

TENEMENT: E.L. 162.

TENEMENT HOLDER: SAMIN LTD.

REPORT:

1975.

Valley Well Lead Project.

E.L. 162. Expenditure.

(Period: to January 28th, 1975.)

No plans.

pg.(4)

REPORT:

McLEAN D.S. & WRIGHT R.G. 1974-1975.

Valley Well Lead Project E.L. 162.

First quarterly report.

(Period: November 7th, 1974-February 6th, 1975.)

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Valley Well Lead Prospect.

pg.(8)

F. 1. Valley Well Lead Anomaly - Stream sediment sample plan. pg.(10)

F.2. Geological & Geochemical - Sketch plan Valley Well

Lead Anomaly.

(2495-7)

F.3. Composite cross sections - Valley Well Lead Anomaly

S.A. E.L. 162. (Sec. 1720 ME.)

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E.L. 162, S.A. (Sec. 1480ME.)

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No plans.

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AMDEL . 1975.

Amdel assey report AN2444/75.

No plans.

pgs. (27-28)

APPENDIX.3.

McPHAR GEOPHYSICS PTY.LTD.

Induced polarization, Pseudo - Sections.

pg. (29)

PLANS:

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| 2. | Valley Well - IP. survey 100E. | (2495-2) |
| 3. | Valley Well - IP. survey 100E. | (2495-3.) |
| 4. | Valley Well - IP. survey 112E. | (2495-4) |
| 5. | Valley Well - IP. survey 124E. | (2495-5) |
| 6. | Valley Well - IP. survey 148E. | (2495-6) |
-

VALLEY WELL LEAD PROJECT

004

Exploration Licence 162

EXPENDITURE TO THE 28TH JANUARY, 1975

Salaries/Wages/Overheads	\$ 585
Accommodation & Travelling Expenses	20
Geophysics - Contract	1,442
Geochemical analysis	299
Vehicle expenses	27
Lease & Claim costs	<u>4</u>
<u>TOTAL</u>	<u>2,377</u>

SAMIN LIMITED

005

(Incorporated in the State of South Australia)

VALLEY WELL LEAD PROJECT

Exploration Licence 162

FIRST QUARTERLY REPORT

7th November, 1974 to 6th February, 1975

by

D.S. MCLEAN

&

R.G. WRIGHT

Distribution :

1. S.A. Department of Mines
2. Board Room, Adelaide
3. Adelaide Office

ADELAIDE
February, 1975

	<u>TITLE</u>	<u>PAGE</u>
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Figure 2	Geological and Geochemical Sketch Plan Valley Well Lead Anomaly	Enclosed
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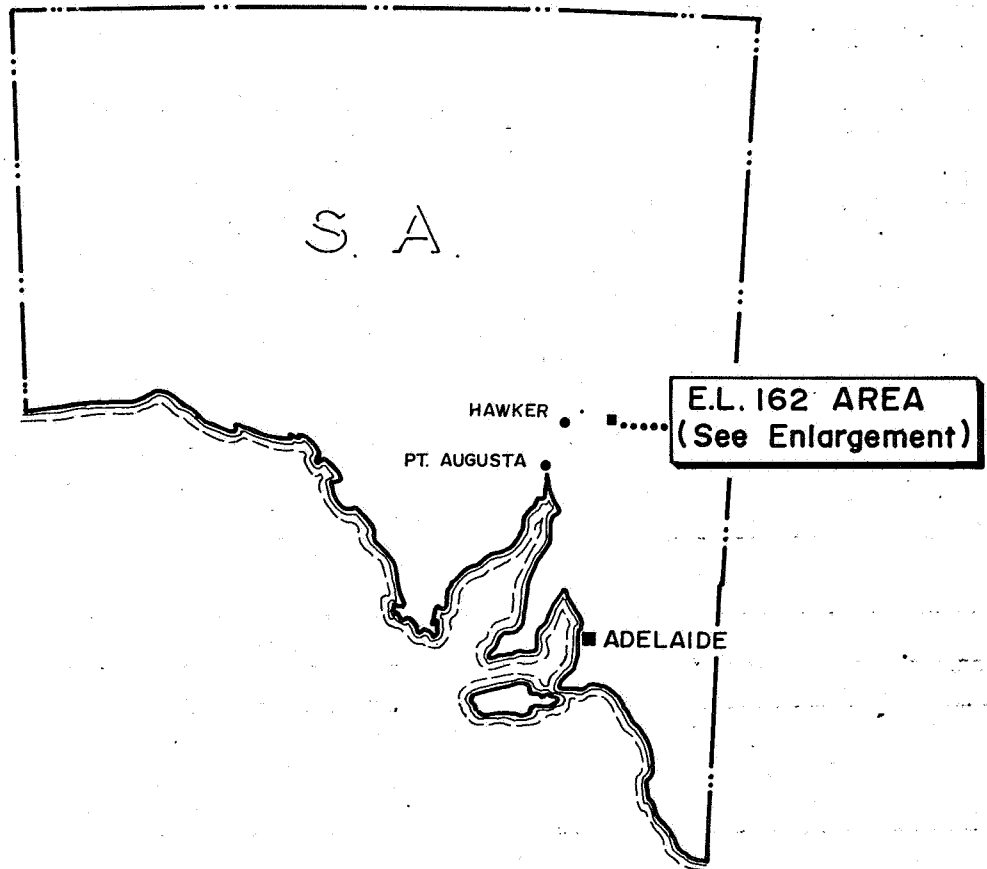
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- I Geochemical Assay Results - Burra Laboratory
- II AMDEL Assay Report AN 2444/75
- III McPhar Geophysics Pty. Ltd. - Induced Polarization
Pseudo - sections

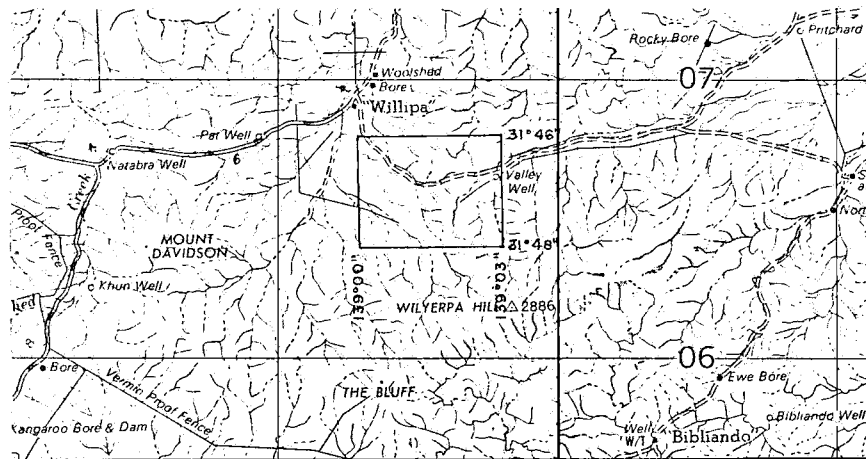
LOCATION PLAN

008

E.L. 162 VALLEY WELL LEAD PROSPECT



E.L. 162



PORTION OF PARACHILNA 1:250 000

VALLEY WELL LEAD PROJECT

Exploration Licence 162

009

FIRST QUARTERLY REPORT

7th November, 1974 to 6th February, 1975

1. INTRODUCTION

Exploration Licence 162 was granted to Samin Limited for a period of 6 months on 6th November, 1974. The licence, which adjoins the NW portion of Samin Limited's Exploration Licence 119, has an area of 18 sq. km and covers portion of Willippa Station, approximately 58 km ENE of Hawker.

Lead stream sediment anomalies were first reported SW of Valley Well by Petrocarb Exploration N.L., (1970-72). Follow-up by Samin Limited in late 1973 located traces of galena in thin calcite veining in siltstone fragments on the old well dump. Limited stream sediment sampling carried out during the investigation of E.L. 119 confirmed Petrocarb's results.

As E.L. 119 did not cover the stream anomalies application was made for a small licence to protect the ground while exploration was continued.

2. GEOLOGY

Rocks exposed within the licence comprise Wilyerpa Formation sandstone-quartzites, siltstones and thin glacial beds overlain to the north by Tindelpina shale and Tapley Hill siltstones. The beds strike between 030-060° M and dip NW at between 30-40°.

South west and along strike from Valley Well sporadic galena mineralization in calcite veining occurs in irregular zones of strong fracture cleavage within Wilyerpa Formation siltstone.

3. STREAM SEDIMENT GEOCHEMISTRY

Twenty stream sediment samples were collected in the area SW of Valley Well. No other samples were collected because of previous coverage by Petrocarb Exploration N.L.

