42A01SE0171 63.4957 EBY

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PROGRESS REPORT ON THE

EBY TOWNSHIP GOLD PROPERTY

OF

MARY ELLEN RESOURCES LTD.

FOR

THE PERIOD OF MAY 1985 TO JAN. 25 1986

RECEIVED
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MINING LANDS SECTION

Kirkland Lake Ont.
January 1986

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Geologist

NTS 42 A/SE
Project M-002

OM85-6-C-110

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INDUCED POLARIZATION SURVEY

#63.4957

OM 85-6-110

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

1. Report on the Eby township Gold property, Mary Ellen Resources, S. J. Carmichael, Nov 1985 → see Toronto file #2.8661, R.O.W. #385 for 1985

Diamond Drilling Summary

Nine holes totalling 4,008.0 feet (1,221.95 meters) of BQ core (diameter 1.44 inches or 37 mm) were drilled on the property of Mary Ellen Resources Ltd., Eby Township, District of Timiskaming during November and December of 1985. Diamond drill holes ME 85-1,2,5,8 and 9 were completed on patented claim P17403, the remainder on patented claim P18227. Core from all holes are presently stored at the core library in Swastika, Ont. All logging and splitting were also carried out at the core library. Contractor for the drilling was Heath and Sherwood Limited of Kirkland Lake Ont. with Mr. Don Gardiner of Heath and Sherwood acting as foreman for the drilling.

The following table summarizes the drilling completed in 1985 from Nov.5 to Dec.7.

Hole No.	Location	Claim No.	Dip	Azimuth
ME 85-1	9+00N-1+00W	P17403	-45Deg.	090Deg.
ME 85-2	10+00N-1+40W	P17403	-45Deg.	090Deg.
ME 85-3	12+00N-2+00W	P18227	-45Deg.	090Deg.
ME 85-4	12+00N-0+00	P18227	-45Deg.	270Deg.
ME 85-5	7+50N-0+00	P17403	-45Deg.	050Deg.
ME 85-6	12+00N-3+00W	P18227	-45Deg.	090Deg.
ME 85-7	11+00N-1+75W	P18227	-45Deg.	090Deg.
ME 85-8	5+50N-2+50W	P17403	-45Deg.	360Deg.
ME 85-9	6+60N-2+50W	P17403	-45Deg.	360Deg.

Assaying

Assaying was performed by Swastika Laboratories Limited. Following core logging, selected core intervals were split, one half being retained in core boxes for reference, and one half sent for assay. Unique samples were cut on a core saw with one half sent for assay and half retained for reference. A total of 308 samples were analyzed for gold. Samples were initially crushed to 6 mesh, split, then pulverized to 100 mesh. Approximately 14.58 gms. were then fire assayed and finished by atomic absorbtion with a detection limit of 5 ppb.

Interpretation of Diamond Drill Results

Hole No: ME 85-1

Location: P17403, 9+00N-1+00W

Azimuth: 090Deg.

Dip: -45Deg.

Depth: 555.0 feet (169.20m)

Target: I.P. anomaly, L 9+00N, 0+50W to 0+00, resistivity anomaly.

ME 85-1 was designed to test the largest and best defined I.P. anomaly on the north section of the property. The hole collared into dark green to black talcy ultramafic rock, highly fractured with up to 50% quartz stringers. The unit may be a type of ultramafic sediment, as no spinafex textures or polygonal jointing was noted. The entire hole consisted of various types of sediments including soft grey carbonates to graphitic shales and silicified buff carbonates.

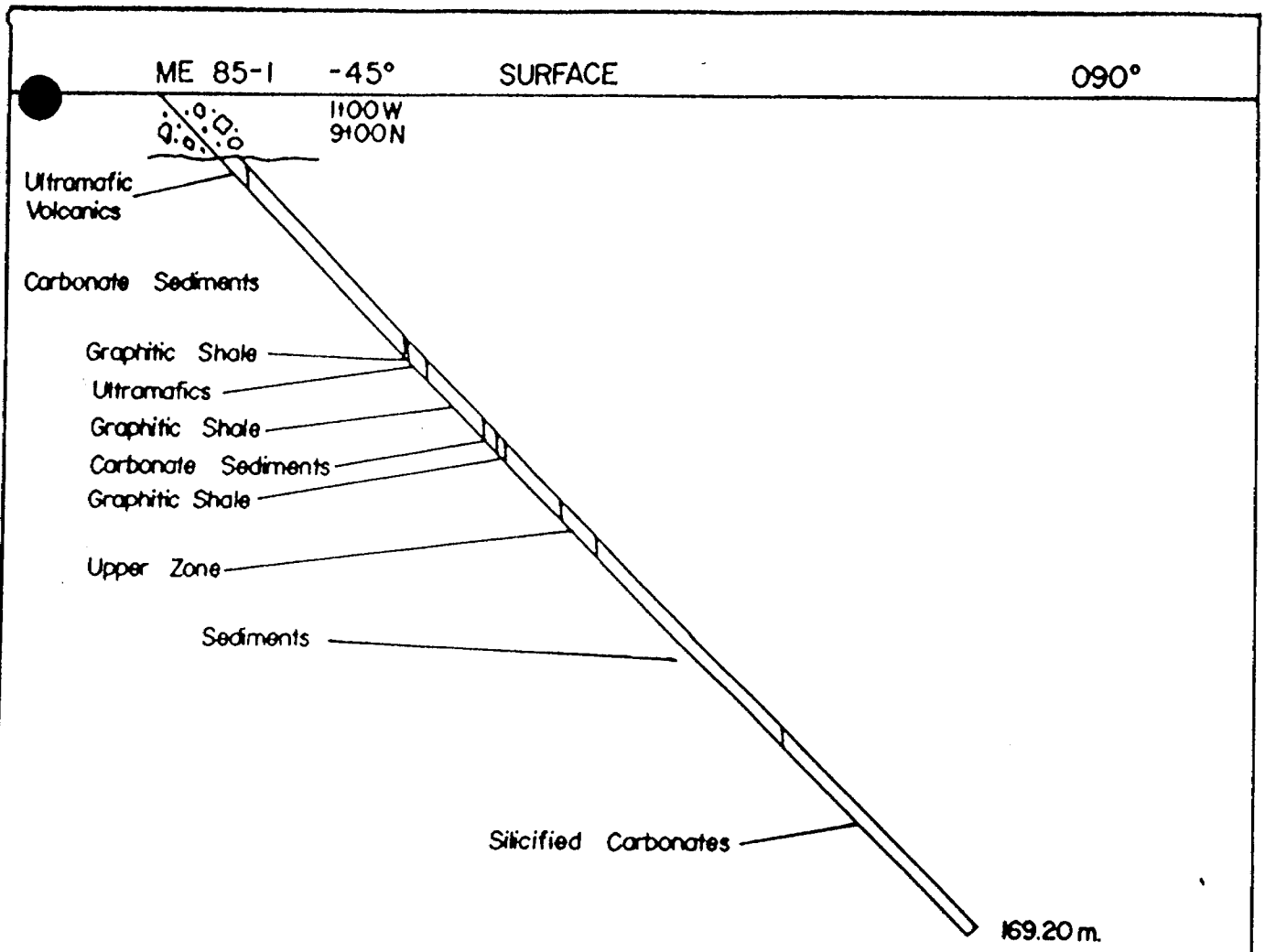
Two interesting zones of mineralization were drilled. The first, or upper zone occurs from 84.60 meters to 92.30 meters and consists of graphitic shales, albitized carbonates and a silicified unit with the silicification perhaps due to a narrow felsic intrusive. The assays for this section were disappointing due to the high sulfide content throughout, an average of 5-10% py in the carbonates with up to 20% py in the graphitic units. The best average for this section was 0.021 oz/ton Au over 19.8'. (278.5-297.3')

A lower mineralized zone consisting of a silicified buff

yellow-brown carbonate rock with up to 20% quartz, occuring both as sweats and late veins with an average fo 5-6% py throughout gave assays of 0.044 oz/ton Au across 4.3' (460.7-465.0') with an average of 0.01 oz/ton Au across 85.6'. (426.0-511.6') This zone represents a significant volume of gold, however the lack of a higher grade core within this section resulted in the hole being a disappointment.

Summary and Conclusions of hole ME-85-1

Hole ME-85-1 may be considered a technical success in that the I.P. anomaly was verified, however the hole must be considered a disappointment from an economical view point, considering the extent and degree of alteration.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-1

SECTION LOOKING 360°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company: MARY ELLEN RESOURCES
Location: FBY TOWNSHIP
Level: SURFACE
Bearing: 090 DEG.
Inclination: -45 DEG.

Total Depth: 555.0ft.

Coords Collar - Lat: 9400N

Drilled by: HEATH & SHERWOOD

Date Started: Nov. 5
Date Finished: Nov. 10
Logged: S. Carmichael
Core Saved? YES
Casing: Left Pulled:
Elevation: SURFACE

Dep: 1400W

Date Logged: NOV. 12,13,14

Hole No. ME 85-1
Page No. ONE
Core Size: BQ
Test-Acid: YES
Discarded: YES

		Tropari: Strike	Dip
At:	57.0ft.	-	44 DEG.
At:	200.0ft.	-	44 DEG.
At:	300.0ft.		44 DEG.
	550.0ft.		44 DEG.
			42 DEG.

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-40.0ft. (0-12.20m)	Casing					
40.0-62.0ft. (12.20-18.90m)	Ultramafic (komatiite?) Dark grey to balck ultramafic rock, very soft, moderately to highly fractured with 50% qtz stringers, oriented 62 deg. to core axis.					
62.0-176.0ft. (18.90-53.66m)	Buff Carbonate Greenish - grey in color, fine to medium grained, still ultramafic in composition Fault from 121.9-122.3ft. marked by talc/chlorite schist. Quartz stringers abundant from 130.0-136.0 & 141.0-146.0' laminated carbonate with laminations at 45 deg. to core axis.	7001	141.0-146.0ft. (42.99-44.51m)	Nil	Nil	5.0ft. (1.52m)
		7002	156.0-161.0ft. (47.56-49.09m)	Nil	Nil	5.0ft. (1.52m)
	Highly silicified, 1-2% py	7003	161.0-166.0ft. (49.09-50.61m)	Nil	Nil	5.0ft. (1.52m)
176.0-178.0ft. (53.66-54.27m)	Graphitic Unit Very fine grained graphite with clasts of quartz and buff carbonate, trace py.	7004	176.0-178.0ft.	0.030	trace	2.0ft. (0.61m)
178.0-192.2ft. (54.27-58.60m)	Ultramafic Carbonate Medium green colored, fine grained, weakly silicified, becoming cherty at 190.0', 1-2% fuchsite throughout.	7005	178.0-183.0ft. (54.27-55.79m)	0.010	trace	5.0ft. (0.61m)
		7006	183.0-186.0ft. (55.79-56.71m)	Nil	Nil	3.0ft. (0.91m)

	cherty fuchsitic carbonate	7007	186.0-190.0ft. (56.71-57.93m)	Nil	Nil	4.0ft. (1.22m)
		7008	190.0-192.2ft. (57.93-58.60m)	Nil	Nil	2.2ft. (0.67m)
192.2-228.0ft. (58.60-69.51m)	Graphite shale Black fine grained graphite shale with 5-10% lapilli size fragments of carbonate,1% globular pyrite (marcasite)					
		7009	192.2-195.7ft. (58.60-59.66m)	0.020	trace	3.5ft. (1.07m)
	195.7-200.3' - greenish - grey sandstone (59.66-61.07m)	7010	210.0-215.0ft. (64.02-65.55m)	Nil	Nil	5.0ft. (1.52m)
	Albitized from 217.0-218.6' -becoming brecciated with quartz fragments at 228.0'	7011	215.0-218.6ft. (65.55-66.65m)	Nil	Nil	3.60ft. (1.09m)
228.0-232.7ft. (69.51-70.95m)	Carbonate Albitized grey carbonate, very fine grained, moderately fractured, quartz eyes throughout.					
		7012	228.0-232.7ft. (69.51-70.95m)	Nil	Nil	4.7ft. (1.43m)
232.7-235.7ft. (70.95-71.86m)	Graphite shale with carbonate and sandstone fragments, tops appear to be down - hole.					
235.7-271.0ft. (71.86-82.62m)	Buff carbonate Yellowish - green in color, brecciated throughout with minor graphitic zones.					
271.0-277.5ft. (82.62-84.60m)	Buff carbonate massive fine grained yellowish - green carbonate, locally brecciated, trace pyrite.					
		7013	271.0-274.0ft. (82.62-83.54m)	Nil	Nil	3.0ft. (0.91m)
		7014	274.0-277.5ft. (83.54-84.60m)	0.010	trace	3.5ft. (1.06m)
277.5-303.0ft. (84.60-92.30m)	Upper Mineralized Zone 277.5-278.5' Graphitic shale, 5% py	7015	277.5-278.5ft.	0.060	trace	1.0ft. (0.030m)
	278.5-282.4' Albitized carbonate minor sericite, moderately fractured trace 1% py.	7016	278.5-282.4ft. (84.91-86.10m)	0.410	0.013	3.9ft. (1.18m)
	282.4-283.4' Graphitic shale, 20% py	7017	282.4-283.4ft. (86.10-86.40m)	1.92	0.062	1.0ft. (0.030m)
	283.4-284.5' Albitized carbonate, 8% py, moderately silicified.	7018	283.4-284.5ft. (86.40-86.73m)	0.650	0.021	1.1ft. (0.33m)

	284.5-288.5' Graphitic shale, qtz. stringers along bedding planes, 4-5% py	7019	284.5-288.5ft. (86.73-87.95m)	0.860	0.028	4.0ft. (1.21m)
	288.5-292.0' Albitized carbonate, 4 - 5% py.	7020	288.5-292.0ft. (87.95-89.02m)	0.210	0.007	3.5ft. (1.06m)
	292.0-293.0' Graphitic chert, 40% py	7021	292.0-293.0ft. (89.02-89.32m)	1.230	0.04	1.0ft. (0.030m)
	293.0-295.5' Highly silicified unit, 15% py, may be a felsic intrusive from 295.0-295.5'.	7022	293.0-295.5ft. (89.32-90.09m)	0.690	0.022	2.5ft. (0.76m)
	295.5-297.3' 20% coarse py, moderately silicified, minor graphite.	7023	295.5-297.3ft. (90.09-90.64m)	0.456	0.015	1.8ft. (0.54m)
	297.3-301.0' - buff carbonate, 1-2% py.	7024	297.3-301.0ft. (90.64-91.76m)	0.050	0.002	3.7ft. (1.12m)
	301.0-303.0' As above, qtz vein at 302.0-303.0', 5% py.	7025	301.0-303.0ft. (91.76-92.37m)	0.210	0.007	2.0ft. (0.060m)
303.0-327.3ft. (92.37-99.78m)	Tuffaceous, dark green chloritic tuff, laminated at 32 DEG. to core axis.					
327.3-338.0ft. (99.78-103.04m)	Buff carbonate, trace - 2% py throughout.					
		7026	327.3-331.0ft. (99.78-100.91m)	0.450	0.015	3.7ft. (1.12m)
		7027	331.0-334.0ft. (100.91-101.82m)	0.370	0.012	3.0ft. (0.91m)
	15% py from 336.0 - 338.0'	7028	334.0-338.0ft. (101.82-103.04m)	0.380	0.012	4.0ft. (1.21m)
353.0-374.2ft. (107.62-114.08m)	Hematized tuff and carbonate, moderately fractured from 366.0-374.2', trace to 2% py throughout with sericite alteration in fractures.					
		7029	353.0-358.0ft. (107.62-109.14m)	0.280	0.009	5.0ft. (1.52m)
		7030	358.0-363.0ft. (109.14-110.67m)	0.300	0.01	5.0ft. (1.52m)
		7031	363.0-368.0ft. (110.67-112.19m)	0.290	0.009	5.0ft. (1.52m)
		7032	368.0-372.0ft. (112.19-113.41m)	0.200	0.006	4.0ft. (1.21m)
		7033	372.0-374.2ft. (113.41-114.08m)	0.340	0.011	2.2ft. (0.67m)
374.2-378.3ft. (114.08-115.33m)	Silicified and albitized unit, 5% qtz stringers with 10% py.	7034	374.2-378.3ft.	1.79	0.058	4.1ft. (1.25m)

378.3-393.0ft. (115.33-119.81m)	Grey carbonate, albitized throughout, trace py.	7035	378.3-383.0ft.	0.410	0.013	4.7ft. (1.43m)
393.0-417.8ft. (119.81-127.37m)	Massive grey carbonate.					
417.8-426.6ft. (127.37-130.06m)	Buff carbonate, silicified and sericitized throughout with trace py.	7036	417.8-420.0ft. (127.37-128.04m)	0.060	0.002	2.2ft. (0.67m)
	less sericitic, trace py. tuffaceous from 424.7-425.5'	7037	420.0-426.6ft. (128.04-130.06m)	0.160	0.005	6.6ft. (2.01m)
426.6-555.0ft. (130.06-169.20m)	Lower Mineralized Zone Siliceous buff carbonate, yellowish - orange in coloration, 10-20% qtz veins, both as sweats and secondary veining less silicified sections are green in color. Occasional porphyritic phases which may be syenitized, normally 5-8% py throughout, locally 10-15% py.					
	426.6-431.0 silicified, 10% qtz. stringers, pebbles present from 429.5-429.9, 3% py.	7038	426.6-431.0ft. (130.06-131.40m)	0.270	0.009	4.4ft. (1.34m)
	431.0-436.0' - as above	7039	431.0-436.0ft. (131.40-132.92m)	0.150	0.005	5.0ft. (1.52m)
	436.0-439.0 - highly silicified. buff carbonate, 10-20% qtz veins, 5-6% fine py.	7040	436.0-439.0ft. (132.9-133.84m)	0.340	0.011	3.0ft. (0.91m)
	439.0-442.0' - as above	7041	439.0-442.0ft. (133.84-134.75m)	0.190	0.006	3.0ft. (0.91m)
	442.0-445.0' - as above, becoming more fractured.	7042	442.0-445.0ft. (134.75-135.67m)	0.480	0.016	3.0ft. (0.91m)
	445.0-448.0' - as above	7043	445.0-448.0ft. (135.67-136.58m)	0.200	0.006	3.0ft. (0.91m)
	448.0-450.7' - as above, less silicified at 450.7'	7044	448.0-450.7ft. (136.58-137.40m)	0.340	0.011	2.7ft. (0.82m)
	450.7-455.0' - darker green in color, 2% qtz. veining.	7045	450.7-455.0ft. (137.40-138.71m)	0.060	0.002	4.3ft. (1.31m)
	455.0-458.6' - as above	7046	455.0-458.6ft. (138.71-139.81m)	0.130	0.004	3.6ft. (1.09m)
	458.6-460.7' - 30% qtz. veining	7047	458.6-460.7ft. (139.81-140.45m)	0.220	0.007	2.1ft. (0.64m)
	460.7-465.0' - darker green, becoming porphyritic, 4" qtz vein at 460.7'	7048	460.7-465.0ft. (140.45-141.76m)	1.370	0.044	4.3ft. (1.31m)

465.0-469.5' - 40% qtz veins,porphyritic	7049	465.0-469.5ft. (141.76-143.14m)	0.350	0.011	4.5ft. (1.37m)
469.5-473.5' - sericitic to 471.0', highly fractured with chlorite stringers	7050	469.5-473.5ft. (143.14-144.35m)	0.270	0.009	4.0ft. (1.21m)
473.5-479.0' - dark green, moderately fractured, 2-3% py, 10% qtz veins.	7051	473.5-479.0ft. (144.35-146.03m)	0.140	0.005	5.5ft. (1.67m)
479.0-484.0' - as above, porphyritic	7052	479.0-484.0ft. (146.03-147.56m)	0.190	0.006	5.0ft. (1.52m)
484.0-489.0' -as above with qtz/feldspar veins.	7053	484.0-489.0ft. (147.56-149.08m)	0.270	0.009	5.0ft. (1.52m)
489.0-494.0' - porphyritic to 491.2, becoming darker green with less qtz veining, (5%) still moderately fractured less silicified	7054	489.0-494.0ft. (149.08-150.60m)	0.170	0.005	5.0ft. (1.52m)
494.0-499.0' - as above, 2% qtz viening.	7055	494.0-499.0ft. (150.60-152.13m)	0.180	0.006	5.0ft. (1.52m)
499.0-504.0' - as above, becoming more silicified at 502.0'.	7056	499.0-504.0ft. (152.13-153.65m)	0.130	0.004	5.0ft. (1.52m)
504.0-509.0' - moderately fractured, 10% qtz veins.	7057	504.0-509.0ft. (153.65-155.18m)	0.070	0.002	5.0ft. (1.52m)
509.0-511.6' - highly silicified, 10% qtz. veins, sericitic with 10% py.	7058	509.0-511.6ft. (155.18-155.97m)	0.210	0.007	2.6ft. (0.79m)
511.6-517.7' - blocky, dark green, fragmental, maybe volcanic angular fragments up to 3" in size.					
517.7-528.0' - buff carbonate, weakly to moderately silicified, fragmental from 527.0-528.0' (conglomerate?)					
528.0-530.6'- laminated tuff,contact and dip at 32 deg. to core axis.					
530.6-555.0' - buff carbonate,moderately silicified, 10-15% qtz vein, 4% py.	7059	530.6-535.0ft. (161.76-169.20m)	0.130	0.004	4.4ft. (1.34m)
	7060	535.0-540.0ft. (163.10-164.63m)	0.340	0.011	5.0ft. (1.52m)
	7061	540.0-545.0ft. (164.63-166.15m)	0.170	0.005	5.0ft. (1.52m)

		7062	545.0-550.0ft. (166.15-167.68m)	0.020	0.026	5.0ft. (1.52m)
	10% qtz veins	7063	550.0-555.0ft. (167.68-169.20m)	0.050	0.002	5.0ft. (1.52m)
555.0ft. (169.20m)	END OF HOLE					
	AVERAGES:					
	278.5-297.3ft. 19.8ft. of 0.021oz.					
	327.3-338.0ft. 10.7ft. of 0.013oz.					
	372.0-383.0ft. 11.0ft. of 0.029oz.					
	426.0-511.6ft. 85.6ft. of 0.01oz.					

Hole: ME-85-2

Location: P17403 , 10+00N-1+40W

Azimuth: 090DEG.

Dip: -45DEG.

Depth: 605.0' (184.45m)

Target: I.P. anomaly on L 10+00N, 1+20W - 0+50W.

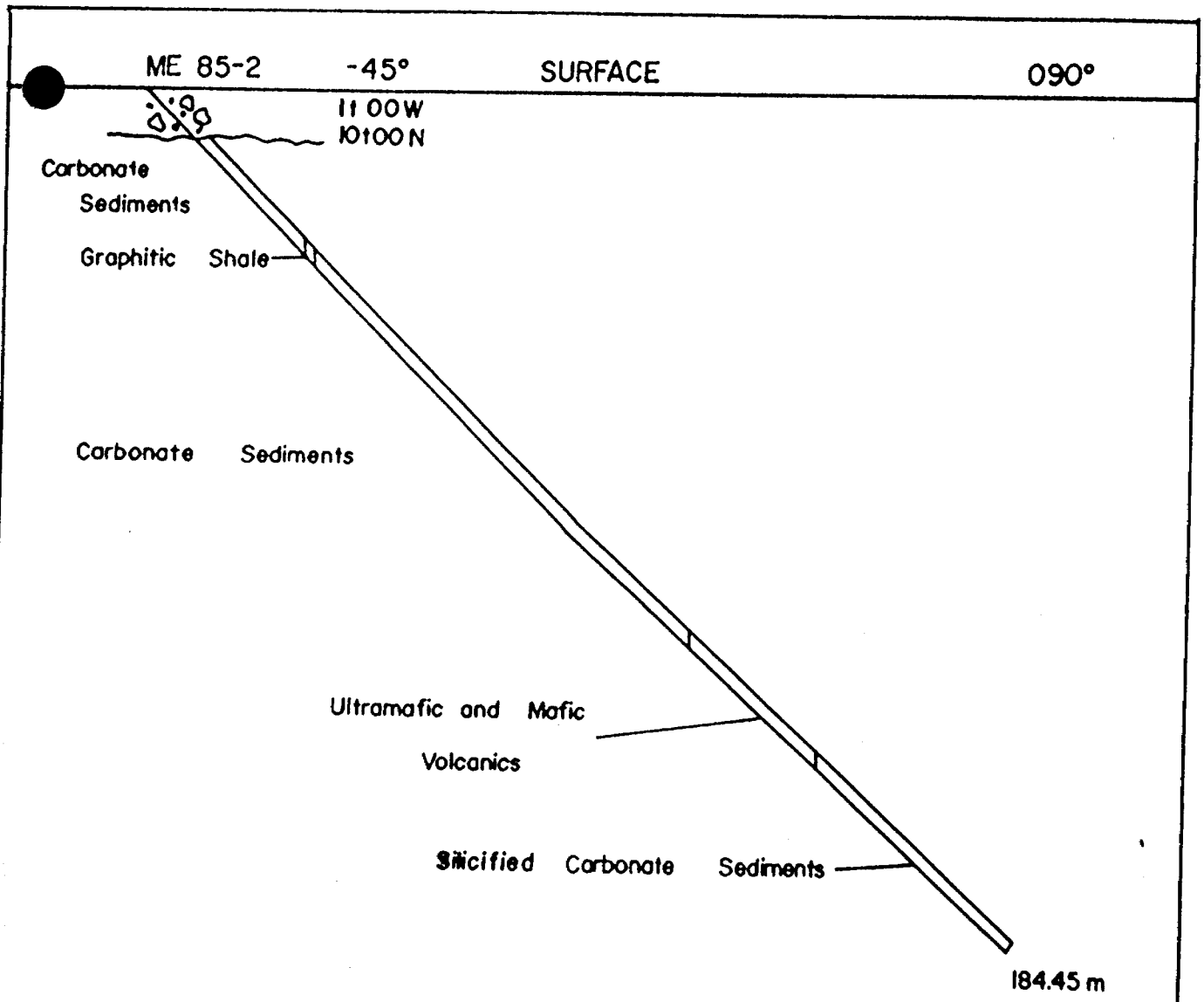
Mineralization in hole ME-85-1 appeared to be significant enough to host gold such that the second hole was spotted in an attempt to increase the strike length of the sediments found in ME-85-1. The graphitic horizon in ME-85-1 appeared to correlate with the I.P. anomaly on surface and the I.P. anomaly on line 10+00N appeared to coincide geologically with the anomaly on line 9+00N.

As in ME-85-1, a zone of graphitic shale was found which corresponds to the I.P. anomaly, however in this case, the graphitic units returned only trace values of gold. As in ME-85-1, most of the hole consisted of carbonate sediments and tuffaceous units with mafic and ultramafic volcanics from 395.5 to 479.0'. The upper sediments contained low gold values, the best being 0.095 oz/ton Au over 3.4' in a laminated pyrite sediment, or an average of 0.05 oz/ton Au over 6.9' (369.6-376.5'). The lower mineralized section was very similar to that encountered in the lower part of ME-85-1, consisting of a silicified buff carbonate sediment with 10-15% qtz veins and 4-5% py. Unlike ME-85-1, this unit was interlayered with less altered tuffaceous volcanics.

