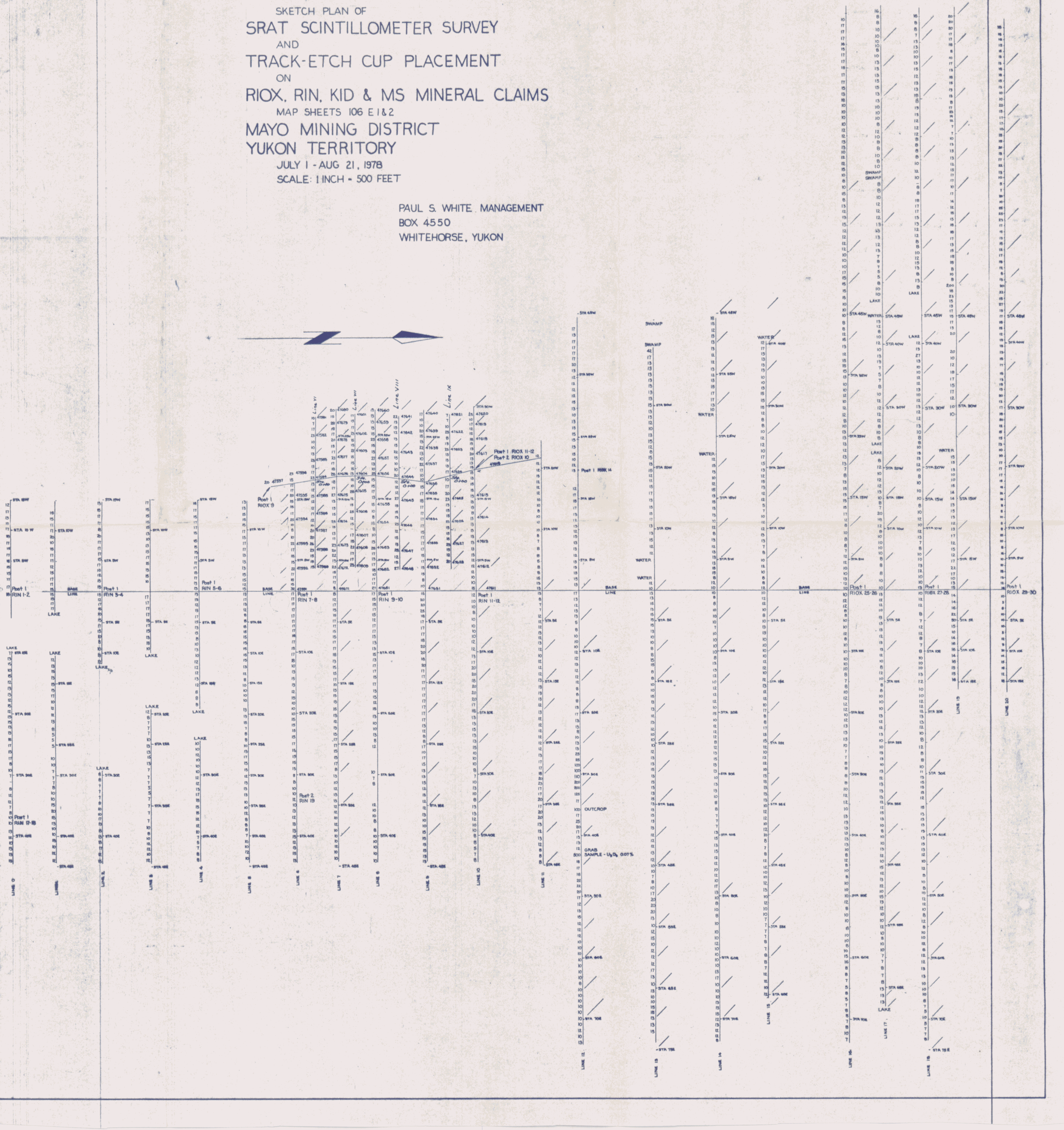
MAYO MINING DISTRICT

YUKON TERRITORY

JULY 1 - AUG 21, 1978

SCALE: 1 INCH = 500 FEET

PAUL S. WHITE MANAGEMENT
BOX 4550
WHITEHORSE, YUKON



SKETCH PLAN OF

SRAT SCINTILLOMETER SURVEY

AND

GEOCHEMICAL SURVEY - URANIUM IN PARTS PER MILLION

ON

