

2.2845



42A06NE0045 2.2845 WHITNEY

010

SUMMARY on Trenching, Sampling and Assaying

on Whitney Twp. Claims

ROSARIO RESOURCES CANADA LTD.

1976 - 1978

by

R.S. Middleton

ROSARIO RESOURCES CANADA

310 - 55 Yonge St.

TORONTO, Ontario

September 1978

RECEIVED

NOV 1978

MINING DIVISION

1.17

1.16



42A06NE0045 2.2845 WHITNEY

010C

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Invoices

Assay Reports

Table 2 - Sample Locations not shown on maps or 78' Logs.

Sample Location Map 1" = 400'

Trench Maps

Whitney Twp.

List of order & value of Assays

- | | |
|---|-------------------|
| 1. Sample #417 & Composite Sample #418 | 1" = 100' |
| 2. Bulldozer Trench(12' wide to Bedrock) | 1" = 10' Nov./76 |
| 3. Sample Map (from 60 + 90 E to 68 + 14 E) | 1" = 50' Aug./76 |
| 4. Order & Value of Assays (N½ of S½, Lot 7, Con. II
P. 451039 - P. 451040
Series Q-54 to Q-64) | 1" = 200' July/76 |
| 5. Order & Value of Assays (P. 451039
Series 385 - 400) | 1" = 50' Nov./76 |
| 6. Order & Value of Assays (P. 451039 - P. 451040
Series 385 - 400) | 1" = 50' Nov./76 |

Introduction

This report is a compilation of all sampling, trenching and assaying done on the Whitney Township property (unleased claims) between April, 1976 and September, 1978. The cost of this work is submitted for expenditure credit on the property under Sec. 86 (18) of the Mining Act. A breakdown of costs is given later in this report and maps illustrating trenches and samples taken as well as regional sampling (sample location map) are attached.

Property

The property is held by ROSARIO RESOURCES CANADA LTD. and the outline and claim numbers are given on the accompanying location map. Claims P. 420084, 420086, 420087, 451039, 451040, 451041 and 451042 will receive the assessment credits for this work.

Purpose of Sampling and Trenching

A regional rock geochemical sampling program has been carried out since 1976 to investigate the Au, Ag, Zn distribution in the different felsic to intermediate volcanic units and ultramafic rocks on the property. Trenching was done on lot 7, Con. 3 in the fall of 1976 to investigate Zn, Au mineralization in felsic volcanic tuffs (QSS - Quartz sericite schist) and detailed maps illustrating the sample locations and trenches relative to the geophysical grid are attached.

Drilling in 1978 to test various EM conductors and/or IP anomalies as well as ultramafic units has been filed separately, however the trace element rock analysis and total rock analysis data is included here. The drill logs give the exact location of each sample. Some analyses of 1977 COMINCO drill cores was also done in 1978 and these results are included with locations marked on the assay listings.

Assay Procedures

From 1976 to June 1978 the gold results reported in ppb were obtained by fire assay extraction, followed by putting the Au into solution and reading with atomic absorption (AA). Following June 1978 the gold results were determined by NAA (i.e.), fire assay extraction and neutron activation with a spectrometer determination of gold by reading the irradiated bead (now containing a radioactive gold isotopes).

Zinc, silver, chrome and nickel values were all determined by AA using acid extraction methods.

Conclusions

The rock geochemical program has been successful in identifying anomalous gold silver - zinc zones on the property, particularly those associated with pyritization - clay alteration areas.

Respectfully submitted,



R.S. Middleton
Exploration Manager, Canada

RM/lj

Table 2

SAMPLE LOCATIONS NOT SHOWN ON MAPS OR 78' Logs (Mainly old drill holes)

<u>Sample No.</u>	<u>Location</u>	<u>Sample No.</u>	<u>Location</u>
6751	B-4, 29 - 37'	6775	AR-2, 159.7 - 162'
6752	B-4, 50 - 62'	6776	AR-2, 164.3 - 165.8'
6753	B-4, 85 - 90'	6777	AR-3, 210 - 216'
6754	B-4, 90 - 95'	6778	AR-4, 121 - 177'
6755	B-4, 96 - 101'	6779	AR-4, 224.5 - 230'
6756	B-4, 102 - 107'	6780	B-8, 103.6 - 106'
6757	B-4, 108 - 113'	6781	B-8, 110 - 115'
6758	B-5, 56 - 61'	6782	B-8, 131 - 133'
6759	B-5, 166 - 171'	6783	B-8, 310 - 311'
6760	B-5, 171 - 174'	6784	78-2, 85 - 87'
6761	B-5, 206 - 211'	6785	78-6, 110 - 112'
6762	B-5, 211 - 216'		
6763	B-5, 217 - 222'	6786	B-1, 88 - 93'
6764	B-6, 217 - 219'	6787	B-1, 93 - 98'
6765	B-7, 229 - 234'	6788	B-1, 98 - 101'
6766	B-7, 244 - 247'	6789	B-1, 104 - 109'
6767	B-7, 247 - 252'	6790	B-1, 109 - 114'
6768	B-7, 257 - 262'	6791	B-1, 114 - 119'
6769	B-7, 262 - 266'	6792	B-1, 119 - 123'
6770	B-9, 20 - 24'	6793	B-1, 158 - 175.5'
6771	B-9, 120 - 124'	6794	B-1, 175.5 - 181'
6772	B-9, 135 - 140'	6795	B-1, 407.5 - 412.5'
6723	B-9, 280 - 285'	6796	B-1, 412.5 - 417'
6774	AR-2, 151.2 - 155'	6797	B-1, 417 - 421'

6798	B-2, 456.3 - 462.3'
6799	B-2, 665.3 - 667.1'
6800	B-2, 695 - 700.5'
6801	B-2, 711.4 - 714.9'
6802	B-2, 717 - 718'
6719	AR-3, 321'
6720	AR-3, 357 - 358'
6721	AR-4, 20'
6722	AR-4, 103.5'
6723	AR-4, 234'
6683 - 6690	Claim P. 516796 Con. I, lot 5, N $\frac{1}{2}$, NW $\frac{1}{4}$

Ralph L. Allerston

Invoice #18499

DATE August 31st 1976

Alamo Petroleum Limited,

Suite 310,

55 Yonge Street, Toronto M5E 1J4

DATE	DETAILS	DEBIT	CREDIT	BALANCE
Period	June - July			
	<u>SOUTH ZONE - Calc-Magnesite</u>			
	Drilling, Trenching, Blasting on SOUTH ZONE			
	Labour	260.00		
	Materials			
	Carbide Bits (2)			
	Dynamite, Fuse, Caps & Connectors			
	MAX (Ammonium Nitrate)	38.00	38.00	298.00
August	Re: North part, lot 7, Whitney			
	Clearing timber, brush, trenching / rock			
	Drilling, blasting			
	Labour	500.00		
	Materials			
	ate 1, dynamite, Fuse,			
	Caps and MAX	65.80		645.80
	TOTAL			943.80

5 BLUELINE D 101 (INVOICE - 2 COPIES)

X-RAY ASSAY LABORATORIES

LIMITED

45 MILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 090 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street,
Suite 310,
Toronto, Ontario.
M5E 1J4 Attn: R.S. Middleton

RECEIVED July 8, 1976

INVOICE NO. 090

SAMPLE(S) OF 41 rocks SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Zn ppm	Ag ppm	Au ppb	Sample	Zn ppm	Ag ppm	Au ppb
Q-1	49	0.5	30	Q-30	71	X	X
2	28	25	770	31	95	X	X
3	32	35	1590	32	61	X	X
4	230	0.5	80	33	86	X	X
5	110	0.5	80	34	105	X	X
6	120	X	80	35	150	X	X
7	69	X	70	36	95	X	X
8	46	X	80	37	89	X	X
9	120	0.5	50	38	110	X	X
10	56	15	70	39	80	X	X
11	150	1	120	40	125	X	X
12	33	X	80	UM-64	18	X	X
13	68	X	60	UM-65	66	X	X
14	900	35	310				
15	22	X	70				
16	64	X	80				
17	97	3	60				
18	29	X	80				
19	60	50 1.6oz	870				
20	150	X	X				
21	39	50	340				
23	46	0.5	80				
24	5	0.5	X				
25	110	X	X				
26	76	X	X				
27	89	X	X				
28	22	X	X				
Q-29	20	X	X				

2.6%
690 = 900

Note: X -- less than 0.5 ppm Ag
less than 30 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

DATE July 21, 1976

CERTIFIED BY A. Shurrock

X-RAY ASSAY LABORATORIES

LIMITED

ESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 167 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge St. Suite 310,
TORONTO, Ontario.
M5E 1J4
Attn: R.P. Bowen

RECEIVED Jul. 26, 1976

INVOICE NO. 167

SAMPLE(S) OF 12 rocks SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>Cu ppm</u>	<u>Zn ppm</u>	<u>Ag ppm</u>	<u>Au ppb</u>
Q-19B	115	36	40	340
V-1		71	X	60
2		74	X	90
3		52	X	160
4		49	X	60
D-1		51	X	60
2		22	1	80
3		54	0.5	140
4		20	X	60
S-1		56	X	60
2		38	X	60
S-3		30	X	60

*massive py from
imp fm*

Note: X -- less than 0.5 ppm Ag

X-RAY ASSAY LABORATORIES LIMITED

DATE

Aug. 5, 1976

CERTIFIED BY

R. Hudson

X-RAY ASSAY LABORATORIES

LIMITED

AUG - 9 1976

45 MILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 178 / PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: R. Middleton

RECEIVED Jul. 19, 1976

INVOICE NO. 178

SAMPLE(S) OF 24 rocks SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>Zn ppm</u>	<u>Ag ppm</u>	<u>Au ppb</u>
Q-41	39	X	X
42	130	20	100
43	69	15	250
44	55	X	X
45	82	0.5	X
46	20	X	X
47	13	X	X
48	27	X	X
49	21	X	X
50	190	10	X
51	43	0.5	X
52	19	X	X
53	28	X	X
54	49	2	X
55	98	0.5	X
56	98	0.5	X
57	10	0.5	X
58	61	0.5	150
59	79	7	220
60	3930	10	220
61	87	1	820
62	1290	4	X
Q-63	37800	25	1650

Whitney

<u>Sample</u>	<u>%Cu</u>	<u>%Zn</u>	<u>%As</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
Q-64	0.27	5.06	0.38	0.34	0.03	0.99

Note: X -- less than 0.5 ppm Ag
less than 30 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

DATE Aug. 6, 1976

CERTIFIED BY *D. Henson*

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 359 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4
Attn: R. Middleton

RECEIVED Aug. 24, 1976

INVOICE NO. 359

SAMPLE(S) OF 1 rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Cu</u>	<u>%Zn</u>	<u>%Hg</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
G-1	0.16	16.3	Nil	2.47	1.30	4.00

X-RAY ASSAY LABORATORIES LIMITED

DATE Sept. 2, 1976

CERTIFIED BY

A. H. H. H.

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 397 PAGE 1 of 2

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: R. Middleton

RECEIVED Aug. 24, 1976

INVOICE NO. 397

SAMPLE(S) OF 36 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>Zn ppm</u>	<u>Pb ppm</u>	<u>Ag ppm</u>	<u>Au ppb</u>
A- 1	1490	530	8 .25	50
2	41000	990	15 .468	280
3	4170	1450	10 .31	140
4	3380	1140	4	X
5	430	410	3	X
6	440	150	2	X
7	440	80	1	X
8	1280	100	2	X
9	1020	290	4	X
10	370	40	5	60
11	320	35	0.5	X
12	350	40	3	50
13	325	150	1	X
14	430	135	2	X
15	480	130	2	X
16	1350	180	4	X
17	450	250	2	X
18	210	30	1	X
19	240	20	0.5	X
20	210	25	1	X
21	120	35	1	60
22	180	20	0.5	X
23	125	20	2	X
24	105	40	3	X
25	33	15	0.5	60
26	280	5	X	X
27	270	40	5	170
A-28	140	10	0.5	X

X-RAY ASSAY LABORATORIES LIMITED

DATE Sept. 9, 1976

CERTIFIED BY D. Huron

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 397 PAGE 2 of 2

Alamo Petroleum Ltd.