Though anomalous in gold throughout, the highest gold value obtained was 0.038 oz/ton Au over 3.0' in a laminated carbonate tuff (579.6-581.0') and 0.035 oz/ton Au over 3.0' in a silicified buff carbonate (581.0-584.0') The best average from this zone was 0.03 oz/ton Au over 10.4' (577.6-588.0')

Summary and Conclusions of hole ME-85-2

As in ME-85-1, significant mineralization was found in a lower unit of silicified buff carbonate, however the gold values were disappointing. Alteration and mineralization in the lower part of ME-85-2 was similar to that of the lower part of ME-85-1, and this unit appears to strike in a north-south direction a distance of at least 100 meters.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-2

SECTION LOOKING 360°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-2	
Location:	EBY TOWNSHIP	Date Started:	NOV. 10	Page No.	one	
Level:	SURFACE	Date Finished:	NOV. 15	Core Size:	BQ	
Bearing:	090 DEG.	Logged:	S. Carmichael	Test-Acid:	YES	Tropari: Strike / Dip
Inclination:	-45 DEG.	Core Saved?	YES	Discarded:		
		Casing: Left	Pulled:	YES		
Total Depth:	605.0ft.	Elevation:		At:	50.0'	- 44 DEG.
				At:	300.0'	- 44 DEG.
Coords Collar - Lat:	10400N	Dep:	1140W	At:	600.0'	- 42 DEG.
Drilled by:	HEATH & SHERWOOD	Date Logged:	NOV. 15-19			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-42ft. (0-12.80m)	Casing					
42.0-395.5ft. (12.80-120.58m)	Sediments Dark green to buff green carbonates, dirty carbonates and tuff with small graphitic units. Carbonates are locally sericitic, moderately fractured to massive.					
	60.0-66.4' - Dirty carbonate with 5% chloritized mud shards, weakly fractured with qtz stringers. Sandy carbonate fining towards 66.0', trace - 1% py.	7064	60.0-66.4ft. (18.29-20.4m)	Nil	Nil	6.4ft. (1.95m)
	66.4-76.0' - Fine grained buff carbonate trace py.	7065	66.4-76.0ft. (20.4-23.17m)	Nil	Nil	9.6ft. (2.93m)
	76.0-81.0' - becoming fragmental and cherty at 78.0-79.5' with 4-5% fine py, rest of section is fine grained buff carbonate.	7066	76.0-81.0ft. (23.17-24.69m)	0.02	Trace	5.0ft. (1.52m)
	81.0-106.0' - greenish grey dirty carbonate, moderately fractured with qtz/calcite stringers. Qtz vein or cherty zone from 103.2-103.8', trace py.					
	106.0-118.0' - moderately fractured buff carbonate, albitized with minor sericite trace 1% py, occasional cherty zones.					

106.0-110.0'	7067	106.0-110.0ft. (32.35-33.54m)	Nil	Nil	4.0ft. (1.22m)
110.0-114.0'	7068	110.0-114.0ft. (33.54-34.76m)	0.02	Trace	4.0ft. (1.22m)
114.0-118.0'	7069	114.0-118.0ft. (34.76-35.98m)	Nil	Nil	4.0ft. (1.22m)
118.0-120.6' - Graphitic shale with cherty layers, may be a fragmental, 10% marcasite.	7070	118.0-120.6ft. (35.98-36.77m)	0.09	Trace	2.6ft. (0.79m)
120.6-121.0' - albitized carbonate, 2% py.	7071	120.6-121.0ft. (36.77-36.89m)	Nil	Nil	
121.0-124.0' - graphitic shale, 2% py	7072	121.0-124.0ft. (36.89-37.80m)	0.02	Trace	
124.0-128.5' - dark green dirty carbonate, fining down hole into a graphitic shale.					
128.5-129.3' - graphitic shale, 5% marcasite in stringers.					
129.3-147.0' - massive buff carbonate, sericitic stringers from 138.0-139.0', 2" qtz. vein at 132.0' with hematite, dip 30 DEG. to core axis.					
128.5-133.0'	7073	128.5-133.0ft. (39.18-40.55m)	Nil	Nil	4.5ft. (1.37m)
133.0-138.0'	7074	133.0-138.0ft. (40.55-42.07m)	Nil	Nil	5.0ft. (1.52m)
138.0-143.0'	7075	138.0-143.0ft. (42.07-43.59m)	Nil	Nil	5.0ft. (1.52m)
143.0-147.0'	7076	143.0-147.0ft. (43.59-44.82m)	Nil	Nil	4.0ft. (1.22m)
147.0-155.9' - moderately fractured buff carbonate, very fine grained, becoming brecciated at 148.0'					
	7077	147.0-152.0ft. (44.82-47.53m)	Nil	Nil	5.0ft. (1.52m)
graphitic from 154.5-155.0'	7078	152.0-155.9ft.	0.03	Trace	3.9ft. (1.19m)
155.9-159.0' - brecciated, moderately silicified, may be a fragmental, 3-4% py 20% sericite/carbonate stringers.	7079	155.9-159.0ft. (47.53-48.48m)	0.06	0.002	3.1ft. (0.95m)
159.0-163.0' - as above, trace py	7080	159.0-163.0ft. (48.48-49.69m)	0.16	0.005	4.0ft. (1.22m)
163.0-168.0' - buff carbonate, trace py	7081	163.0-168.0ft. (49.69-51.22m)	0.03	0.001	5.0ft. (1.52m)
168.0-172.0' - buff carbonate, 2-3% py	7082	168.0-172.0ft.	0.02	0.001	4.0ft.

		(51.22-52.44m)			(1.52m)
172.0-174.0' - as above	7083	172.0-174.0ft. (52.44-53.05m)	Nil	Nil	2.0ft. (0.61m)
174.0-177.3' - silicified with 10% fine py to 176.0', becoming grey carbonate sandstone at 177.0'.	7084	174.0-177.3ft. (53.05-54.05m)	0.69	0.02	3.3ft. (1.01m)
177.3-203.0' - Dirty carbonate tuff, occasional fine carbonate units, fining 179.0'. Qtz vein from 195.4-197.6, may have been a chert, 2-3% py in vein.	7085	195.4-197.6ft. (59.57-60.24m)	0.04	0.001	2.2ft. (0.67m)
203.0-246.0' - fine grained chloritic tuff, weakly to moderately fractured, laminations at 44 DEG. to core axis.					
240.0-246.0' - ground core.					
246.0-251.9' - medium grained carbonate tuff or tuff.					
251.9-256.0' - fine grained, weakly hematized sediment, trace - 1% py	7086	251.9-256.0ft. (76.80-	Nil	Nil	
256.0-265.8' fine grained chloritic tuff					
265.8-270.0' - pebble conglomerate with quartz and feldspar pebbles in a sericite/carbonate matrix.	7087	266.0-270.0ft.	Nil	Nil	4.0ft. (1.22m)
270.0-326.8' - dark to medium green colored fine grained carbonate (blocky core).					
326.8-336.8' - dark green fragmental, mottled textured.					
336.8-350.0' - fine grained dark green carbonate, moderately fractured with sericitic? stringers					
350.0-352.0' - fragmental or coarsley brecciated section.					
352.0-354.0' - massive carbonate.					
354.0-358.5' - sericitic sediment with qtz clasts, 3-4% py in sericitic	7088	354.0-358.5ft.	0.16	0.01	4.5ft.

	stringers.					(1.37m)
	358.5-369.6' - fragmental tuff & carbonate, dark green in color.					
	369.6-373.0' - pyritic sediments, cherty in places, pyrite localized along bedding planes at 35 DEG. to core axis.	7089	369.6-373.0ft.	2.95	0.095	3.4ft. (1.04m)
	373.0-376.5' - as above, fractured chert or silicified carbonate from 374.6-376.0	7090	373.0-376.5ft.	0.45	0.01	3.5ft. (1.07m)
	376.5-383.9' - fragmental, dark green in color, 5% sericite/carb. stringers.					
	383.9-395.5' - tuff or carbonate, occasional fragmented zone, dark green in color.					
395.5-479.0ft. (120.58-146.04m)	Volcanics Fine grained volcanics, dark to medium green in color. Flow top breccia for the most part, may be a komatiitic basalt as indicated by relic polygonal jointing and spinafex textures.					
	395.5-396.7' - flow top breccia with pillow fragments containing mm size spherules, light green in color, non-magnetic. May be a Mg-tholeiite.					
	396.7-401.0' - fine grained light green flow.					
	401.0-420.4' - flow top breccia with hyaloclastite from 409.4-409.7', qtz/feldspar vein from 417.8-149.0'.					
	420.4-428.0' - fine grained medium green colored volcanics, moderately fractured with qtz stringers.					
	428.0-436.0' - basaltic komatiite, dark green almost black in color with ploygonal jointing at 428.0'.					
	436.0-442.0' - flow top breccia.					
	442.0-442.6' - tuffaceous material, 5-10 py, laminations at 50 DEG. to core axis.					
	442.6-458.0' - flow top material, may be					

	komatiitic as indicated by possible, spinafex and ploygonal jointing from 444.0-446.0'.				
	458.0-479.0' - volcanics, dark green, fine grained moderately fractured with qtz/carb. stringers.				
479.0-605.0ft. (146.04-184.45m)	Sediments Silicified buff carbonate sediments, moderately fractured with zones of hematized carbonate, chlorite tuff and carbonate tuff locally albitized. Pyrite content variable, 3-4% in the silicified carbonated with local zones of 20-30% py.				
	486.0-488.5' - moderately fractured greyish-green sediment, 5-10% py, moderately silicified.	7091	486.0-488.5ft. (148.17-148.93m)	0.670	0.022	2.5ft. (0.76m)
	488.5-498.2' - moderately fractured, silicified buff carbonate, 8-10% py, 10% qtz veins from 491.6-493.5'.				
		7092	488.5-491.6ft. (148.93-149.88m)	0.180	0.006	3.1ft. (0.95m)
		7093	491.6-493.5ft. (149.88-150.46m)	0.07	0.002	1.9ft. (0.58m)
		7094	493.5-498.2ft. (150.46-151.89m)	0.25	0.008	4.7ft. (1.43m)
	498.2-504.0' - carbonate tuff, dark green, trace py.	7095	498.2-504.0ft. (151.89-153.66m)	0.03	0.001	5.8ft. (1.77m)
	504.0-506.0' - dark purple hematized unit, highly fractured, 5-10% py.	7096	504.0-506.0ft. (153.66-154.27m)	0.45	0.015	2.0ft. (0.61m)
	506.0-511.0' - moderately fractured green chloritic, tuff, qtz. vein or chert from 506.0-506.7', trace py.	7097	506.0-511.0ft. (154.27-155.79m)	0.07	0.002	5.0ft. (1.52m)
	511.0-515.0'	7098	511.0-515.0ft. (155.79-157.01m)	0.08	0.003	4.0ft. (1.22m)
	515.0-521.0' - Felsic microconglomerate or sandstone, moderately fractured, yellowish-green in color, trace - 2% py.	7099	515.0-521.0ft. (157.01-158.84m)	0.06	0.002	6.0ft. (1.83m)
	521.0-529.2' - moderately fractured carbonate, locally albitized.					
		7100	521.0-526.0ft. (158.84-160.37m)	0.01	0.003	5.0ft. (1.52m)

	6801	526.0-529.2ft. (160.37-161.34m)	0.08	0.003	3.2ft. (0.98m)
529.2-531.0' - microconglomerate, 1-2% py.	6802	529.2-531.0ft. (161.34-161.89m)	0.110	0.003	1.8ft. (0.55m)
531.0-533.6' - moderately fractured carbonate or carbonate tuff.	6803	531.0-533.6ft. (161.89-162.68m)	Nil	Nil	2.6ft. (0.79m)
533.6-540.2' - buff yellow micro - conglomerate or sandstone, 3-4% py.	6804	533.6-537.0ft. (162.68-164.70m)	0.06	0.002	3.4ft. (1.04m)
	6805	537.0-540.2ft.	0.170	0.005	3.2ft. (0.98m)
540.2-544.0' - hematized sediments, moderately fractured, fractures show pervasive carbonate/sericite alteration with 15-20% py in altered sections.	6806	540.2-544.0ft. (164.70-165.85m)	1.370	0.04	3.8ft. (1.16m)
544.0-548.7' - as above, less hematization.	6807	544.0-548.7ft. (165.85-167.29m)	0.100	0.003	4.7ft. (1.43m)
548.7-550.0' - silicified carbonate tuff, 20% py throughout.	6808	548.7-550.0ft. (167.29-167.68m)	1.370	0.04	1.30ft. (0.40m)
550.0-552.5'- buff carbonate/sericite tuff, hematized towards 525', 5% py.	6809	550.0-552.5ft. (167.68-168.45m)	1.480	0.05	2.5ft. (0.76m)
552.5-567.0' - carbonate tuff, moderately fractured with trace - 1% py.	6810	552.5-557.0ft. (168.45-172.87m)	0.04	0.001	4.5ft. (1.37m)
	6811	557.0-562.0ft. (169.81-171.34m)	Nil	Nil	5.0ft. (1.52m)
laminations 34 degrees to core axis.	6812	562.0-567.0ft.	0.02	0.006	5.0ft. (1.52m)
567.0-568.5' - pyritic sediments, may be a carbonate tuff, 15% py.	6813	567.0-568.5ft. (172.87-173.32m)	0.340	0.01	1.5ft. (0.46m)
568.5-571.4' - laminated tuff, trace py.	6814	568.5-571.4ft. (173.32-174.21m)	Nil	Nil	2.9ft. (0.88m)
571.4-574.0' - hematized sediments with qtz/carb. stringers, 5% py.	6815	571.4-574.0ft. (174.21-175.00m)	0.130	0.004	2.6ft. (0.79m)
574.0-577.6' - laminated green albitized carb., trace py.	6816	574.0-577.6ft. (175.0-176.10m)	0.07	0.002	3.6ft. (1.10m)
577.6-579.6' - laminated pyritic	6817	577.6-579.6ft.	0.720	0.023	2.0ft.

	sediments, laminations 50 degrees to core axis.		(176.10-176.71m)		(0.61m)
	579.6-581.0' - laminated carbonate tuff, dark green, trace py.	6818	579.6-581.0ft. (176.71-177.13m)	0.960	0.038	1.4ft. (0.43m)
	581.0-588.0' - silicified buff carbonate 70% qtz veining, 2-3% molybdenite or graphite, 5% py.					
		6819	581.0-584.0ft.	1.07	0.035	3.0ft. (0.91m)
		6820	584.0-588.0ft.	0.690	0.022	4.0ft. (1.23m)
	588.0-591.2' - buff silicified carbonate and chloritic tuff, 5% py throughout.	6821	588.0-591.2ft.	0.240	0.008	3.2ft. (0.98m)
	591.2-605.0' - green carbonate/carbonate tuff.					
605.0ft. (184.45m)	END OF HOLE					
	AVERAGES:					
	369.6-373.0ft. 3.4ft. of 0.095oz.					
	369.6-376.5ft. 6.9ft. of 0.05oz.					
	548.7-552.5ft. 3.8ft. of 0.05oz.					
	577.6-588.0ft. 10.4ft. of 0.03oz.					

Hole: ME-85-3

Location: P18227, 12+00N-2+00W

Azimuth: 090 DEG.

Dip: -45 DEG.

Depth: 506.0' (154.26m)

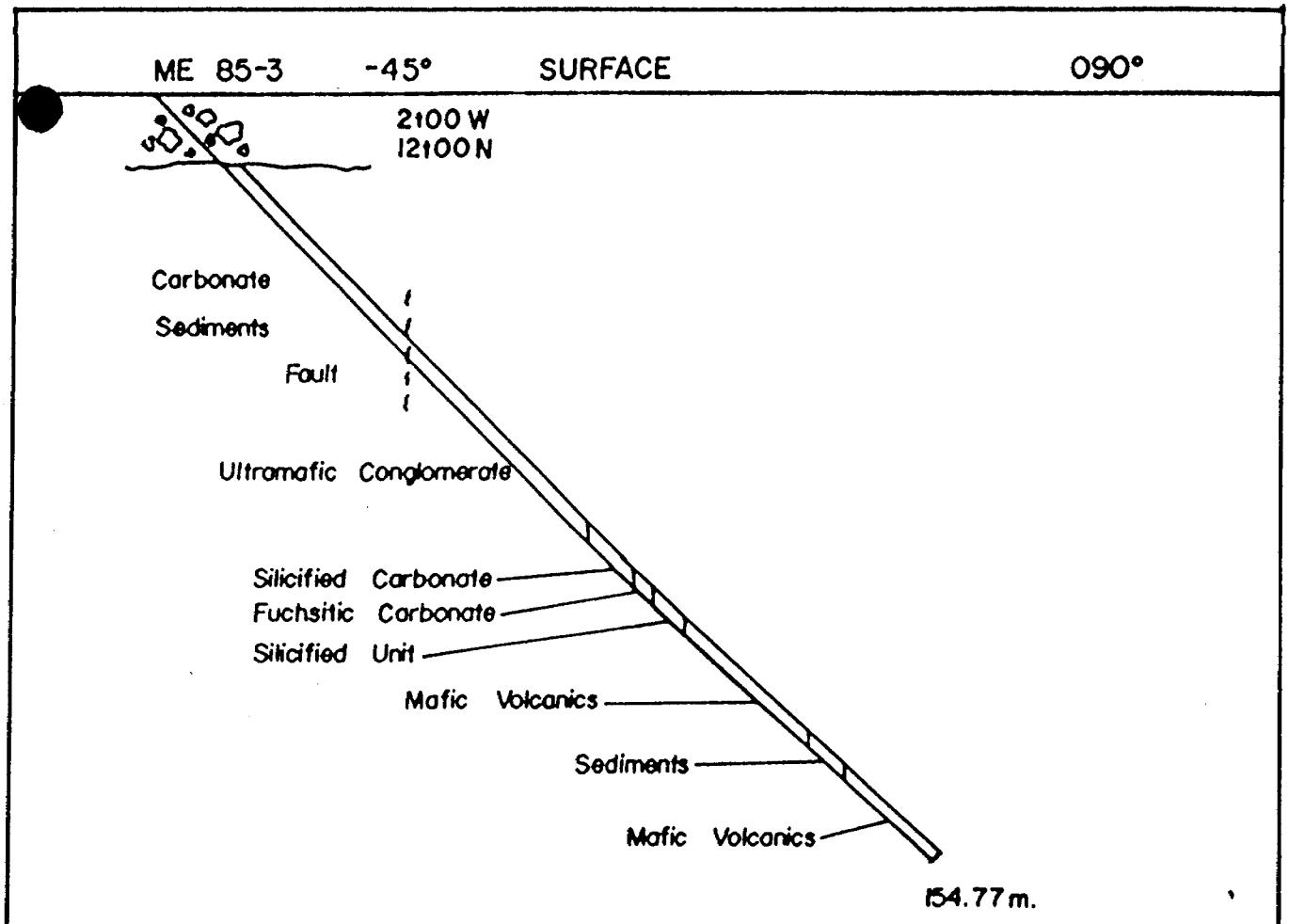
Target: I.P. anomaly, L12+00N, 1+75W-1+50W, green carbonate showing on L12+00N, 1+40W.

Beaucoeur drilling in 1939 on the green fuchsitic carbonate showing gave assays of 0.64 oz/ton Au over 2.0' and 0.70 oz/ton Au over 10.0', and in conjunction with the I.P. anomaly adjacent to this showing indicated a very favourable drill target. The hole was a technical success in that the carbonate body was intersected at depth and a highly silicified/brecciated unit was found adjacent to this carbonate zone. Projection of the carbonate zone to surface indicated that the units are dipping steeply to the east, and not to the west as previously thought.

Gold mineralization was limited to the silicified zone adjacent to the fuchsitic carbonate until from 331.0-351.7', with the best value being 0.10 oz/ton Au over 2.0' from 347.0-349.0'. The averages from this zone include 0.05 oz/ton Au over 6.7' from 345.0-351.7' with an average over the total width of 0.02 oz/ton Au over 20.7'. The fuchsitic carbonate in which Beaucour Mines obtained high gold values returned only trace values in ME-85-3, which is not surprising as gold values in fuchsitic carbonates are generally erratic.

Summary and Conclusions of ME-85-3

ME-85-3 may be deemed a success in that a significant concentration of gold was found, though over a short interval. Follow-up drilling may be warranted over this zone, with the objective being to determine if the gold values increase at a greater depth.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-3

SECTION LOOKING 360°

Scale 1cm=10 meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-3	
Location:	EBY TOWNSHIP	Date Started:	Nov 19	Page No.	one	
Level:	SURFACE	Date Finished:	Nov. 22	Core Size:	BQ	
Bearing:	090 DEG.	Logged:	S. Carmichael	Test-Acid:	YES	Tropari:
Inclination:	-45 DEG.	Core Saved?	YES	Discarded:		Strike Dip
		Casing: Left	Pulled:	YES		
Total Depth:	506.0ft.	Elevation:		At:		
				At:	300.0'	44 DEG.
Coords Collar - Lat:	12+00N	Dep:	2+00W	At:	496.0'	42 DEG.
Drilled by:	HEATH & SHERWOOD	Date Logged:	NOV. 20-22			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-47.0ft. (0-14.33m)	Casing					
47.0-353.0ft. (14.33-107.62m)	Sediments Sediments ranging from dark green chloritic tuff or carbonate/tuff, buff brown silicified carbonate, green fuchsitic carbonates and ultramafic conglomerates. 47.0-55.0' - dark green chloritic tuff or tuffaceous carbonate, locally hematized to 21.0', moderately reactive to HCl and moderately fractured with qtz/carbonate stringers. 55.0-60.0' - laminated ultramafic carbonate, laminations along the core axis which may represent a schistosity. 60.0-70.6' - dark green moderately fractured carbonate or tuffaceous carbonate. 70.6-71.5' - green laminated carbonate, 10-15% fuchsite, 3-4% py. 71.5-75.6' - moderately fractured buff brown carbonate, moderately to highly silicified, 2-3% py.	6822	70.6-71.5ft.	0.120	0.004	0.90ft. (0.27m)
		6823	71.5-73.5ft.	0.06	Trace	2.0ft. (0.61m)
		6824	73.5-75.6ft.	0.07	Trace	2.1ft.

						(0.64m)
	175.6-169.0' - dark green moderately fractured carbonate or tuffaceous carbonate, moderately reactive to HCl, fractures filled with qtz/carbonate stringers.					
	177.0-177.6' - laminated carbonate, laminations at 22 DEG. to core axis, becoming lighter green in color towards 196.0' with an increase in mud shards.					
	103.8-104.2' - sandy unit, sharp upper contact grading into a finer unit down hole.					
	109.0-111.0' - cherty zone, 4% py.	6825	109.0-111.0ft.	0.07	Trace	2.0ft. (0.61m)
	115.0-115.4' - sandy unit, sharp upper contact, gradational lower contact.					
	124.5-125.7' - as above					
	162.0-164.0' - sandy unit, becoming felsic towards 164.0'.					
	166.0-168.8' - fragmental ultramafic sediments with qtz fragments, may be brecciated.					
168.8-169.0ft. (51.46-51.52m)	Fault - as indicated by schist and mud.					
	169.0-258.0' - ultramafic conglomerate, dark green, greasy mottled texture, carbonate matrix with varying sizes of medium grained ultramafic volcanics with local zones of hematized carbonate sandstone.					
	171.9-177.6 - hematized carbonate sandstone, dark brown in color, fine to medium grained, highly reactive to HCl, 3-4% coarse py.	6826	171.9-177.6ft. (52.41-54.15m)	Nil	Nil	5.7ft. (1.74m)
	193.0-195.4' - as above, appears to be fining down hole.	6827	193.0-195.4ft. (58.84-59.57m)	Nil	Nil	2.4ft. (0.73m)
	232.7-233.2' - hematized sandstone.					

233.9-234.3' - as above					
247.2-247.7' - as above					
251.6-252.0' - laminated ultramafic carbonate, laminations at 45 DEG. to core axis.					
258.0-268.0' - felsic conglomerate, syenitic in composition, pebbles up to 1 1/2" at 258.0', fining down hole.	6828	261.0-266.0ft.	Nil	Nil	5.0ft. (1.52m)
268.0-291.7' - ultramafic conglomerate.					
291.7-315.0' - buff silicified carbonate moderately fractured, porphyritic in places, 1-2% py throughout.					
	6829	291.7-296.0ft. (88.93-96.04m)	Nil	Nil	4.3ft. (1.31m)
	6830	296.0-301.0ft. (90.24-91.77m)	0.02	Trace	5.0ft. (1.52m)
	6831	301.0-305.0ft. (91.77-92.99m)	0.03	Trace	4.0ft. (1.22m)
10% qtz veins, 5% py.	6832	305.0-308.0ft. (92.99-93.90m)	0.07	Trace	3.0ft. (0.91m)
- as above	6833	308.0-311.0ft. (93.90-94.82m)	0.34	0.01	3.0ft. (0.91m)
- as above	6834	311.0-315.0ft. (94.82-96.04m)	0.41	0.013	4.0ft. (1.22m)
315.0-319.5' - greenish-grey carbonate, weakly fuchsitic, 2-3% qtz stringers, trace - 1% py.					
	6835	315.0-317.0ft. (96.04-96.65m)	0.19	0.006	2.0ft. (0.61m)
	6836	317.0-319.5ft. (96.65-97.41m)	0.52	0.017	2.5ft. (0.76m)
319.5-331.0' - bright green laminated fuchsitic carbonate, 5% qtz stringers, laminations at 47 DEG. to core axis.					
1-2% py throughout	6837	319.5-322.0ft. (97.41-98.17m)	0.100	Trace	2.5ft. (0.76m)
	6838	322.0-325.0ft. (98.17-99.09m)	Nil	Nil	3.0ft. (0.91m)
	6839	325.0-327.0ft. (99.09-99.70m)	Nil	Nil	2.0ft. (0.61m)
	6840	327.0-331.0ft. (99.70-100.91m)	0.02	Trace	4.0ft. (1.22m)

	331.0-351.7' - buff brown, highly silicified, moderately fractured, locally brecciated unit, 4-5% py throughout.				
		6841	331.0-333.0ft. (100.91-101.52m)	0.15	0.005	2.0ft. (0.61m)
		6842	333.0-335.0ft. (101.52-102.13m)	0.300	0.01	2.0ft. (0.61m)
		6843	335.0-337.0ft. (102.13-102.74m)	0.62	0.01	2.0ft. (0.61m)
		6844	337.0-339.0ft. (102.74-103.35m)	1.71	0.055	2.0ft. (0.61m)
		6845	339.0-341.0ft. (103.35-103.96m)	0.63	0.02	2.0ft. (0.61m)
		6846	341.0-343.0ft. (103.96-104.57m)	0.15	0.005	2.0ft. (0.61m)
		6847	343.0-345.0ft. (104.57-105.18m)	0.18	0.006	2.0ft. (0.61m)
		6848	345.0-347.0ft. (105.18-105.79m)	0.75	0.024	2.0ft. (0.61m)
		6849	347.0-349.0ft. (105.79-106.40m)	3.22	0.10	2.0ft. (0.61m)
		6850	349.0-351.7ft. (106.40-107.23m)	0.62	0.02	2.7ft. (0.82m)
	351.7-353.0' - medium green colored carbonate or tuffaceous carbonate.	6851	351.7-353.0ft. (107.23-107.62m)	0.07	Trace	1.3ft. (0.40m)
353.0-431.0ft. (107.62-131.40m)	Volcanics - fine grained medium to dark green volcanic flows, section consists for the most part of flow - top breccias and pillows with local spherulitic horizons.					
	353.0-357.0' - altered volcanic flow, weakly carbonatized, moderately to highly brecciated, appears to grade into a less altered spherulitic flow at 357.0	6852	353.0-357.0ft. (107.62-108.84m)	0.16	0.005	4.0ft. (1.22m)
	357.0-431.0' - moderately fractured, flow top breccia, spherulitic at 365.5' and 362.4', possible pillow selvages at 378.0' and 394.7'.					
431.0-447.5ft. (131.4-136.43m)	Sediments 431.0-439.3' - sandy carbonate, reddish-green in color, fine to medium grained, trace - 1% py.					
		6853	431.0-436.0ft. (131.4-132.93	0.03	Trace	5.0ft. (1.52m)
		6854	436.0-439.3ft. (132.93-133.93m)	0.07	Trace	3.3ft. (1.01m)

	439.3-443.9' - yellowish brown, moderately silicified buff carbonate which may be sericite,5-8% py throughout	6855	439.3-442.0ft. (133.93-134.76m)	0.55	0.018	2.7ft. (0.82m)
		6856	442.0-443.9ft. (134.76-135.34m)	0.80	0.026	1.9ft. (0.58m)
	443.9-445.1' - reddish orange syenitized carbonate, weakly porphyritic, 1-2% py.	6857	443.9-445.1ft. (135.34-135.70m)	0.15	0.005	1.2ft. (0.37m)
	445.1-447.5' - silicified buff carbonate 3% qtz veins, weakly porphyritic, 3-4% py.	6858	445.1-447.5ft. (135.70-136.43m)	0.28	0.009	2.4ft. (0.73m)
447.5-506.0ft. (136.43-154.27m)	Altered mafic rock which may be either a conglomeratic sediment or pillowed and flow brecciated volcanic. Fragments are stretched along the core axis. Unit is moderately to highly fractured with larger fragments filled by qtz veins which show pervasiv sericite/carbonate alteration and pyrite mineralization.	6859	447.5-453.0ft. (136.43-138.11m)	0.04	Trace	5.5ft. (1.68m)
		6860	453.0-458.0ft. (138.11-139.63m)	Nil	Nil	5.0ft. (1.52m)
		6861	458.0-463.0ft. (139.63-141.18m)	0.03	Trace	5.0ft. (1.52m)
	4-5% py along qtz veins.	6862	463.0-465.2ft. (141.16-141.83m)	0.18	0.006	2.2ft. (0.67m)
	chloritic tuff ?	6863	465.2-466.7ft. (141.83-142.29m)	0.02	Trace	1.5ft. (0.46m)
	- as above, highly fractured with qtz veins and 10% py with the veins.	6864	466.7-471.0ft. (142.29-143.60m)	0.54	0.017	4.3ft. (1.31m)
	471.0-506.0' - altered volcanics or sediments, fragments or pillows highly stretched.	6865	471.0-476.0ft. (143.60-145.12m)	0.07	Trace	5.0ft. (1.52m)
		6866	476.0-481.0ft. (145.12-146.65m)	0.01	Trace	5.0ft. (1.52m)
		6867	481.0486.0ft. (146.65-148.17m)	0.03	Trace	5.0ft. (1.52m)
		6868	486.0-491.0ft. (148.17-149.70m)	0.03	Trace	5.0ft. (1.52m)
		6869	491.0-496.0ft. (149.70-151.22m)	0.15	Trace	5.0ft. (1.52m)
		6870	496.0-501.0ft. (151.22-152.74m)	0.01	Trace	5.0ft. (1.52m)
		6871	501.0-506.0ft. (152.74-154.27m)	0.10	Trace	5.0ft. (1.52m)

506.0ft.
(154.27m)

END OF HOLE

AVERAGES:

331.0-351.7ft.
20.7ft. of 0.02oz

335.0-341.0ft.
6.0ft. of 0.03oz

345.0-351.7ft.
6.7ft. of 0.05oz.