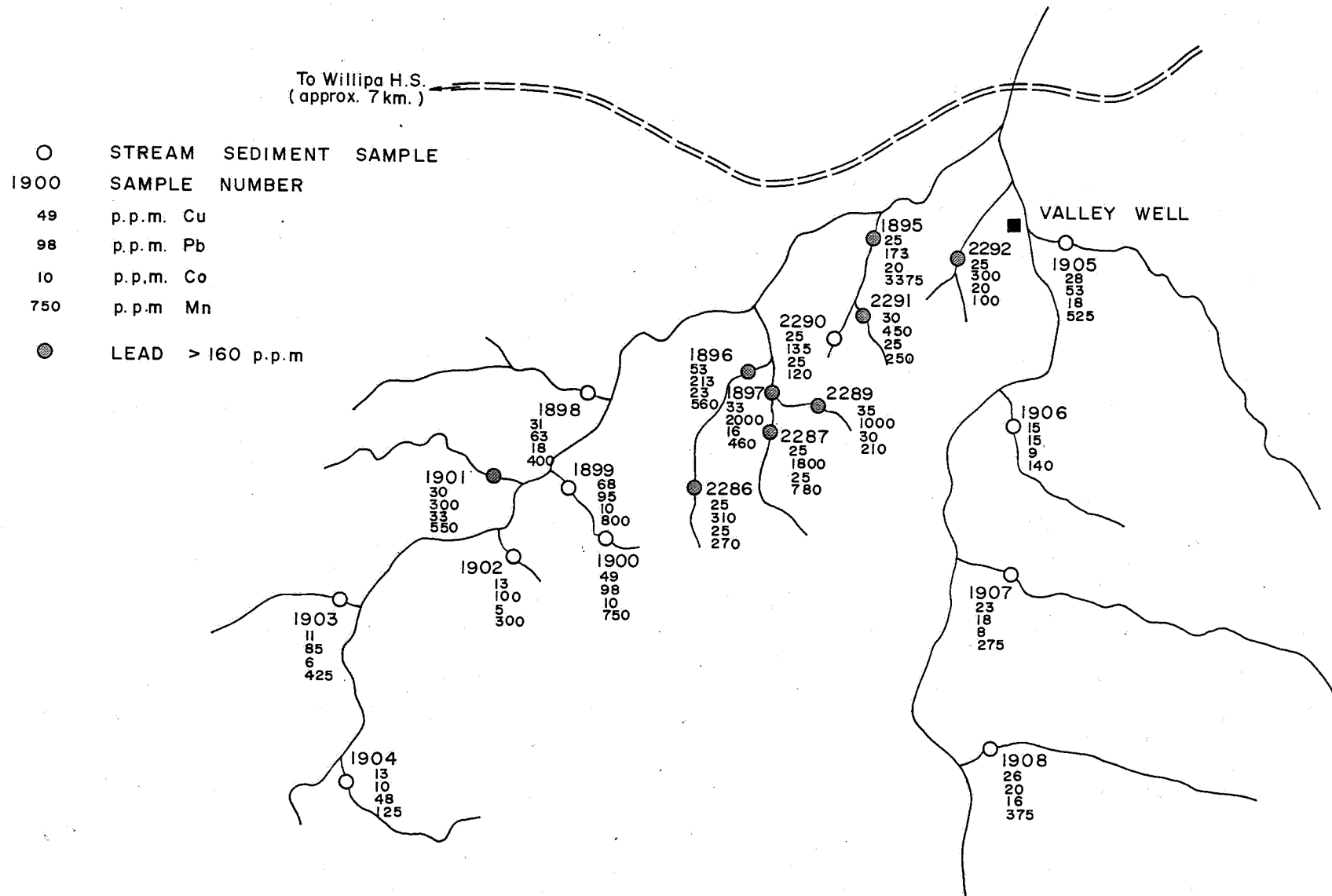
SAMIN LIMITED

VALLEY WELL LEAD ANOMALY
STREAM SEDIMENT SAMPLE PLAN

010

E.L. 162 VALLEY WELL S.A

SCALE 1:12,500



The -20 +40 mesh fraction of the stream sediment was sieved out and sent to Burra Laboratory for assay by A.A.S. for copper, lead, cobalt and manganese. Details of orientation work and laboratory procedures are recorded in Hooper and Wright, (1974.) Results are presented in Figure 1. Follow-up above stream sample sites 2287 and 2289 located float galena fragments upto 2 cm in diameter.

4. SOIL GEOCHEMISTRY

To further investigate the stream sediment anomalies nine grid lines spaced 120 m apart were surveyed in across the strike of the anomalous zone. (Refer Fig. 2)

Soil samples were collected at 15 m intervals at depths of between 10-20 cms in the poorly developed, residual/colluvial sandy silts wherever a possible clay-bearing B horizon was thought to have developed.

The -80 mesh fraction was selected for assay after brief orientation work as detailed in McLean and Wright, (1974). Soil sampling results are presented in plan and section on Figures 2-7 inclusive.

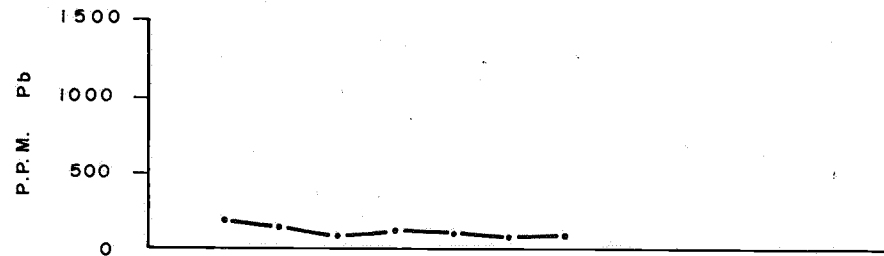
Follow-up of the soil sampling traverses located a number of sites where traces of galena occurred in irregular calcite veining. The calcite-galena veins, upto 7 cms thick, infill zones of strong fracture cleavage aligned roughly parallel with the strike of bedding but dipping possibly 60° SE. The soil anomaly resulting from these veins is over 400 m long and it was thought that the prospect may have had possibilities as a moderate tonnage, low-grade stockwork deposit.

Arsenic was determined in -80 mesh soil from lines 880 m E, 1,000 m E and 1,240 m E as a possible pathfinder for lead or gold mineralization. Results show only background variation with no correlation with lead mineralization.

SAMIN LIMITED
 COMPOSITE CROSS SECTIONS
 VALLEY WELL LEAD ANOMALY
 E.L. 162 VALLEY WELL S.A.
 SCALE 1:2000

012

SECTION 1720 mE

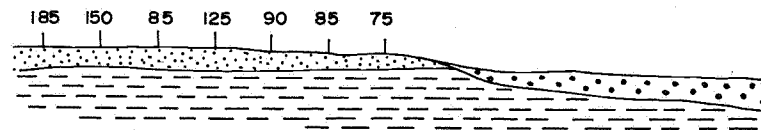


COLLUVIUM / ALLUVIUM

COLLUVIUM

PREDOMINANTLY POORLY EXPOSED SILTSTONE

75 SOIL SAMPLE
 (-80 MESH FRACTION)
 p.p.m. Pb

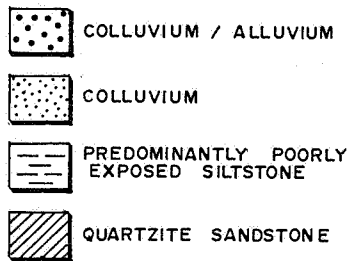


20mN —
 50mN —
 80mN —
 110mN —
 140mN —
 170mN —
 200mN —
 230mN —
 260mN —
 290mN —
 320mN —
 350mN —
 380mN —
 410mN —
 440mN —
 470mN —
 500mN —

COMPOSITE CROSS SECTIONS
VALLEY WELL LEAD ANOMALY
E.L. 162 VALLEY WELL S.A.

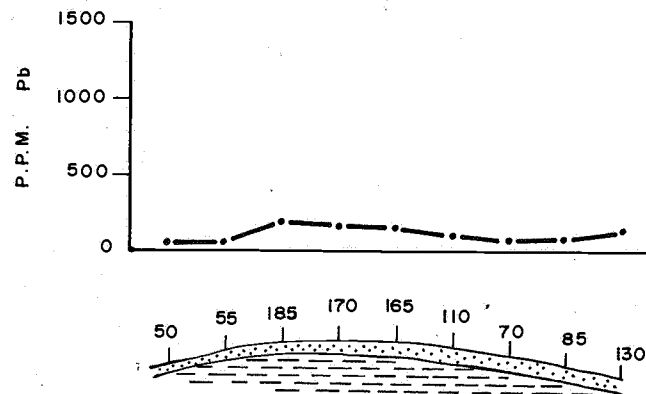
013

SCALE 1:2000



450
SOIL SAMPLE
(-80 MESH FRACTION)
p.p.m. Pb

SECTION 1480 m E



SECTION 1600 m E

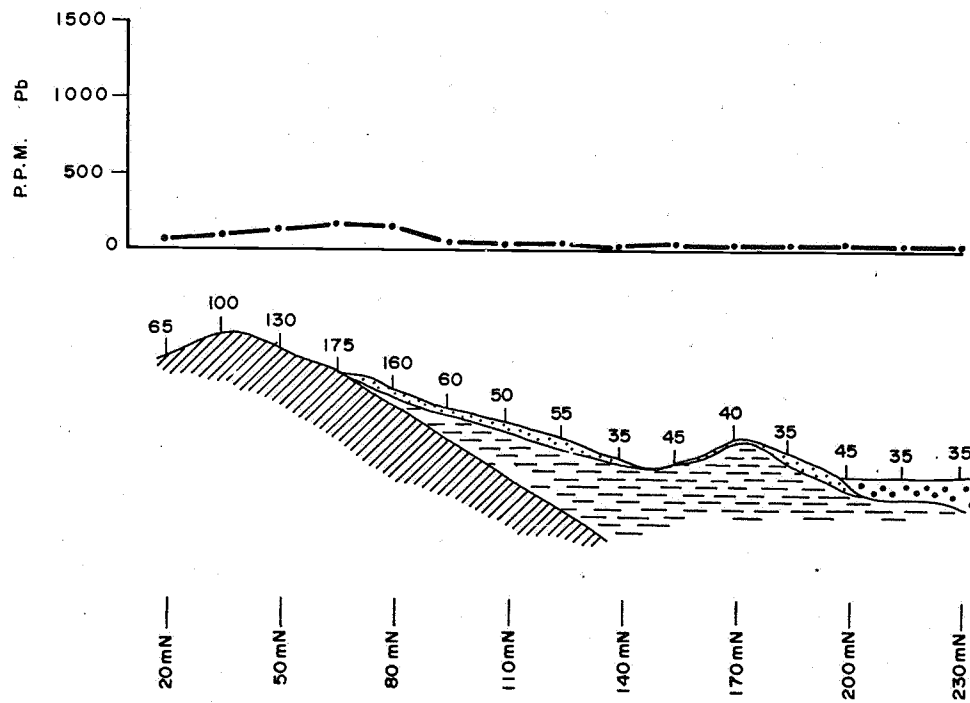
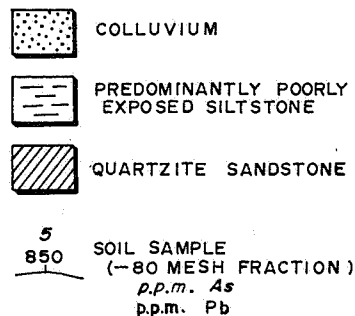