Attn: R. Middleton

<u>Sample</u>	<u>Zn ppm</u>	<u>Pb ppm</u>	<u>Ag ppm</u>	<u>Au ppb</u>
A-29	105	20	2	X
A-30	64	20	0.5	X
31	110	10	2	X
32	80	10	1	X
33	3530	750	8	80
A-34	2340	1210	10	X
G-2	750	560	15	130
G-4	6700	2650	10	140

Note: X -- less than 0.5 ppm Ag
less than 30 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

DATE Sept. 9, 1976

CERTIFIED BY *D. Severin*

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 508 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge St., Suite 310,
TORONTO, Ontario.
M5E 1J4
Attn: R.S. Middleton

RECEIVED Sept. 17, 1976

INVOICE NO. 508

SAMPLE(S) OF 10 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Cu</u>	<u>%Zn</u>	<u>%Cd</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
C-4	Trace	0.06		0.03	Nil	Nil
C-5	Trace	0.99		0.06	0.06	Trace
C-6	Trace	0.24		0.03	Trace	Nil
C-7	Nil	0.22		0.02	Nil	Trace
C-8	Nil	0.16		0.05	Nil	Nil
G-5	0.04	8.66	0.03	0.50	0.02	0.91
G-1B	0.31	18.1	0.08	1.78	0.56	2.18

<u>Sample</u>	<u>Zn ppm</u>	<u>Au ppb</u>	<u>Ag ppm</u>
C-1	79	X	X
C-2	61	X	0.5
C-3	60	X	5

Note: X -- less than 30 ppb Au
less than 0.5 ppm Ag

X-RAY ASSAY LABORATORIES LIMITED

DATE Sept. 27, 1976

CERTIFIED BY *R. S. Middleton*

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

48 ESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-6755

Certificate of Analysis

NO. 675 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4
Attn: Mr. McKittrick

RECEIVED Oct. 28, 1976

INVOICE NO. 675

SAMPLE(S) OF 16 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Zn</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
385	0.10	0.02	Trace	Trace
386	0.95	0.10	Trace	0.38
387	0.36	0.07	Trace	0.20
388	0.12	0.04	Trace	Trace
389	0.13	0.06	Nil	Trace
390	0.25	0.07	Nil	Trace
391	0.25	0.06	Nil	Trace
392	0.04	0.01	Nil	Trace
393	0.06	0.03	Nil	Trace
394	0.46	0.03	Trace	0.25
395	0.16	0.04	Nil	Trace
396	0.17	0.04	Nil	Trace
397	0.01	Trace	Nil	Nil
398	0.02	0.01	Nil	Trace
399	0.02	0.01	Trace	Trace
400	0.31	0.10	0.06	27.8

X-RAY ASSAY LABORATORIES LIMITED

DATE Nov. 1, 1976

CERTIFIED BY A. H. H. H.

X-RAY ASSAY LABORATORIES

LIMITED

ESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 684 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: Mr. McKittrick

RECEIVED Nov. 1, 1976 phone instruction INVOICE NO. 684

SAMPLE(S) OF 1 pulp on hand SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
400	0.03	27.9

X-RAY ASSAY LABORATORIES LIMITED

DATE Nov. 2, 1976

CERTIFIED BY

D. Hanson

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 715 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
Toronto, Ontario.
M5E 1J4

NOV 10 1976

RECEIVED Nov. 3, 1976

INVOICE NO. 715

SAMPLE(S) OF 3 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Zn</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
401		0.02	0.82
402	0.49	Trace	Trace
403		Trace	Trace

Stu ✓
PJ ✓
Rom ✓
J.E.
1

X-RAY ASSAY LABORATORIES LIMITED

DATE

Nov. 9, 1976

CERTIFIED BY

S. Huener

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 811

PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge St., Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: R.S. Middleton

RECEIVED Nov. 22, 1976

INVOICE NO. 811

SAMPLE(S) OF 2 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Zn</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
406	1.24	Trace	Trace
696		0.08	25.7

X-RAY ASSAY LABORATORIES LIMITED

DATE

Nov. 29, 1976

CERTIFIED BY

S. Stevens

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

at - University of Toronto - Canada

X-RAY ASSAY LABORATORIES

LIMITED

4 ESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NOV 22 1976

NO. 775 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: R. Middleton

RECEIVED Nov. 15, 1976

INVOICE NO. 775

SEM
RSM ✓
P.I. ✓
JG
TF

SAMPLE(S) OF 8 rocks SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Zn</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
407	0.26		Nil	Nil
408	0.04		Nil	Nil
409	2.23		0.01	Trace
410	0.25	0.06	Trace	Trace
411	0.62	0.14	Trace	Trace
412	Trace	0.09	Nil	Nil
413	0.09	0.04	Nil	Nil
414	0.14		Nil	Nil

X-RAY ASSAY LABORATORIES LIMITED

DATE Nov. 18, 1976

CERTIFIED BY A. Neuenor

X-RAY ASSAY LABORATORIES

LIMITED

5 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 812 PAGE 1 of 1

TO. Alamo Petroleum Ltd.,
55 Yonge Street, Suite 310,
TORONTO, Ontario.
M5E 1J4

Attn: R.S. Middleton

RECEIVED Nov. 23, 1976

INVOICE NO. 812

SAMPLE(S) OF 4 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>%Ni</u>	<u>%Zn</u>	<u>%Pb</u>	<u>Au oz./ton</u>	<u>Ag oz./ton</u>
400D		0.09	0.13	0.10	37.1
416	Trace	Trace	Trace	Trace	Trace
417		0.81	0.08	Trace	Trace
418		0.01	Trace	Trace	Trace

X-RAY ASSAY LABORATORIES LIMITED

DATE Nov. 29, 1976

CERTIFIED BY A. Svenson

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3091 PAGE 1 of 2

TO. ROSARIO RESOURCES CORPORATION
55 Yonge St., Suite 310,
Toronto, Ont.
M5E 1J4 Attn: R. Middleton

RECEIVED June 19/78

INVOICE NO. 3091

SAMPLE(S) OF 34 rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Znppm	Agppm	Bappm	Auppb
6673		x		x
74				x
75			50	
76				x
77		3		30
78	90	1		x
79	41	x		x
80	95	x		x
81	100	x		x
82	100			x
83	75	x		x
84	51	x		x
85	41	x		70 ← now 86 NAA.
86	54	x		x
87	66	x		x
88	60	x		x
89	40	x		x
90	17	x		x
91	48	x		x
92	19	x		x
93	47	x		x
94		x		x
95	31	x		x
96		x		x
97		x		x
98	39	x		x
99	56	x		x
6700	69	x		x

X-RAY ASSAY LABORATORIES LIMITED

DATE June 27/78.

CERTIFIED BY 

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

6 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3091 PAGE 2 of 2

Sample	Znppm	Agppm	Bappm	Auppb
6701	45	x		x
02	75	x		x
03	70	x		x
6704	60	x		x
6956		x		30
6957		x		x

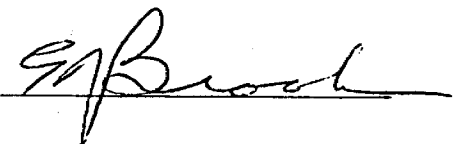
Note: x = less than 1 ppm Ag
x = less than 30 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

June 27/78

DATE

CERTIFIED BY



ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

ESMILL ROAD

DON MILLS ONTARIO M3B 2T8

JUL 18 1978 445-5755

Certificate of Analysis

NO. 3187 PAGE

1 of 3

TO. ROSARIO RESOURCES CORPORATION,
55 Yonge St., Suite 310,
TORONTO, Ont. M5E 1J4

Attn: R.S. Middleton

RECEIVED July 4/78

INVOICE NO. 3187

SAMPLE(S) OF 20 rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Nippm	Znppm	Agppm	Crppm
6711			x	
16	800		x	2000
17	980			
19		33	x	
21	600			3100
22	220			2500
26		82	3	
28			1	
29			8	
30			6	
31	700			1900
6751			x	
52			x	
53			x	
54			x	
55			x	
56			x	
57			x	
58			x	
6770			x	

Note: x = less than 1 ppm Ag

X-RAY ASSAY LABORATORIES LIMITED

DATE July 17/78.

CERTIFIED BY 

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

		NO. 3187	PAGE 2		
Sample	N.A.A. Auppb	Sample	N.A.A. Auppb	Sample	N.A.A. Auppb
6651	64	6673	6	6701	16
2	16	4	5	2	x
3	x	5	x	3	x
4	x	61	1	4	x
5	x	7	24	6956	8
6	x	8	16	6957	2
7	x	9	16		
8	x	80	x		
9	x	1	8		
60	x	2	10		
1	x	3	6		
2	x	4	7		
3	x	5	86	<i>By IF on cont line reverse sheet</i>	
4	76	6	x		
5	36	7	3		
6	56	8	x		
7	8	9	9		
8	24	90	9		
9	12	1	x		
70	96	2	1		
1	4	3	1		
6672	x	4	x		
6951	1	5	4		
52	4	6	2		
53	x	7	50	<i>near carb zone near hole 28-13</i>	
54	296	8	5		
55	52	9	2		
		6700	5		

Note: x = less than 1 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

DATE July 17/78.