RIOX. RIN. KID & MS MINERAL CLAIMS

MAP SHEETS 106 E 1&2

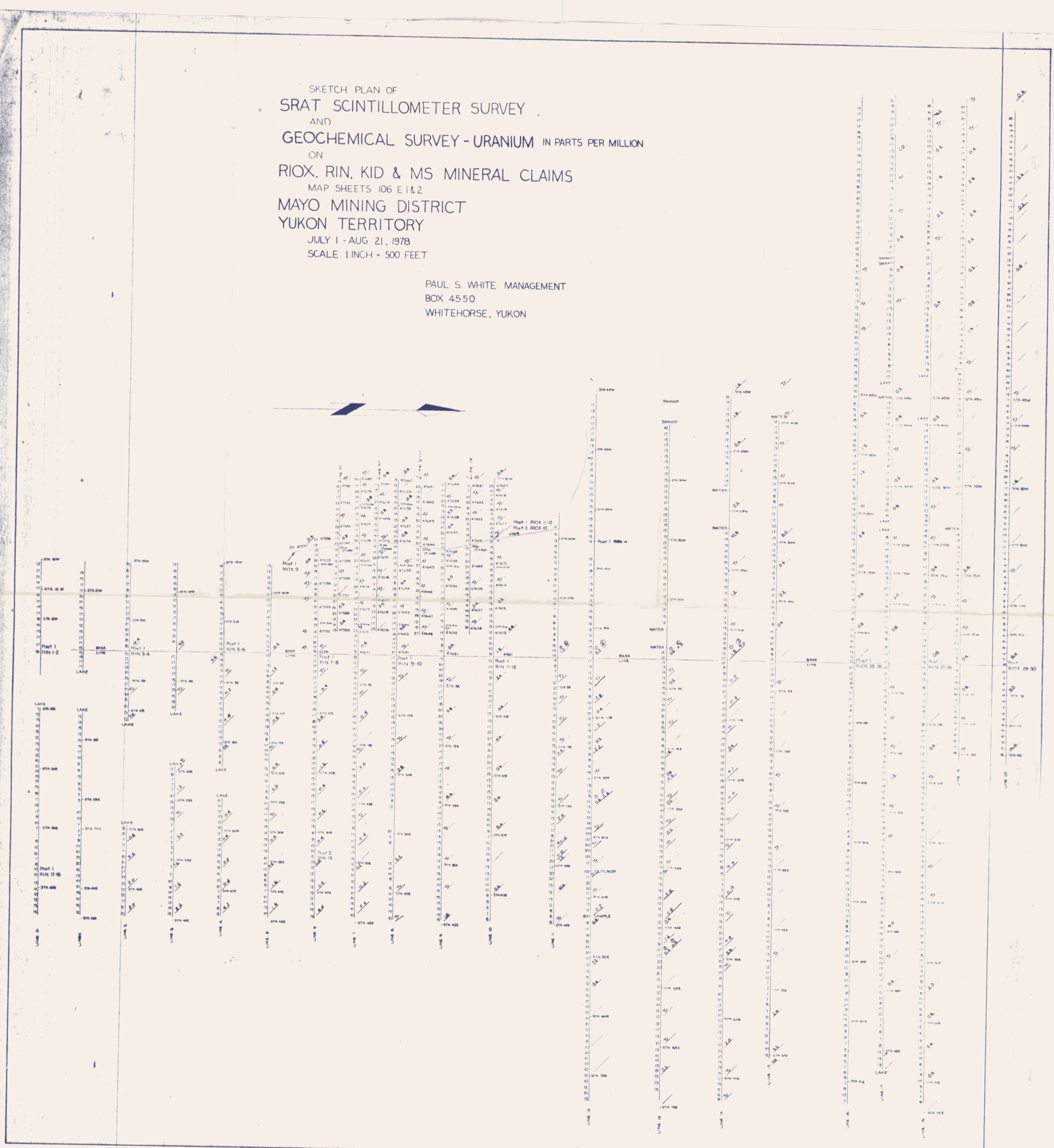
MAYO MINING DISTRICT

YUKON TERRITORY

JULY 1 - AUG 21, 1978

SCALE: 1 INCH = 500 FEET

PAUL S. WHITE MANAGEMENT
BOX 4550
WHITEHORSE, YUKON



SKETCH PLAN OF

SRAT SCINTILLOMETER SURVEY

AND