Hole: ME-85-4

Location: P18227, 12+00N-0+00W

Dip: -45 DEG.

Azimuth: 270 DEG.

Depth: 456.0' (139.02m)

Target: Cross sectioning on L12+00N

Upon completion of hole ME-85-3, it was assertained that the dip of sediments was steeply to the east (-80 DEG.).

In order to obtain additional geological information in this area, hole ME-85-4 was drilled to complete a cross section.

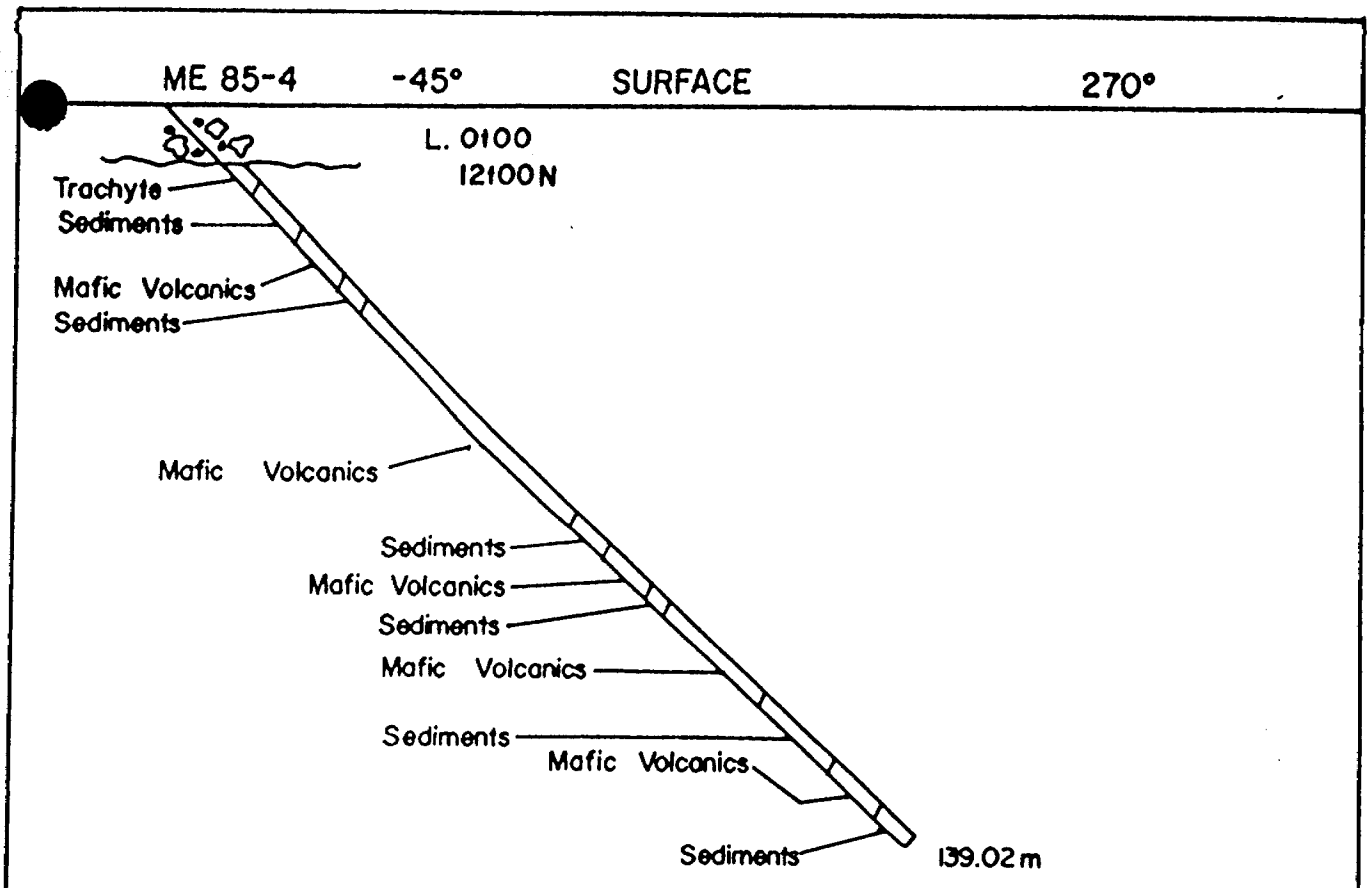
The hole consisted of interlayered mafic volcanics and sediments ranging from carbonates and tuffs to felsic sandy units which may be arkoses formed as possible beach sediments. Buff colored silicified carbonates found in ME-85-1 and 2 were absent from this hole and the best gold assay in the sediments was 0.03 oz/ton Au over 1.0' from 58.0' to 59.0'.

The unit was a sandy carbonate with a quartz vein which may contain molybdenite in fractures. A zone of flow brecciated carbonatized mafic volcanics gave a value of 0.04 oz/ton Au over 2.0', the best value found in ME-85-4.

Summary and Conclusions of ME-85-4

Although no significant gold values were found in this hole, important geological information was gathered in that the

silicified buff carbonate unit found in holes ME-85-1 and 2 does not appear to extend as far north as line 12+00N, or this unit may lie east of the collar site of ME-85-4.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-4

SECTION LOOKING 180°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-4	
Location:	EBY TOWNSHIP	Date Started:	NOV. 19/85	Page No.	one	
Level:	SURFACE	Date Finished:	NOV. 22/85	Core Size:	BQ	
Bearing:	270 DEG.	Logged:	S. Carmichael	Test-Acid:	YES	Tropari:
Inclination:	-45 DEG.	Core Saved?	YES	Discarded:		Strike Dip
		Casing: Left	Pulled:	YES		
Total Depth:	456.0ft.	Elevation:		At:	44.0ft.	45 DEG.
				At:	456.0ft.	42 DEG.
Coords Collar - Lat:	12+00W	Dep:	0+00	At:		
Drilled by:	HEATH & SHERWOOD	Date Logged:	NOV. 24-26			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-34.0ft. (0-10.36m)	Casing					
34.0-51.5ft. (10.36-15.70m)	Intrusive Fine grained moderately fractured, reddish-brown in color. May be a trachyte or fine grained syenite. Lower contact marked by brecciation and qtz veining for 1". Rock has 1-2% green chloritized fragments which do not appear to be phenocrysyts.	6872	41.0-46.0ft. (12.50-14.02m)	0.10	Trace	5.0ft. (1.52m)
51.5-78.0ft. (15.70-23.78m)	Sediments Light green colored sandy carbonate, 5% green mica with abundant rounded to angular shards of quartz and chloritized (mud shards?) (1mm in size. Becomes coarser grained and darker in color at 56.0' (fining up hole) gradational change.					
	Contains 1-2% py	6873	51.5-56.0ft. (15.70-17.07m)	0.160	0.005	4.5ft. (1.37m)
		6874	56.0-58.0ft. (17.07-17.68m)	0.73	0.02	2.0ft. (0.60m)
	- qtz vein in carbonate, 2-3% py may contain molybdenite at 58.9'.	6875	58.0-59.0ft. (17.68-17.98m)	0.955	0.03	1.0ft. (0.30m)
	- silicified carbonate or trachyte, 4-5% py, lower contact is sharp.	6876	59.0-61.3ft. (17.98-18.68m)	0.190	0.006	2.3ft. (0.70m)

	- sandy carbonate, qtz viens from 63.0-64.0' and at 666.0'.	6877	61.3-66.0ft. (18.68-20.12m)	0.190	0.006	4.7ft. (1.43m)
	- 2" qtz vein at 67.6'.	6878	66.0-71.0ft. (20.12-21.64m)	0.140	0.005	5.0ft. (1.52m)
	- becoming darker in color at 76.0', due to more mafic clasts.	6879	71.0-76.0ft. (21.64-23.17m)	0.03	Trace	5.0ft. (1.52m)
		6880	76.0-78.0ft. (23.17-23.78m)	Nil	Nil	2.0ft. (0.60m)
78.0-112.0ft. (23.78-34.14m)	Volcanics Light green colored mafic volcanics, non-magnetic, medium grained dioritic looking to 88.5', rest of section is moderately fractured amygdaloidal pillows and flow top breccia.					
112.0-126.0ft. (34.14-38.41m)	Sediments Tuffaceous to 115.1', becoming a dark green sandy carbonate, laminations at 48 DEG. to core axis.					
		6881	112.0-116.0ft. (34.14-35.36m)	0.180	0.006	4.0ft. (1.21m)
	116-118.7 - silicified section, 10% qtz veins with possible molybdenite.	6882	116.0-118.7ft. 35.36-36.18m)	0.360	0.012	2.7ft. (0.82m)
	118.7-122.0' - silicified dirty carbonate, greenish brown in color, 5% qtz veins, 5-10% py.	6883	118.7-122.0ft. (36.18-37.19m)	0.250	0.008	3.3ft. (1.00m)
	122.0-126.0' - fine grained dirty 124.6', 1% py, becoming coarser grained at 120.0'. (fining up hole)	6884	122.0-126.0ft. (37.19-38.41m)	0.03	Trace	4.0ft. (1.21m)
126.0-260.0ft. (38.41-79.26m)	Volcanics Dark green moderately fractured fine grained mafic volcanics, pillowed and flow brecciated for the most part, carbonatized throughout, locally amygdaloloidal, fractures filled with qtz/carb. stringers.					
	- qtz vein from 186.0-187.3'. 2-3% py (256.0-260.0' may be sediment) - diabase dike from 226.7-226.9', contact 90 DEG. to core axis.	6885	186.0-188.0ft. (56.70-57.31m)	Nil	Nil	2.0ft. (0.60m)
260.0-277.0ft.	Sediments					

(79.26-84.45m)	Brownish yellow silicified sandy carbonate or sandstone, moderately to highly fractured contains small chloritized mud shards and occasional volcanic fragments, 4-5% py throughout.				
	5-10% qtz veins with trace. - 1% molybdenite ?	6886	260.0-263.0ft. (79.26-80.18m)	0.210	0.007	3.0ft. (0.91m)
		6887	263.0-266.0ft. (80.18-81.09m)	0.230	0.007	3.0ft. (0.91m)
	Volcanic from 267.0-267.6'	6888	266.0-269.0ft. (81.09-81.58m)	0.07	Trace	3.0ft. (0.91m)
	Volcanic from 270.0-270.8'	6889	269.0-273.0ft. (81.58-83.23m)	0.20	0.006	4.0ft. (1.21m)
		6890	273.0-277.0ft. (83.23-84.45m)	0.07	Trace	4.0ft. (1.21m)
277.0-304.2ft. (84.45-92.74m)	Volcanics Dark colored medium grained mafic volcanics, flow brecciated and pillowed, occasional amygdules, carbonatized to 296.0', may be tuffaceous in places.					
304.2-314.4ft. (92.74-95.85m)	Sediments Buff colored silicified sediments, 7% chloritized mud shards, occasional qtz fragments, unit may have been a sandstone, 10% qtz veins, trace - 1% molybdenite in veins, 5% py throughout.	6891	304.2-307.0ft. (92.74-93.59m)	0.270	0.009	2.8ft. (0.85m)
	- becoming darker in color	6892	307.0-310.0ft. (63.59-94.51m)	0.58	0.02	3.0ft. (0.91m)
	towards 314.0', bull qtz vein from 310.6-311.0'.	6893	310.0-314.4ft. (94.51-95.85m)	0.14	0.005	4.4ft. (1.34m)
314.4-369.6ft. (95.85-112.68m)	Volcanics Dark green carbonatized volcanics, appear to be pillowed and flow brecciated in places 349.0-351.0' - hematized on it, 2-3% py.	6894	349.0-351.0ft. (106.40-107.01m)	1.375	0.04	2.0ft. (0.60m)
	364.0-369.6' - highly fractured zone, 1-2% py.	6895	364.0-369.6ft. (110.98-112.68m)	0.03	Trace	5.6ft. (1.70m)
369.6-410.3ft. (112.68-125.09m)	Sediments Sandy carbonates grading down hole into a highly fractured albitized					

	carbonate.					
	369.6-374.0' - brownish - yellow sandstone or possible micro-conglomerate, mm. size qtz pebbles throughout becoming darker green in color and coarser grained towards 374.0', 2-3% py throughout.	6896	369.6-374.0ft. (112.68-114.02m)	0.06	Trace	4.4ft. (1.34m)
	374.0-376.0' - as above, hematized, trace py.	6897	374.0-376.0ft. (114.02-114.63m)	0.03	Trace	2.0ft. (0.60m)
	376.0-380.0' - dark green sandstone.	6898	376.0-380.0ft. (114.63-115.85m)	0.210	0.007	4.0ft. (1.21m)
	380.0-383.0' - as above	6899	380.0-383.0ft. (115.85-116.76m)	0.01	Trace	3.0ft. (0.91m)
	383.0-387.0' - fine grained from 384.4 to 385.7'.	6900	383.0-387.0ft. (116.76-117.98m)	0.25	0.008	4.0ft. (0.91m)
		1001	387.0-391.8ft. (117.98-119.45m)	1.70	0.005	4.8ft. (1.28m)
	391.8-396.0' - highly altered sediments, may be volcanic, highly fractured with epidote stringers.	1002	391.8-396.ft. (119.45-120.73m)	0.30	0.01	4.2ft. (1.28m)
	396.0-406.0' - as above, broken core from 396.3-397.2'.	1003	396.0-406.0ft. (120.73-123.78m)	0.14	0.005	10.0ft. (3.04m)
	406.0-410.3' - as above	1004	406.0-410.3ft. (123.78-125.09m)	Nil	Nil	4.3ft. (1.31m)
410.3-441.0ft. (125.09-134.45m)	Volcanics ? Dark green, moderately fractured rock may be either a tuffaceous sediment or a fine grained volcanic.					
	422.0-426.0' - carbonatized, weakly hematized unit, moderately fractured, trace py very fine grained from 431.0-441.0'.	1005	422.0-426.0ft. (128.66-129.88m)	Nil	Nil	4.0ft. (1.21m)
		1006	431.0-436.0ft. (131.40-132.92m)	Nil	Nil	5.0ft. (1.52m)
		1007	436.0-441.0ft. (132.92-134.45m)	0.10	Trace	5.0ft. (1.52m)
441.0-448.6ft. (134.45-136.76m)	Sediments Highly silicified unit, may be a silicified carbonate, yellowish-brown in color, 30% qtz veining.					
	5-10% py throughout	1008	441.0-443.0ft. (134.45-135.06m)	0.355	0.01	2.0ft. (0.60m)
		1009	443.0-445.0ft. (135.06-135.67m)	0.19	0.006	2.0ft. (0.60m)
		1010	445.0-447.0ft.	0.10	Trace	2.0ft.

			(135.67-136.28m)			(0.60m)
		1011	447.0-448.6ft.	0.27	0.009	1.6ft.
			(136.28-136.76m)			(0.48m)
	448.6-456.0' - dark green sandy unit with 5% chlorite shards, 1-2% qtz fragments, fine grained to 450.0', becoming coarse grained down hole.					
		1012	448.6-456.0ft.	Nil	Nil	7.4ft.
			(136.76-139.02m)			(2.25m)
456.0ft. (139.02m)	END OF HOLE					

Hole: ME-85-5

Location: P17403, 7+50N, 0+00W

Azimuth: 050 DEG.

Depth: 445.0' (135.67m)

Target: Humus geochemical anomaly on line 0+50E, extend lower unit of ME-85-1 to the south.

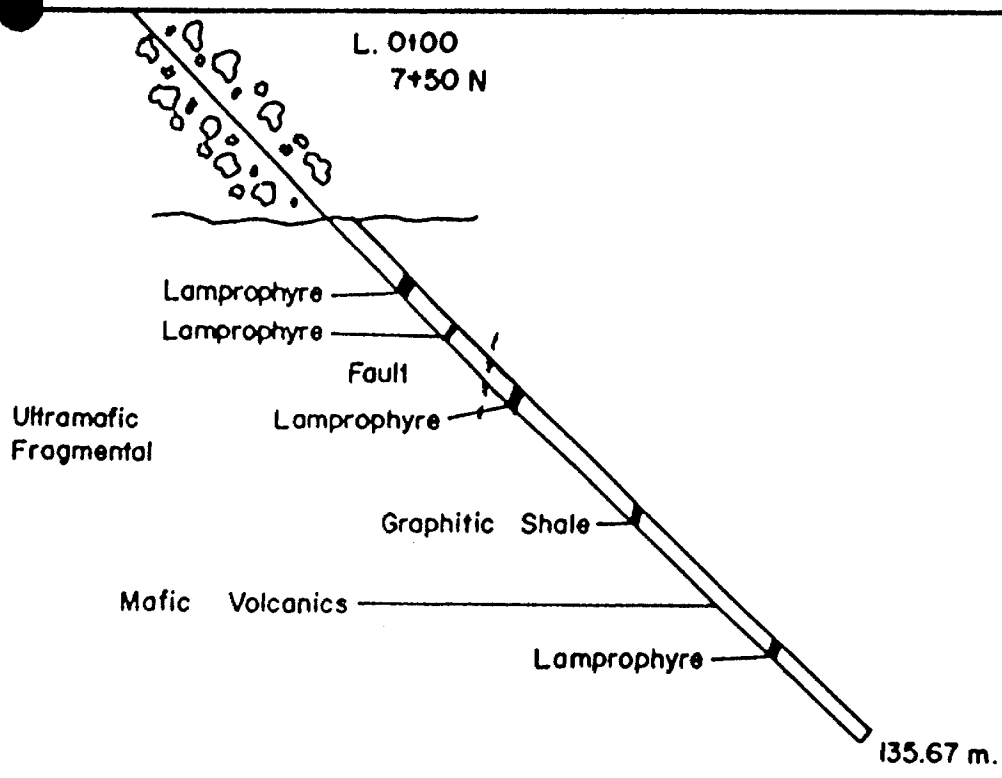
Upon completion of hole ME-85-4, it was clear that the lower silicified buff carbonate unit found in holes ME-85-1 and 2 does not extend as far north as line 12+00N, at least within the east border of claim P18227. The humus geochemical anomaly (5 to 6 x background) located along L0+50E, 8+00N, in conjunction with the proposed strike extension of the sediments found in the ME-85-1 provided an interesting drill target.

Upon intersecting bedrock at 123.0' (89.0' vertical) it was apparent that the humus geochemical anomaly was probably a false one, however the hole was continued to evaluate the bedrock geology. The entire hole consisted of volcanics, with the upper units being ultramafic in composition consisting of fragmented komatiitic flows which may be conglomeratic. A narrow graphitic shale horizon 4.0' in thickness occurred from 314.8-318.0'. The graphitic unit was then followed by mafic tholeiitic volcanics.

Samples of both the ultramafic, and mafic volcanics along with the graphitic unit were taken, however no anomalous gold values were found.

Summary and Conclusions of ME-85-5

Although the graphitic unit in ME-85-5 aligns up with the graphitic horizons found in ME-85-1 and 2, there appears to be an abrupt change in the geology south of hole ME-85-1. It may be that the strike changes to a more east-west direction south of ME-85-1, in which case ME-85-5 would not have intersected the sediments found in ME-85-1. The other possibility is that the sediments pinch out south of ME-85-1. Either case would be speculative over a 150 meter step out, thus the hole was terminated at 445.0'.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-5

SECTION LOOKING 325°

Scale 1cm=10meters

Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-5	
Location:	EBY TOWNSHIP	Date Started:	NOV. 23/85	Page No.	one	
Level:	SURFACE	Date Finished:	NOV. 26/85	Core Size:	BQ	
Bearing:	050 DEGREES	Logged:	S. Carmichael	Test-Acid:	YES	Tropari:
Inclination:	-45 DEGREES	Core Saved?	YES	Discarded:		Strike Dip
		Casing: Left	Pulled:	YES		
Total Depth:	445.0ft.	Elevation:		At:	133.0'	44 DEG.
				At:	445.0'	42 DEG.
Coords Collar - Lat:	7+50N	Dep:	L 0+00	At:		
Drilled by:	HEATH & SHERWOOD	Date Logged:	NOV. 26-27			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-123.0ft. (0-37.5m)	Casing					
123.0-314.8ft. (37.5-95.97m)	Sediments Dark green ultramafic fragmental, rounded to subrounded with clasts of mixed sizes up to 2". May be conglomeratic. Core is very blocky and fractured with carbonate stringers. Rock is talcy and locally serpentinized in shear zones. 166.0-170.0' - ground core, altered to talc/chlorite, may be a shear zone. 170.0-171.0 - fine grained lamprophyre dike may contain 1-2% muscovite. 173.0-181.0' - ultramafic	1021	173.0-181.0ft. (52.74-55.18m)	Nil	Nil	8.0ft. (2.43m)
	197.0-200.0' - lamprophyre 208.0-209.3' - ground core					
223.6ft. (68.17m)	Fault - talc/chlorite schist, serpentinized slicken sides 223.6-226.0' - ground core 237.5-238.8' - lamprophyre 298.5-303.5' - ultramafic	1023	298.5-303.5ft. (91.0-92.53m)	Nil	Nil	5.0ft. (1.52m)
		1022	306.0-311.0ft. (93.29-94.81m)	Nil	Nil	5.0ft. (1.52m)

	311.2-311.7' - fragments have 5-6% K-feldspar phenocrysts, may represent a different source.					
314.8-318.0ft. (95.97-96.95m)	Graphitic shale Fine bedded graphitic shale, 3-4% marcasite, bedding 35 degrees to core axis.	1013	314.0-318.0ft. (95.97-96.95m)	0.03	Trace	4.0ft. (1.22m)
318.0-445.0ft.	Volcanics Very fine grained greenish/grey basalt, probably a Mg-tholeitte. Weakly to moderately fractured with little volcanic textures, occasional zones of spherulites and bedded tuff. Rock is chloritized throughout.					
	318.0-320.0' - fragmental volcanics, 8% marcasite.	1014	318.0-320.0ft. (96.95-97.56m)	Nil	Nil	2.0ft. (0.60m)
	325.0-326.8' - as above, cherty at 325.0-325.4, 5% py.	1015	325.0-326.8ft. (99.08-99.63m)	Nil	Nil	1.8ft. (0.54m)
	346.0-364.4' - fragmental flow, moderately fractured, trace py, tuffaceous bedding at 28 degrees to core axis.					
		1016	466.0-351.0ft. (142.07-107.01m)	0.03	Trace	5.0ft. (1.52m)
		1017	351.0-356.0ft. (107.01-108.53m)	Nil	Nil	5.0ft. (1.52m)
		1018	356.0-361.0ft. (108.53-110.06m)	Nil	Nil	5.0ft. (1.52m)
		1019	361.0-364.04ft. (110.06-111.09m)	Nil	Nil	3.4ft. (1.03m)
	386.0-391.0' - fragmental and pillowed section, 10% py in selvages from 388.8-389.3'.	1020	386.0-391.0ft. (117.68-119.20m)	0.12	0.004	5.0ft. (1.52m)
	396.0-402.2' - mafic intrusive, dark green to black, fine grained material, 1-2% biotite, may be lamprophyric.					
445.0ft. (135.67m)	END OF HOLE					

Hole: ME-85-6

Location: P18227, 12+00N, 3+00W

Azimuth: 090 degrees

Dip: -45 degrees

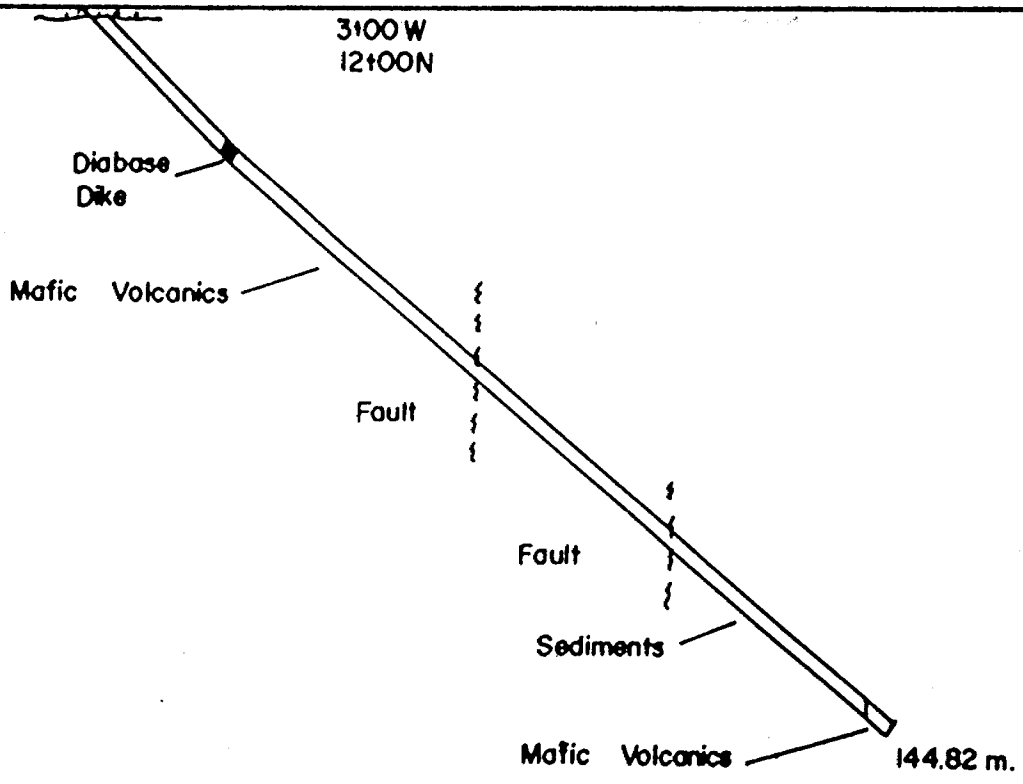
Depth: 475.0' (144.81m)

Target: Complete cross sectioning on L12+00N and gather geological information west of ME-85-3.