CERTIFIED BY *[Signature]*

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

5 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3187 PAGE 3

N.A.A.		N.A.A.			
Sample	Auppb	Sample	Auppb	Sample	Auppb
6705	x	6757	2	6797	2
6	5	8	25	98	2
7	2	9	x	99	1
8	x	60	1	6800	5
9	12	61	1	1	5
10	2	62	5	6802	x
11	x	63	x		
12	x	64	x		
13	6	65	x		
14	x	66	1		
15	x	67	x		
16	9	68	x		
17	x	69	x		
18	x	70	38		
24	14 - IF	71	x		
25	x	72	x		
26	3 - IF	73	2		
27	1 - sim for	74	2		
28	11 - pump	75	8		
29	22 - 78-90101	76	2		
30	11 - 78-90100	6777	76		
32	4	6778	x		
6733	2	9	1		
6751	x	80	4		
2	5	1	x		
3	75 - B-4 85-90	2	8		
4	59	3	1		
5	x	4	1		
6	12	5	9		
		6	33		
		7	60		
		8	14		
		9	x		
		90	253		
		1	6		
		2	10		
		3	10		
		4	5		
		5	x		
		6	2		

451043
Clms

AR-3 ; 210-216

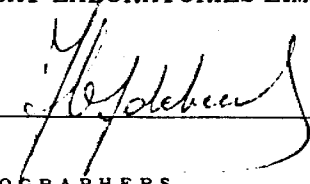
B1 93-98

B-1 109-114

Note: x = less than
1 ppb Au

X-RAY ASSAY LABORATORIES LIMITED

DATE July 17/78.

CERTIFIED BY 

11-JUL-78

X-RAY ASSAY LABORATORIES

SAMPLE	SI02	AL2O3	CaO	MgO	NA2O	K2O	FeO	MNO	TiO2	P2O5	L O I.	SUM	Location
6719	73.15	12.10	2.31	1.23	0.14	3.87	1.54	0.03	0.16	0.02	3.82	98.89	AR-3 321' QSS
6720	54.94	14.68	1.52	7.27	2.73	1.63	9.39	0.13	0.81	0.12	4.48	98.75	AR-3 357- mte 358 T-4
6721	37.96	5.68	16.04	13.55	0.06	0.06	8.19	0.20	0.29	0.02	16.89	99.85	AR-4 20' Perid.
6722	45.29	6.79	5.55	20.93	0.00	0.01	11.93	0.13	0.49	0.02	9.26	101.73	AR-4 103.55 Spint
6723	53.61	11.26	6.55	4.67	1.91	0.81	7.50	0.17	0.60	0.05	7.81	97.77	AR-4 -234' mte T-4
6731	42.14	3.50	7.02	25.35	0.00	0.01	7.86	0.14	0.22	0.01	13.74	101.87	78-9 176-178 Perid T-4

6719

6731

<u>Zn</u>	<u>Ag</u>	<u>Ni</u>	<u>Cr</u>
33	x	700	1900

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3122 PAGE 1 of 1

TO. ROSARIO RESOURCES CORPORATION
55 Yonge St. Suite 310,
Toronto, Ont.
M5E 1J4 Attn: R.S. Middleton

RECEIVED June 7/78

INVOICE NO. 3122

SAMPLE(S) OF 27 rock SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample ^{Aff} Auppb Znppm Asppm Agppm

6651	x			
52	x			
53	x			
54	x			
55	x			
56	x			
57	x			
58	x			
59	x			
6660	x			
61	x			
62	x			
63	x			
64	70			
65	30			13
66	50	180		19
67	x			12
68	30	26		9
69	x	16		2
6670	100	11200		12
71	x	390		8
6672	x			x
6951	x		80	
52	x		40	
53	x		20	
54	300		960	x
55	40		40	

Note: x = less than 30 ppb Au
x = less than 1 ppm Ag

X-RAY ASSAY LABORATORIES LIMITED

DATE July 5/78.

CERTIFIED BY 

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3305

PAGE 1 of 1

TO. Rosario Resources Corporation,
55 Yonge St., Ste. 310,
Toronto, Ontario.
M5E 1J4
Attn: R. Middleton

RECEIVED July 14, 1978

INVOICE NO. 3305

SAMPLE(S) OF 4 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>Ni ppm</u>	<u>Cr ppm</u>	<u>Ag ppm</u>	<u>Au ppb</u>	<u>%CO₂</u>
6806			X	20	
07				12	
08				18	
6809	1420	240			32.8

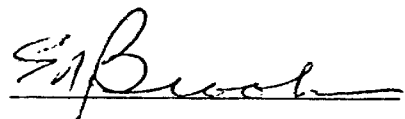
Note: X - less than 1 ppm Ag

Au determined by neutron activation.

X-RAY ASSAY LABORATORIES LIMITED

DATE Aug. 4, 1978

CERTIFIED BY



ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

SI02	AL2O3	CAO	MGO	NA2O	K2O	FEO	MNO	TIO2	P2O5	L.O.I.	SUM	CO2
27.00	1.05	0.17	32.29	0.00	0.01	7.30	0.07	0.09	0.01	35.77	104.56	32.8

#6809

Pol	.56
Magnetite	62.07
Talc	1.8
Chlor	5.7
Oxide	7.186
Quartz	29.11
TOTAL	101.4

Dolomite

$$CaO \quad \frac{100}{30.4} \times .17 = .559$$

$$CO_2 \quad \frac{47.9}{100} \times .559 = .267$$

$$MgO \quad \frac{21.7}{100} \times .559 = .121$$

CO2 left = 32.53

MgO left = 32.169

Magnetite

$$CO_2 \quad \frac{100}{52.4} \times 32.53 = 62.079$$

$$MgO \quad \frac{47.6}{100} \times 62.079 = 29.54$$

MgO left = 2.629

Chlorite

$$Al_2O_3 \quad \frac{100}{18.4} \times 1.05 = 5.70$$

$$MgO \quad \frac{36.1}{100} \times 5.7 = 2.057$$

MgO left = .52

$$SiO_2 \quad \frac{30.5}{100} \times 5.7 = 1.735$$

SiO2 left = 25.26

$$Fe_2O_3 \quad \frac{2.0}{100} \times 5.7 = .114$$

Fe2O3 left = 7.186

$$H_2O \quad \frac{13.0}{100} \times 5.7 = .74$$

H2O = ?

Talc

$$MgO \quad \frac{100}{31.7} \times .572 = 1.8$$

$$SiO_2 \quad \frac{63.5}{100} \times 1.8 = 1.143$$

SiO2 left = 29.11

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3399 PAGE

TO. ROSARIO RESOURCES CORPORATION
55 YONGE St. Suite 310,
Toronto, Ont. M5E 1J4

Attn: R.S. Middleton

RECEIVED July 28/78

INVOICE NO. 3399

SAMPLE(S) OF 8 rock
49 w. core

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Auppb	Agppm	Sample	Auppb
6741	12		6851	9
42	11		52	17
43	14		53	17
44	11		54	11
45	11		55	12
46	15		56	12
47	28		57	9
48	24		58	10
6831	6		59	5
32	14		6860	23
33	15		61	12
34	17		63	16
35	21		64	12
36	10		65	4
37	27		66	14
38	19		67	10
39	17		68	4
6840	2		69	6
41	11	3	6870	1
42	130		71	7
43	120		72	10
44	33		73	20
45	21		74	38
46	110		75	25
47	17		76	14
48	14		77	35
49	14		6878	31
6850	18			

*carb mt.
1451043*

68-13

68-14

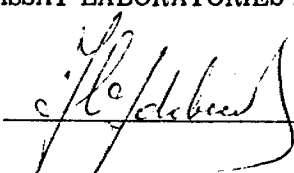
Note: Auppb done by N.A.A.

X-RAY ASSAY LABORATORIES LIMITED

DATE

Aug. 22/78.

CERTIFIED BY



22-AUG-78

X-RAY ASSAY LABORATORIES

SAMPLE	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE0	MNO	TI02	P2O5	L O I.	SUM
6831	58.06	16.54	2.70	2.98	9.58	0.10	3.44	0.06	0.71	0.43	5.72	100.70
6832	60.48	17.41	2.68	2.06	9.87	0.08	1.95	0.04	0.43	0.18	4.81	100.20
6862	38.97	6.99	6.05	18.01	0.69	0.04	10.68	0.16	0.46	0.03	21.27	104.54
6879	41.22	4.63	7.19	17.57	0.35	0.16	7.98	0.15	0.29	0.03	23.08	103.53

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3400

PAGE 1 of 1

TO. ROSARIO RESOURCES LIMITED
55 Yonge St. Suite 310,
TORONTO, Ont. M5E 1J4

Attn: R.S. Middleton

RECEIVED July 24/78

INVOICE NO. 3400

SAMPLE(S) OF 22 rock, s. core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:
w. core

Sample	%Cr	%Ni	%Zn	Auoz/ton	Agoz/ton
6734				nil	
35				nil	
6811				nil	nil
12				nil	trace
13	0.40	0.23			
14			0.01		nil
15				nil	
16				nil	
17				nil	
18				nil	
19				trace	
6820				nil	
21				trace	
22				nil	
23				nil	
24				nil	
25				nil	
26				nil	
27				nil	
28				nil	
29				nil	
6830				nil	

*78-13
Re view*

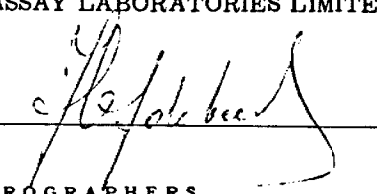
Note: trace less than 0.01 oz/ton Au
trace less than 0.20 oz/ton Ag

X-RAY ASSAY LABORATORIES LIMITED

DATE

Aug. 22/78.

CERTIFIED BY



ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3400-C PAGE

SEP 19 1978

TO. ROSARIO RESOURCES CORPORATION
55 Yonge St. Suite 310,
Toronto, Ont. M5E 1j4

Attention: R.S. Middleton

RECEIVED July 24/78

INVOICE NO. 3400-C

SAMPLE(S) OF pulps on hand SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample Auppb

6815	5
16	5
17	5
18	6
19	11
6820	5
21	7
22	6
23	7
24	4
25	7
26	6
27	12
28	13
29	7
6830	7

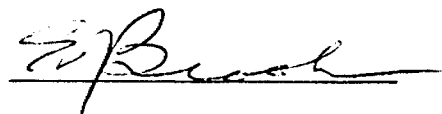
78-13

Sept. 15/78.

X-RAY ASSAY LABORATORIES LIMITED

DATE

CERTIFIED BY



ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

22-AUG-78

X-RAY ASSAY LABORATORIES

SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE0	MNO	TIO2	P2O5	L O I.	SUM
6813	42.81	0.85	0.96	37.47	0.00	0.01	7.30	0.11	0.05	0.00	12.55	102.92
6814	75.59	11.65	2.61	1.77	0.06	2.85	2.11	0.11	0.10	0.01	3.92	101.03

X-RAY ASSAY LABORATORIES

LIMITED

LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

Certificate of Analysis

NO. 3483 PAGE

TO. ROSARIO RESOURCES CORP.
55 Yonge St. Suite 310,
Toronto, Ont. M5E 1J4

Attn: R. Middleton

RECEIVED

Aug. 14/78

INVOICE NO.