GEOCHEMICAL SURVEY - COPPER IN PARTS PER MILLION

ON

RIOX. RIN. KID & MS MINERAL CLAIMS

MAP SHEETS 106 E 1&2

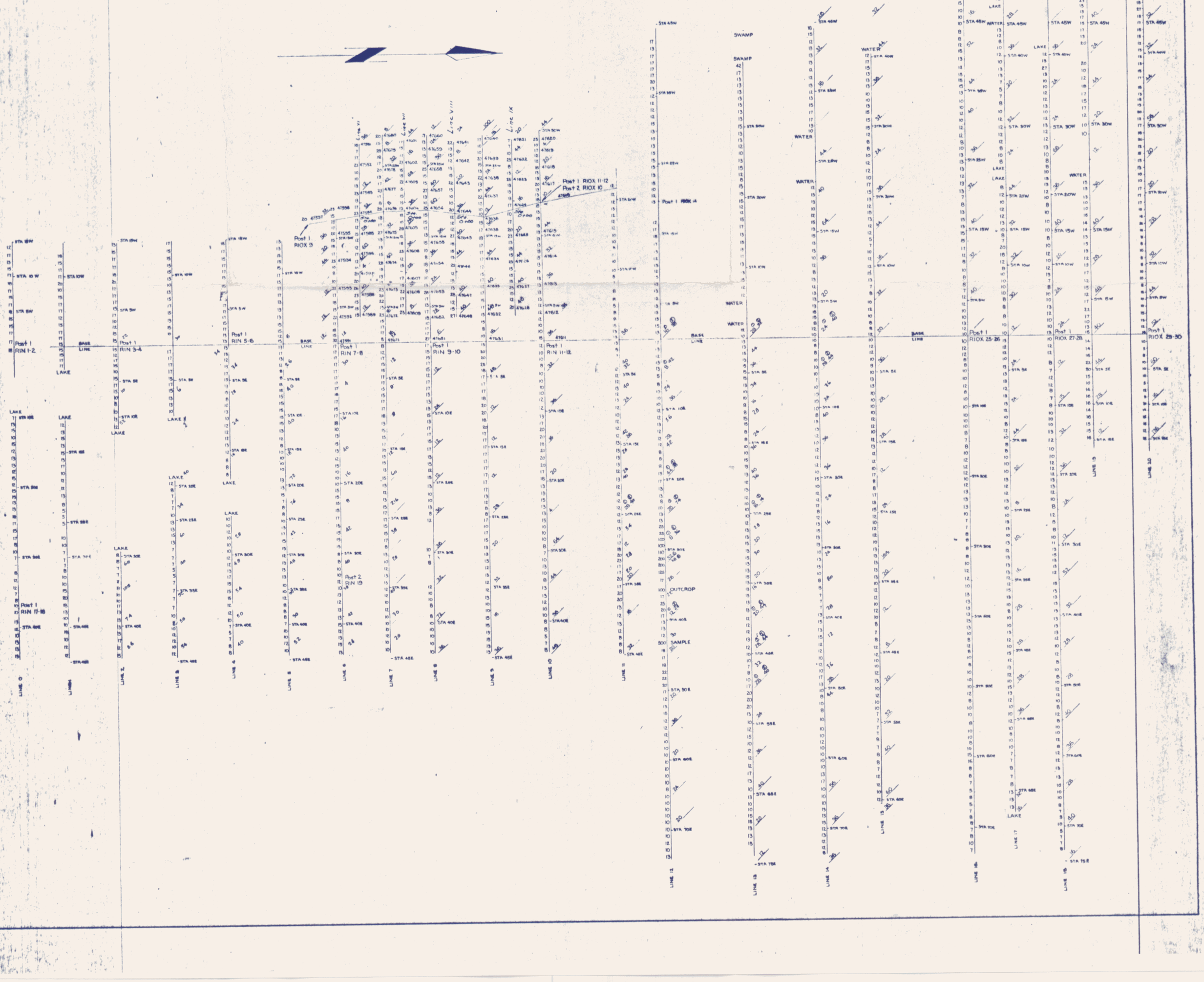
MAYO MINING DISTRICT

YUKON TERRITORY

JULY 1 - AUG 21, 1978

SCALE: 1 INCH = 500 FEET

PAUL S. WHITE MANAGEMENT
BOX 4550
WHITEHORSE, YUKON