Lack of surface exposure to the west of the collar site for ME-85-3 did not preclude the possibility of sediments occuring on that part of the property. ME-85-6 consisted of altered (hematized) highly fractured mafic volcanics, often the fractures were filled with specular hematite. One sedimentary unit was present from 233.0 to 464.0' consisting of ultramafic fragments (conglomerates?) and tuffaceous carbonates with lesser amounts of arkosic sandstones. The ultramafic carbonates appear to be similar to those encountered in ME-85-1, however the rock units down - hole from the ultramafics in ME-85-6 do not appear to correlate with those found in ME-85-1. The ultramafics found in ME-85-6 may correlate with those found on line 13+64N, 3+00W found during the coarse of geological mapping. All samples from this hole returned only trace values of gold.

Summary and Conclusions of ME-85-6

The extreme fracturing and brecciation within the upper section of the hole may indicate a major structural break to the west of the collar site.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-6

SECTION LOOKING 360°

Scale 1cm =10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-6	
Location:	EBY TOWNSHIP	Date Started:	NOV. 27	Page No.	one	
Level:	SURFACE	Date Finished:	NOV. 30	Core Size:	BQ	
Bearing:	090 DEGREES	Logged:	S. Carmichael	Test-Acid:	YES	Tropari: Strike / Dip
Inclination:	-45 DEGREES	Core Saved?	YES	Discarded:		
		Casing: Left	Pulled:	YES		
Total Depth:	475.0ft.	Elevation:		At:	16.0ft.	44 DEG.
				At:	200.0ft.	40 DEG.
Coords Collar - Lat:	12+00W	Dep:	3+00W	At:	470.0ft.	40 DEG.
Drilled by:	HEATH & SHERWOOD	Date Logged:	NOV. 29/85-DEC. 3/85			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-6.0ft. (0-1.83m)	Casing					
6.0-233.0ft. (1.83-71.04m)	Mafic Volcanics Moderately to highly fractured fine grained basalt, extensive brecciation in places. Basalt is dark green,chloritized and magnetic from 6.0-33.8', and from 137.1-170.0'. Highly brecciated sections show specular hematite and 1-2% py mineralization. Basalt is weakly carbonatized from 94.3'. Pillow selvages are not well developed and amygdules occur occasionaly throughout. Fractures are filled with qtz/calcite stringers and pink calcite.					
	12.0-17.0' - hematized, moderately fractured, 1-2% coarse py throughout.	1024	12.0-17.0ft. (3.66-5.18m)	Nil	Nil	5.0ft. (1.52m)
	17.0-22.0' - as above	1025	17.0-22.0ft. (5.18-6.71m)	Nil	Nil	5.0ft. (1.52m)
	22.0-26.0' - as above	1026	22.0-26.0ft. (6.71-7.93m)	Nil	Nil	4.0ft. (1.22m)
	26.0-31.0' - brecciated to 27.6' with 1% specular hematite stringers.	1027	26.0-31.0ft. (7.93-9.45m)	Nil	Nil	5.0ft. (1.52m)
	31.0-36.0' - becoming lighter green in color at 33.8' with a loss of magnetism, brecciated for 4" at 33.8', trace - 1% py throughout.	1028	31.0-36.0ft. (9.45-10.98m)	Nil	Nil	5.0ft. (1.52m)

36.0-41.0' - highly fractured and brecciated with 30% qtz/carb. stringers, 2-3% py.	1029	36.0-41.0ft. (10.98-12.50m)	Nil	Nil	5.0ft. (1.52m)
41.0-45.5' - brecciated throughout trace - 1% py.	1030	41.0-45.5ft. (12.50-13.87m)	Nil	Nil	4.5ft. (1.37m)
45.5-48.0' - brecciated, weakly silicified, 3-4% py.	1031	45.5-48.0ft. (13.87-14.63m)	Nil	Nil	2.5ft. (0.76m)
48.0-51.0' - brecciated with qtz/carb. stringers, 3-4% spec. hematite, 2-3% py.	1032	48.0-51.0ft. (14.63-15.55m)	0.02	Trace	3.0ft. (0.91m)
51.0-54.0' - as above	1033	51.0-54.0ft. (15.55-16.46m)	0.02	Trace	3.0ft. (0.91m)
54.0-57.0' - brecciated, 3-4% spec. hematite, 1-2% py.	1034	54.0-57.0ft. (16.46-17.38m)	0.01	Trace	3.0ft. (0.91m)
57.0-61.0' - as above	1035	57.0-61.0ft. 17.38-18.60m)	0.01	Trace	4.0ft. (1.22m)
61.0-65.0' - as above, less specular hematite and less brecciated towards 65.0'	1036	61.0-65.0ft. (18.60-19.82m)	Nil	Nil	4.0ft. (1.22m)
65.0-70.0' - highly brecciated unit, fine grained angular fragments, trace - 1% py.	1037	65.0-70.0ft. (19.82-21.34m)	Nil	Nil	5.0ft. (1.52m)
70.0-75.0' - less brecciated.	1038	70.0-75.0ft. (21.34-22.87m)	Nil	Nil	5.0ft. (1.52m)
75.0-79.0' - as above	1039	75.0-79.0ft. (22.87-24.09m)	Nil	Nil	4.0ft. (1.22m)
86.0-91.0' - coarsley brecciated, trace - 1% py.	1040	86.0-91.0ft. (26.22-27.74m)	Nil	Nil	5.0ft. (1.52m)
91.0-96.0' - diabase dike to 92.0', moderately hematized and fractured rest of section.	1041	91.0-96.0ft. (27.74-29.27m)	Nil	Nil	5.0ft. (1.52m)
96.0-101.0' - as above	1042	96.0-101.0ft. (29.27-30.79m)	Nil	Nil	5.0ft. (1.52m)
101.0-106.0' - as above	1047	101.0-106.0ft. (30.79-32.32m)	Nil	Nil	5.0ft. (1.52m)
115.3-137.0' - highly brecciated and epidotized, 15% qtz. stringers, trace					

	1% py throughout, 2-3% py locally.					
		1043	115.3-120.0ft. (35.15-36.59m)	Nil	Nil	4.7ft. (1.43m)
		1044	120.0-125.0ft. (36.59-38.11m)	Nil	Nil	5.0ft. (1.52m)
		1045	125.0-130.0ft. (38.11-39.63m)	Nil	Nil	5.0ft. (1.52m)
		1046	130.0-136.0ft. (39.63-41.46m)	0.01	Trace	6.0ft. (1.83m)
	143.0-146.0' - weakly to moderately silicified and brecciated, 3-4% py throughout.	1048	143.0-146.0ft. (43.60-44.51m)	Nil	Nil	3.0ft. (0.91m)
	146.0-148.4' - highly brecciated, 5-10% spec. hematite, 15% qtz. stringers, weakly silicified, 1-2% py.	1049	146.0-148.4ft. (44.51-45.24m)	Nil	Nil	2.4ft. (0.73m)
	168.0-170.0' - flow top breccia.					
	214.0-219.0' - brecciated and carbonatized section, weakly silicified, moderately hematized, 4-5% py throughout	1050	214.0-219.0ft. (65.24-66.77m)	0.02	Trace	5.0ft. (1.52m)
	219.0-223.0' - as above	1051	219.0-223.0ft. (66.77-67.99m)	0.03	Trace	4.0ft. (1.22m)
	223.0-228.0' - as above, 3-4% py.	1052	223.0-228.0ft. (67.99-69.51m)	Nil	Nil	
	228.0-232.0' - as above	1053	228.0-232.0ft. (69.51-70.73m)	0.01	Trace	
Fault 233.0-464.0ft. (71.04-141.46m)	232.0-233.0' - fault, as indicated by brecciation and fault gouge.					
	Sediments Dark green ultramafic to mafic conglomentes and tuffaceous carbonate with local sandy units to arkosic microconglomerates and sandstones. Ultramafic carbonates contain 20-30% qtz./carb. stringers giving a general foliation at 48 degrees to core axis.					
	233.0-243.6' - fine grained moderately fractured dark green muddy carbonate with 3-4% mud shards.					
	243.6-244.0' - laminated ultramafic carbonate, laminations at 40 degrees to core axis.					

244.0-247.4' - muddy carbonate.					
247.4-255.3' - ultramafic carbonate, may be locally sandy.					
255.3-257.7' - arkosic sandstone or microconglomerate, grains up to 2mm consisting fo pink feldspar, appears up to be coarser down hole.					
257.7-266.0' - massive fine grained dark grey muddy carbonate.					
266.0-267.0' - arkosic unit or micro-conglomerate.					
267.0-268.6' - massive fine grained muddy carbonate.					
268.6-269.7' - ultramafic carbonate, 20% qtz./carb. stringers.					
269.7-271.0' - mafic syenite ? fine grained chill contacts, 15-20% K-spar, appears to show a good igneous texture.					
271.0-284.0' - fine grained muddy carbonate.					
284.0-294.0' - ultramafic carbonate, 20% qtz. stringers, from 292.7-293.1', may be a small syenitic dike, contact dip 46 degrees to core axis.					
284.0-289.0' - ultramafic carbonate	1054	284.0-289.0ft. (86.59-88.11m)	Nil	Nil	5.0ft. (1.52m)
289.0-294.0' - ultramafic carbonate	1055	289.0-294.0ft. (88.11-89.63m)	Nil	Nil	5.0ft. (1.52m)
294.0-295.4' - sandy carbonate					
295.4-296.2' - ultramafic carbonate					
296.2-301.8' - sandy carbonate, 1-2% cubic py.					
301.8-303.0' - ultramafic carbonate, upper contact sharp, lower contact gradational into a sandy carbonate.					
303.0-315.7' - brownish-grey fine					

	grained sandy carbonate, 1% cubic py, 4% mud shards, becoming very fine grained at 311.0'.					
	315.7-327.7' - ultramafic carbonate, 2-3% cubic pyrite from 324.4-326.0'	1056	324.4-327.7ft. (96.25-99.91m)	Nil	Nil	3.3ft. (1.01m)
	327.7-330.0' - grey sandy carbonate, grading into ultramafic carbonate at 328.6' to 330.0'.	1057	327.7-330.0ft. (99.91-100.61m)	Nil	Nil	2.3ft. (0.70m)
	330.0-335.0' - greenish brown fine grained sandy carbonate, 2-3% fine cubic py throughout, ultramafic carbonate from 332.7-333.2'.	1058	330.0-335.0ft. (100.61-102.13m)	Nil	Nil	5.0ft. (1.52m)
	335.0-340.0' - ultramafic carbonate, trace - 1% py, becoming sandy with 4% py at 341.0'.	1059	335.0-340.0ft. (102.13-103.66m)	Nil	Nil	5.0ft. (1.52m)
	341.0-343.0' - ultramafic carbonate					
	343.0-354.0' - sandy carbonate, greenish-brown in color, becoming more ultramafic at 352.0'.					
Fault	354.0-355.0' - fault, as denoted by mud and gouge material.					
	355.0-368.8' - ultramafic conglomerate, pebble size fragments.					
	368.8-371.0' - sandy carbonate or sandstone (arkosic)					
	371.0-391.6' - ultramafic carbonate ?, may be conglomeratic.					
	391.6-412.5' - fine grained hematized moderately to highly fractured unit, may be a tuffaceous volcanic, alteration similar to upper portion of hole. Sporadic weak magnetism and carbonatization.					
	1-2% py	1060	391.6-396.0ft. (119.39-120.73m)	Nil	Nil	

		1061	396.0-401.0ft. (120.73-122.26m)	Nil	Nil
		1062	401.0-406.0ft. (122.26-123.78m)	Nil	Nil
	silicified from 407.5-408.6'	1063	406.0-408.6ft. (123.78-124.57m)	0.02	Trace
	sandy carbonate from 408.6-410.5'	1064	408.6-412.5ft. (124.57-125.76m)	0.01	Trace
	412.5-415.7' - sandy carbonate				
	415.7-426.0' - ultramafic carbonate, becoming brecciated at 426.0'.				
	426.0-427.0' - brecciated carbonate, broken core, fragments are angular, up to 1cm in size, does not appear to be a fault - induced breccia.				
	427.0-437.0' - fine grained moderately fractured hematized unit, locally brecciated, may be sediments. Non-magnetic with sporadic weak carbonatization.				
	trace - 1% py	1065	427.0-431.0ft. (130.18-131.40m)	0.01	Trace
		1066	431.0-437.0ft. (131.40-133.23m)	Nil	Nil
	437.0-438.2 - ultramafic sandy carbonate 1-2% rounded qtz. grains.				
	438.2-451.5' - dark green tuffaceous carbonate, sandy carbonate from 441.0-442.2'.				
	451.5-456.0' - brownish-red sandy carbonate to sandstone (arkosic) 40% mud shards, 3-4% rounded K-spar grains.				
	456.0-464.0' - dark green tuffaceous material, moderately fractured, fine grained with occasional muddy carbonate zones.				
464.0-475.0ft. (141.46-144.82m)	Mafic Volcanics Dark green fine grained basalt, poorly developed pillow selvages at 474.0'.				
475.0ft. (144.82m)	END OF HOLE				

Hole: ME-85-7

Location: P18227, 11+00N, 1+75W

Azimuth: 090 degrees

Dip: -45 degrees

Depth: 414.0' (126.21m)

Target: Fill in hole between ME-85-2 and ME-85-3.

Pioneer drill hole D.D.H.-9 intersected gold values of 0.13 oz/ton Au over 10.0' in the general location of L11+00N, 1+25W. The purpose of ME-85-7 was two fold, the first as a fill in between ME-85-2 and 3, and to test the gold bearing zone found in Pioneer drill hole #9.

The hole consists for the most part of mafic volcanics to 273.6', followed by interlayered volcanics and arkosic sandy units to 355.0' with a silicified/brecciated unit from 340.0 to 355.0'.

The upper contact of the mineralized unit appears to be denoted by a fault, and sulfide mineralization and silicification appears to be fault induced.

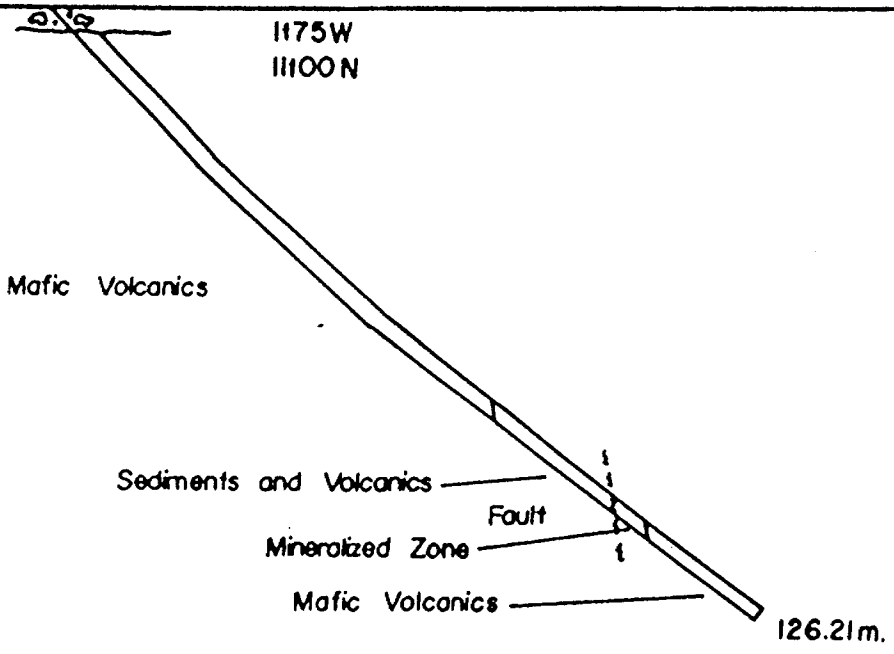
The mineralized zone contains anomalous gold values throughout, the best being 0.05 oz/ton Au over 5.0' from 350.0-355.0'. The entire mineralized section ran 0.038 oz/ton Au over 9.1' (345.9-355.0')

Summary and Conclusions of ME-5-7

Though anomalous gold values were encountered, the grade was not that of Pioneer D.D.H. P-9, assuming that the

mineralizatin of P-9 was encountered in ME-85-7. The collar location for p-9 was not found on surface, thus its location is only approximate. Should further drilling commence on the property, a hole drilled 090 degrees should be made, using the projected suface location of the end of ME-85-7 as a collar site.

ME 85-7 -45° SURFACE 090°



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-7

SECTION LOOKING 360°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-7	
Location:	EBY TOWNSHIP	Date Started:	NOV. 30/85	Page No.	one	
Level:		Date Finished:	DEC. 3/85	Core Size:	BQ	
Bearing:	090 DEGREES	Logged:	S. Carmichael	Test-Acid:	YES	Tropari: Strike / Dip
Inclination:	-45 DEGREES	Core Saved?	YES	Discarded:	YES	
		Casing: Left	Pulled:	At:	30.0ft.	44 DEG.
Total Depth:	414.0ft.	Elevation:		At:	200.0ft.	42 DEG.
Coords Collar - Lat:	11+00N	Dep:	1+75W	At:	414.0ft.	36 DEG.
Drilled by:	HEATH & SHERWOOD	Date Logged:	DEC. 4 - DEC. 6			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-19.0ft. (0-5.79m)	Casing					
19.0-273.6ft. (5.79-83.41m)	Mafic Volcanics Dark green fine grained moderately fractured basalt, locally pillowed and flow brecciated with narrow interflow sedimentary units including chert, tuffs and sandy units. Fractures in the volcanics are filled with qtz. and qtz/carb. stringers. Volcanics are weakly to moderately carbonatized from 32.0-55.2', 97.0-102.2', 140.0-176.0', 182.3-256.0'. Volcanics are non magnetic with the flows containing rare amygdules. Pillow selvages contain spherulites or variolites less than 1mm in size. 21.0-26.0' - flow top breccia. 27.6' - pillow selvage 35.0' - pillow selvage 39.0' - pillow selvage 45.7-46.3' - flow top breccia - becoming increasingly fractured from 56.0'. 67.2-68.0' - possible chert horizon or recrystallized qtz vein.					

76.6-78.5' - brecciated volcanics, qtz vein from 76.8-77.6', trace py, 2% sericite.	1067	76.6-78.5ft. (23.35-23.93m)	Nil	Nil	1.9ft. (0.57m)
78.5-82.4' - fractured volcanics, rusty stain from 78.5-80.0', may be ankeritic, trace, - 1% py.	1068	78.5-82.4ft. (23.93-25.12m)	Nil	Nil	3.9ft. (1.18m)
82.4-84.0' - blocky broken core, qtz veining thoughout with sericite and 20% massive py, appears to be a late qtz vein.	1069	82.4-84.0ft. (25.12-25.60m)	0.050	Trace	1.6ft. (0.48m)
84.0-86.0' - as above, less py, ground core from 85.5-86.0'.	1070	84.0-86.0ft. (25.60-26.21m)	0.080	Trace	2.0ft. (0.60m)
98.0' - pillow selvage.					
102.08-103.7' - possible interflow chert horizon.					
109.5-109.7' - qtz vein, 1% py dip 47 degrees to core axis.					
115.0-116.4' - pillowed and flow top breccia section.					
116.4-117.2 - possible interflow unit, 10% py, followed by fine grained volcanics.	1071	116.4-118.8ft. (35.48-35.73m)	0.200	0.006	2.4ft. (0.73m)
124.5' - pillow selvage					
131.0-132.6' - flow top breccia.					
132.6-136.1' - sandy carbonate from 132.6-134.5, then silicified with 4-5% py from 134.5-136.4', then fine grained and hematized.	1072	132.6-134.5ft. (40.42-41.00m)	0.330	0.011	1.9ft. (0.57m)
150.0' - tuffaceous (?) volcanics with a weak lamination at 43 degrees to core axis.					
172.4' - pillow selvage.					
177.0' - pillow selvage.					
211.8-212.1 - qtz vein, trace py, 2% spec. hematite, dip 44 degrees to core axis.					

	214.0-214.9' - pillow selvage. 214.9-215.1' - reddish-purple hematized section. 221.6-222.0' - brecciated syenitic unit, may be an intrusive or sediment, mud seam at 222.0', may ba a fault. 222.0-256.0' - volcanics becoming moderately to highly fractured. 256.0-273.0' - brecciated volcanics with remnant pillow selvages, fragments angular, up to 1cm in size, fine grained fragments, may be a tectonic breccia. 273.0-273.6' - polymictic breccia, similar to above unit, but with qtz, feldspar and volcanic fragments.					
273.6-355.0ft. (83.41-108.23m)	Sediments Sediments ranging form dark green chloritized tuff to brownish-yellow sandy units (arkosic) ? Moderately fractured throughout. Local narrow volcanic units occur throughout. 274.6-278.5' - fine grained yellowish-brown sandy unit, may be an arkosic sandstone grading into a darker colored sandy unit at 376.3'. 278.5-281.6' - moderately fractured pillowed volcanics. 281.6-283.6' - fine to medium grained brownish yellow sandy unit, 3-4% K-spar pebbles. 283.6-284.0' - pillowed basalt. 284.0-286.0' - brownish-yellow sandy unit. 286.0-298.8' - dark green moderately fractured unit, may be a fine chloritized tuff. 298.8-302.0' - silicified and albitized unit, 2-3% py.	1073	298.8-302.0ft. (91.09-92.07m)	0.320	0.007	3.2ft. (0.97m)

	302.0-307.0' - as above with less alteration, 1% py.	1074	302.0-307.0ft. (92.07-93.59m)	Nil	Nil	5.0ft. (1.52m)
	307.0-312.8' - moderately fractured, dark green tuffaceous material.	1075	307.0-312.8ft. (93.59-95.36m)	Nil	Nil	5.8ft. (1.76m)
	312.8-316.0' - as above, silicified from 313.0-314.0' with 10% py.	1076	312.8-316.0ft. (95.36-96.34m)	0.270	0.009	3.2ft. (0.97m)
	316.0-335.0' - moderately to highly fractured, albitzed tuff and pillowed volcanics, may be a flow top breccia from 319.0-330.0'.					
	335.0-340.0' - less fractured dark green tuffaceous unit.					
340.0-355.0ft. (103.65-108.23m)	Mineralized Section Moderately to highly brecciated section, yellow in coloration due to sericite/carbonate alteration. Pyrite content is variable, depending upon the degree of brecciation and silicification. Larger pyrite grains show cataclastic texture. Contains 5-10% qtz stringers in brecciated sections. Mud seam at 339.8' - may indicate a fault.					
	340.0-342.0' - moderately brecciated to 341.0', fractured to 342.0', 1-2% py throughout.	1077	340.0-342.0ft. (103.65-104.26m)	0.08	Trace	2.0ft. (0.60m)
	342.0-344.0' - broken core to 343.0', 1-2% py.	1078	342.0-344.0ft. (104.26-104.87m)	0.340	0.011	2.0ft. (0.60m)
	344.0-345.9' - becoming increasingly brecciated, silicified and sericitized.	1079	344.0-345.9ft. (104.87-105.45m)	0.310	0.010	1.9ft. (0.57m)
	345.9-348.0' - brecciated and silicified unit, 5% qtz stringers, 5% py.	1080	345.9-348.0ft. (105.45-106.09m)	0.960	0.031	2.1ft. (0.64m)
	348.0-350.0' - less silicified and brecciated section, 1% py.	1081	348.0-350.0ft. (106.09-106.70m)	0.430	0.014	2.0ft. (0.64m)
	350.0-352.0' - highly brecciated and silicified unit, 10% py.	1082	350.0-352.0ft. (106.70-107.31m)	1.550	0.050	2.0ft. (0.64m)
	352.0-355.0' - as above	1083	352.0-355.0ft. (107.31-108.23m)	1.595	0.050	3.0ft. (0.91m)
355.0-414.0ft. (108.23-126.21m)	Mafic Volcanics Moderately fractured tuffaceous					

	volcanics, dark green in color, carbonatized from 376.0-400.0'.					
	355.0-360.0' - moderately fractured and albitized section, trace - 1% py.	1084	355.0-360.0ft. (108.23-109.75m)	Nil	Nil	5.0ft. (1.52m)
414.0ft. (126.21m)	END OF HOLE					
	AVERAGES:					
	350.0-355.0ft. 5.0ft. of 0.05oz/ton					
	345.9-355.0ft. 9.1ft. of 0.038oz/ton					

Hole: ME-85-8

Location: P17403, 5+50N, 2+50W

Azimuth: 360 degrees

Dip: -45 degrees

Depth: 248.0' (75.60m)

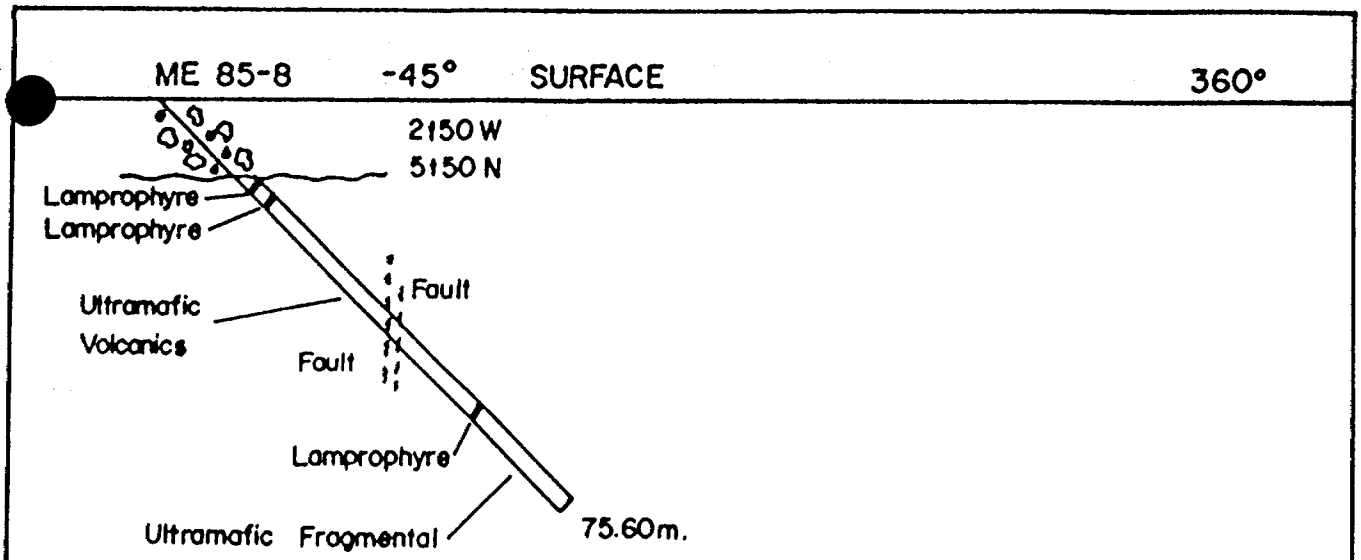
Target: Medium to high I.P. anomaly on line 2+50W, 5+75 to 6+00N.

Though intended to test a moderate to high I.P. anomaly with low resistivity, the only indication of an I.P. anomaly was a quartz vein from 195.0 to 195.6' associated with a zone of talc - chlorite schist. The zone of shist may have resulted in the low resistivity of the anomaly.