FIG 4

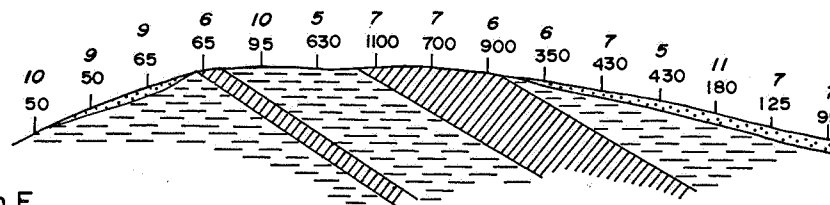
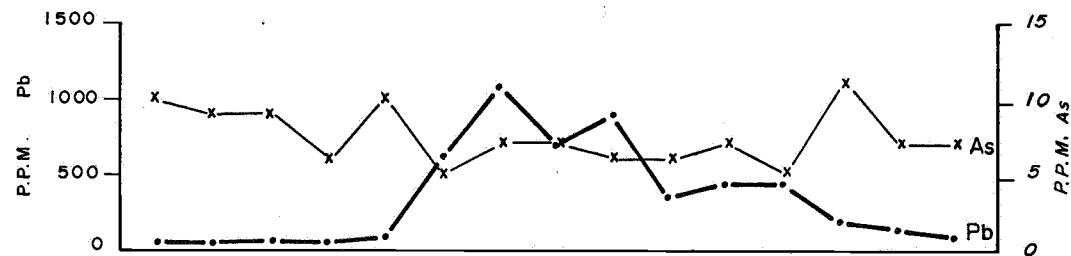
SAMIN LIMITED
COMPOSITE CROSS SECTIONS
VALLEY WELL LEAD ANOMALY
E.L. 162 VALLEY WELL S.A.

014

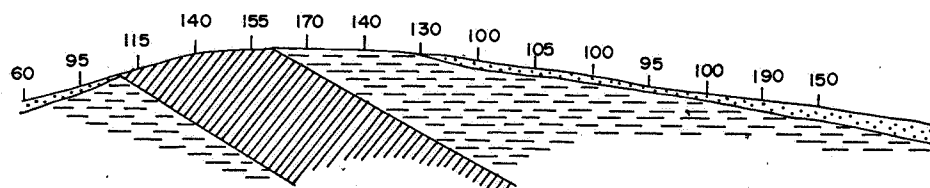
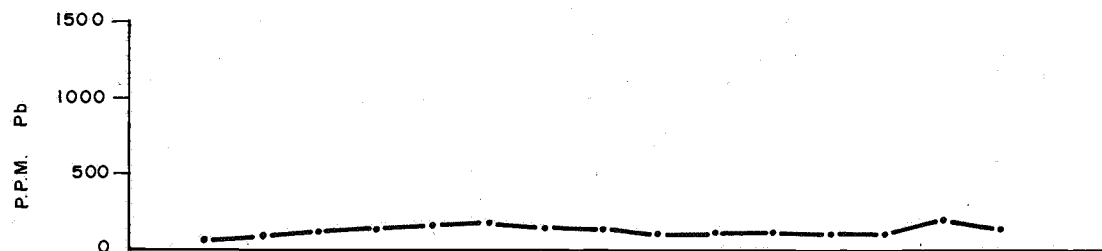
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SECTION 1240 m E



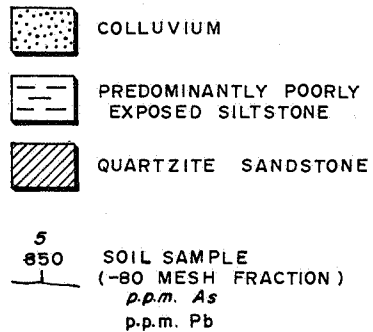
SECTION 1360 m E



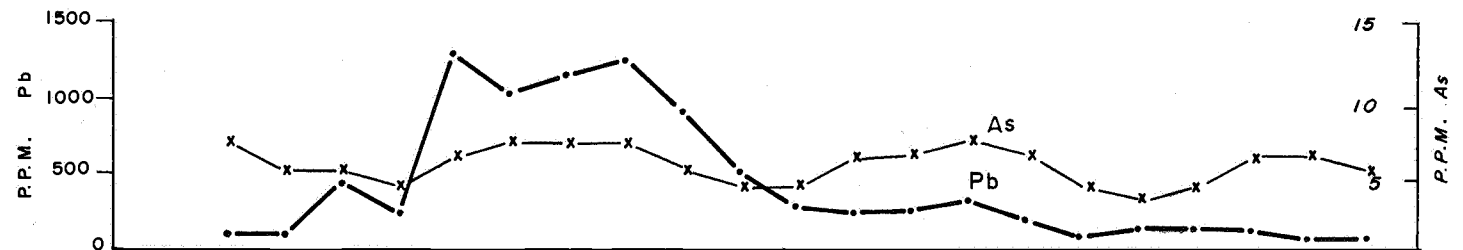
20mN —
 50mN —
 80mN —
 110mN —
 140mN —
 170mN —
 200mN —
 230mN —
 260mN —
 290mN —
 320mN —
 350mN —
 380mN —
 410mN —
 440mN —
 470mN —
 500mN —

SAMIN LIMITED
 COMPOSITE CROSS SECTIONS
 VALLEY WELL LEAD ANOMALY
 E.L. 162 VALLEY WELL S.A.
 SCALE 1:2000

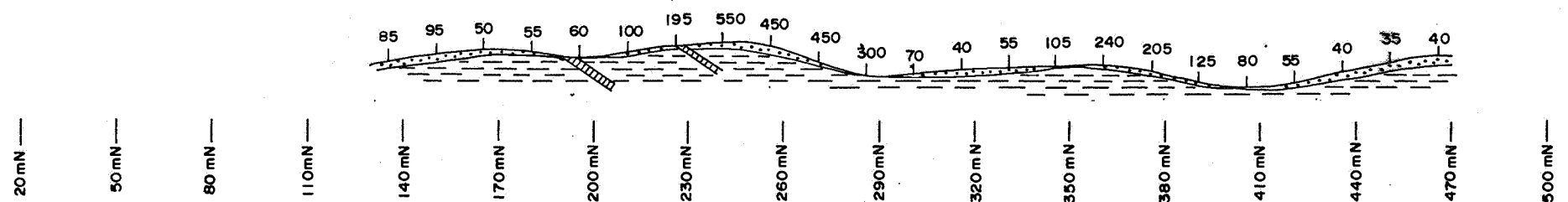
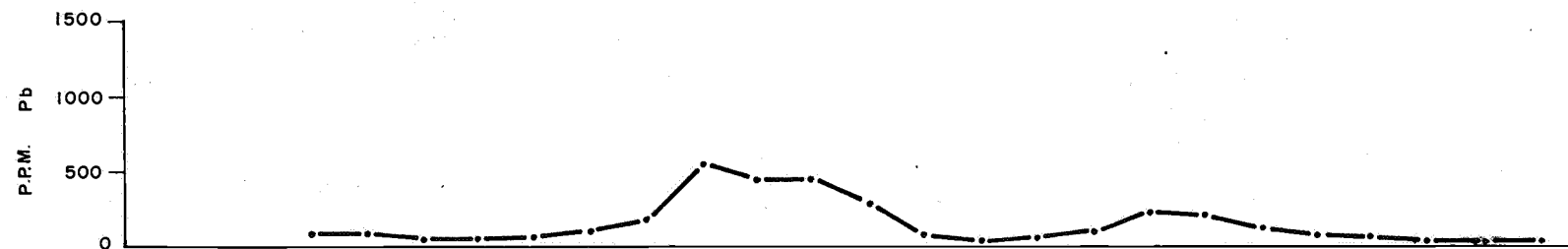
015



SECTION 1000 m E



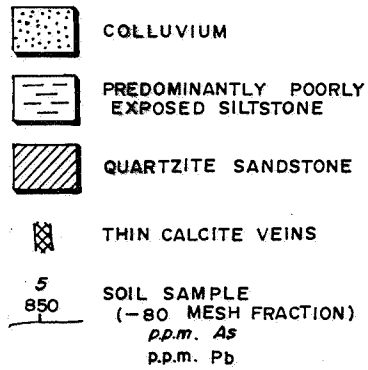
SECTION 1120 m E



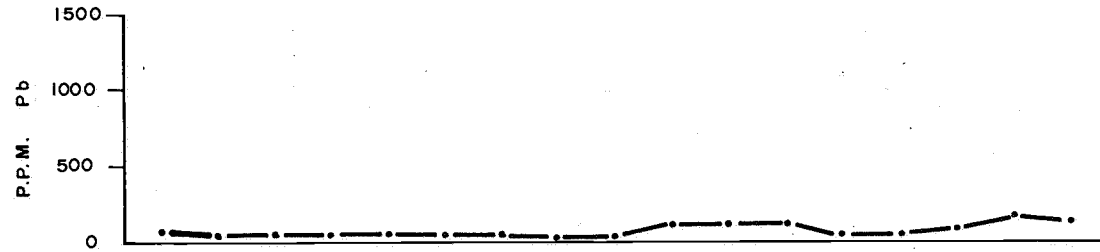
SAMIN LIMITED
COMPOSITE CROSS SECTIONS
VALLEY WELL LEAD ANOMALY
E.L. 162 VALLEY WELL S.A.