3483

SAMPLE(S) OF 35 s. core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Znppm	Agppm	Auppb
6880			3
81			6
82	61	1	4
83			13
84			115
85			23
86	540	3	270
87			4
88		2	9
89			29
6891			4
92			4
93			7
94			6
95			17
96			4
97			1
98			2
99			2
6901			2
02			x
03	1200	6	160
04	1450	2	10
05	63	3	11
06	110	12	10
07	1300	8	33
08	250	7	13
6910			54
11			68
12			6
13			10
14			4
6916			8
17			3
18			12

78-16

78-15

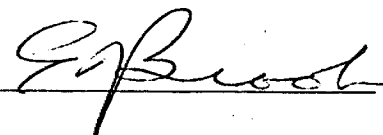
Note: x - less than 1 ppb Au
Au by neutron activation.

X-RAY ASSAY LABORATORIES LIMITED

DATE

Sept. 1/78.

CERTIFIED BY



X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

NOV 2 1978

Certificate of Analysis

NO. 3850

PAGE #1

TO. ROSARIO RESOURCES CORPORATION
55 Yonge St., Suite 310,
Toronto, Ont. M5E 1J4
Attn: R.S. Middleton

RECEIVED Oct. 2/78

INVOICE NO. 3850

SAMPLE(S) OF 84 rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cuppm	Znppm	Pbppm	Nippm	Crppm	Agppm	Auppb
6977						x	11
78							14
79							20
6980							10
81			5800			38	110
82			2580			15	45
83							6

Whitney

#60

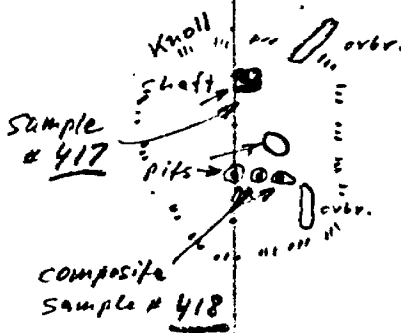
L 128 E

85 N _____

ovbr.

ovbr.

84 N _____



83 N _____

82 N _____

ovbr.

ovbr.

81 N _____

80 N _____

overburden

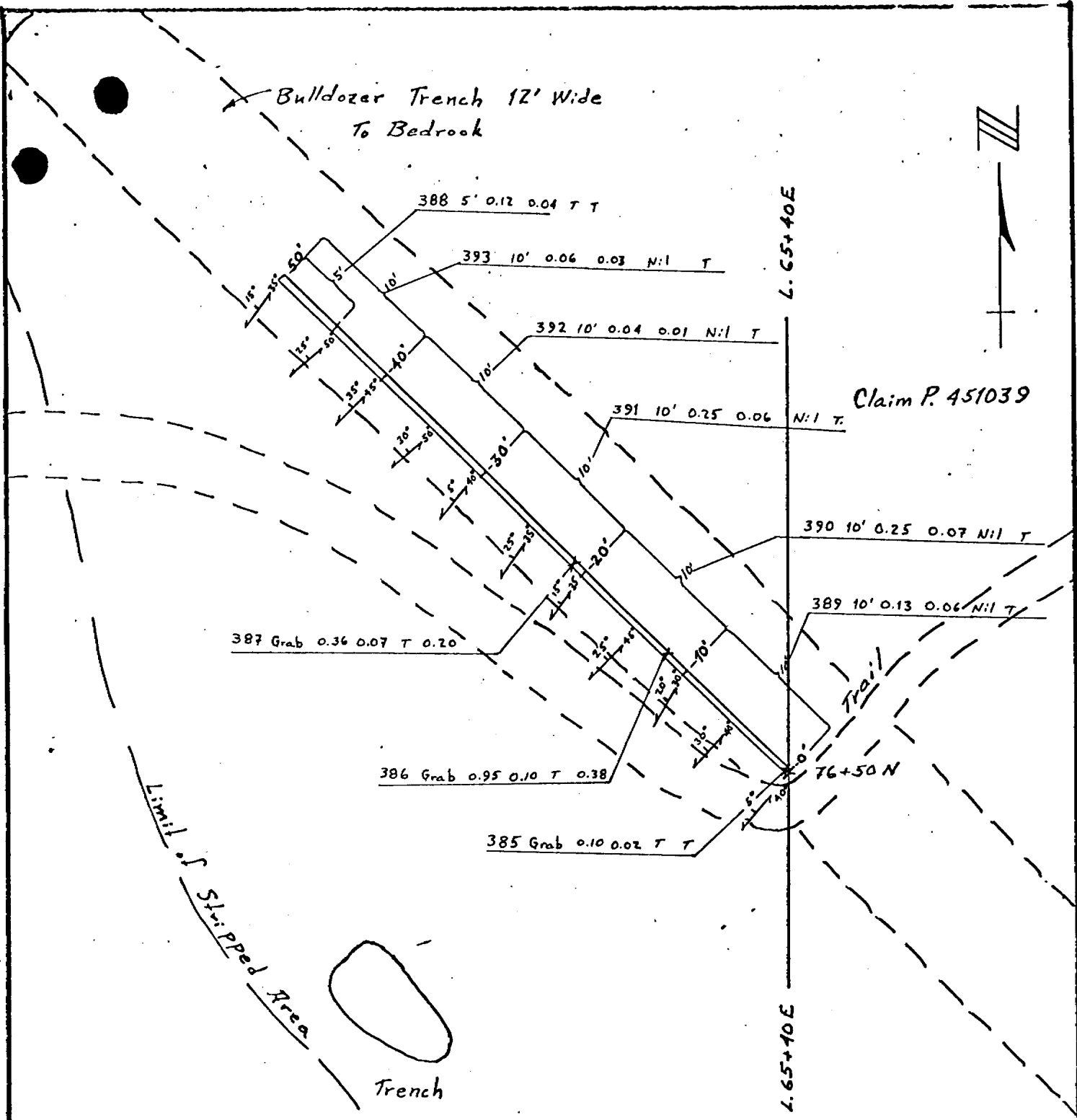
Claim Line

overburden

Claim Line

Scale 1" = 100'





Bulldozer Trench 12' Wide
To Bedrock

Claim P. 451039

Limit of Stripped Area



ROSARIO RESOURCES CORP.
WHITNEY TWP, ONT.
Scale 1" = 10'
Geology By: R. P. Bowen
Date: November 1976
Channel Sample Detail.

ORDER & VALUE OF ASSAYS

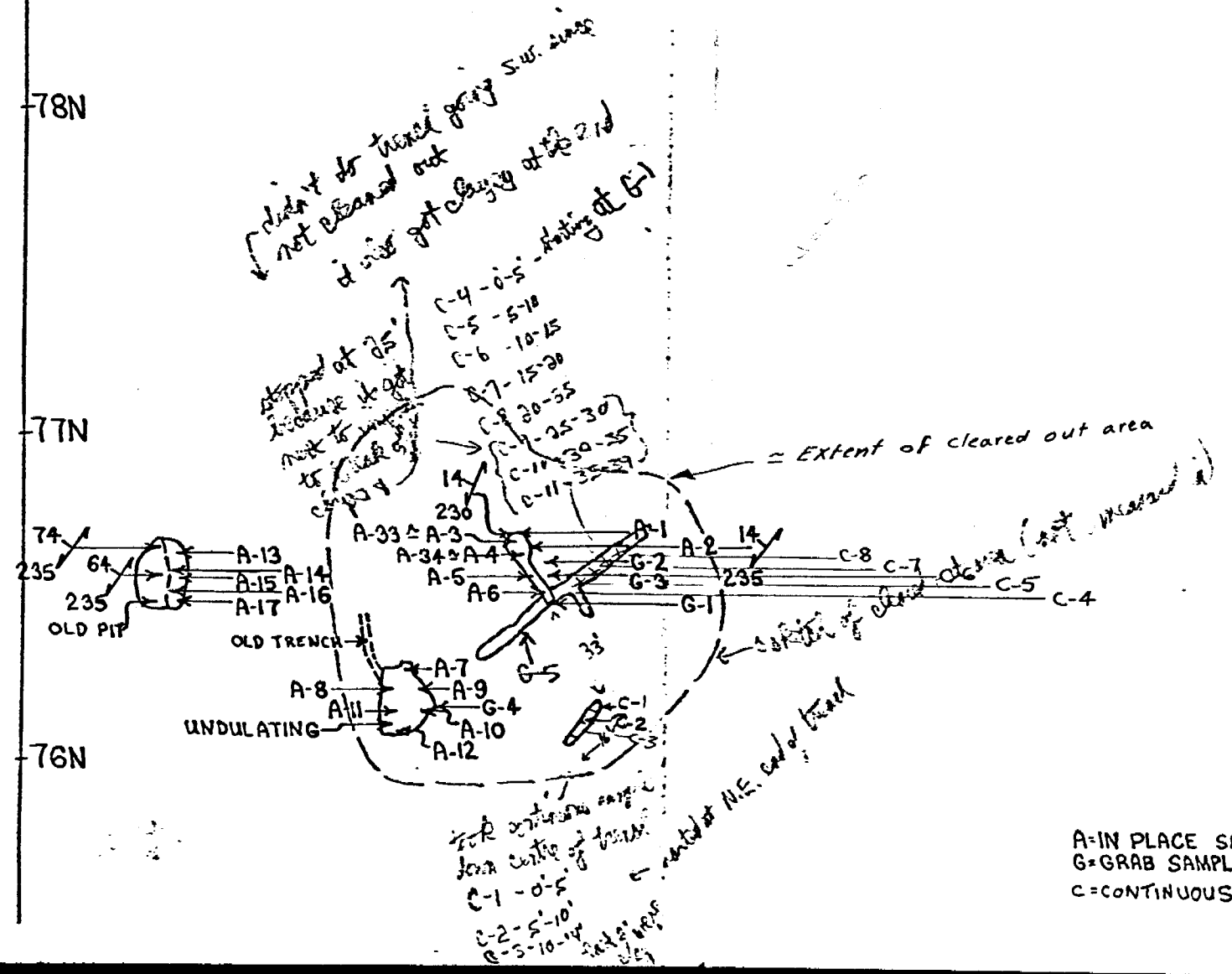
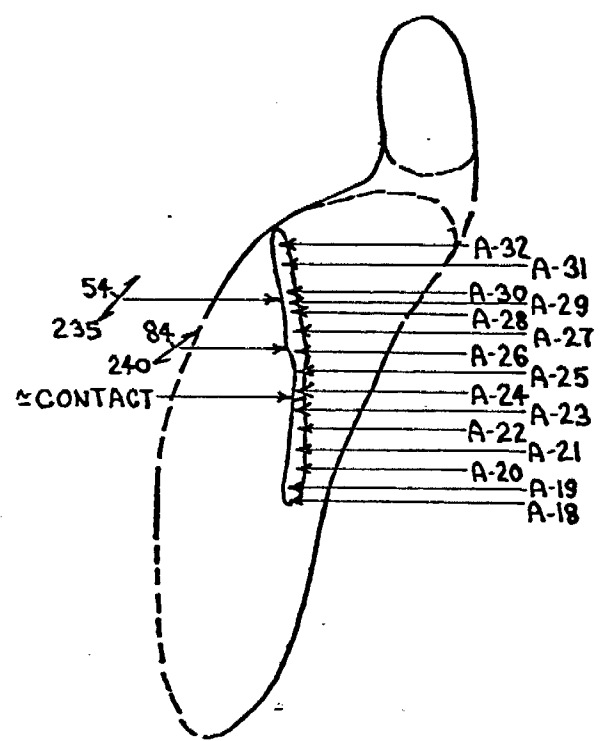
Type % Zn % Pb Oz/T Au Oz/T Ag