The entire core consisted of ultramafic volcanics ranging from spinafex - textured komatiitic flows to komatiitic fragmentals which may be conglomeratic. Three narrow lamprophyre dikes were noted in the core.

Summary and Conclusions of ME-85-8

It would appear as though the cause of the I.P. anomaly are two zones of talc-chlorite schist which probably represent faults. Sulfide mineralization was generally absent from the core, the exception being a narrow quartz vein from 195.0-195.6' which carried 4-5% pyrite.



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-8

SECTION LOOKING 270°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-8	
Location:	EBY TOWNSHIP	Date Started:	DEC. 4/85	Page No.	ONE	
Level:	SURFACE	Date Finished:	DEC. 6/85	Core Size:	BQ	
Bearing:	TRUE NORTH	Logged:	S. Carmichael	Test-Acid:	YES	Tropari:
Inclination:	-45 DEGREES	Core Saved?	YES	Discarded:		Strike Dip
		Casing: Left	Pulled:	YES		
Total Depth:	248.0ft.	Elevation:		At:	248.0ft.	44 DEG.
				At:		
Coords Collar - Lat:	5+50N	Dep:	2+50W	At:		
Drilled by:	HEATH & SHERWOOD	Date Logged:	DEC. 9/85			

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-48.0ft. (0-14.63m)	Casing					
48.0-248.0ft. (14.63-75.60m)	Ultramafic Volcanics Dark green to black fine to medium grained komatiitic basalt and breccias (conglomerates?) Occasional spinafex textures and possible laminated ultramafic sediments. Volcanics are massive moderately fractured with qtz stringers. 57.5-58.0' - fine grained lamprophyre dike, magnetic, 2% py or pyrrhotite. 59.4-63.6' - fine grained magnetic lamprophyre. 65.7-67.7' - fine grained magnetic lamprophyre. 67.7-67.9' - bull white qtz vein, dip 30% to core axis. 71.0-110.8' - fragmental komatiite, rounded to sub-rounded clasts, 1-2cm in size. 110.8-116.0 - spinafex textured komatiite, well developed crystals to 113.0'. 120.6-128.4' - spinafex textured komatiite.					

	128.4-151.0' - ultramafic fragmental material, shows a distinct lamination at 40 degrees to core axis, laminations may be spinafex.					
Fault	144.3' - narrow seam of talc schist.					
Fault	152.5-153.0' - broken talcy core.					
	164.8-167.5' - spinafex textured komatiite.					
	167.5-195.0' - ultramafic fragmental, rounded to sub-rounded clasts generally 1-2cm in size.					
	195.0-195.6' - talc-chlorite schist, foliation at 48 degrees to core axis with a qtz vein, 4-5% py in vein.	1085	195.0-197.0ft. (59.45-60.06m)	N:1		2.0ft. (0.60m)
	196.0-207.7' - ultramafic fragmental.					
	207.7-209.0' - medium grained lamprophyre dike, 10-15% biotite, purple green in coloration.					
	209.0-248.0' - fragmental komatiite, fragments appear to be larger than previous sections, may be a conglomerate.					
248.0ft. (75.60m)	END OF HOLE					

Hole: ME-85-9

Location: P17403, 6+60N, 2+50W

Azimuth: 360 degrees

Dip: -45 degrees

Depth: 304.0' (92.68m)

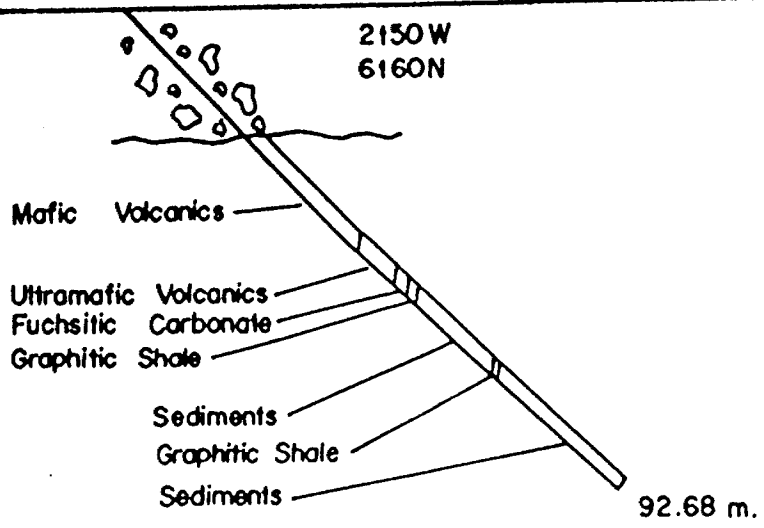
Target: I.P. anomaly, L 2+50W, 6+75 - 7+25N

The last hole of the program ME-85-9 was designed to test the bedrock in the swamp north of Boland Road, and to test the possible location of the South-Bay Fault. Though no indication of a fault was found in the core, the hole was a success in that a new sedimentary horizon was found. The sediments range from ultramafic carbonates to fuchsitic fragmentals, graphitic shales and massive fine grained sandy carbonates. The fuchsitic unit, though similar in color to the zone in ME-85-3, differs in that there appears to be more clasts cemented with fuchsitic carbonate. The massive grey sediment (carbonate) from 184.2' to 304.0' appears similar to a fine grained Mg-tholeiite, however no volcanic textures such as pillow selvages, flow top breccias or spherulites were noted. The occurance of graphitic shale within this unit would also indicate that the rock is probably a sediment.

Summary and Conclusions of ME-85-9

Gold mineralization was found in this hole. The hole may be considered encouraging in that an extensive sedimentary horizon was found. It may be noted however that there is not enough information to correlate the sediments found to the north in drill hole ME-85-1,2 and 3 with those found in ME-85-9.

ME 85-9 -45° SURFACE 360°



MARY ELLEN RESOURCES

EBY TOWNSHIP PROJECT M-002

DIAMOND DRILL SECTION ME 85-9

SECTION LOOKING 270°

Scale 1cm=10meters Dec. 1985

DIAMOND DRILL RECORD

Company:	MARY ELLEN RESOURCES			Hole No.	ME-85-9		
Location:	EBY TOWNSHIP	Date Started:	DEC. 6/85	Page No.	ONE		
Level:	SURFACE	Date Finished:	DEC. 7/85	Core Size:	BQ		
Bearing:	TRUE NORTH	Logged:	S. Carmichael	Test-Acid:	YES	Tropari:	
Inclination:	-45 DEGREES	Core Saved?	YES	Discarded:		Strike	Dip
		Casing: Left	Pulled:	YES			
Total Depth:	304.0ft.	Elevation:		At:	90.0FT.		44 DEG.
				At:	304.0FT.		42 DEG.
Coords Collar - Lat:	6+60N	Dep:	2+50W	At:			
Drilled by:	HEATH & SHERWOOD	Date Logged:	DEC. 8,9,10 , 1985				

FOOTAGE From - To	GEOLOGICAL & PHYSICAL DESCRIPTION	SAMPLE NUMBER	FROM - TO	AU GRAMS/TON	AU OZ/TON	LENGTH
0-81.0ft. (0-24.69m)	Casing					
81.0-147.7ft. (24.69-45.03m)	Mafic Volcanics Medium to dark green fine grained basalt, locally spherulitic and amygdaloidal. Pillow selvages are absent, though fragmental and tuffaceous units are present. Volcanics are weakly carbonatized throughout. 83.0-83.9' - laminated tuffaceous unit, laminations at 55 degrees to core axis. 107.0' - 2cm zone of chloritized schist, may be a shear zone. 110.6-111.8' - fine grained fragmental, spherulitic from 111.4-111.9'. 113.0-116.0' - spherulitic and amygdaloidal flow (2% amygdules) 116.0-123.2' - dark green to black fine grained unit, 2-5% biotite, may be lamprophyric, trace - 1% py throughout. 124.8-126.0' - spherulitic basalt 128.3-128.5' - spherulitic basalt 132.5-133.5' - medium grained dark	1086	119.0-123.2ft. (35.36-37.56m)	N.V.		

	green to black unit, similar to that at 116.0'.				
	136.0-137.5' - tuffaceous unit, laminations at 42 degrees to core axis.				
	140.7-142.7' - spherulitic basalt				
147.7-171.7ft. (45.03-52.34m)	Ultramafic Volcanics Similar in coloration to above volcanics, however spinafex textured throughout. Rock is fine grained and weakly carbonatized.				
	162.0-171.7' - fragmental zone of the ultramafics, may be conglomeratic.				
171.7-304.0ft. (52.34-92.68m)	Sediments ranging from fuchsitic fragmental carbonates to graphitic shales and massive to moderately fractured grey muddy carbonates interlayered with minor graphitic zones.				
	171.7-178.1' - laminated ultramafic sediment, laminations at 40 degrees to core axis, 1-2% clasts up to 1cm in size. Bull qtz vein from 174.4-175.0'.	1087	171.7-175.0ft. (52.34-53.35m)	Trace	3.3ft. (1.0m)
	175.0-178.1 - more fragmental looking with stretched clasts, trace py throughout.	1088	175.0-178.1ft. (53.35-54.29m)	Nil	3.1ft. (0.94m)
	178.1-182.2' - laminated green fuchsitic carbonate with clasts up to 1cm in size, 10-15% qtz. stringers both parallel and cross-cutting laminations. Laminations at 50 degrees to core axis.	1089	178.1-182.2ft. (54.29-55.54m)	Nil	4.1ft. (1.25m)
	182.2-184.2' - above green carbonate grading into a graphitic shale with 50% qtz. stringers form 182.8-183.4', contains 10% massive py (marcasite).	1090	182.2-184.2ft. (55.54-56.15m)	Trace	2.0ft. (0.60m)
	184.2-189.0' - buff grey fine grained sediment, graphitic breccia form 188.0-189.0', 1-2% py throughout.	1091	184.2-189.0ft. (56.15-57.62m)	Trace	4.8ft. (1.46m)
	189.0-194.0' - moderately fractured buff grey sediment.	1092	189.0-194.0ft. (57.62-59.14m)	Trace	5.0ft. (1.52m)

194.0-199.0' - as above, medium grained from 197.3-198.2', may be a coarser sandy unit.	1093	194.0-199.0ft. (59.14-60.67m)	Trip	5.0ft. (1.52m)
199.0-204.0' - as above, graded bedding from 202.0-203.0' indicates fining up hole.	1094	199.0-204.0ft. (60.67-62.19m)	Nil	5.0ft. (1.52m)
204.0-209.0' - fine grained sediment.	1095	204.0-209.0ft. (62.19-63.71m)	Nil	5.0ft. (1.52m)
209.0-212.0' - as above	1096	209.0-212.0ft. (63.71-64.63m)	Nil	3.0ft. (0.91m)
212.0-214.0' - as above, though moderately silicified and fragmented with 3-4% py.	1097	212.0-214.0ft. (64.63-65.24m)	Nil	2.0ft. (0.60m)
214.0-219.0' - massive grey sediment, trace - 1% py.	1098	214.0-219.0ft. (65.24-66.76m)	Nil	5.0ft. (1.52m)
219.0-224.0' - as above	1099	219.0-224.0ft. (66.76-68.29m)	Nil	5.0ft. (1.52m)
224.0-229.0' - as above	1100	224.0-229.0ft. (68.29-69.81m)	Nil	5.0ft. (1.52m)
229.0-234.0' - as above	1101	229.0-234.0ft. (69.81-71.34m)	Nil	5.0ft. (1.52m)
234.0-239.0' - as above, graphitic shale from 238.0-238.4'.	1102	234.0-239.0ft. (71.34-72.86m)	Nil	5.0ft. (1.52m)
239.0-243.8' - as above	1103	239.0-243.8ft. (72.86-74.32m)	Nil	4.8ft. (1.46m)
243.8-249.0' - as above, silicified from 243.8-245.0' wtih 5% py.	1104	243.8-249.0ft. (74.32-75.91m)	Nil	5.2ft. (1.58m)
249.0-254.0' - massive buff grey fine grained sediment.	1105	249.0-254.0ft. (75.91-77.43m)	Nil	5.0ft. (1.52m)
254.0-259.0' - as above	1106	254.0-259.0ft. (77.43-78.96m)	Nil	5.0ft. (1.52m)
259.0-264.0' - as above	1107	259.0-264.0ft. (78.96-80.48m)	Nil	5.0ft. (1.52m)
264.0-269.0' - as above	1108	264.0-269.0ft. (80.48-82.01m)	Nil	5.0ft. (1.52m)
269.0-274.0' - as above	1109	269.0-274.0ft.	Nil	5.0ft.

	silicified from 271.0-274.0ft.		(82.01-83.53m)		(1.52m)
	274.0-279.0' - grey sediment	1110	274.0-279.0ft. (83.53-85.06m)	Nil	5.0ft. (1.52m)
	279.0-283.3' - grey sediment	1111	279.0-283.3ft. (85.06-86.37m)	Nil	4.3ft. (1.31m)
	283.3-288.0' - graphitic shale from 283.3-284.0, 3-4% py.	1112	283.3-288.0ft. (86.37-87.80m)	Trace	4.7ft. (1.43m)
	288.0-293.0' - medium grained weakly porphyritic to 291.0', becoming medium grained with mud shards to 294.0'.	1113	288.0-293.0ft. (87.80-89.32m)	Nil	5.0ft. (1.52m)
	293.0-298.0' - fine grained massive grey sediment.	1114	293.0-298.0ft. (89.32-90.85m)	Nil	5.0ft. (1.52m)
	298.0-304.0' - grey sediment	1115	298.0-304.0ft. (90.85-92.68m)	Nil	6.0ft. (1.82m)
304.0ft. (92.68m)	END OF HOLE				

Summary and Recommendations

A diamond drilling program consisting of nine holes totalling 4,008.0' (1,221.95m) was completed by Mary Ellen Resources on its Eby Township property, Kirkland Lake area of Ontario. Drill targets for the program were I.P. anomalies with the exception of No. ME-85-5 which was designed to test a humus geochemical anomaly. All holes intersected variably mineralized sediments with the exception of holes ME-85-5 and ME-85-8 which cored volcanics throughout.

The best assay of the program was 0.10 oz/ton Au over 2.0' in ME-85-3 (brecciated and silicified unit) and 0.095 oz/ton Au over 3.4' in ME-85-2 (pyritic sediment). The best average intersections are 0.05 oz/ton Au over 6.7' in ME-85-3 and 0.05 oz/ton Au over 6.9' in ME-85-2, 0.029 oz/ton Au over 11.0' in ME-85-1, 0.03 oz/ton over 10.4' in ME-85-2 and 0.02 oz/ton Au over 19.8' in ME-85-1. It should also be mentioned that ME-85-1 gave an intersection of 0.01 oz/ton Au over 85.6' in the silicified buff carbonate, which represents a significant amount of gold.

The drilled I.P. targets were for the most part resistivity anomalies coupled with an anomalous increase in chargeability.

The resistivity anomalies closely approximated zones of silicification found in the lower sections of drill holes ME-85-1

and 2.

The chargeability factor of all anomalies was moderate and represented by sulfides not greater than 4-5%. Zones which contained locally higher sulfides appear to have been too narrow to be defined by the I.P. survey.

Although the assays returned were of sub-economical grade, the drilling program may be considered a success in that an extensive horizon of sediments containing anomalous gold values were found.

Drilling indicates that the sediments trend roughly north south, dip steeply to the east, and tops appear to also be to the east. The sediments either pinch out or strike in a more south-easterly direction south of drill hole ME-85-1. The zone of silicified buff carbonate found in drill holes ME-85-1 and 2 appears to strike roughly north south from ME-85-1 but does not appear to continue beyond 12+00N. The zone may however lie east of the collar site of ME-85-4.

Reccomendations for further work on the north half of the property (P17403 and P18227) include the optioning of the claim immediately to the east (P41264), completing geophysics on the claim and possible diamond drilling.

Reccomended drill holes include one at 11+00N, 0+80W, -45 degrees, azimuth 090 degrees to check the north extension of the silicified carbonate zone found in ME-85-1 and 2, one hole at 13+00N, 0+25W, -45 degrees, azimuth 360 degrees to test the I.P. anomaly associated with the postulated location of the Kirkland-Larder

Lake Break. It would appear as though the silicified carbonate body found in ME-85-1 and 2 straddles the P17403 - P41264 claim boundary. Should claim P41264 be optioned, the true width of this zone should be assertained with one drill hole, perhaps from 9+50N, 1+25W, -45 degrees, azimuth 090 degrees.
Additional drilling to the west along strike from ME-85-9 may be warranted due to I.P. anomalies along lines 3+00W and 3+50W.

On the south half of the property covered by the I.P. survey, numerous moderate I.P. anomalies were defined. Many of these appear as thought they may be stripped and additional work on this section of the property is reccomended, either by stripping or diamond drilling.

Respectfully submitted S.J. Carmichael

Date... Jan. 25/1986 S.J. Carmichael B.Sc.

DRILL HOLE LOCATION PLAN

REPORT
ON

INDUCED POLARIZATION SURVEY
ON THE EBY GROUP
OF
MARY ELLEN RESOURCES LTD

by

R S MIDDLETON
EXPLORATION SERVICES INC.
Roger J Cavén, P Eng.
Consulting Geophysicist

1. INTRODUCTION

During the time period August - October, 1985, an induced polarization survey was carried out for Mary Ellen Resources Ltd by R S Middleton Exploration Services Inc, Timmins, Ontario, in Eby Township, Ontario.

2. THE PROPERTY

The property surveyed in whole or part by the induced polarization method consists of 14 patented claims:

L 9832, 9846, 9848
L 12174, 12175
L 16740
L 17402, 17403, 17404, 17715
L 18227, 18356, 18837, and
L 19129.

situated in north-west Eby Township, District of Timiskaming, Larder Lake Mining Division, Ontario, approximately 16 km west of Kirkland Lake (NTS 42 A/SE). Access is via Highway 66, which runs through the easterly part of the property, and from there by gravel and logging roads.

3. PREVIOUS WORK

Earlier work consisting of prospecting, trenching with attendant sampling, and some drilling has shown that the property is favourable for gold mineralization. More recently geological mapping, magnetic, and electromagnetic surveys have been carried out over these and adjacent claims. This work has been reported on by Mr S J Carmichael.

4. THE INDUCED POLARIZATION SURVEY

The induced polarization survey used the time domain IP method, with a pole-dipole electrode array. A total of six potential dipoles (n=1,2,3,4,5, and 6) each 25 m long (= a-spacing) were read, for current pole to potential dipole separations of 25, 50, 75, 100, 125, and 150 metres. The equipment utilized on the property is shown on the pseudo sections, and consisted of transmitter - motorgenerator units with nominal output powers up to 3 kW, transmitting trains of square waves with 8 second cycles of 2 seconds on and 2 seconds off, on-time pulses alternating in polarity. Compatible receivers recorded the resulting primary and secondary voltages generated at the potential dipoles.

The pole - dipole electrode array was used to obtain better depth penetration than a comparable dipole - dipole array, as well as to minimize electrode effects associated with current electrodes. One current electrode was placed in a location sufficiently far from the survey work so that its effect on the readings would be negligible relative to the moving current pole on the line. Local electrode effects at the stationary electrode would also remain constant.

The 25 m potential dipole length provides a positional and size resolution of 25 - 35 m dependent upon depth of target and local geology, since the induced polarization method is a bulk measuring technique which includes effects from inhomogeneities between the current electrode and the potential electrodes used for the particular measurement.

5. INTERPRETATION

The interpretation of the IP results has taken into account the relationship of the anomalous responses to the background values as well as the resistivities, and electrode effects. The latter, or lack of such effects, have been used to attempt to sharpen the resolution when the anomalies are near surface, in order to qualitatively estimate width.
The results of the interpretation have been shown graphically on a grid map covering the relevant claims.
The following is a listing of the interpreted anomalous responses:

L13+64N/585W-520W	A weak to medium strength chargeability response with a better defined steeply dipping feature at 550W - 525W. The resistivity pattern is, however, inconsistent at the latter location, but rather favours the interpretation of a possible vein at 585W - 570W. Not a high priority anomaly unless support exists from other data.
L13+64N/ 450W-425W	Weak to medium localized response at depth on the flank of a resistivity high
L13+64N/365W-335W	Weak response at depth without support from resistivity values.
L13+64N/185W-165W	Medium to strong response at depth without support from resistivity values but may be part of the strongly anomalous feature at depth immediately to the east.
L13+64N/100W-50E	A very strong anomaly at the easternmost extent of the surveyed line, and stronger at depth. The near surface and shallow depth expression is weak up to about 25W, but increasing in strength with depth. The source of the chargeability anomaly appears to widen with depth, although much of the strongest response may be due to the effect of the current electrode location on top of mineralization as well as the inductive effects of powerline and telephone cables along the road. The possible merging of this anomaly with the previous one at the very deepest penetration (n=6) of this survey cannot be determined with certainty due to loss of resolution. The interpretation map shows this possible relationship as a dotted medium anomaly The resistivity values show a decrease to the east with the increase in chargeabilities, reflecting a possible increase in sulphides.
L12N/ ? - 680W	A weak to medium chargeability anomaly with high resistivity, and open to the west. The part of the anomaly which is measured has the appearance of a steeply dipping quartz vein.
L12N/580W-560W	A weak single point anomaly, with slightly reduced resistivity. At depth.
L12N/525W-470W	A weak, steeply dipping anomalous feature, without clear resistivity correlation. A widening occurs at depth to the east. The anomaly strength increases somewhat with depth giving the appearance of a deeper anomaly only, but an examination of the electrode effects suggests the steeply dipping feature strengthening with depth as well as widening. By itself the anomaly does not appear significant, but gains when considered as a possible extension of one of the faults transverse to the South Bay Fault and exposed on the north side of Kenogami Lake.
L12N/290W-280W	Another weak steeply dipping anomaly, but associated with increased resistivity, and interpreted as a possible vein.
L12N/165W-0	A complex set of near surface and deep anomalies, similar to the anomaly at the east end of L13+64N, but with lower amplitude. The responses are interpreted to be part of the same anomalus feature striking NNE and extending south of L9N.

L11N/725W-510W A weak anomaly zone, mainly at depth, associated with high resistivities. As part of this anomaly there are two steeply dipping more prominent members. One is at 700W-675W, has a high resistivity correlation and comes close to surface. This is a possible quartz vein and is weak to medium in chargeability response. The other is located at about 550W-505W, also comes close to surface, but has no distinctive resistivity association, and is also weaker.

L11N/350W-325W In this area there is a resistivity high which may indicate a fault.

L11N/90W-70W A weak to medium chargeability anomaly with increased resistivity, located at depth. This anomaly is interpreted to be part of the anomaly feature found at the easterly ends of the previous lines.
An increase in chargeability at the end of the line indicates the beginning of another anomaly trending NNE and off the property from L9N.

L9N/ ? -575W A weak to medium strength IP anomaly at depth, correlating with high resistivities. It is possibly related to the NNE trending fault normal to the South Bay Fault shown on the geology map to cross L9N at about 625W.

L9N/530W-495W A very weak IP anomaly, but with higher resistivities which indicate correlation with one of the NNE faults.

L9N/450W-425W Steeply dipping resistivity anomaly.

L9N/405W-350W A weak chargeability anomaly, mainly near surface. A steeply dipping feature is located at about 375W associated with higher resistivities and interpreted as being a fault.

L9N/220W-170W Medium strength IP anomaly at depth, but related to surface alteration or similar condition which would produce enhanced conductivity connecting to depth. Electrode effects are seen with the current electrode at 200W and 175W.

L9N/120W-0? A medium to strong anomaly which increases in strength to the east and with depth. The anomaly is open to the east, and resembles the anomaly at the east end of L13+64N, although with even lower resistivity. A high sulphide concentration is likely. This anomaly is seen as feature similar to and parallel to the one to the north and west, seen earlier.

L10W/100N-320N Moderate to strong IP with high resistivities over a wide area, within which stronger IP anomalies appear:

L10W/125N-175N A very strong chargeability response which is steeply dipping and has lower resistivities than surrounding area. An increase in sulphide content appears likely.

L10W/250N-320N Strong IP response with high resistivity (~6-8x background), silicification coupled with increased sulphide content would explain this anomaly.

L10W/375N-425N Weak to moderate IP response with moderate resistivity (~3xbackground).

L9W/25N-340N A wide area of high IP responses and variable but generally high resistivities. Within this area stronger anomalies can be distinguished:

L9W/50N-100N Strong IP and high resistivity (~5x background). The high resistivities together with high chargeabilities suggest the possibilities of a mineralized quartz vein.

L9W/135N-260N Strong IP response with moderate to high resistivities, higher anomalies at 135N-180N and 210-260N (6-7x backgound).

L9W/135N-180N The high chargeabilities associated with the higher resistivities suggest a wide well mineralized quartz vein.

L9W/210N-260N	This high chargeability anomaly with moderately high resistivities is bounded on the north side by a sharp increase in resistivity, possibly a fault.
L9W/320N-340N	Moderate IP response with high and very complex resistivity pattern.
L8W/25N-300N	A wide area of anomalous chargeabilities, but moderate to low resistivity values:
L8W/25N-75N	Moderate to strong IP with moderate resistivities. The anomaly is open to the south.
L8W/110N-190N	Strong IP response with moderate resistivity.
L8W/265N-300N	Moderate IP increasing in strength with depth, low to moderate resistivity.
L8W/330N-400N+	Strong IP at depth >25m, medium to high resistivity. Anomaly is open to the north.
L7W/130N-175N	Moderate to strong IP near surface with slight resistivity high. The inability to obtain readings with the current electrode at 225N is a sign of the current being channelled away from the line by a fault at that location. It is therefore not possible to determine if the anomaly near surface recorded with the potential dipole at 150N-175N would in fact extend
(L7W/225N-260N)	further north, although the anomaly at depth under 225N-260N may suggest that such could be the case.
L7W/280N-290N & L7W/330N-345N	Weak, steeply dipping IP anomalies with low resistivity.
L6W/180N-225N	A weak IP anomaly with a slight increase in resistivity. Depth estimated at 100m or more. No other anomaly found on this line within length surveyed. The low amplitude anomaly is only noticed because of the unusually low background on this line.
L5W/ ? -50N	A strong IP anomaly with high resistivity and open to the south, but possibly with limited depth extent. Insufficient data exists over the anomaly to determine its characteristics.
L5W/70N-85N	This anomaly appears as a possible vein or contact mineralization on the flank of a resistivity high containing the above anomaly. No other anomaly is found within the length of line surveyed.
L4W/400S-100S	A wide, weakly anomalous IP zone with generally very high resistivities is open to the south. The increase in IP may be due to a combination of the high resistivity and a lithology with higher than usual chargeability, and thus not necessarily related to sulphide mineralization. Within this anomalous zone are three stronger anomalies described below:
L4W/ ? -375S	Medium to strong IP response with high resistivity. The anomaly is open to the south and also the amplitude of the anomaly is increasing to the south.
L4W/285S-230S	A medium strength IP anomaly with high resistivity. Near surface, steeply dipping, possibly a vein, although the resistivity values are erratic, and very high.
L4W/175S-100S	Weak to moderate anomalies at surface and at depth. Very high resistivities.
L4W/50N-80N	Weak chargeability anomaly within a slightly higher background at depth.
L4W/125N-200N	A weak IP response with low resistivity, at intermediate depth.

L3+50W/30N-45N Medium IP response with medium high resistivity, anomaly near surface only.
L3+50W/70N-80N Single point strong IP response at depth >70m.
L3+50W/120-140N Single point medium IP and resistivity anomaly at a depth >70m.
L3+50W/600-650N Medium IP response with low resistivity, at depth >50m.
L3+50W/730-745N Strong IP response in high resistivity on the south flank of an even higher pure resistivity anomaly. Possibly a steeply dipping vein.
L3+50W/860-870N Medium IP response with medium to high resistivity on the north flank of the same resistivity anomaly as the previous IP response. Close to surface.