016

SECTION 760 m E



SCALE 1:2000



SECTION 880 m E

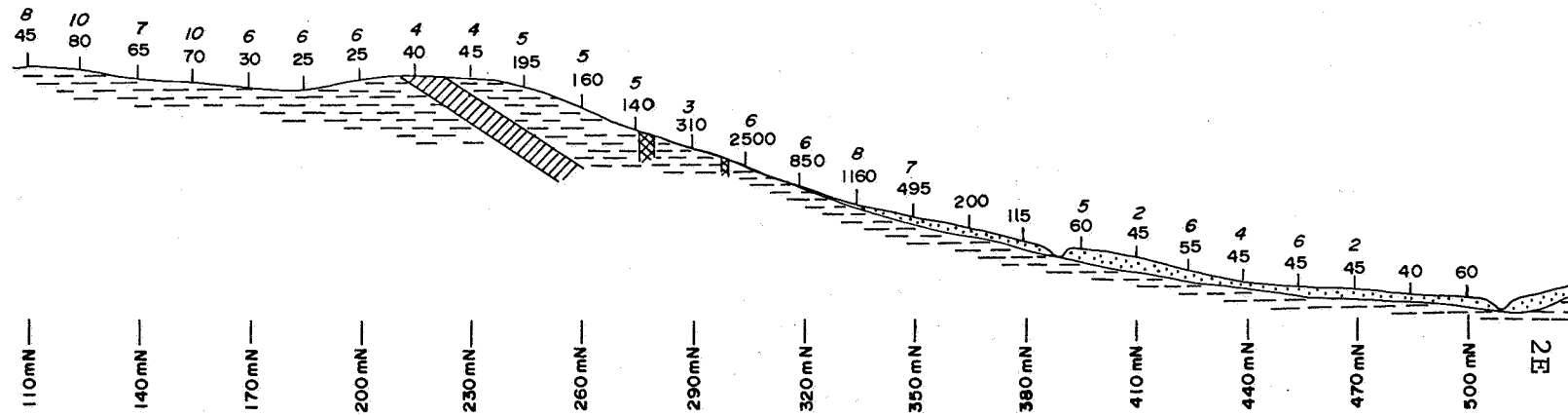
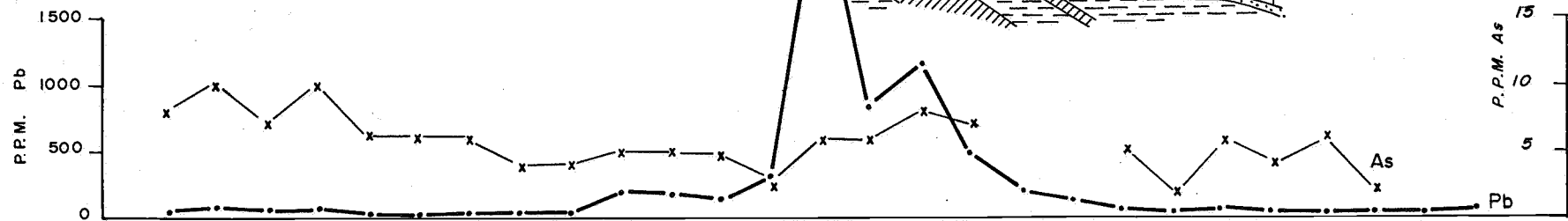


FIG. 7

A composite sample of float galena fragments was submitted to AMDEL to determine the precious metal content of the lead mineralization. Unlike the silver-rich Baratta lead deposits the Valley Well galena contains only 64 ppm silver and <0.3 ppm gold.

5. INDUCED POLARIZATION SURVEY

To determine the possible extent of stockwork galena mineralization an Induced Polarization survey was carried out by McPhar Geophysics Pty. Ltd. along grid lines 880 m E, 1,000 m E, 1,120 m E, 1,240 m E and 1,480 m E. The resultant pseudo-sections are appended as Appendix III.

Weak probable anomalies were detected on grid lines 1,000 m E and 1,120 m E centred below 320-380 m N and 290-350 m N respectively. Resurveying of line 1,000 m E using 30 m spread lengths failed to further resolve the anomaly.

Increasing frequency effects recorded on the northern end of grid line 1,480 m E are believed to be caused by build up of graphite and ? pyrite within the Tindelpina Shale Member.

The IP results suggest that no wide zone of disseminated sulphide mineralization exists below the Valley Well lead anomaly.

6. CONCLUSIONS AND RECOMMENDATIONS

The Valley Well lead anomaly has been thoroughly investigated with stream and soil sampling and geological mapping followed up by an IP survey. The work has revealed only minor lead mineralization in thin calcite veins in zones of strong fracture cleavage. No further work is warranted and it is recommended that the Exploration Licence by relinquished.

D.S. McLean
D.S. MCLEAN,
GEOLOGIST.

R.G. Wright
R.G. WRIGHT
SENIOR GEOLOGIST.

REFERENCES

018

Hooper, G.J. & Wright, R.G., 1974

Bibliando Copper Project

E.L. 119

Samin Limited

Second Quarterly Report 1974/10

McLean, D.S. & Wright, R.G., 1974

Bibliando Copper Project

E.L. 119

Samin Limited

Third Quarterly Report 1974/24

Petrocarb Exploration N.L. 1970-1972 Quarterly reports on

Special Mining Leases 421 and 579,

Baratta.

S.A. Department of Mines Open File Envs.

1414 & 1666.

APPENDIX I

019

GEOCHEMICAL ASSAY RESULTS

-BURRA LABORATORY

SAMIN LIMITED

020

INTER-OFFICE MEMORANDUM

Mr. R. Wright

From: Mr. C. Van der Does

Date: 3rd September, 1974

ur Ref No. BA 226


Your Ref. No.

Subject: SUBJECT: BIBLIANDO COPPER PROJECT.

SOIL SAMPLES

Sample No.	<u>Corrected</u>		<u>Uncorrected</u>		
	<u>Pb (ppm)</u>		<u>Pb (ppm)</u>	<u>mN</u>	<u>mF</u>
Glenwarick Hut	2204	10	20	100	100
Pb Anomaly	05	10	25	115	100
	06	25	45	130	100
	07	15	35	145	100
	08	10	35	160	100
	09	10	30	175	100
	2210	10	25	190	100
	11	25	50	205	100
	12	25	40	220	100
	13	30	45	235	100
	14	25	45	250	100
	15	15	35	280	220
	16	25	45	265	220
	17	15	40	250	220
	18	30	45	235	220
	19	730	730	220	220
	2221	25	30	205	220
	22	25	40	190	220
	23	15	35	175	220
	24	20	40	160	220
	25	10	30	145	220
	26	10	25	130	220
	28	15	20	115	220
	29	20	25	100	220
	2230	15	20	160	340
	31	15	20	175	340
	32	10	25	190	340
	33	10	30	205	340
	34	15	30	220	340
	35	10	30	235	340
	36	10	30	250	340
	2237	10	30	265	340
	38	10	30	280	340
	39	15	30	295	340
	2240	15	30	310	340
Valley Well	2294	60	70	500	880
Pb Anomaly	95	40	65	485	880

<u>Sample No.</u>	<u>Corrected</u>	<u>Uncorrected mN</u>	<u>mE</u>	
Valley Well				
Pb Anomaly				
cont.				
2296	45	60	470	880
97	45	65	455	880
98	45	50	440	880
99	55	65	425	880
2300	45	50	410	880
01	280	290	350	1000
02	240	255	365	1000
03	250	255	380	1000
04	310	325	395	1000
05	195	210	410	1000
06	85	100	430	1000
07	125	140	440	1000
08	135	150	455	1000
09	115	130	470	1000
2310	60	75	485	1000
11	70	85	500	1000
12	60	75	395	880
15	495	495	350	880
16	1160	1160	335	880
17	850	850	320	880



C.A. Van der Does,
Chief Chemist.

SAMIN LIMITED

022

INTER-OFFICE MEMORANDUM

To: Mr. R. Wright

From: Mr. C. Van der Does

cc:

Date: 21st November, 1974

Our Ref No. BA 252

Your Ref. No.

3.

Subject: ASSAY RESULTS (CONT'D)

<u>Sample No.</u>	<u>Cu (ppm)</u>	<u>Co (ppm)</u>	<u>Pb (ppm)</u>
Valley Well Pb Anom.			
2401			125
			170
03			85
04			45
05			40
06			120
07			115
08			110
09			35
2410			35
11			40
12			45
13			50
14			40
15			50
16			50
17			70
18			45
19			80
2420			65
21			70
22			30
23			25
24			25
25			40
26			45
27			195
28			160
29			140
2430			310
31			2500
32			500
33			900
34			1250
35			1150
36			1020
37			1300
38			230
39			430

SAMIN LIMITED

023

INTER-OFFICE MEMORANDUM

To: Mr. R. Wright

From: Mr. C. Van der Does

Cc:

Date: 21st November, 1974

Our Ref No. BA 252

Your Ref. No.