60+90E/61E 62E 63E 63+95E/80+34.5N 64E 65E 65E 67E 68E 68+14E
 MAG. BASE

WHITNEY TWP. - SAMPLE MAP
 SCALE: 1"=50'

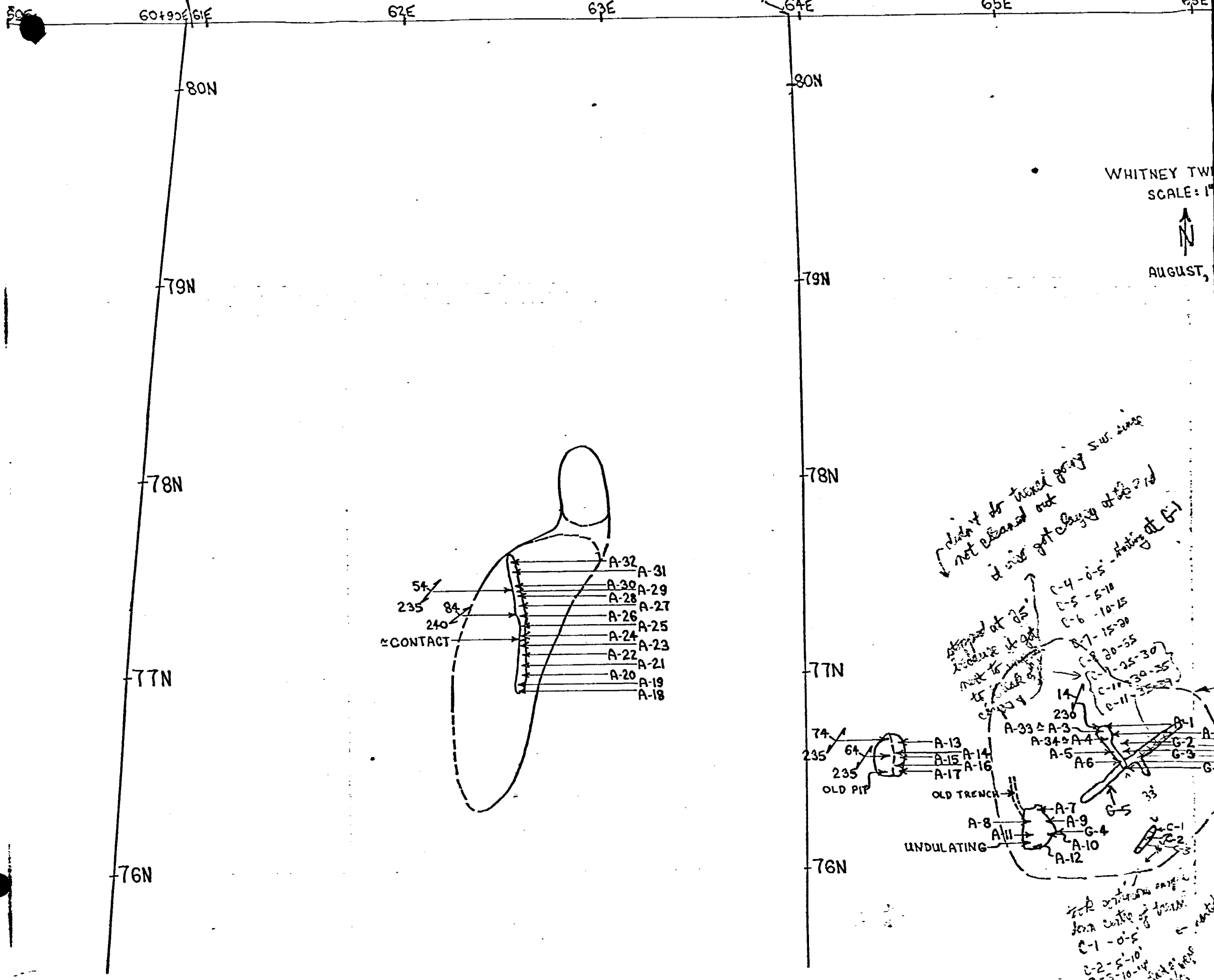


AUGUST, 1976



A=IN PLACE SAMPLE
 G=GRAB SAMPLE
 C=CONTINUOUS SAMPLE

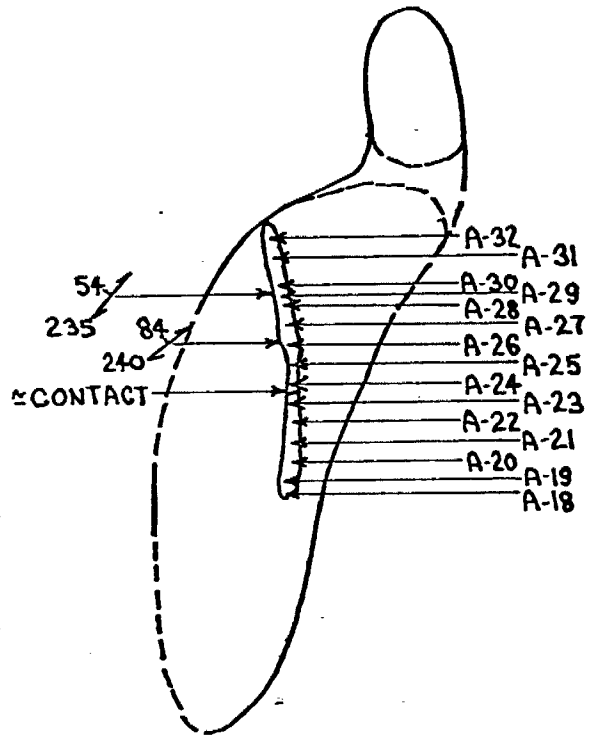
63+95E/80+34.5N
64E



WHITNEY TWP
SCALE: 1"

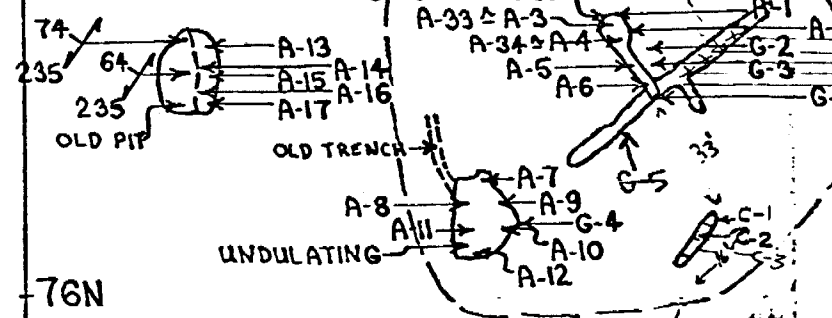


AUGUST,

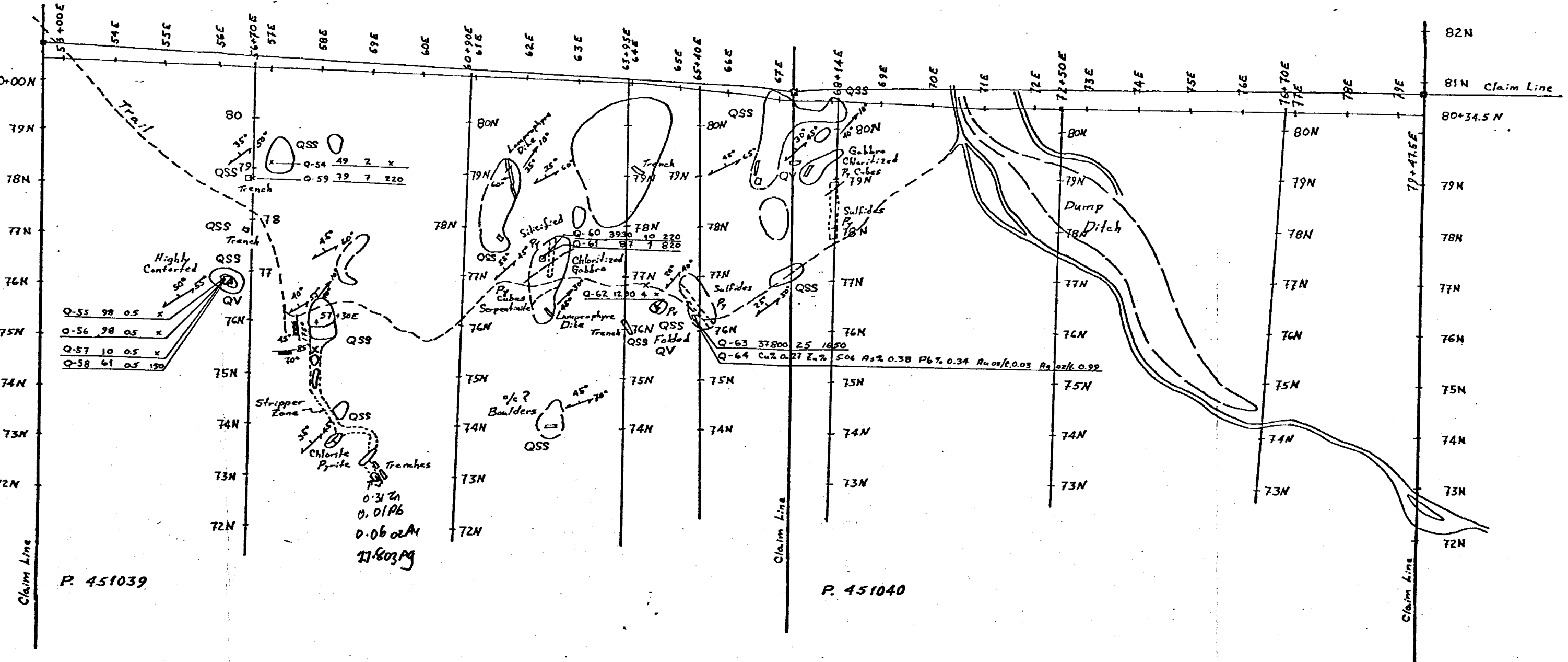


*didn't do trench going S.W. since
not cleaned out
didn't get closing of 2/18*

*stopped at 25'
because it got
next to trench
to clear
C-4 - 0-5 - starting at G-1
C-5 - 5-10
C-6 - 10-15
C-7 - 15-20
C-8 - 20-25
C-9 - 25-30
C-10 - 30-35
C-11 - 35-40*