L3W/80N-140N Low to medium IP response with moderate resistivity at a depth >50m.
L3W/600N-675N Medium IP with low resistivity at a depth >50m.
L3W/710N-750N High IP response with high resistivity (vein?). Very strong response at surface, single reading only.

L2+50W/60-120N Medium IP response with moderately high resistivities.
L2+50W/570-640N Medium to high IP (stronger at depth) with rather low resistivities. A steeply dipping strong chargeability high comes close to surface at 580N-590N though near surface anomaly is only medium.
L2+50W/680-695N Narrow, but strong steeply dipping chargeability high on the flank of a resistivity high.
L2+50W/695-740N High IP responses with moderately high resistivities, and situated by an interpreted fault or shear. Although appearing continuous with previous anomaly, the characteristics indicate the possibility of a parallel and close feature.
L2+50W/850-880N Low to medium IP anomaly with moderate resistivity (no distinct pattern) at a depth of 50m or deeper.

L2W/ ?-350S Weak to medium chargeability anomaly with high resistivity, vein or wider zone open to the south. A wide zone of weak to medium chargeabilities continues to the north to connect with a more anomalous zone at 260S.
L2W/260S-150S Medium IP anomaly with high resistivity at a depth estimated >50m.
L2W/190S-165S Medium IP anomaly with high resistivities, near surface.
L2W/120S-10S A medium strength anomaly at depth, but an apparently steeply dipping feature comes close to surface at 120S-110S, high to moderate resistivities.
L2W/60N-70N Strong IP anomaly with moderately high resistivities, located at the projected major fault.
L2W/380N-395N Weak IP anomaly, near surface at with low to moderate resistivity values.
L2W/710N-740N Medium IP anomaly, with low resistivity.

L1W/0-25N Medium IP anomaly with medium resistivity, single point strong anomaly near surface.
L1W/25N-55N Weaker IP response at depth, likely part of above zone.
L1W/130N-140N Very weak but steeply dipping anomaly with associated high resistivity.
L1W/800N-825N Weak IP anomaly at depth, low resistivity.
L1W/875N-970N Weak to medium IP anomaly with low to moderate resistivities.At about 930N -970N a wide, steeply dipping chargeability anomaly with associated resistivity high forms an appealing target if the geology is favourable. A tentative interpretation places this anomaly as part of one of the NNE trending anomalies.

L1W/1060N-1070N Single point strong IP anomaly at surface. Low resistivity.

L0	No meaningful readings could be taken on this line due to interference from powerline and telephone cable along road. Several attempts were made and then abandoned.
L1E/25N-175N	Low to medium IP response at depth >50m. Anomaly open to the south, with both chargeability and resistivity values increasing to the south.
L1E/725N-	A weak IP/resistivity anomaly at depth open to the north. Anomaly at end of line.

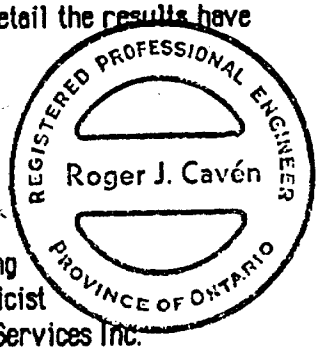
The resistivity pattern in the westernmost part of the surveyed grid indicates a complex geology and structure. Much of the high resistivity in the area can be attributed to faulting and shearing.

6. CONCLUSIONS AND RECOMMENDATIONS

The induced polarization survey on the Eby Township property of Mary Ellen Resources Ltd has produced numerous anomalies for further investigation. The largest number of strong anomalies are concentrated in two groups. The northerly one is on claims L18227, L17403-4, within an area which has been prospected and even drilled previously due to samples found containing gold. It is, however, possible that the most interesting mineralization may have been missed because of oveburden cover. Parts of the anomalies have very high chargeability values coupled with low resistivities, and widen with depth. Sulphides are indicated as the source, and with these the possibilities of gold mineralization may well increase.
The second group of anomalies is located on claims L18356, and L19129, trending into claims L9832 and L16740. It appears that rather less work has been done in this area in the past.

Although the two main anomaly groups should merit most of the immediate investigation, the more isolated and weaker anomalies need to be further explored, in particular since economic mineralization is not necessarily dependent upon total sulphide content, and gold by itself seldom would provide distinguishable responses. Geological mapping and geochemistry often can be used to supplement the information provided by the geophysical survey to guide the drilling.

The interpreted anomalies have been plotted on a plan map showing the grid, the claims, roads and topographic features, and faults obtained from geological mapping. The anomalies have been classified in three categories: Strong, Medium, and Weak, since the absolute values of the chargeability as well as the resistivity are related not only to a specific source, but also dependent upon the geological environment and the relationship between the source and the electrode locations. The enclosed pseudosections give the details for each line. In order to show the fine detail the results have been contoured closely using linear interpolation.

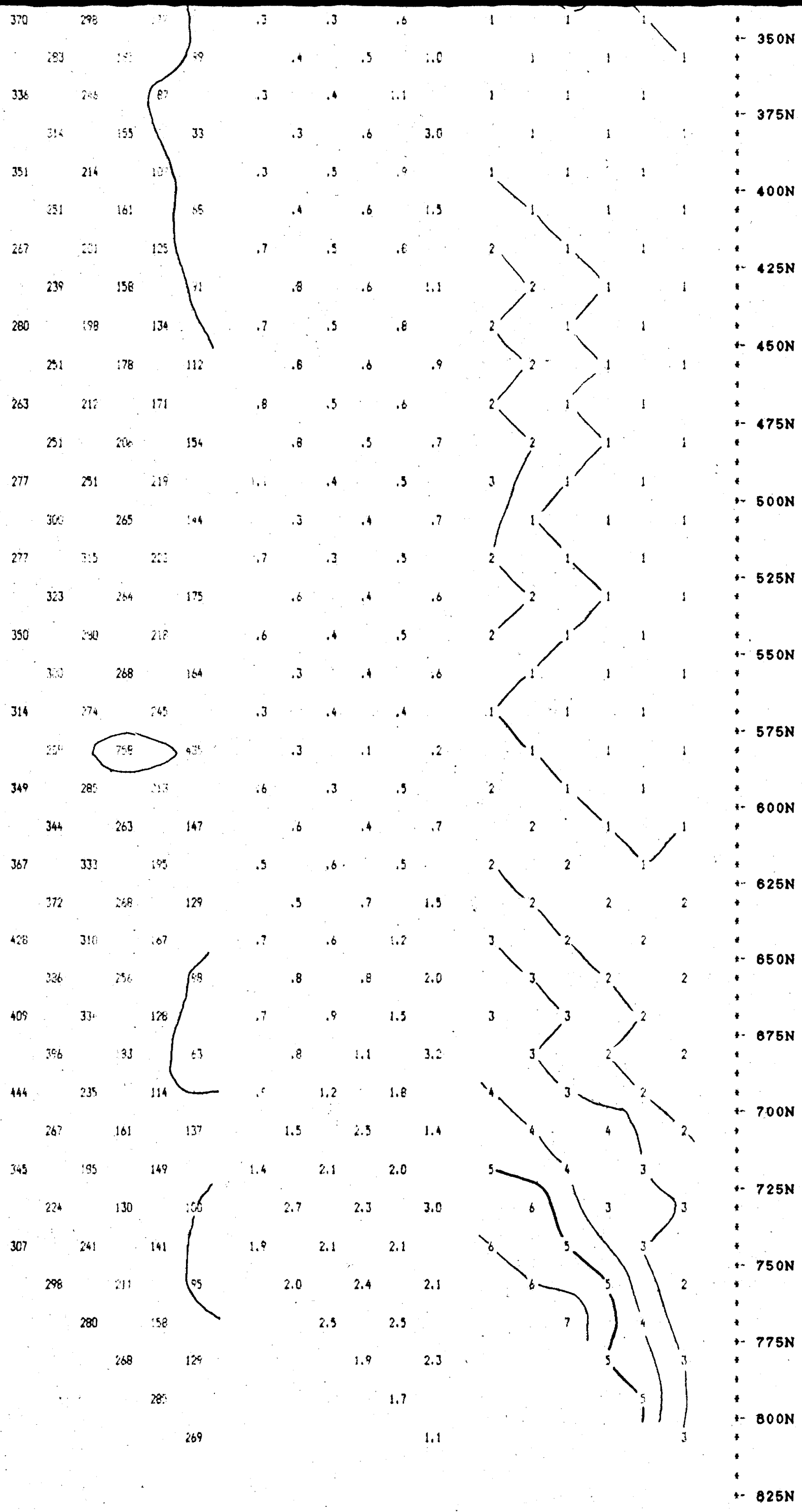


December 23, 1985.

Roger J Cavén, P Eng
Consulting Geophysicist
for R S Middleton Exploration Services Inc.

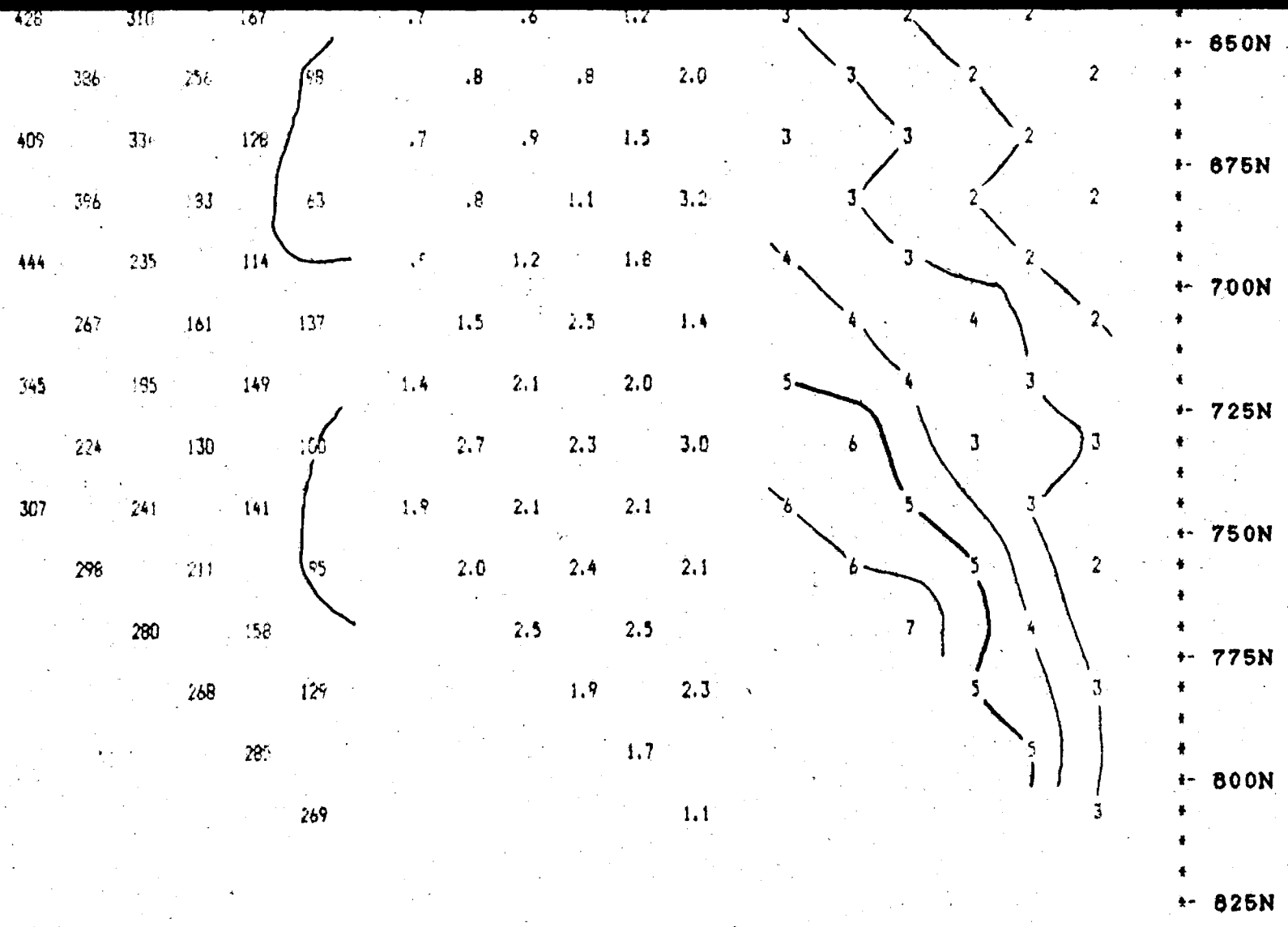
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RESISTIVITY (ohm - metres)				NORMALIZED CHARGEABILITY				CHARGEABILITY (milliseconds)				
N 5	N 3	N 1		N 5	N 3	N 1		N 5	N 3	N 1		
N 6	N 4	N 2		N 6	N 4	N 2		N 6	N 4	N 2		
	821				.4				3			50N
	1377				.4				6			
	1658	296			.4	1.0			7	3		
	2151	263			.4	1.9			9	5		75N
	2385	626	131		.5	1.1	1.5		11	7	2	
	2654	814	235		.4	.9	1.7		12	7	4	
	978	312	193		1.0	1.6	1.1		10	5	2	100N
	1085	402	294		.9	1.5	1.0		10	6	3	
	428	389	157		1.9	1.3	1.2		8	5	2	125N
	508	451	231		2.0	1.3	1.0		10	6	2	
	560	282	145		1.2	1.4	1.3		7	4	2	150N
	634	348	271		1.6	1.1	.5		10	4	2	
	409	286	164		1.2	.7	1.2		5	2	2	175N
	470	342	207		1.7	.9	1.0		8	3	2	
	406	259	146		1.0	.6	2.0		4	2	3	200N
	477	315	192		.8	.6	1.5		4	2	2	
	382	242	129		.5	.4	1.5		2	1	2	225N
	329	305	170		.9	.3	.6		3	1	1	
	371	226	107		.5	.4	.9		2	1	1	250N
	444	266	151		.5	.3	0		2	1	0	
	357	239	81		.3	0	1.2		1	0	1	275N
	439	267	119		.2	0	0		1	0	0	
	338	176	76		0	0	.0		0	0	0	300N
	411	279	128		.2	0	0		1	0	0	
	298	232	92		.3	.4	0		1	1	0	325N
	370	298	179		.3	.3	.6		1	1	1	
	283	193	89		.4	.5	1.0		1	1	1	350N
	336	248	87		.3	.4	1.1		1	1	1	
	314	155	33		.3	.6	3.0		1	1	1	375N
	351	214	107		.3	.5	.9		1	1	1	
	251	161	65		.4	.6	1.5		1	1	1	400N



Property : ERY TWP

Client : MARY ELLEN RESOURCES



Property : EBY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 12/10/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : HUNTEC 2500
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 1 E

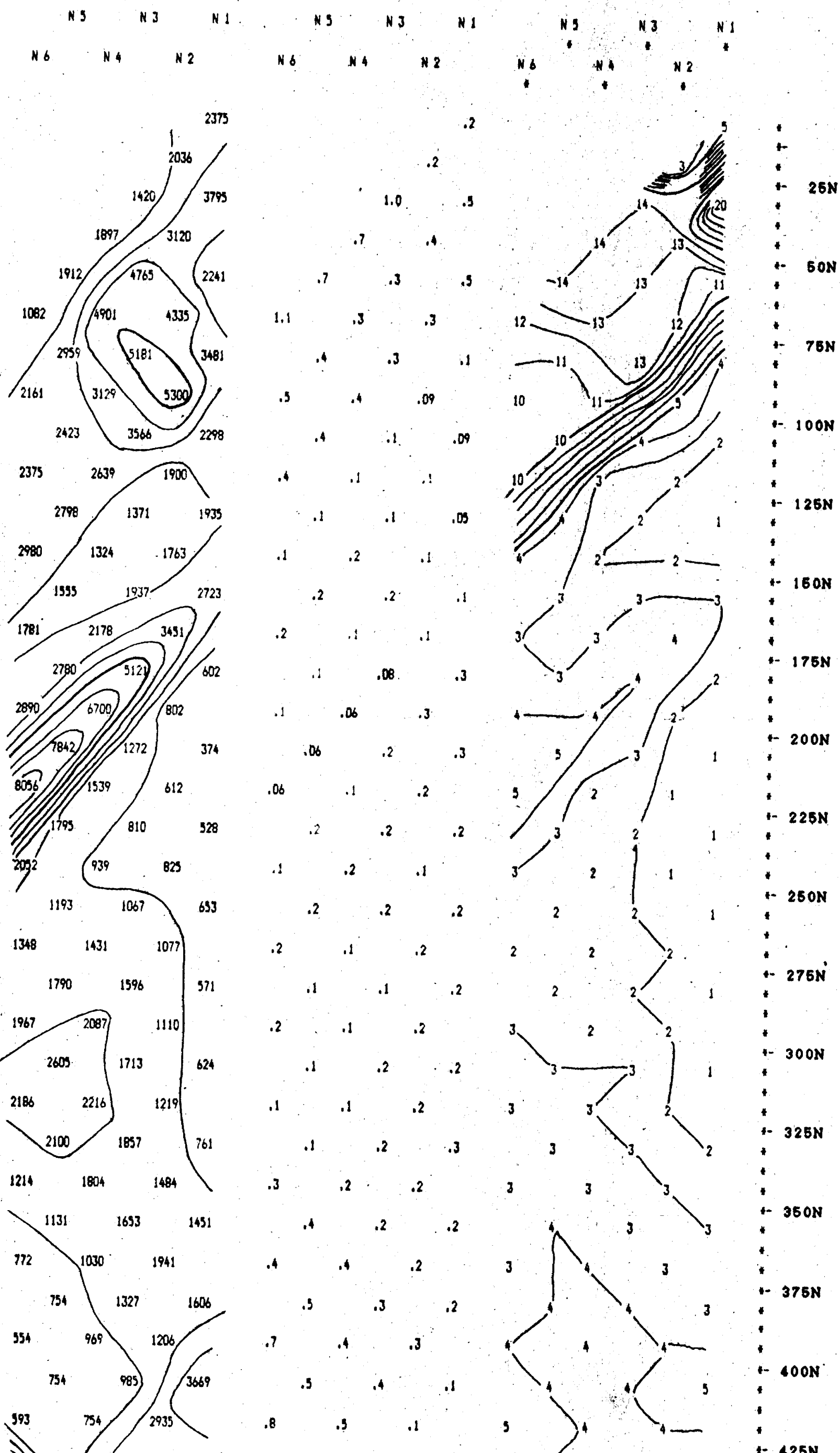
****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

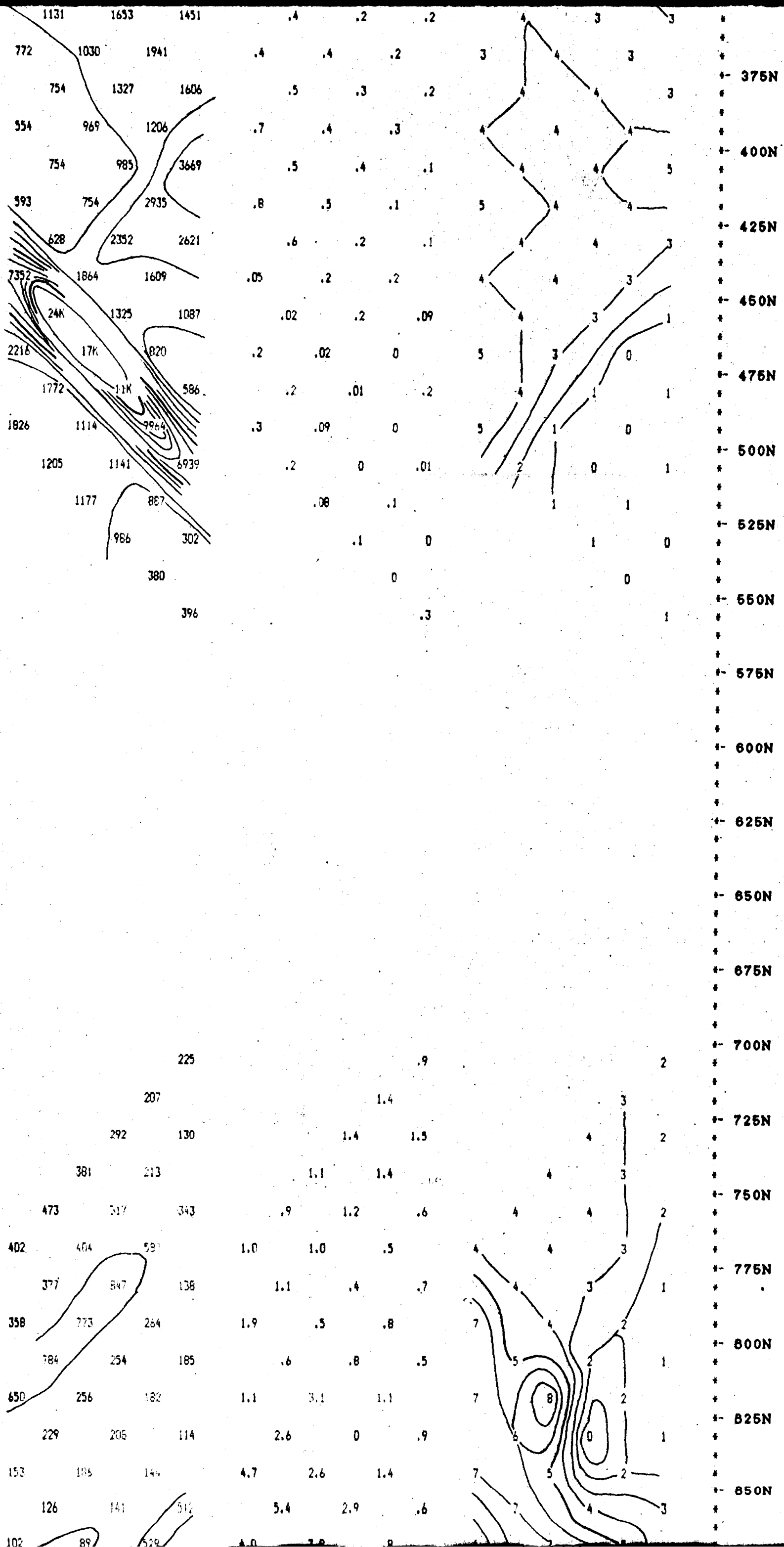
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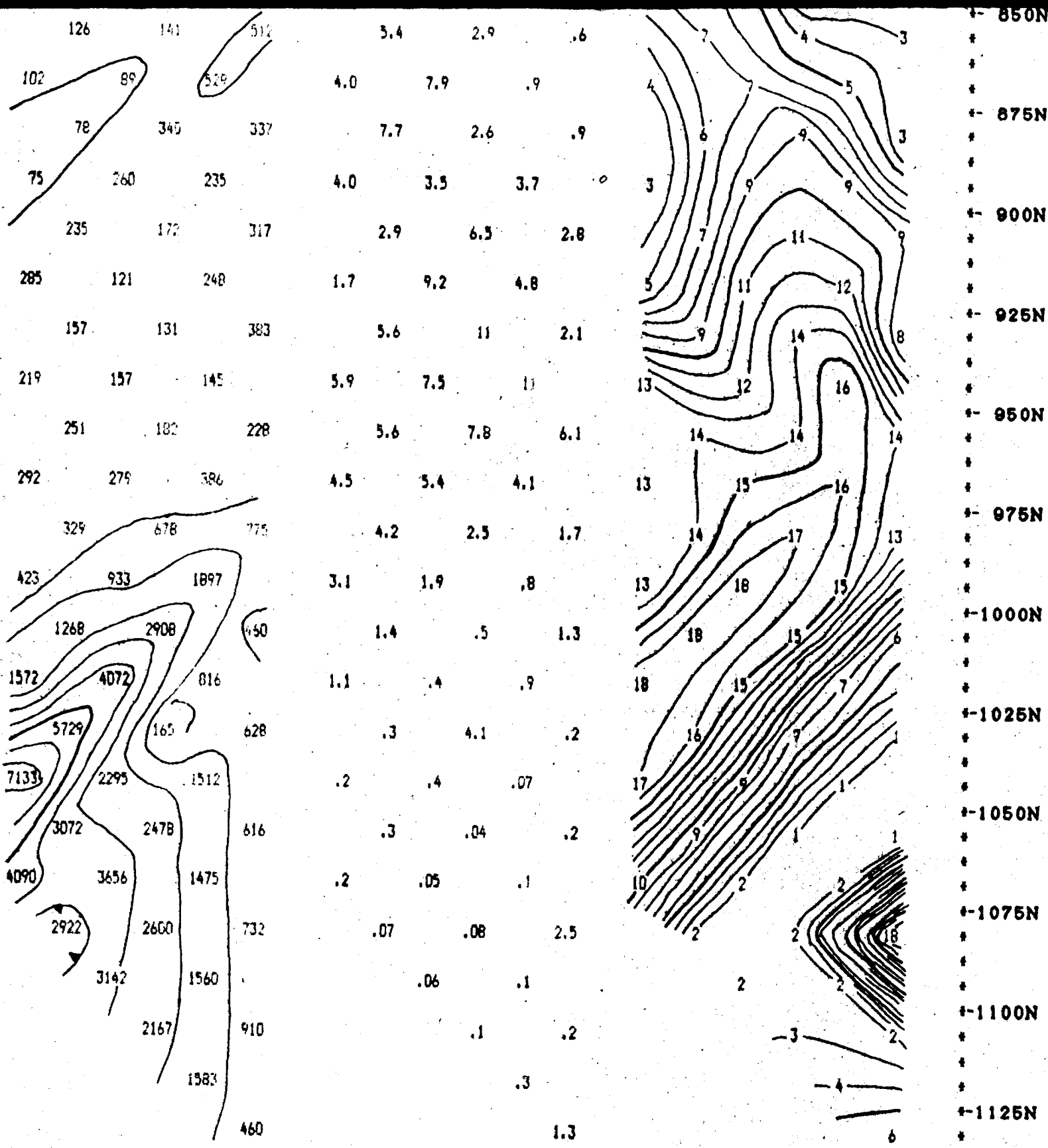
RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)




375N
400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N



Property : ERY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 12/10/85
Operator : RAM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : HUNTEC 2500
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 1 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