4.

Subject: ASSAY RESULTS (CONT'D)

<u>Sample No.</u>	<u>Cu (ppm)</u>	<u>Co (ppm)</u>	<u>Pb (ppm)</u>
2440			100
41			100
42			85
43			95
44			50
45			55
46			60
47			100
48			190
49			550
2450			450
51			450
52			300
53			70
54			40
55			55
56			105
57			240
58			205
59			125
2460			80
61			55
62			40
63			35
64			40
65			95
66			125
67			180
68			430
69			430
2470			350
71			900
72			700
73			1100
74			630
75			95
76			65
77			65
78			50
79			50

...Cont'd /5.

SAMIN LIMITED

024

INTER-OFFICE MEMORANDUM

To: Mr. R. Wright

From: Mr. C. Van der Does

cc:

Date: 21st November, 1974

Our Ref No. BA 252

Your Ref. No.

5.

Subject: ASSAY RESULTS (CONT'D)

<u>Sample No.</u>	<u>Cu (ppm)</u>	<u>Co (ppm)</u>	<u>Pb (ppm)</u>
2480			60
81			95
82			115
83			140
84			155
85			170
86			140
87			130
88			100
89			105
2490			100
91			95
92			100
93			190
94			150
95			130
96			85
97			70
98			110
99			165
2500			170
01			185
02			55
03			50
04			65
05			100
06			130
07			175
08			160
09			60
2510			50
11			55
12			35
13			45
14			40
15			35
16			45
17			35
18			35

...Cont'd /6.

SAMIN LIMITED

025

INTER-OFFICE MEMORANDUM

Action

Information

To: Mr. R. Wright

From: Mr. C. Van der Does

File:

cc:

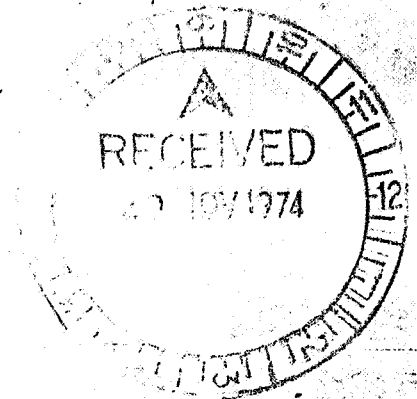
Date: 28th November, 1974.

Our Ref No. BA 255

Your Ref. No.

Subject: VALLEY WELL LEAD ANOMALY

<u>Sample No.</u>	<u>Pb (ppm)</u>
2561 -80#	50
62	115
63	1150
64	290
65	45
66	55
67	45
68	35
69	40
2570	55
71	55
72	40
73	40
74	40
75	40
76	150
77	85
78	185
79	125
2580	90
81	85
82	75



C. Van der Does

C. Van der Does,
Chief Chemist.

SAMIN LIMITED

026

INTER-OFFICE MEMORANDUM

To: Mr. R. Wright

From: Mr. R.J. Buckley

cc:

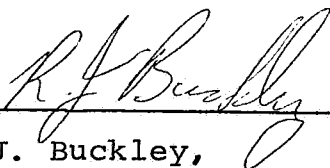
Date: 16th January, 1975

Our Ref No. BA 267

Your Ref. No.

Subject: ASSAY RESULTS - VALLEY WELL.

Sample No.			As (ppm)	Sample No.			As (ppm)
2296	170N	880E	2	2477	170N	1240E	9
7	455N	880E	6	8	155N	"	9
8	440N	880E	4	9	140N	"	10
9	425N	880E	6	2418	110N	880E	8
2300	410N	880E	2	9	125N	880E	10
1	350N	1000E	4	2420	140N	"	7
2	365N	"	6	1	155N	"	10
3	380N	"	6	2	170N	"	6
4	395N	"	7	3	185N	"	6
5	410N	"	6	4	200N	"	6
6	420N	"	4	5	215N	"	4
7	440N	"	3	6	230N	"	4
8	455N	"	4	7	245N	"	5
9	470N	"	6	8	260N	"	5
2310	485N	"	6	9	275N	"	5
1	500N	"	5	2430	290N	"	3
2	395N	880E	5	1	305N	"	6
5	350N	880E	7	2	335N	1000E	4
6	335N	"	8	3	320N	"	5
7	320N	"	6	4	305N	"	7
2465	350N	1240E	7	5	290N	"	7
6	335N	"	7	6	275N	"	7
7	320N	"	11	7	260N	"	6
8	305N	"	5	8	245N	"	4
9	290N	"	7	9	230N	"	5
2470	275N	"	6	2440	215N	"	5
1	260N	"	6	1	200N	"	7
2	245N	"	7				
3	230N	"	7				
4	215N	"	5				
5	200N	"	10				
6	185N	"	6				


 R.J. Buckley,
 Chemist.

APPENDIX II

027

AMDEL ASSAY REPORT AN 2444/75



amdel

The Australian Mineral Development Laboratories

Flemington Street, Frewville, South Australia 5063
Phone 79 1662, telex AA82520

Please address all correspondence to the Director
In reply quote: AN3/461/0-2444/75

028

NATA CERTIFICATE

RECEIVED
- 8 JAN 75

7 January 1975

Samin Limited
33 King William Street
ADELAIDE S.A. 5000

REPORT AN2444/75

YOUR REFERENCE: Order No. 15540 dated 17/12/74.
IDENTIFICATION: 2583 and 2122.
DATE RECEIVED: 17 December 1974

ANALYSIS

	Gold ounces per long ton	Silver ounces per long ton	Gold ppm	Silver ppm	
2583	<0.01	2.1	<0.3	64	- VALLEY WELL GALENA
2122	<0.01	0.1	<0.3	3	- GOSSAN - NORTH
					BORE CO-CO ANOMALY

Enquiries quoting AN2444/75 to Officer in Charge please

Officer in Charge, Analytical Section: A.B. Timms

for F.R. Hartley
Director.



This laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration. This document shall not be reproduced except in full.

APPENDIX III

029

MCPHAR GEOPHYSICS PTY. LTD.

INDUCED POLARIZATION

PSEUDO-SECTIONS



McPHAR GEOPHYSICS PTY. LTD.
I.P. SURVEY

CLIENT SAMIN LTD.

AREA VALLEY WELL

LINE 88 E

SPREAD 60 METRES

FREQUENCIES 0.3/2.5 HZ

ELECTRODES SINGLE PLFOIL

Tx SERIAL No. Tx 120

Rx SERIAL No. Rx 227

DATE OF SURVEY 10.12.74

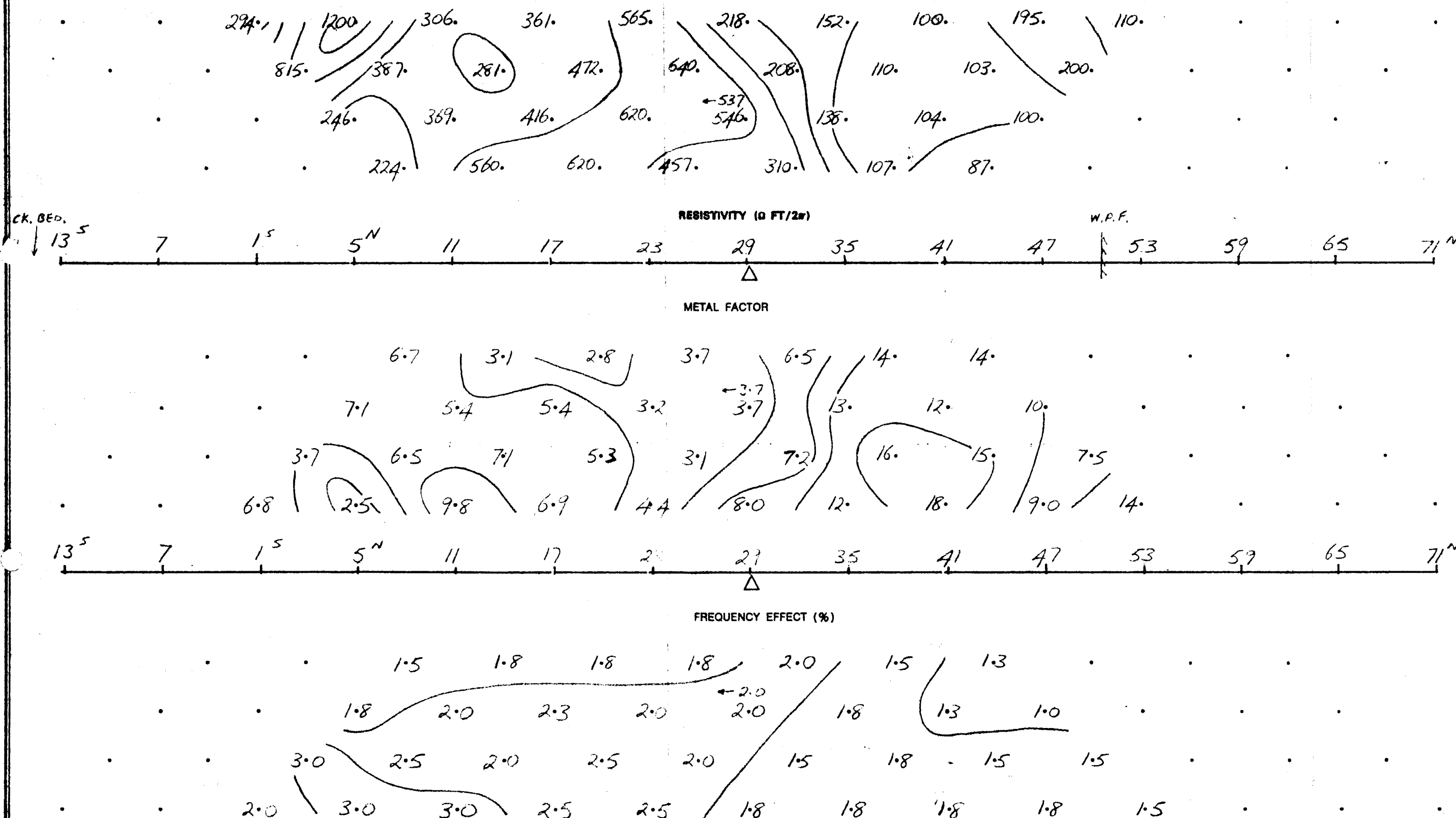
PLOTTED BY J.M.