*top section
don't cut to
C-1 - 0-5
C-2 - 5-10
C-3 - 10-15*



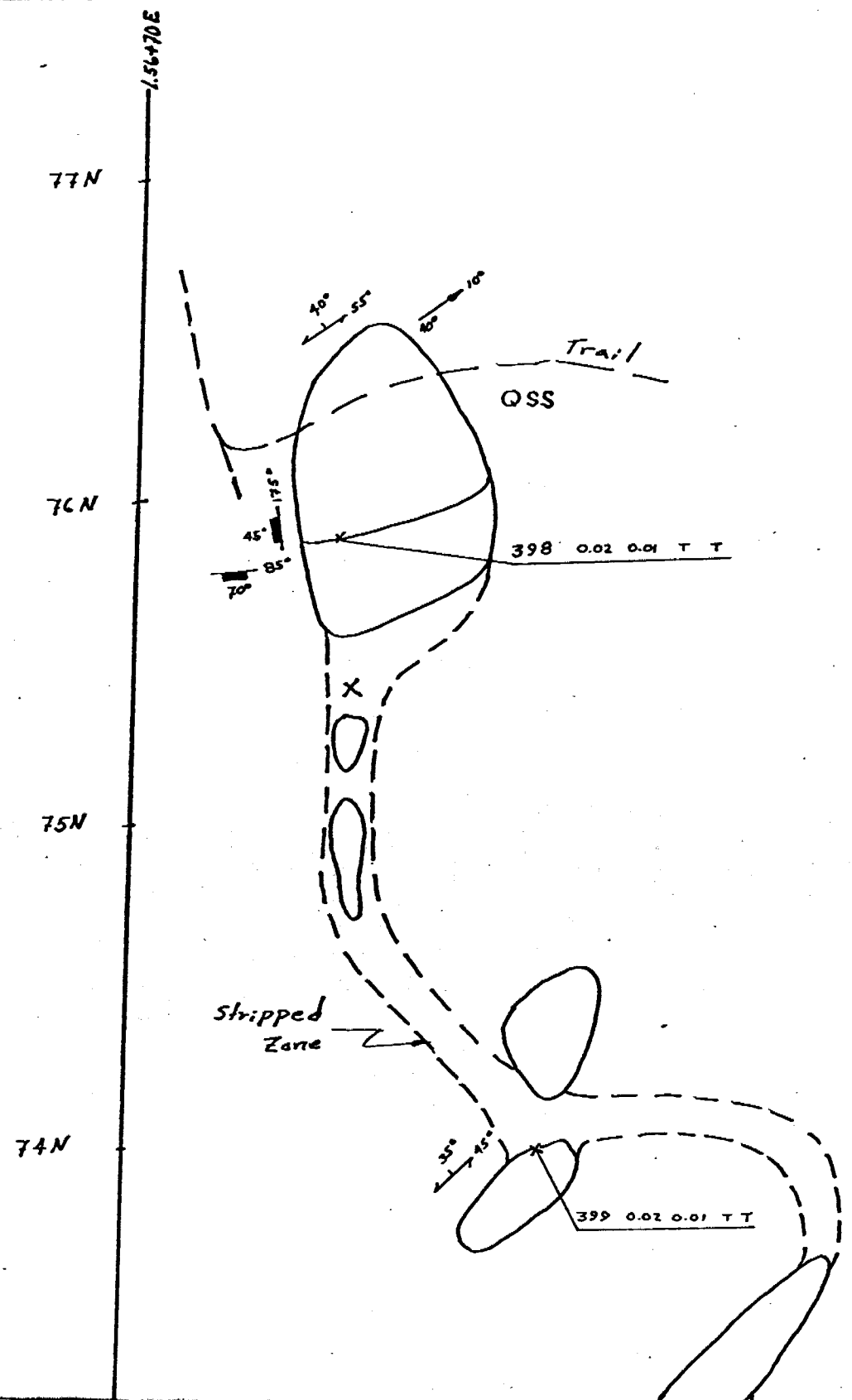
P. 451039

P. 451040

LOCATION
 NORTH 1/2 OF SOUTH 1/2 LOT 7, CON. III

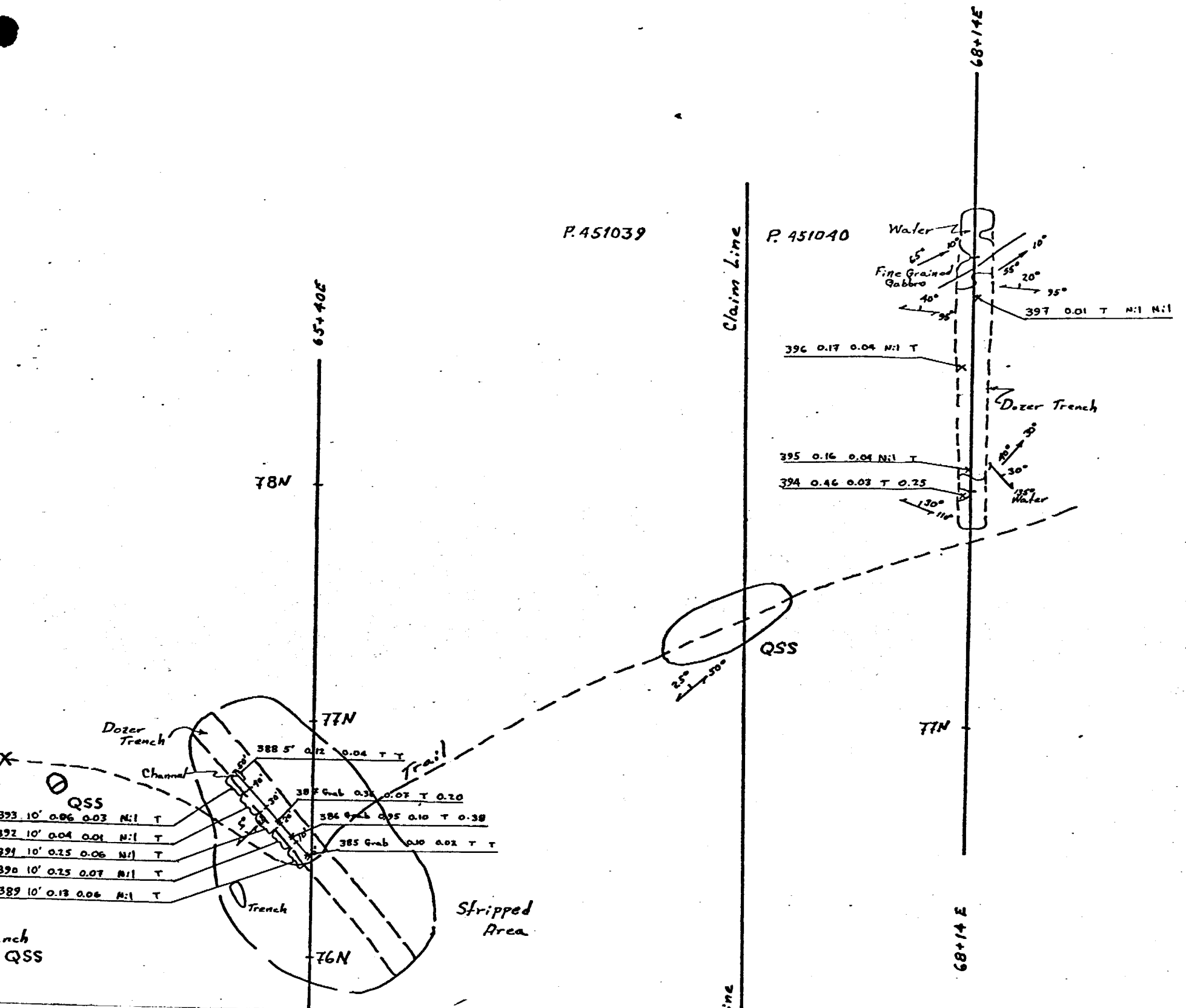
ORDER & VALUE OF ASSAYS

Geology By: R.P. Bowman
 Date: November 1976
 BOWEN - MIDDLETON SERIES
 Q-54 TO Q-64, JULY 1976



ORDER & VALUE OF ASSAYS

Q%
 Geology By: R.P. Bowen
 Date: November 1976
 BOWEN - PHILLIP SERIES
 385 - 100, NOVEMBER 1976



ORDER & VALUE OF ASSAYS

Geology By: R.P. Bowen
 Date: November 1976
BOWEN - PHILLIP SERIES
 385 - 400, NOVEMBER 1976