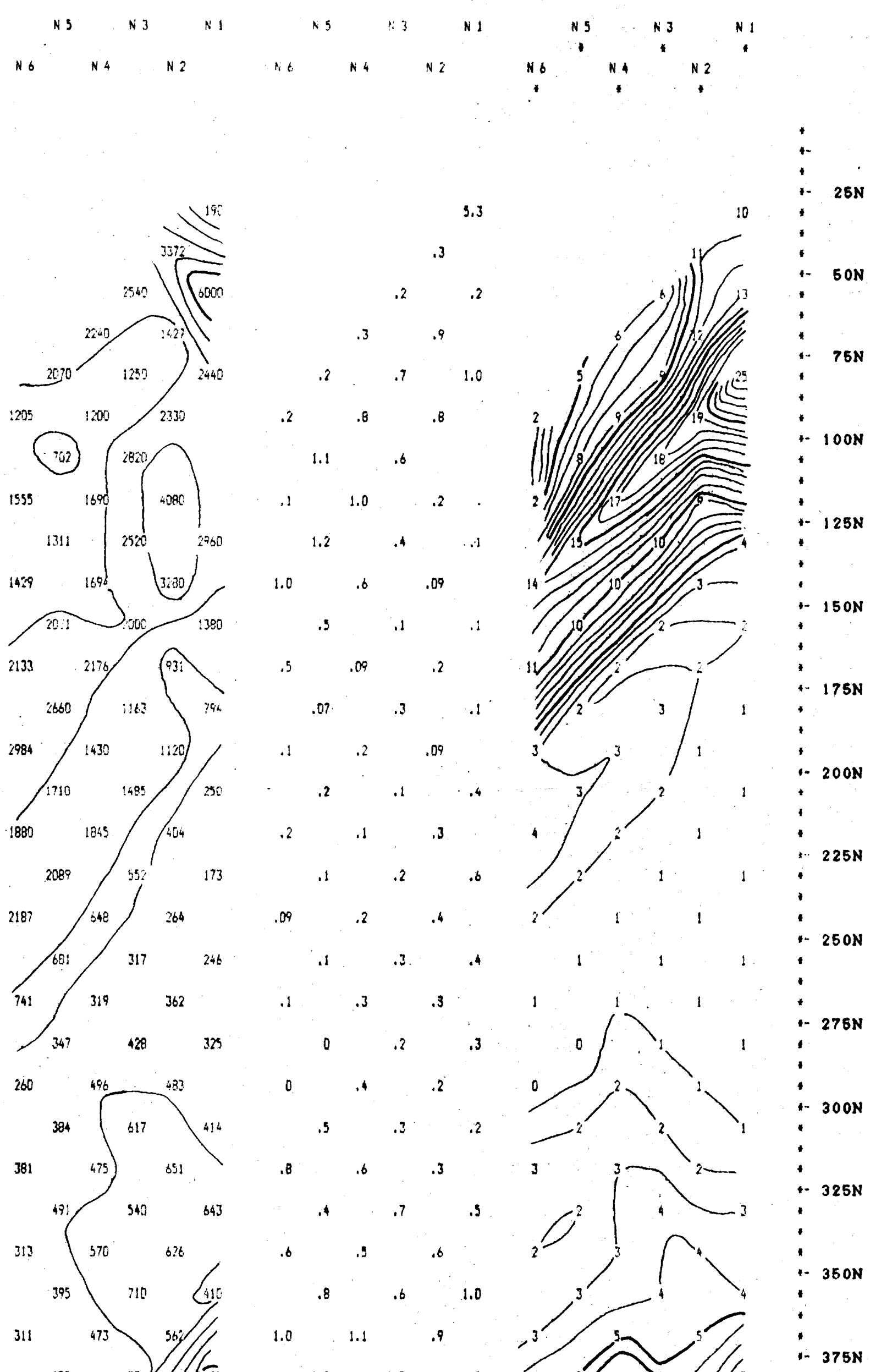
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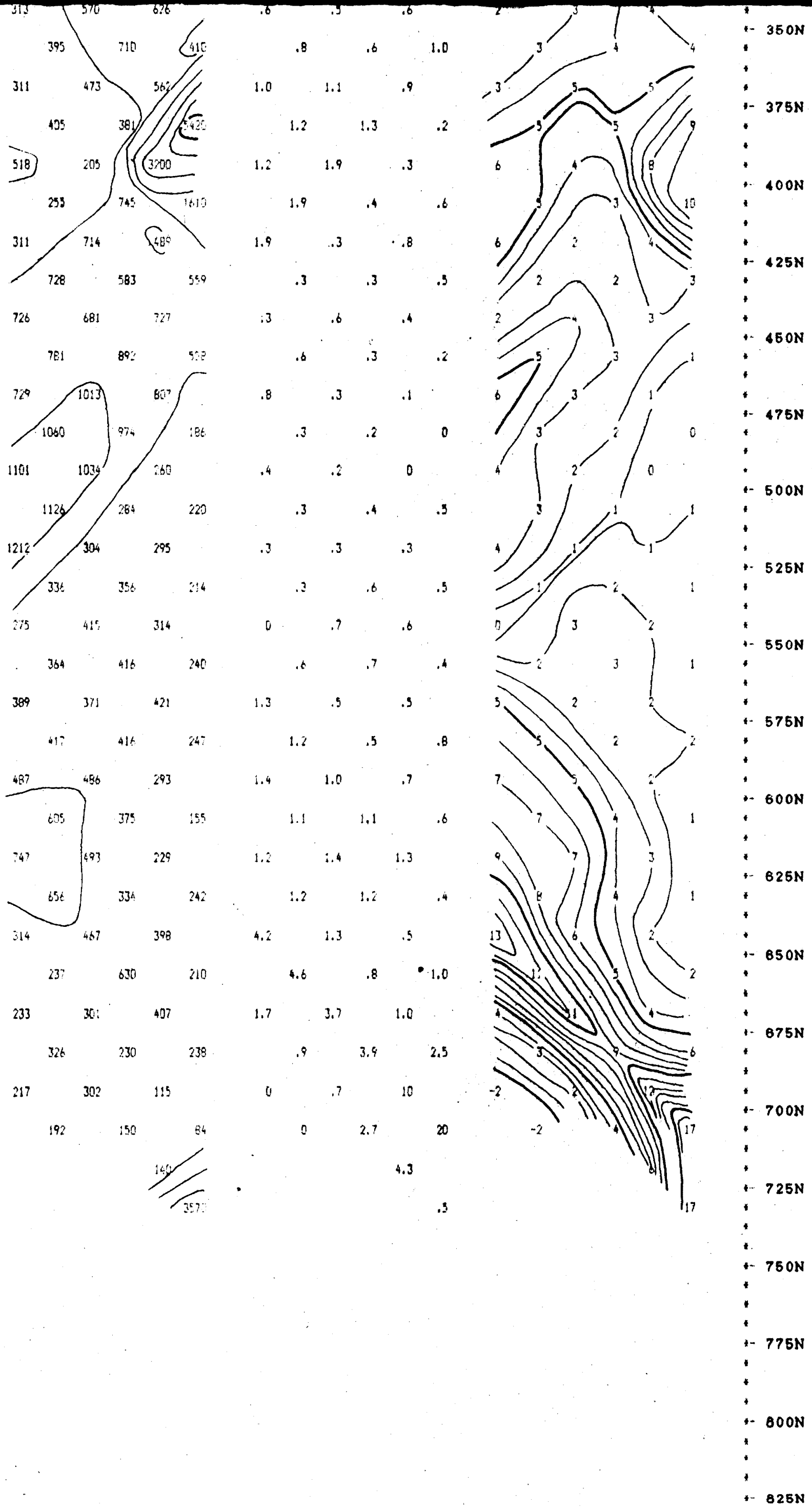
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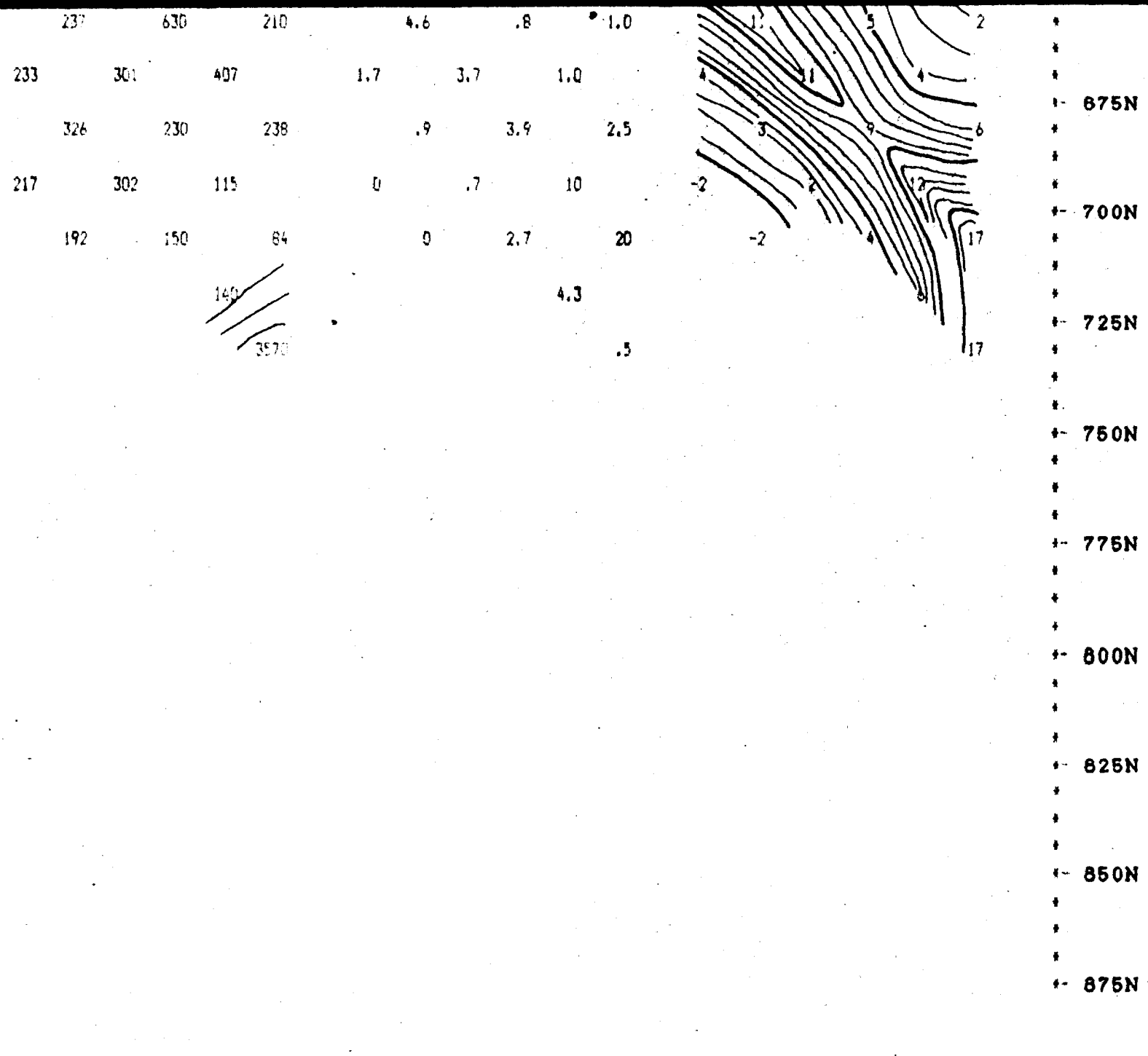
RESISTIVITY (ohm - metres)

NORMALIZED CHARGEABILITY

CHARGEABILITY (milliseconds)




350N
375N
400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N



Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 28/9/85
Operator : CDJ
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 2 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

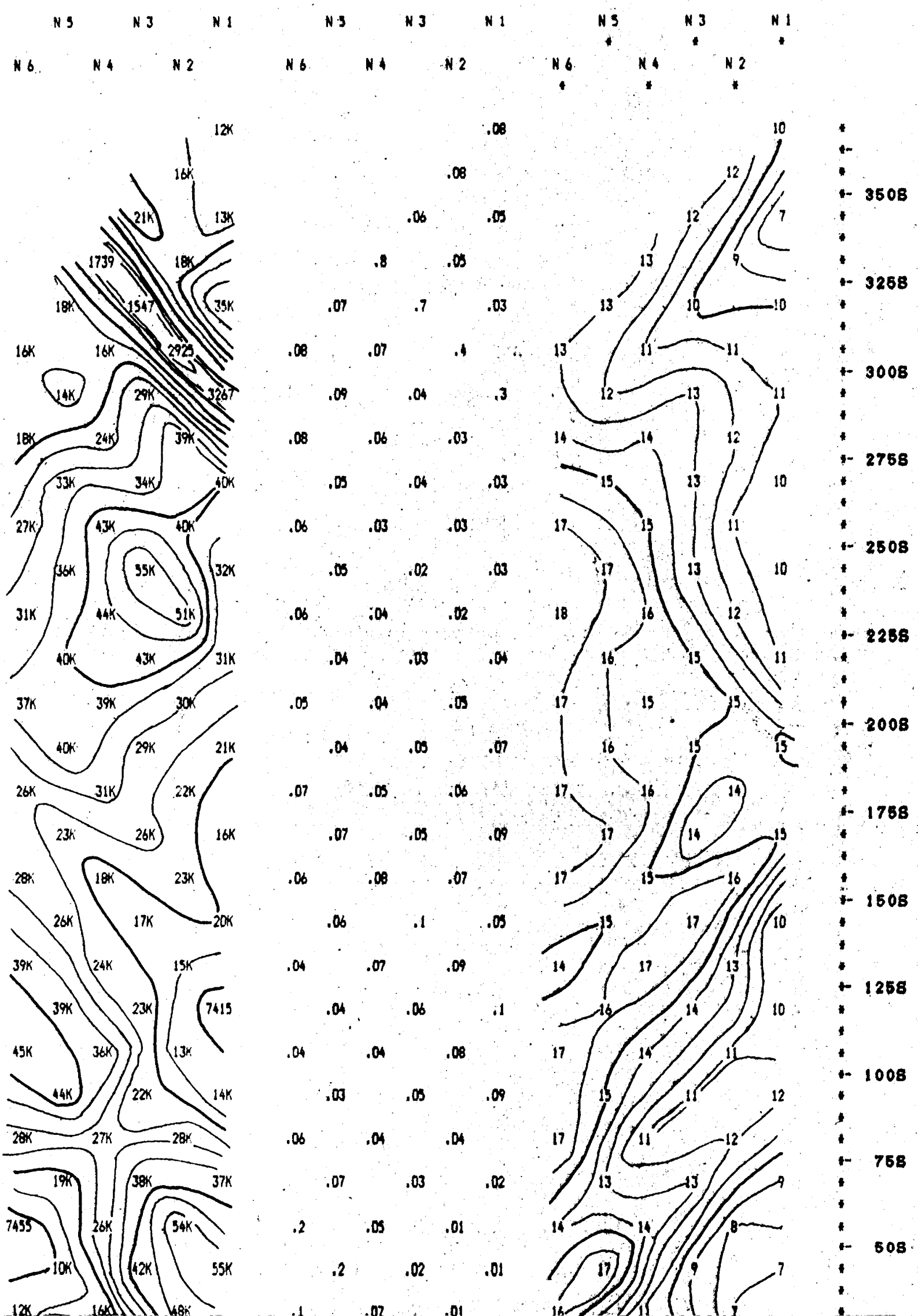
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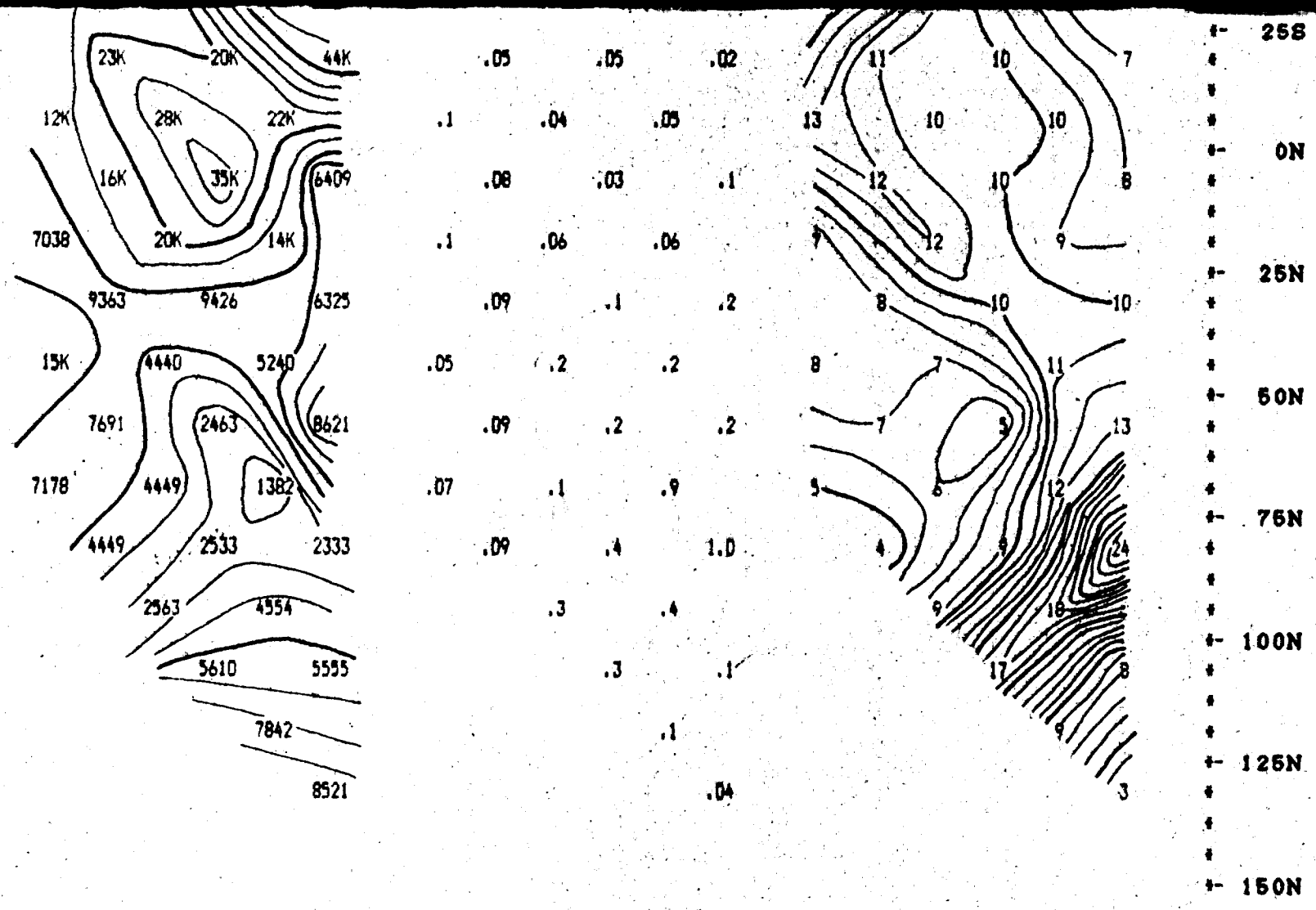
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)





Property : EBY TWP

Client : MARY ELLEN RESOURCES

Date of Survey : 30/9/85

Operator : RRM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

Transmitter : HUNTEC 2500

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 30 ms

Integration Time : 360 ms

Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 2 W

****

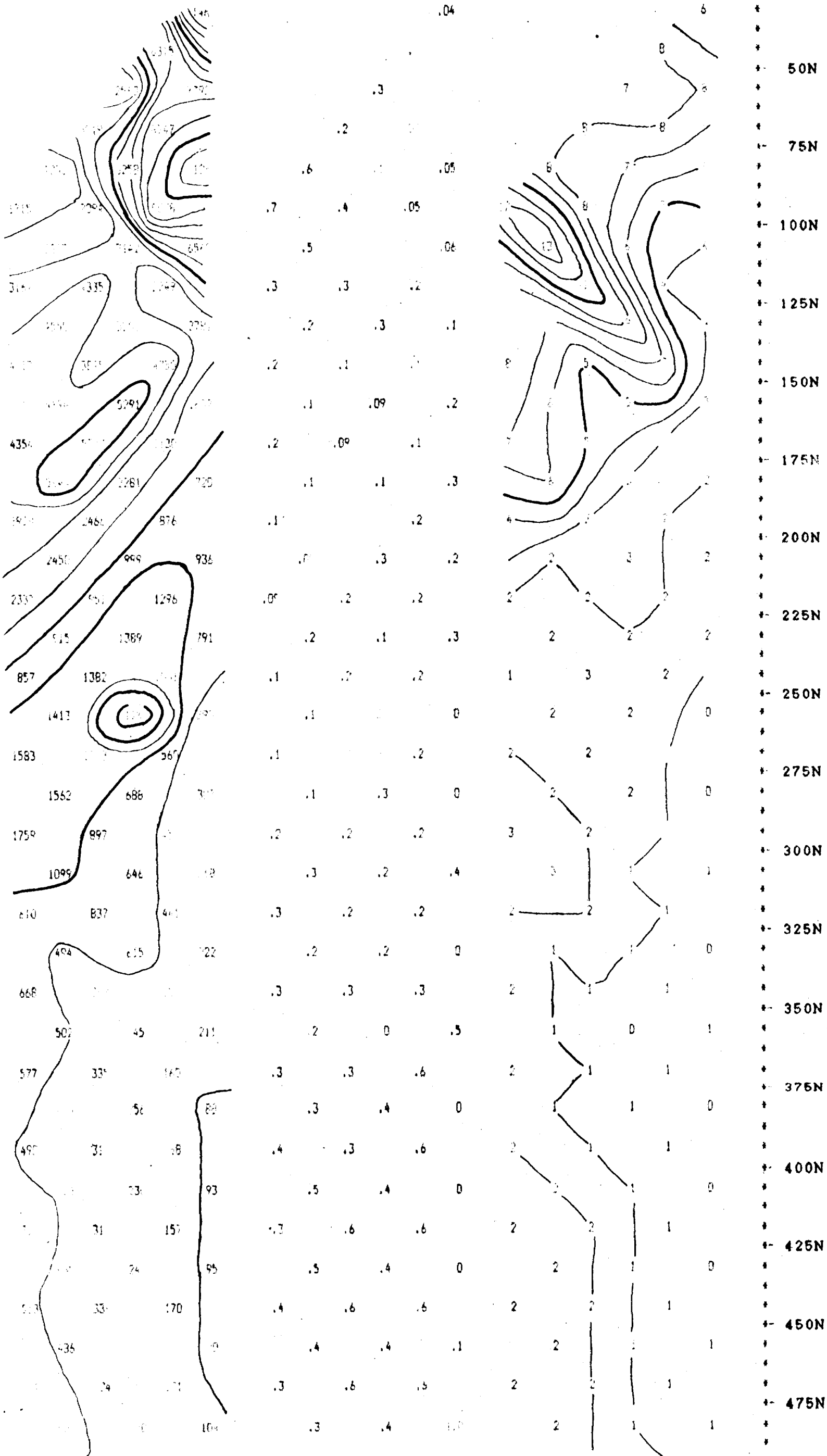
R.S. MIDDLETON EXPLORATION SERVICES INC.

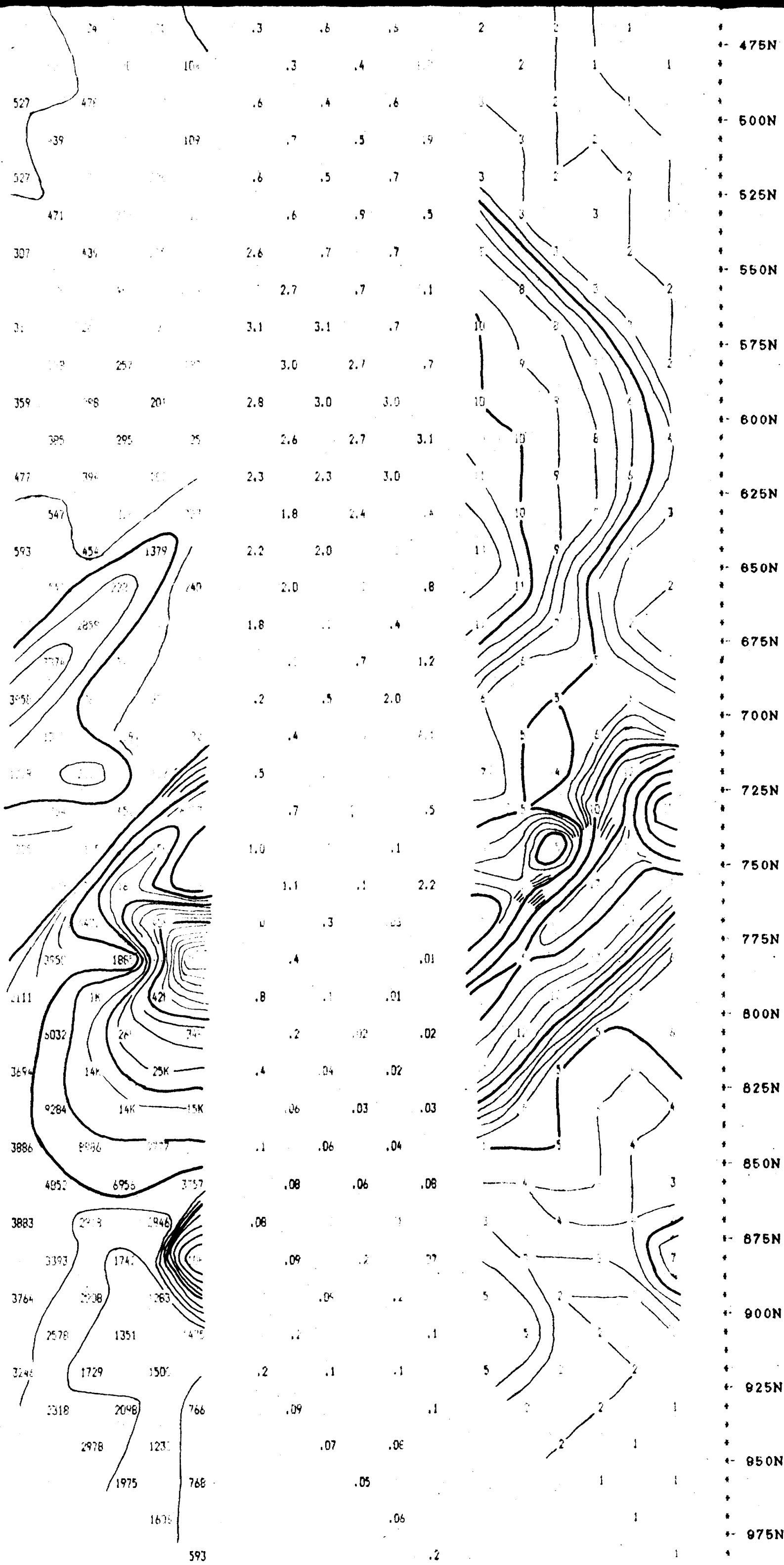
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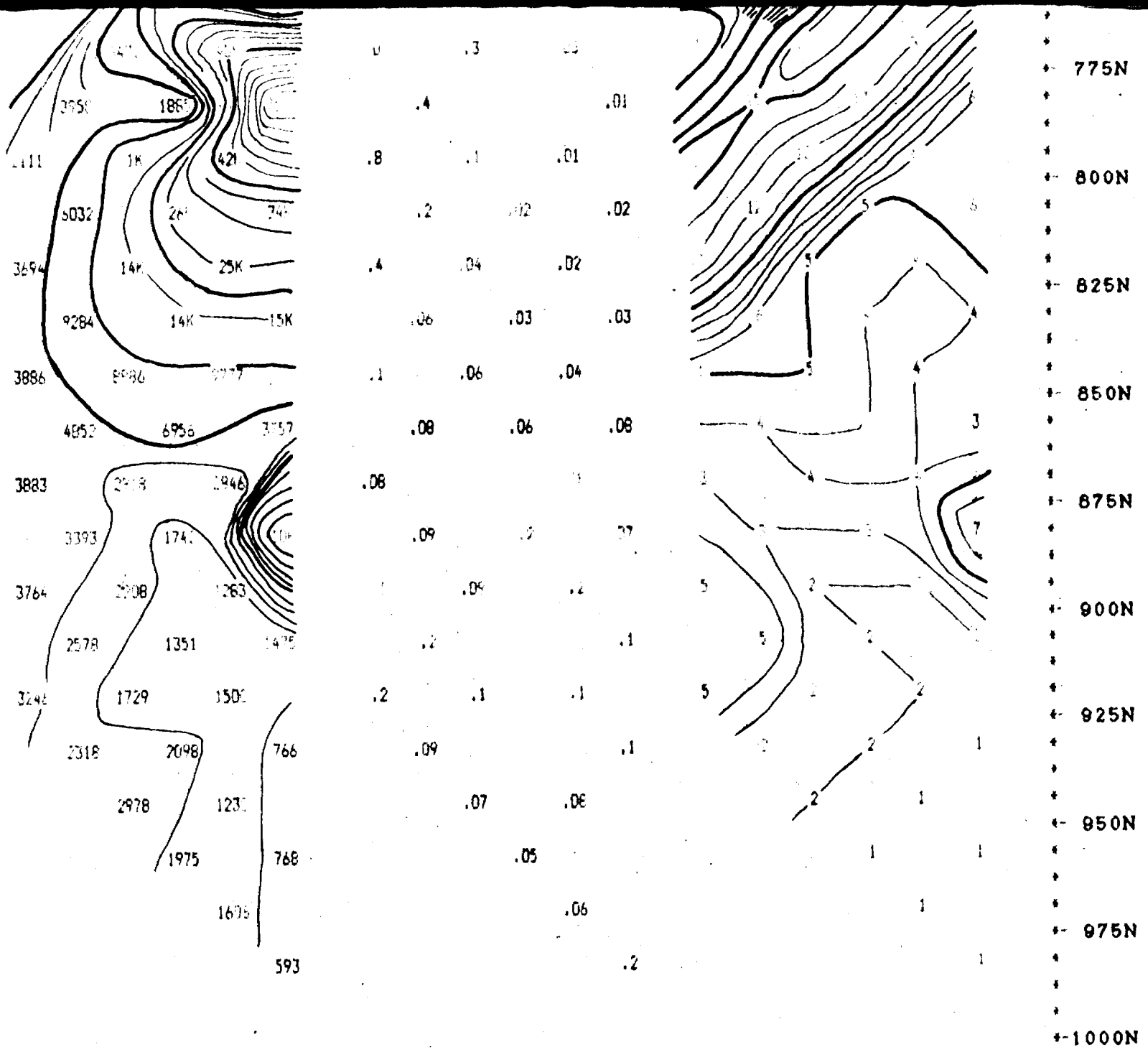
RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)