FIELD CHECK JS

INTERPRETATION _____

FINAL CHECK _____

DISTRIBUTED _____



ENV 2495-1



McPHAR GEOPHYSICS PTY. LTD.

I.P. SURVEY

CLIENT SAMIN LTD

AREA VALLEY WELL

LINE 100 E

SPREAD 30 metres

FREQUENCIES 0.3/2.5 Hz

ELECTRODES SINGLE FOIL

Tx SERIAL No. Tx 120

Rx SERIAL No. Rx 227

DATE OF SURVEY 12.12.74

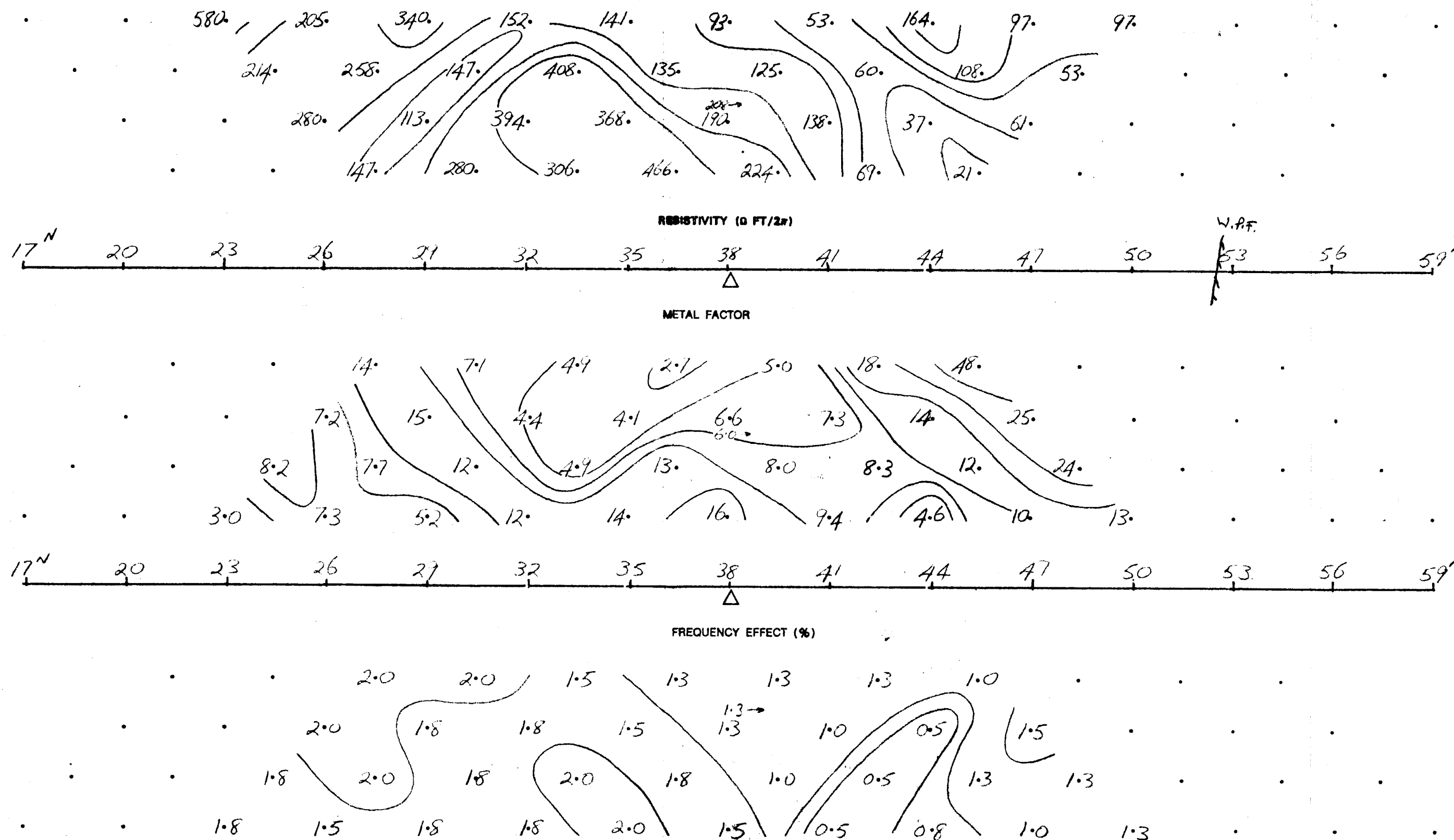
PLOTTED BY J.M.

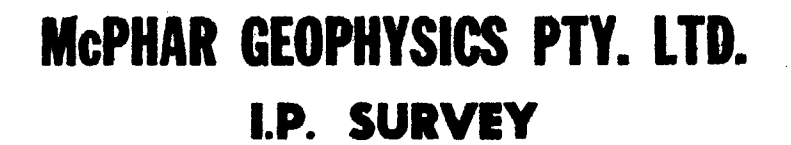
FIELD CHECK

INTERPRETATION

FINAL CHECK

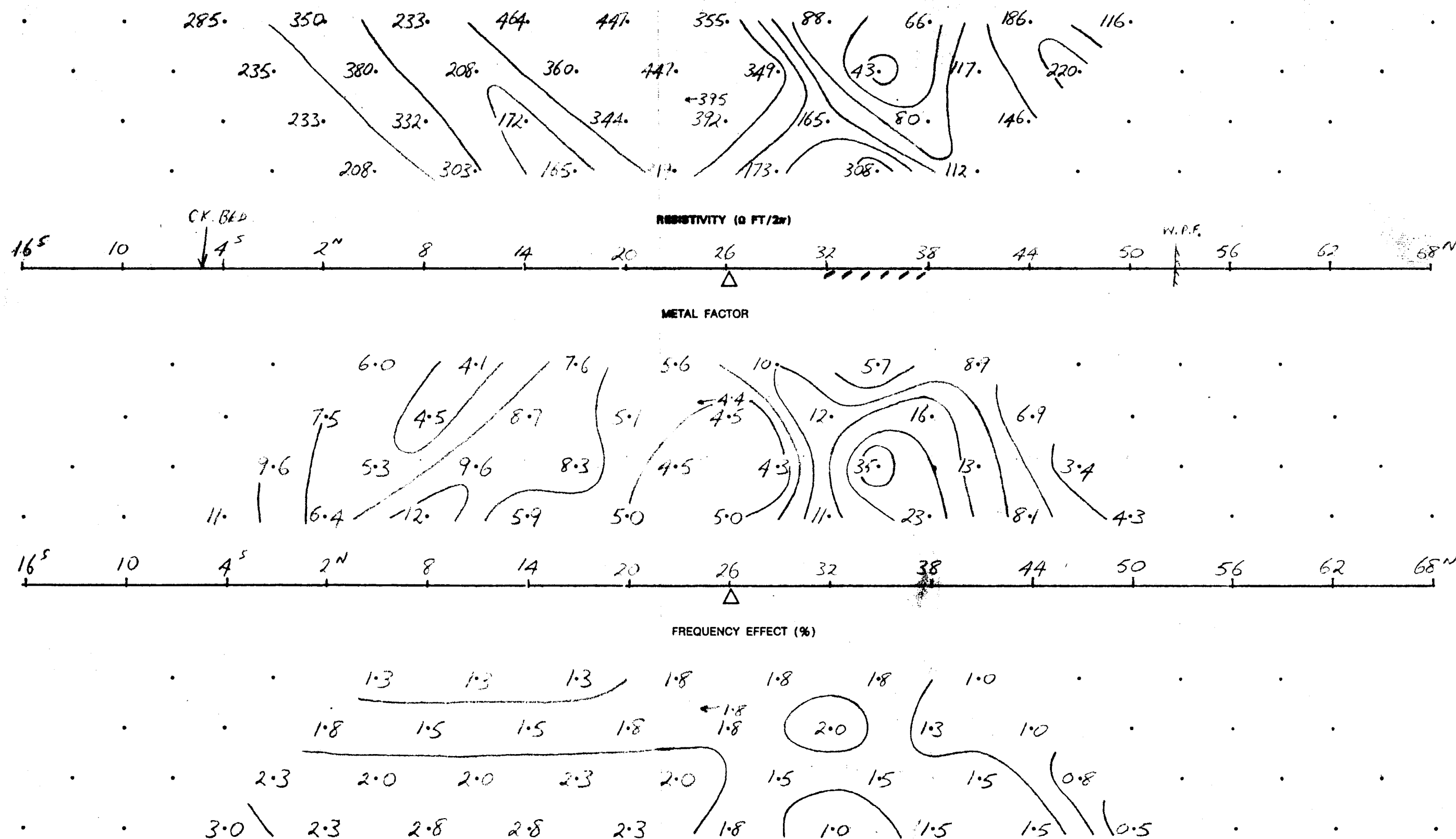
DISTRIBUTED





FIELD CHECK 53

DISTRIBUTED 1



ENV 2495-3

M PHAR

McPHAR GEOPHYSICS PTY. LTD.
I.P. SURVEY

CLIENT SAMIN LTD.