SKETCH PLAN OF

SRAT SCINTILLOMETER SURVEY

AND

GEOCHEMICAL SURVEY - IRON IN % OR ppm AS SHOWN

ON

RIOX, RIN, KID & MS MINERAL CLAIMS

MAP SHEETS 106 E 1&2

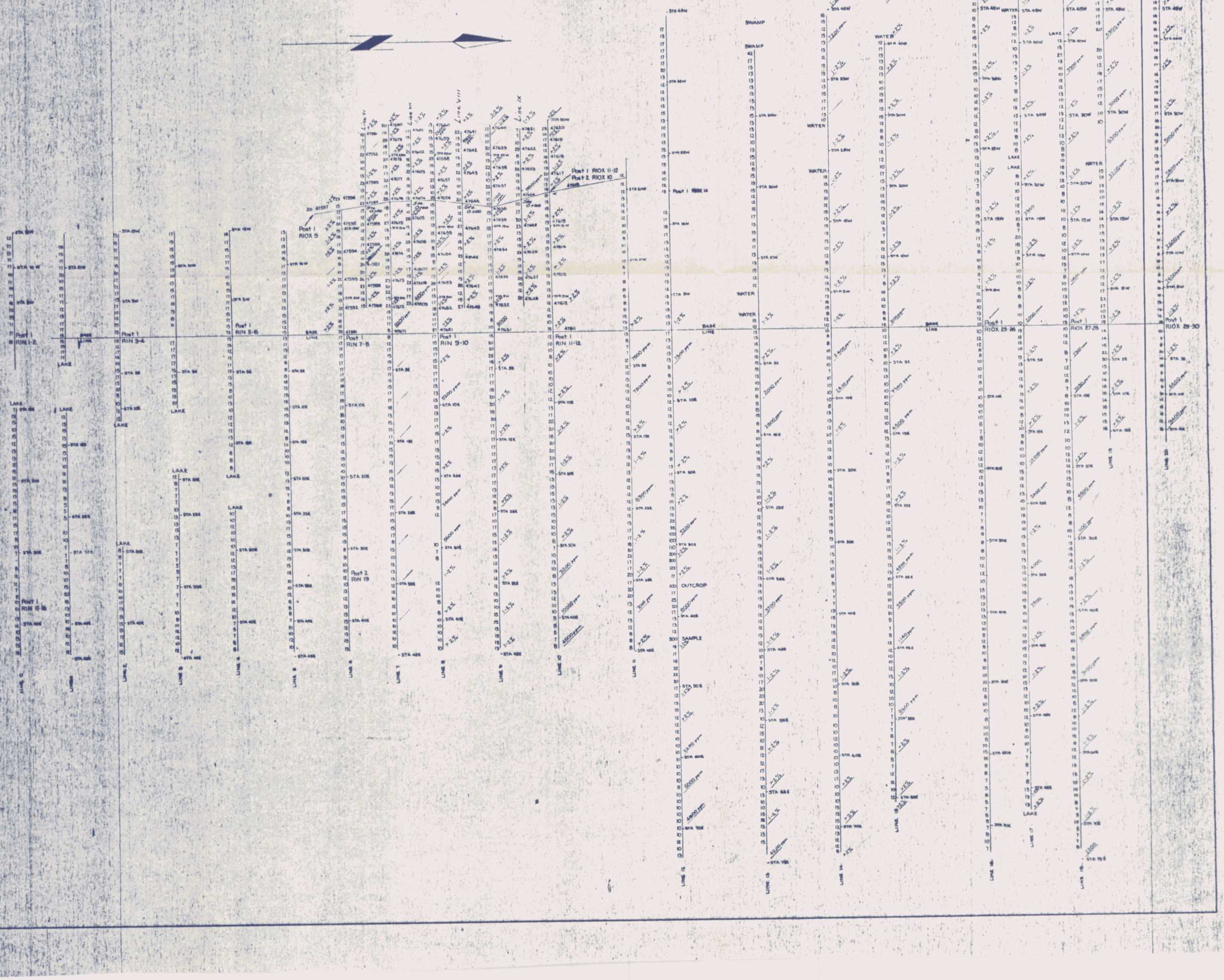
MAYO MINING DISTRICT

YUKON TERRITORY

JULY 1 - AUG 21, 1978

SCALE: 1 INCH = 500 FEET