HOYLE TWP M-287

THE TOWNSHIP
OF 2. 2845
WHITNEY

DISTRICT OF
COCHRANE

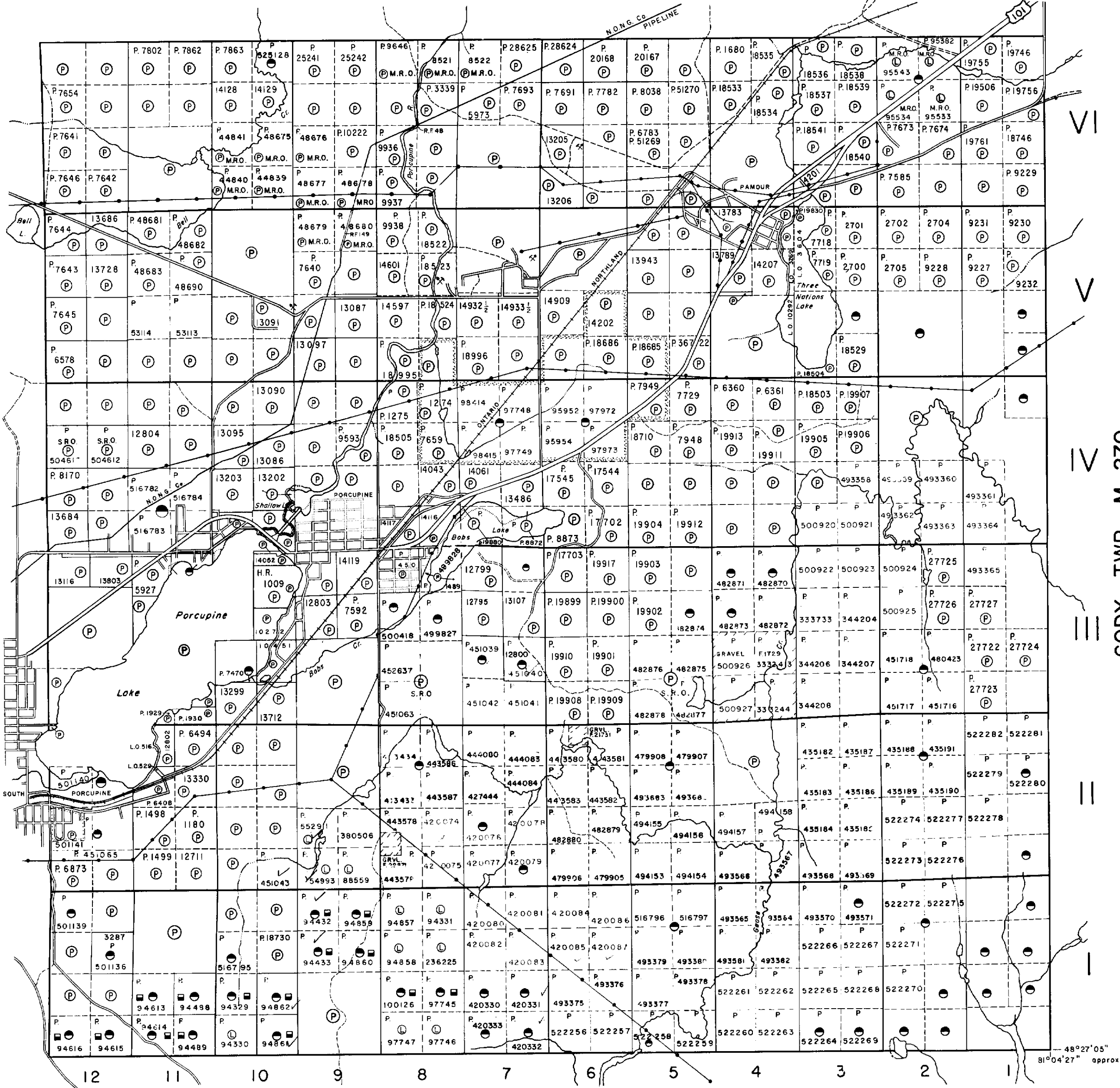
PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

TISDALE TWP M-315

CODY TWP M-270

SHAW TWP M-311



LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS (—)
- IMPROVED ROADS (—)
- KING'S HIGHWAYS (—)
- RAILWAYS (—)
- POWER LINES (—)
- MARSH OR MUSKEG (—)
- MINES (—)
- CANCELLED (—)
- S.R.O. PATENTED (—)
- M.R.O. LEASED (—)

NOTES

400' Surface rights reservation along the shores of all lakes and rivers.

This township lies within the Municipality of CITY of TIMMINS.

No disposition of sand and gravel on lands north of O.N.Ry. from May 8, 1964 until further notice. Form D.O.M. file 550.13

Any restakings within stippled area in Lots 5,6,7,8 Con. 4 and 5 subject to rights and privileges granted to Pamour Porcupine Mines Ltd for tailings disposal.