AREA VALLEY WELL

LINE 112E

SPREAD 60m

FREQUENCIES .3/2.5 Hz

ELECTRODES SINGLE ALFOIL

Tx SERIAL No. 120

Rx SERIAL No. 227

DATE OF SURVEY 11/12/74

PLOTTED BY JS

FIELD CHECK JS

INTERPRETATION _____

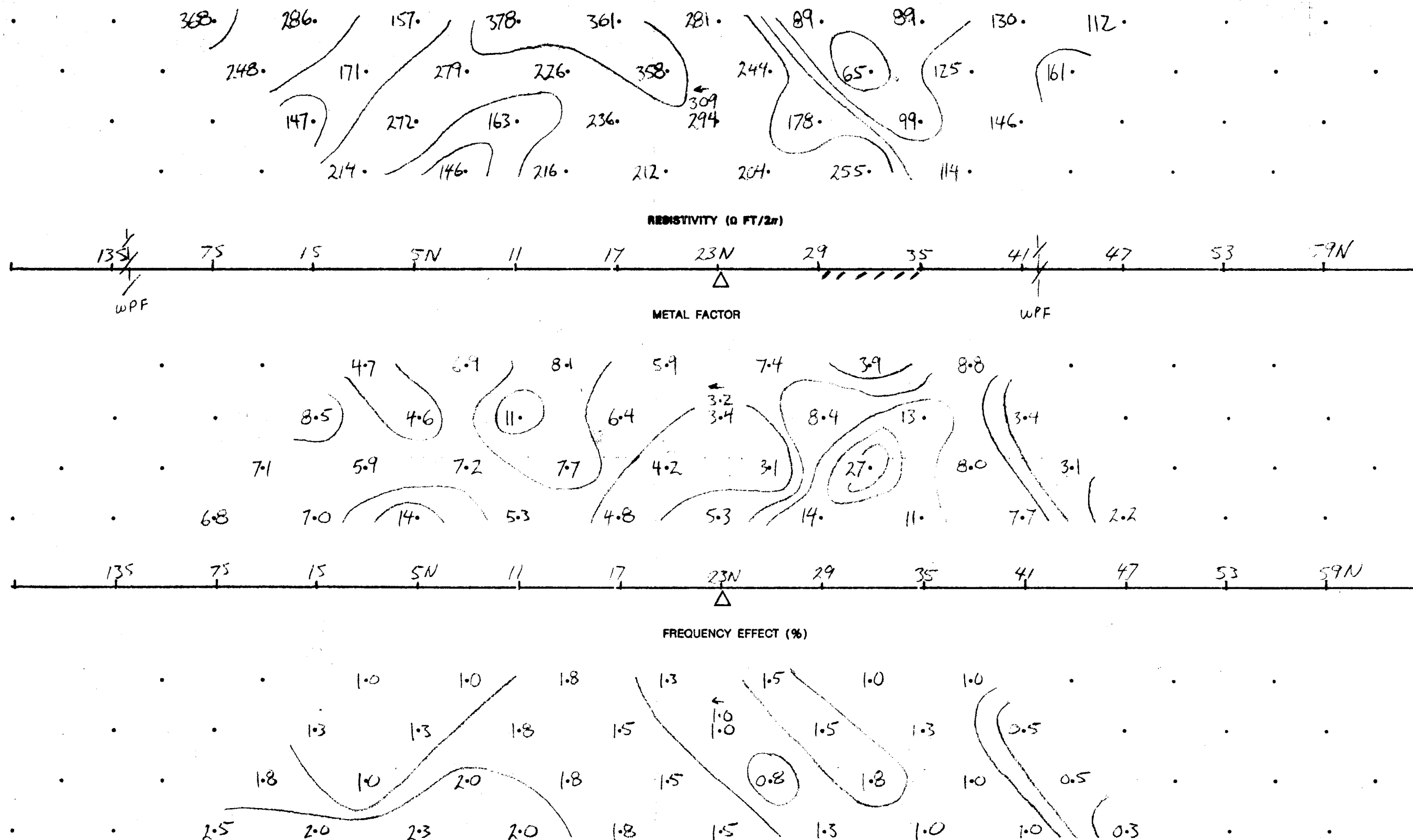
FINAL CHECK _____

DISTRIBUTED _____

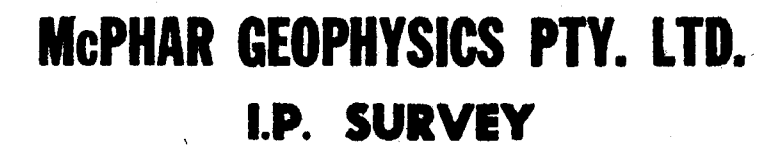
RESISTIVITY (Ω FT/2π)

METAL FACTOR

FREQUENCY EFFECT (%)



ENV 2495-4



AREA VALLEY WELL

SPREAD 60 m

FREQUENCIES .3/2.5 Hz

ELECTRODES SINGLE ALFOIL.....