PAUL S. WHITE MANAGEMENT
BOX 4550
WHITEHORSE, YUKON



TRACK ETCH CUP

SURVEY ON

RIN 7 AND 9

AND

RIOX 9 AND 10

SHEET 106E1

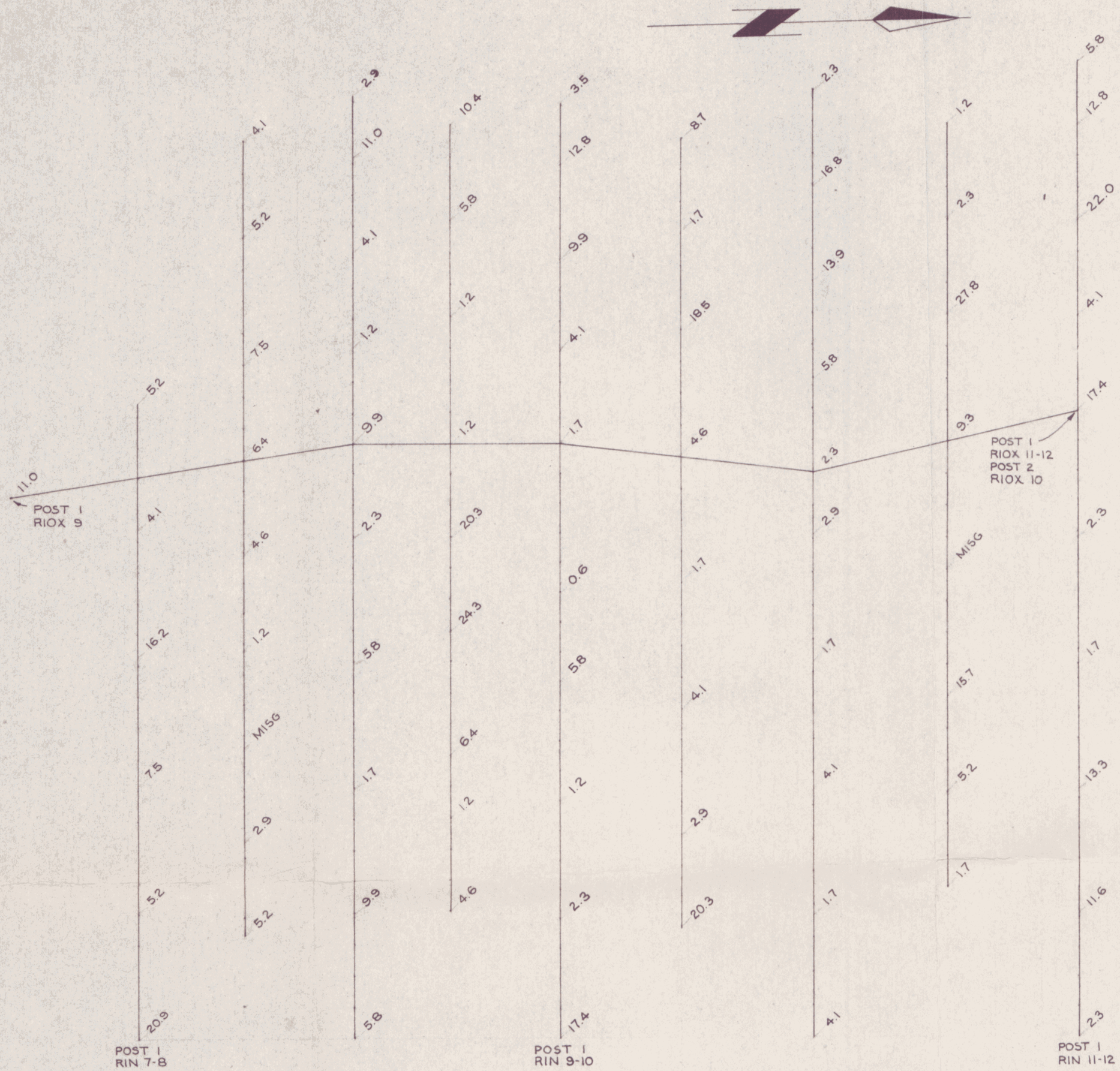
MAYO MINING DISTRICT

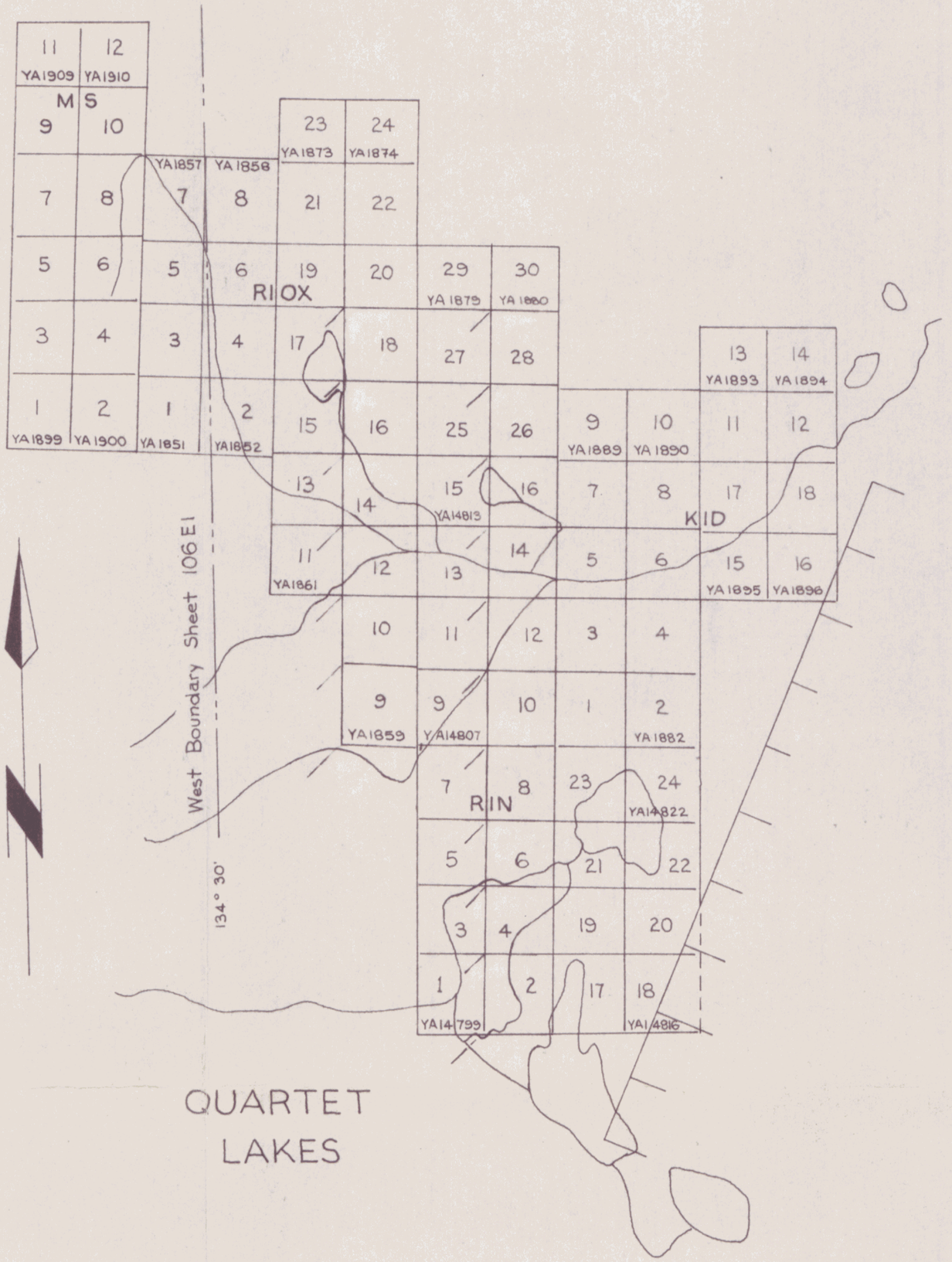
QUARTET LAKES Y.T.

JULY - AUGUST 1978

SCALE: 1 INCH = 300 FEET

Readings in Tracks per square millimetre (T/mm²) normalized to 30 day exposure





GEOPHYSICAL SURVEY OF
RIN, KID, RIOX AND MS MINERAL CLAIMS
SHEETS 106E1 AND E2
MAYO MINING DISTRICT
QUARTET LAKES AREA

July 1 - September 15, 1978

Scale - 1 inch = ½ mile

P. S. White P. Eng.