DATE OF ISSUE
NOV 2 1978
SURVEYS AND MAPPING
BRANCH

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

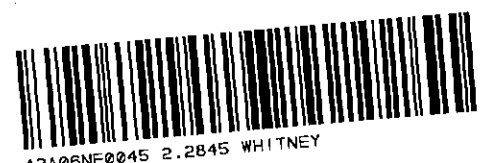
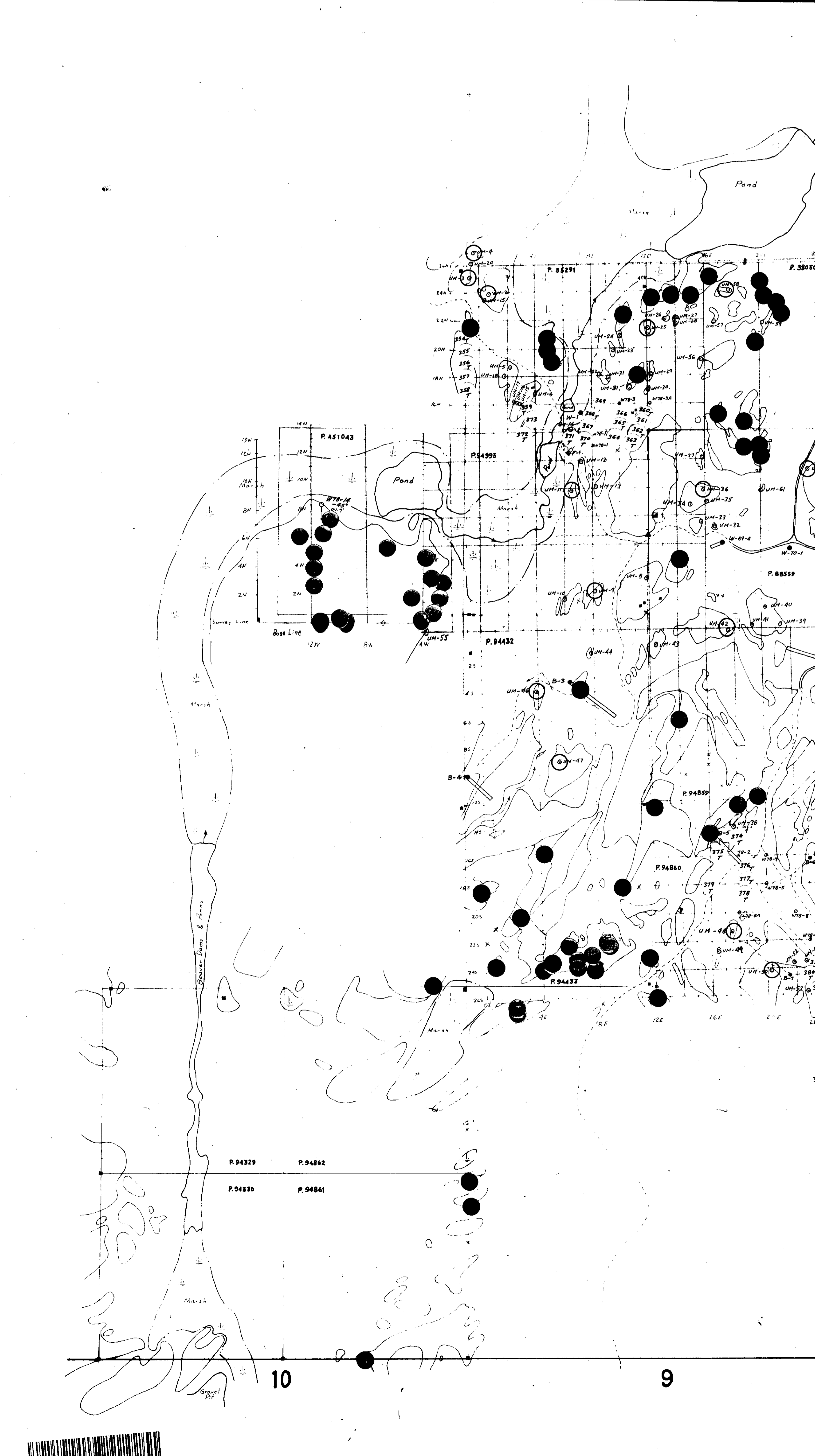
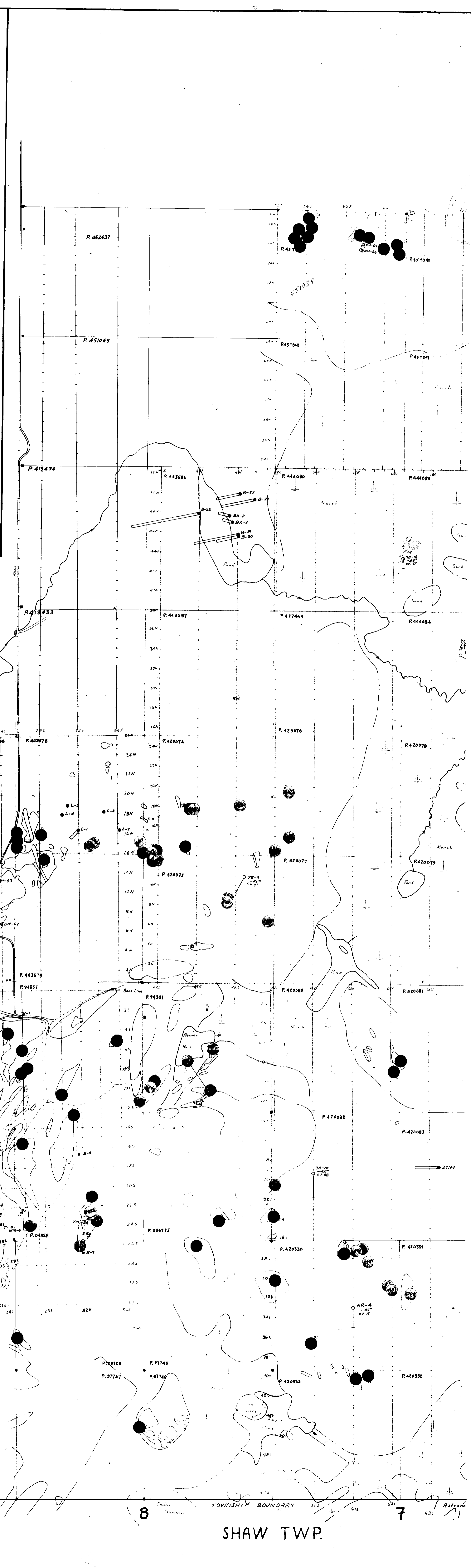
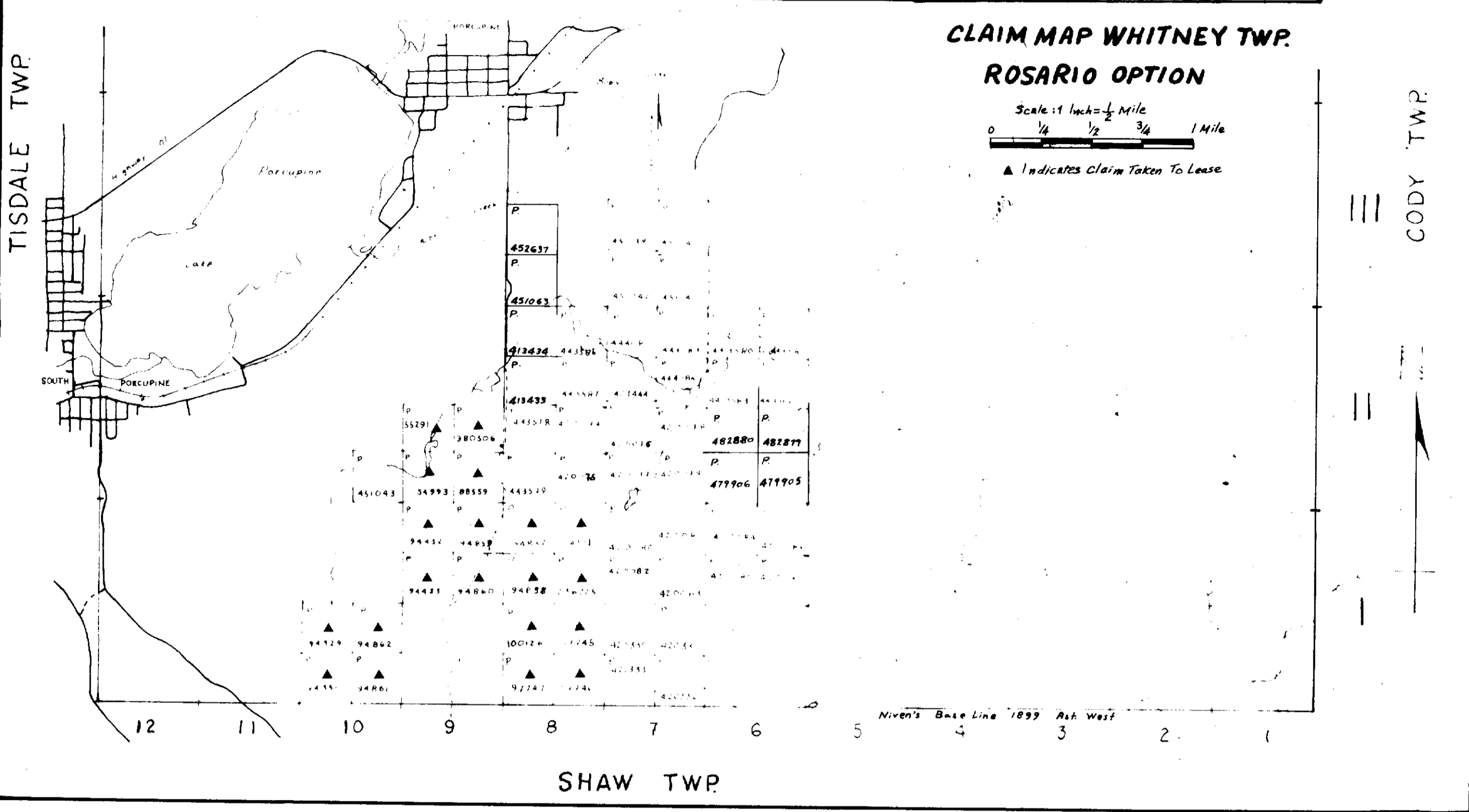
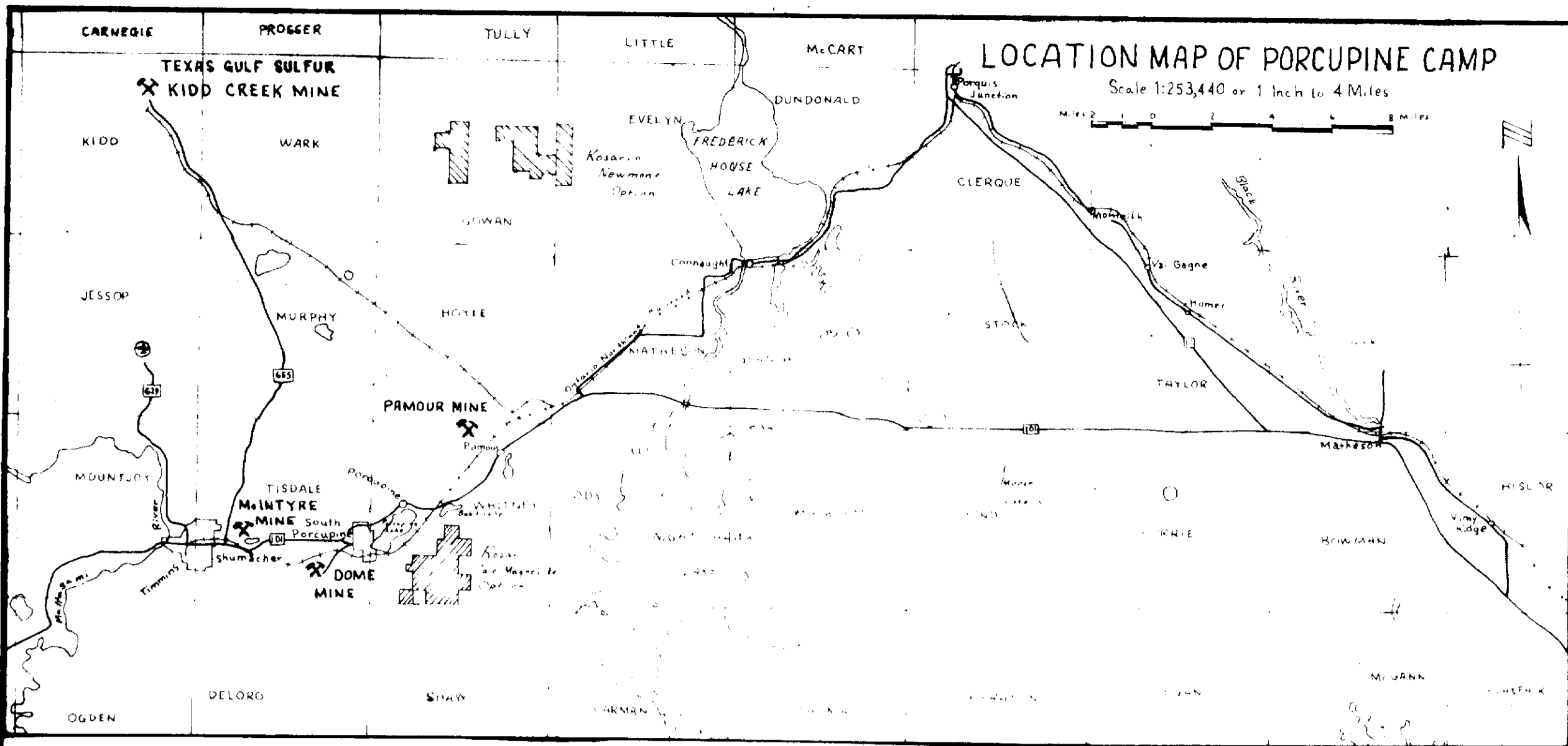
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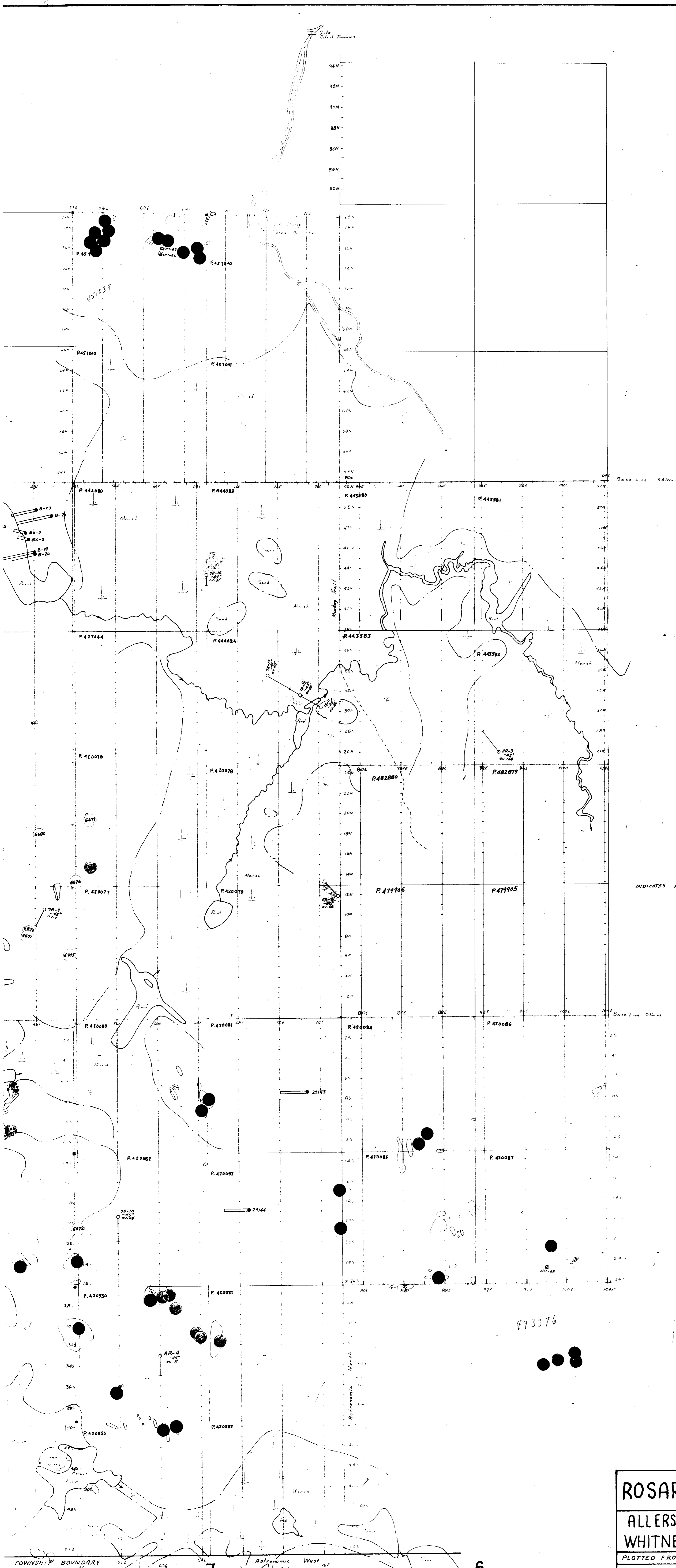
M.319



42A26NE0045 2.2845 WHITNEY

48°27'05"
81°04'27" approx.





III

II

I

LEGEND

- INDICATES ASSAYS
- BULK SAMPLES - TALC-MAGNESITE
- MAFIC-ULTRAMAFICS UM SERIES
- FELSIC VOLCANICS-IRON FORMATION
- Q SERIES - MAFIC-INTERMEDIATE VOLCANICS
- V SERIES - MAFIC-INTERMEDIATE VOLCANICS
- D SERIES
- S SERIES
- ALL OTHER SAMPLES
- UN-13
- Q-1
- V-2
- D-3
- S-2
- FOR THIN SECTION
- Assay or Rock Analysis also Available
- Thin Section Only
- 1978 Sample Locations
- Drill Hole

ROSARIO RESOURCES CORP.

**ALLERSTON CLAIM GROUP
WHITNEY TOWNSHIP, ONTARIO**

PLOTTED FROM LAND SURVEY MAP
SCALE 1" = 400' DRAWN BY: R.P. BOWEN

SAMPLE LOCATION MAP

GEOLOGY BY: R.P. BOWEN ASSISTED BY: J. WINTERS

SHAW TWP.