Tx SERIAL No. 120

Rx SERIAL No. 227

DATE OF SURVEY 11/12/74

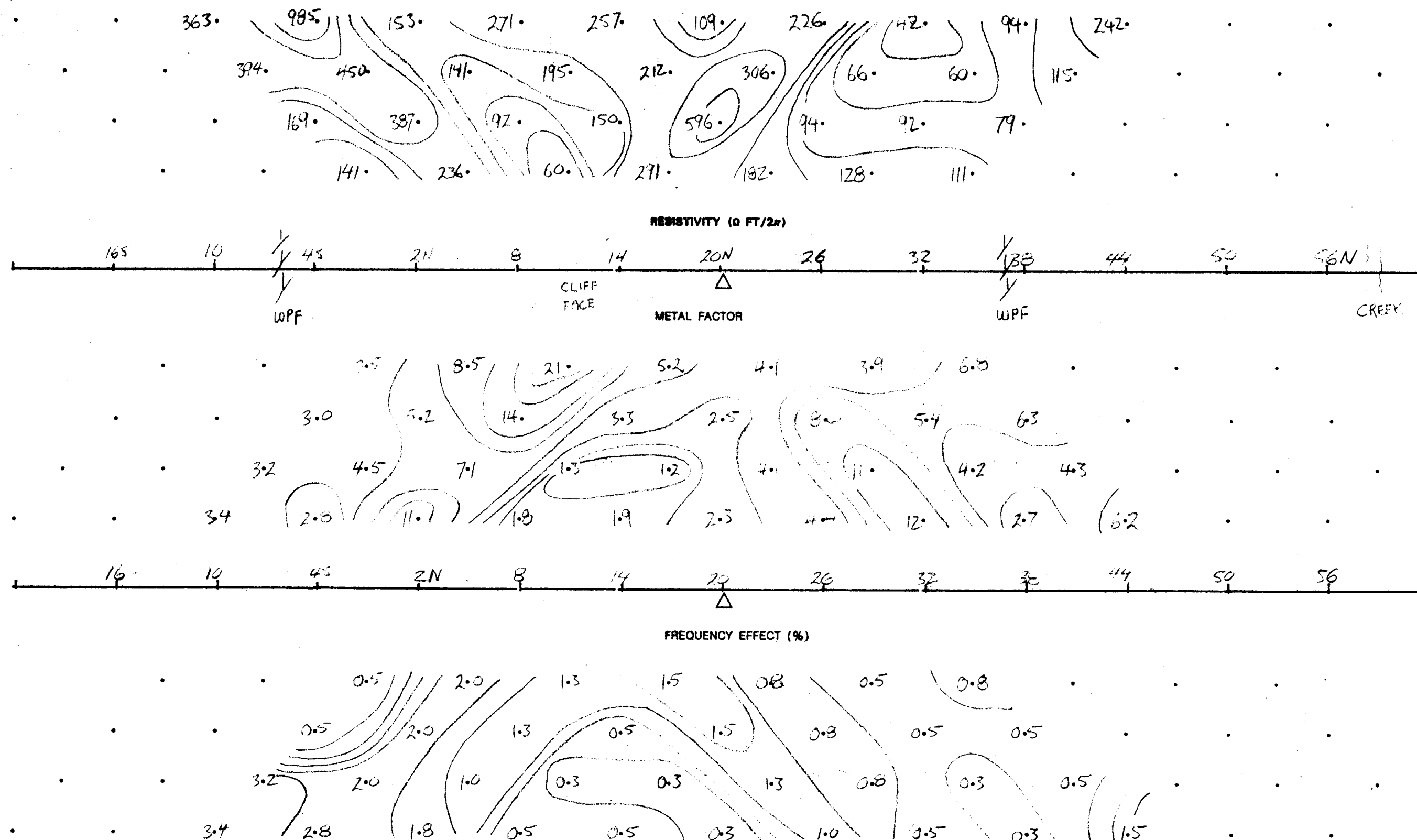
PLOTTED BY SB

FIELD CHECK 9/22

INTERPRETATION

FINAL CHECK

DISTRIBUTED



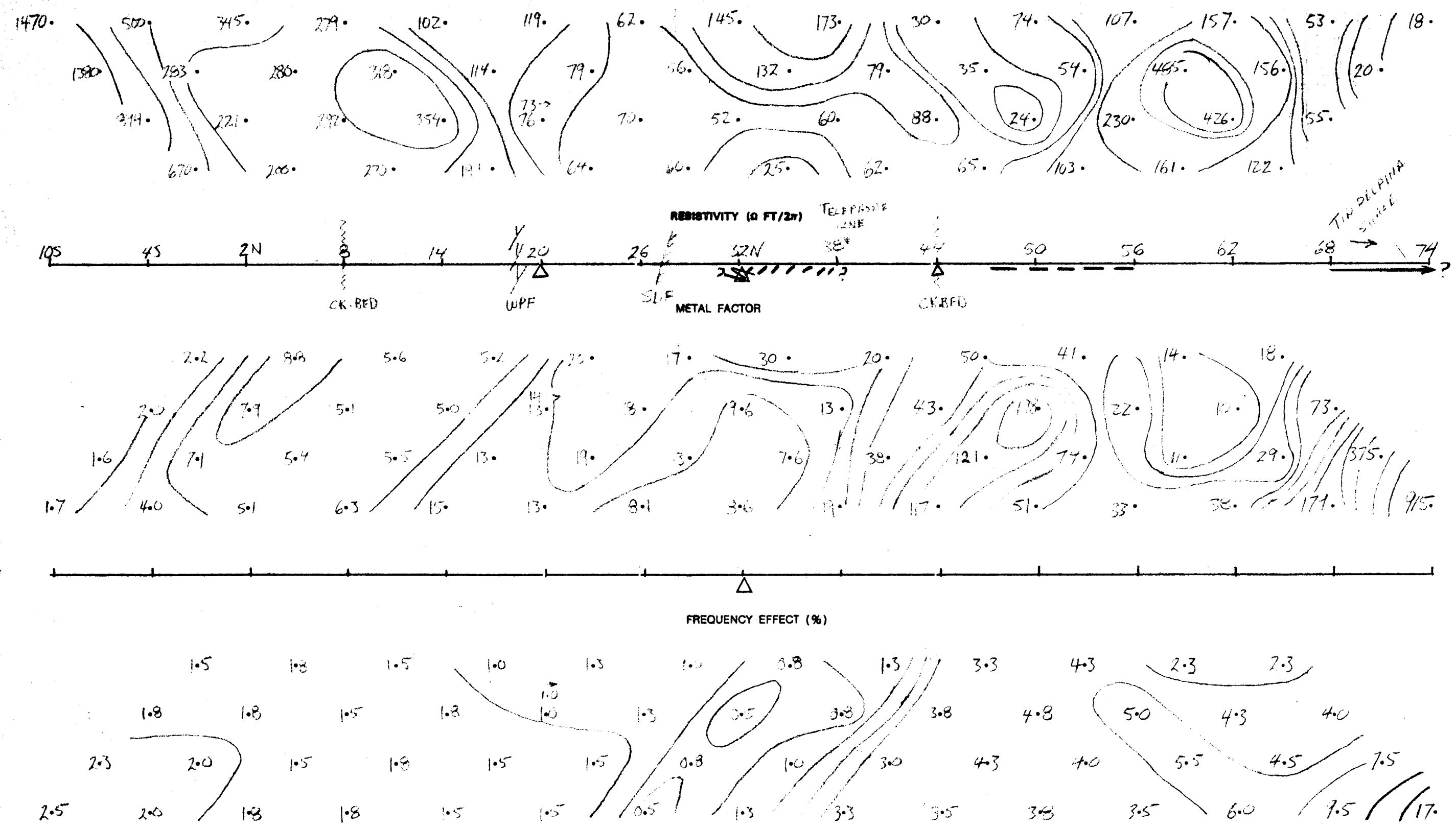
ENV 2495-3

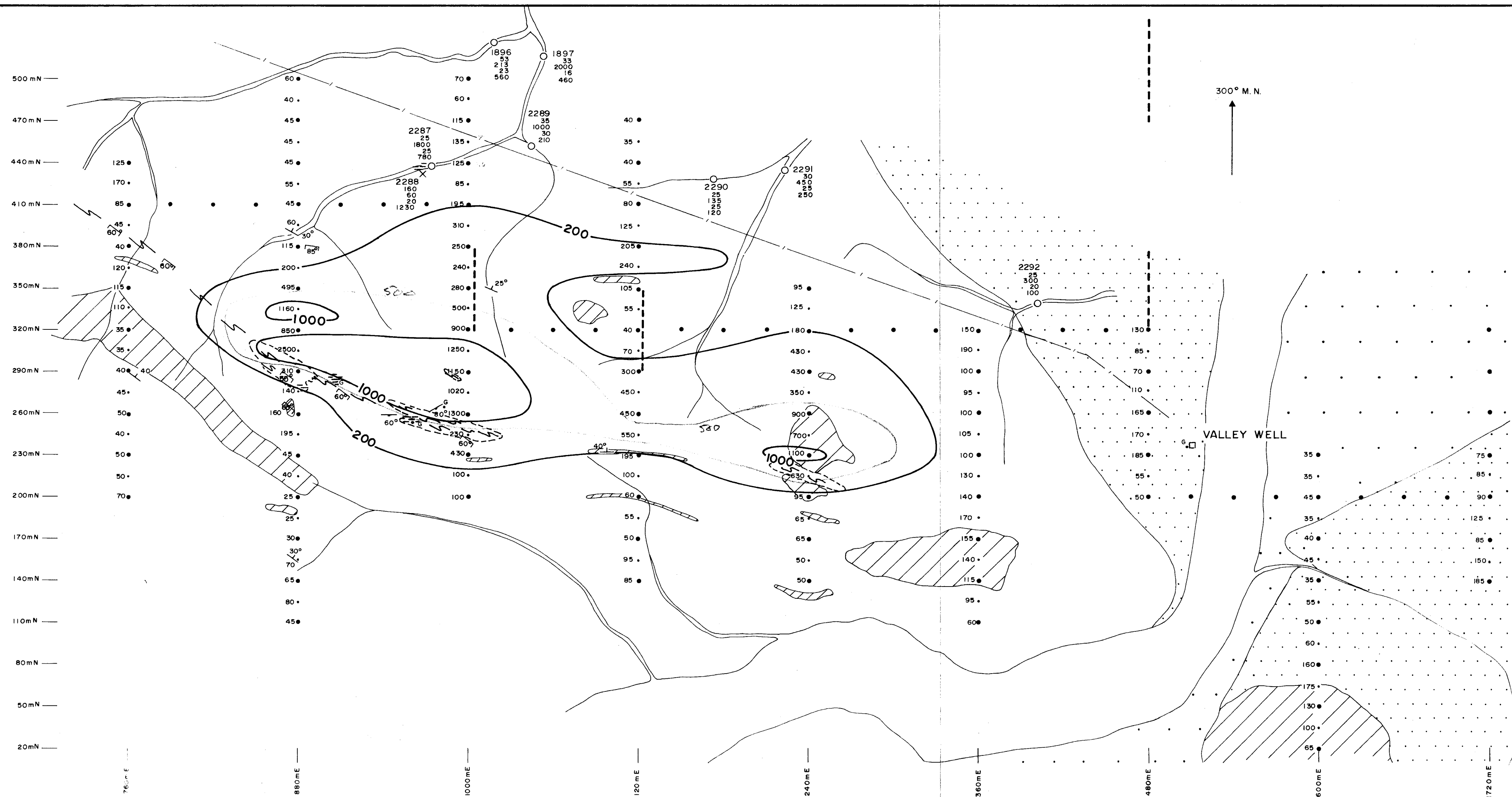


McPHAR GEOPHYSICS PTY. LTD.
I.P. SURVEY

CLIENT SAMIN LTD
AREA VALLEY WELLS
LINE 148E
SPREAD COM
FREQUENCIES .3/2.5 Hz
ELECTRODES SINGLE
Tx SERIAL No. 120
Rx SERIAL No. 227
DATE OF SURVEY 12/12/74
PLOTTED BY [Signature]
FIELD CHECK [Signature]

INTERPRETATION _____
FINAL CHECK _____
DISTRIBUTED _____





LEGEND

- COLLUVIUM / ALLUVIUM
- COLLUVIUM
- PREDOMINANTLY POORLY EXPOSED SILTSTONE
- QUARTZITE SANDSTONE
- THIN CALCITE VEINS WITH 0.5 TO 1mm GALENA GRAINS WHERE INDICATED
- ZONE OF STRONG FRACTURE CLEAVAGE
- GALENA OUTCROP

- DIP AND STRIKE OF BEDDING
- DIP AND STRIKE OF CLEAVAGE
- DIP AND STRIKE OF VEINING

- STREAM SEDIMENT SAMPLE AND NUMBER
- 25 ppm Cu
- 200 ppm Pb
- 20 ppm Co
- 100 ppm Mn

- ROCK SAMPLE (RESULTS SHOWN AS ABOVE)

- SOIL SAMPLE -80 MESH FRACTION ppm Pb
- 195

- GRID PEG

- CONTOURED DISTRIBUTION OF LEAD IN -80 MESH FRACTION SOIL
- 200
- CONTOURED DISTRIBUTION OF LEAD IN -80 MESH FRACTION SOIL
- 1000

- PROBABLE I.P. ANOMALY

SAMIN LIMITED
 GEOLOGICAL AND GEOCHEMICAL
 SKETCH PLAN
 VALLEY WELL LEAD ANOMALY
 E.L. 162 VALLEY WELL S.A.

SCALE 1:2000

ENV 2495-7