475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N
925N
950N
975N
1000N



Property : ERY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 4/8/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : HUNTEC 2500
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 3 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

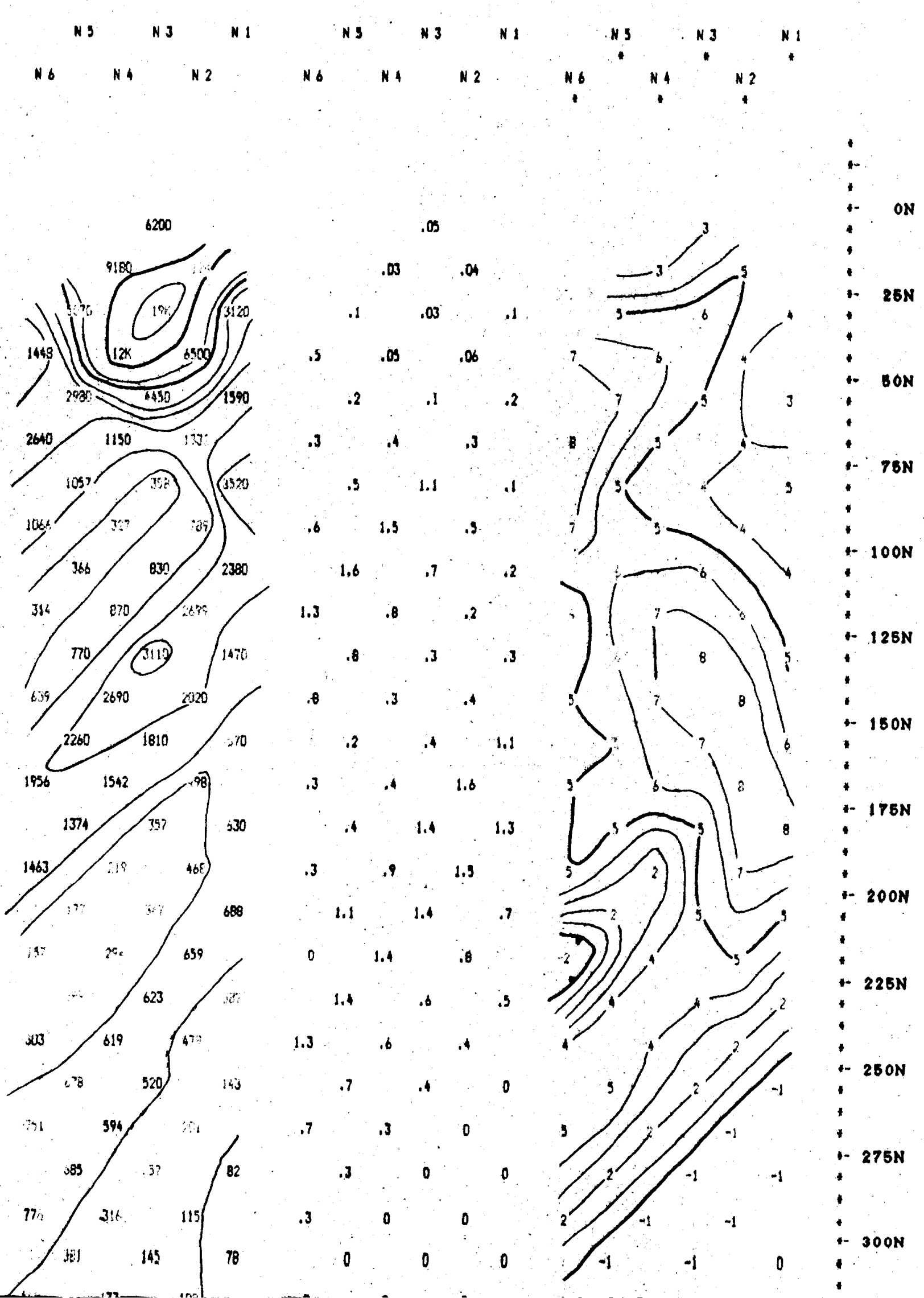
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SCALE : 1:1250

RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)



																		+- 325N
	208		138		73		0		0		0		-2		-1		0	*
																		*
241		167		102		0		0		0		-2		-1		-1		*
																		+- 350N
			133		72		0		0		0		-2		-1		0	*
																		*
230		164		106		0		0		0		-2		-1		0		*
																		+- 375N
			141		76		0		0		0		-1		0		0	*
																		*
235		176		114		0		0		0		-1		0		0		*
																		+- 400N
			153		74		0		0		0		-1		0		0	*
																		*
266		199		115		0		0		0		-1		0		0		*
																		+- 425N
	256		165		73		0		.6		0		0		1		0	*
																		*
			132			0		0		0		0		0		-1		*
																		+- 450N
			198		63		0		.5		0		0		1		0	*
																		*
343		262		149		0		0		0		0		0		0		*
																		+- 475N
	345		215		93		.3		.5		1.1		1		1		1	*
																		*
			169				.3		0				1		0			*
																		+- 500N
			263		106				.4		.9				1		1	*
																		*
				212						.5						1		*
																		+- 525N

Property : ERY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 27/9/89
Operator : CDJ
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 4 W

****

R.B. MIDDLETON EXPLORATION
SERVICES INC.

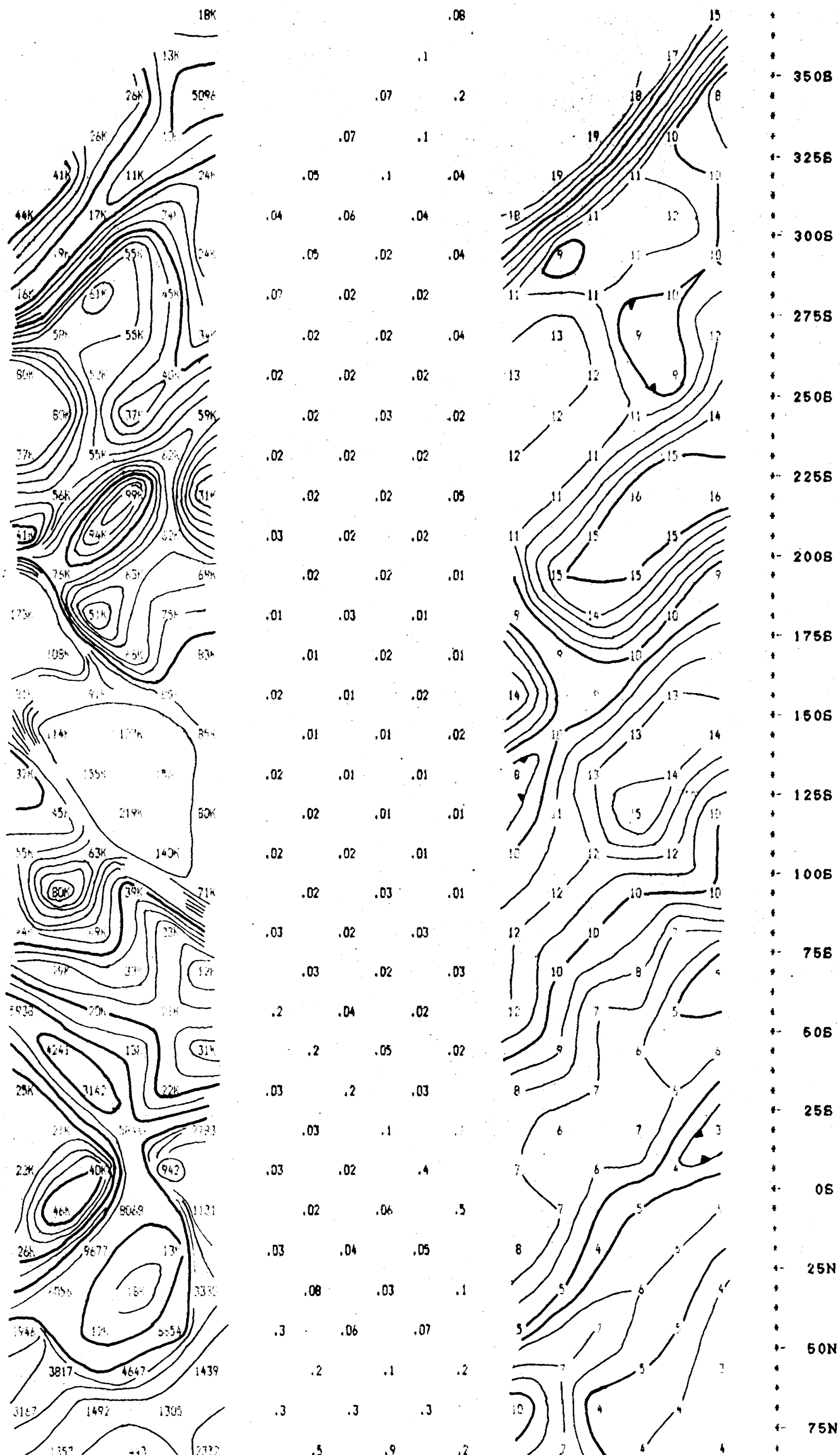
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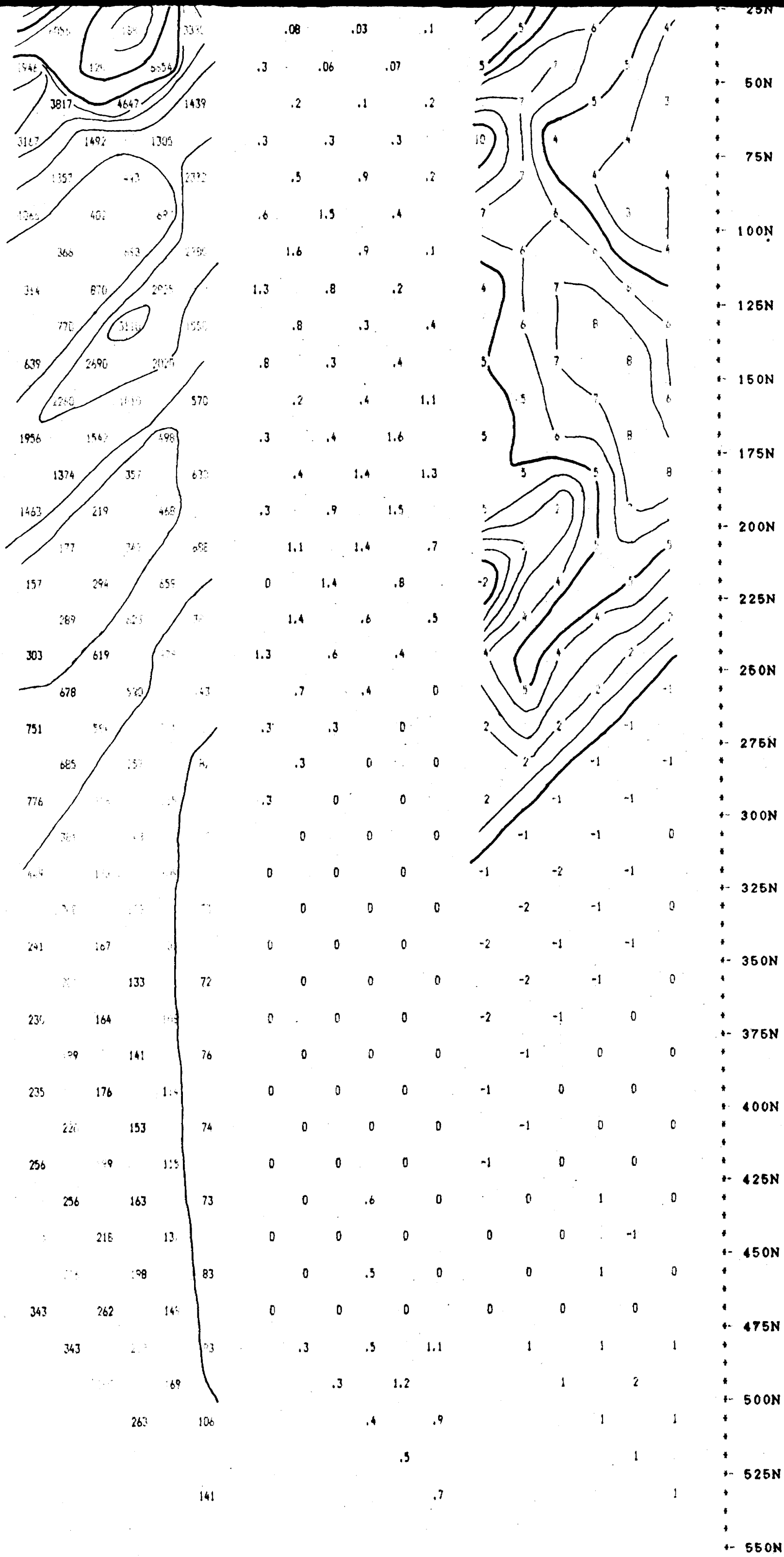
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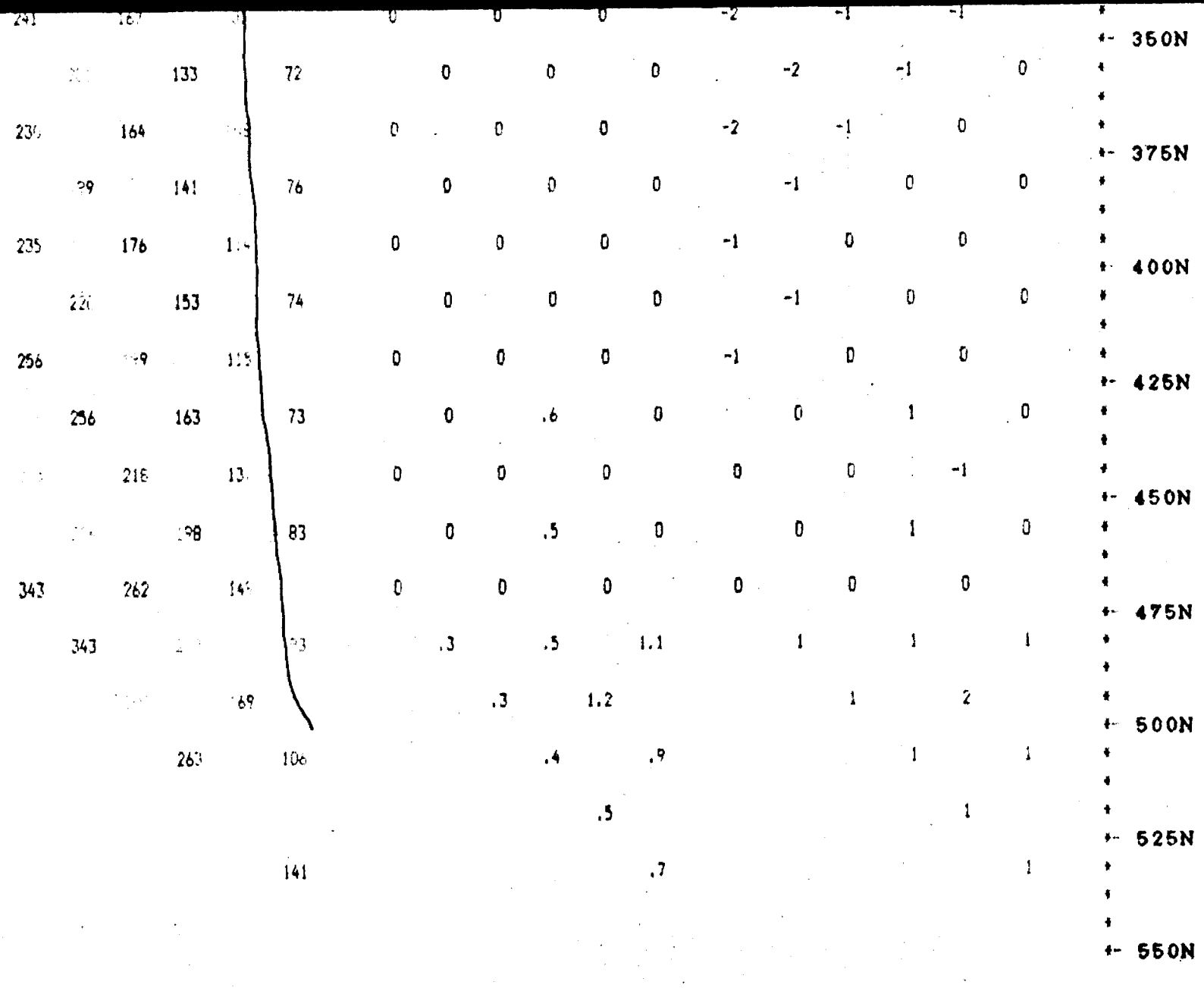
RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)




25N
50N
75N
100N
125N
150N
175N
200N
225N
250N
275N
300N
325N
350N
375N
400N
425N
450N
475N
500N
525N
550N



Property : ERY TWP

Client : MARY ELLEN RESOURCES

Date of Survey : 1/10/85

Operator : RRM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

Transmitter : HUNTEC 2500

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 30 ms

Integration Time : 360 ms

Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 4 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

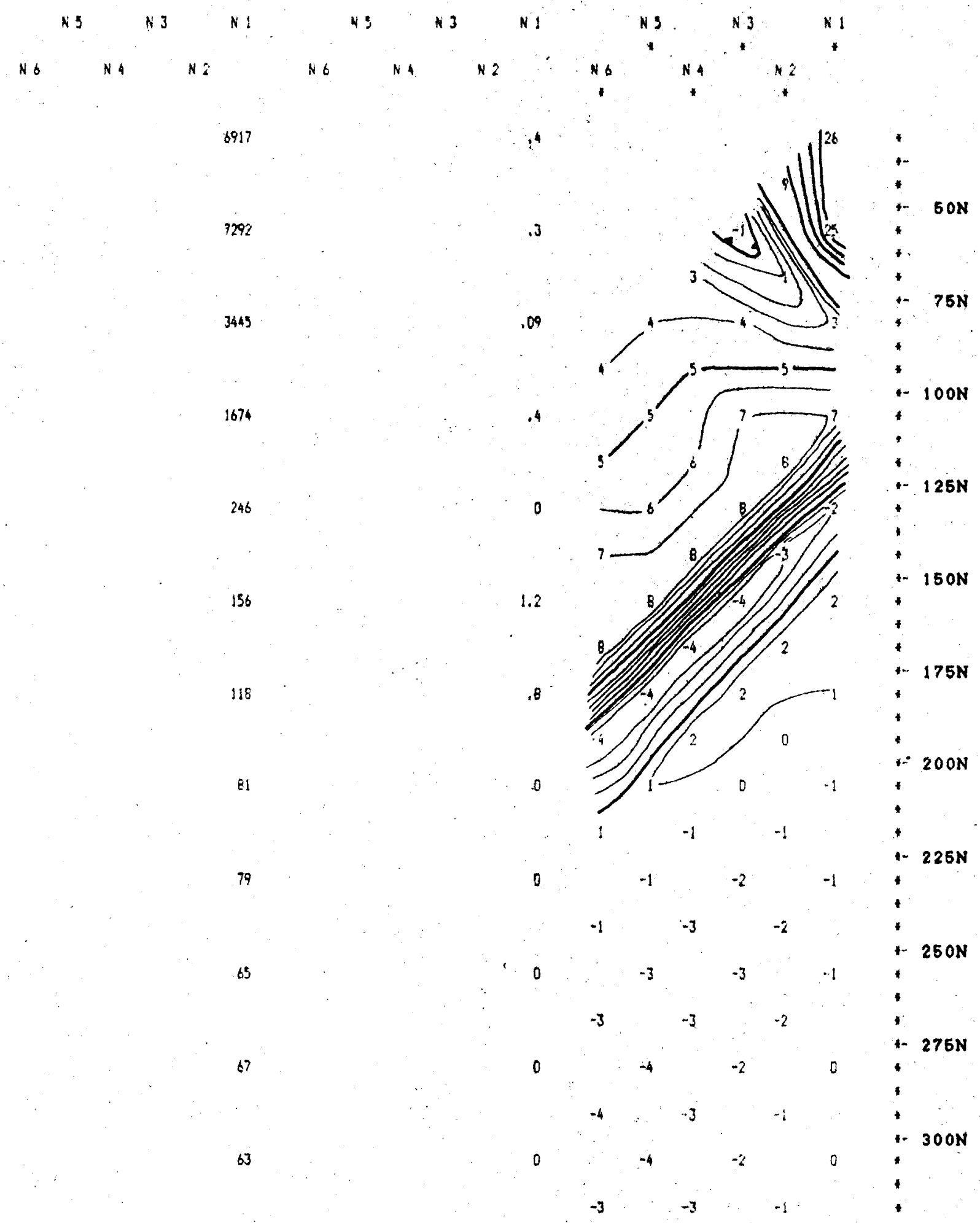
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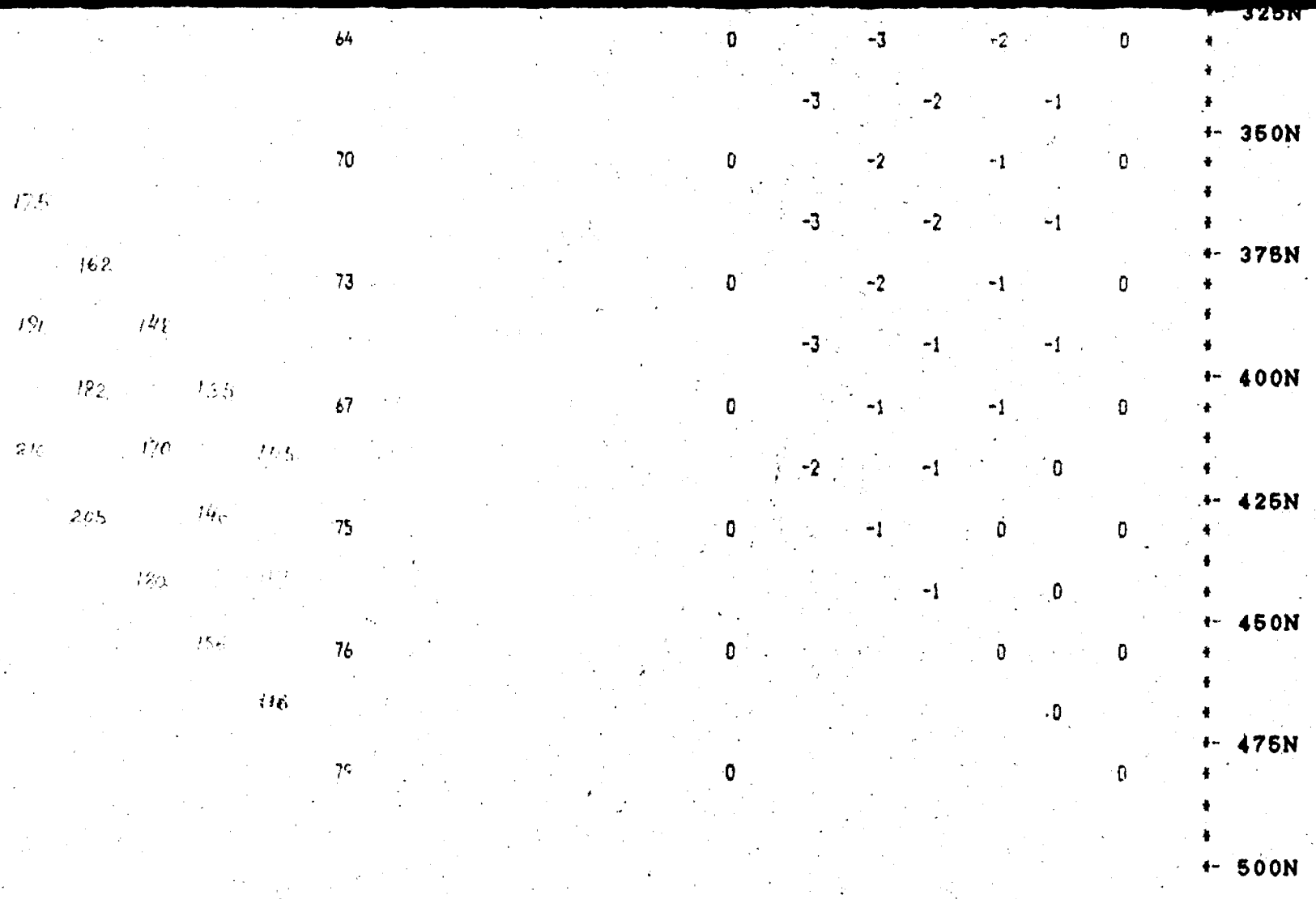
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)





Property : ERY TWP

Client : MARY ELLEN RESOURCES

Date of Survey : 3/10/85

Operator : RRM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

Transmitter : HUNTEC 2500

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 30 ms

Integration Time : 360 ms

Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 5 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

SCALE : 1:1250

RESISTIVITY (ohm - metres)			NORMALIZED CHARGEABILITY			CHARGEABILITY (milliseconds)			
N 5	N 3	N 1	N 5	N 3	N 1	N 5	N 3	N 1	
N 6	N 4	N 2	N 6	N 4	N 2	N 6	N 4	N 2	
									25N
		0			0			-3	
		0			0			-2	50N
170				0	0		-1	-2	
144				0	0		0	-1	
									75N
1627			.04	0	0	1	-1	0	
1870			.1	0	0	2	0	0	
									100N
		137	.2	0	0	1	0	0	
611	135	104	.1	.4	0	1	1	0	
									125N
	114	108	.3	0	.9	1	0	1	
315	139	112	.6	0	.9	2	0	1	
									150N
75	132	91	1.1	.5	1.1	2	1	1	
215	157	119	.9	1.2	.8	3	2	1	
									175N
	145	84	1.0	1.3	0	2	2	-1	
240	130	84	1.2	1.1	0	3	2	-1	
									200N
134	111	59	1.2	0	0	3	-1	-1	
306	142	81	1.3	0	0	4	0	-1	
									225N
180	107	56	0	0	0	0	-1	-1	
179	137	76	.5	0	0	1	0	-1	
									250N
171	99	60	0	0	0	0	-1	0	

[illegible]		127		81		.5		0		0		1		-1		-1		
																		275N
	153		96		59		0		0		0		0		-1		0	
[illegible]		126		79		0		0		0		0		0		-1		
																		300N
	157		105		61		0		0		0		0		0		0	
186		179		84		.5		0		0		1		0		-1		
																		325N
	159		111		69		0		0		0		0		-1		0	
190		137		96		0		0		0		0		-1		0		
																		350N
	171		124		69		0		0		0		-1		-1		0	
[illegible]		155		94		0		0		0		-1		-1		-1		
																		375N
	169		127		67		0		0		0		-1		-1		0	
		156		100				0		0				-1		-1		
																		400N
			130		72				0		0				-1		0	
				98						0						-1		
																		425N

Property : EBY TWP.

Client : MARY ELLEN RESOURCES

Date of Survey : 3/10/85

Operator : RRM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 30 ms

Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 6 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

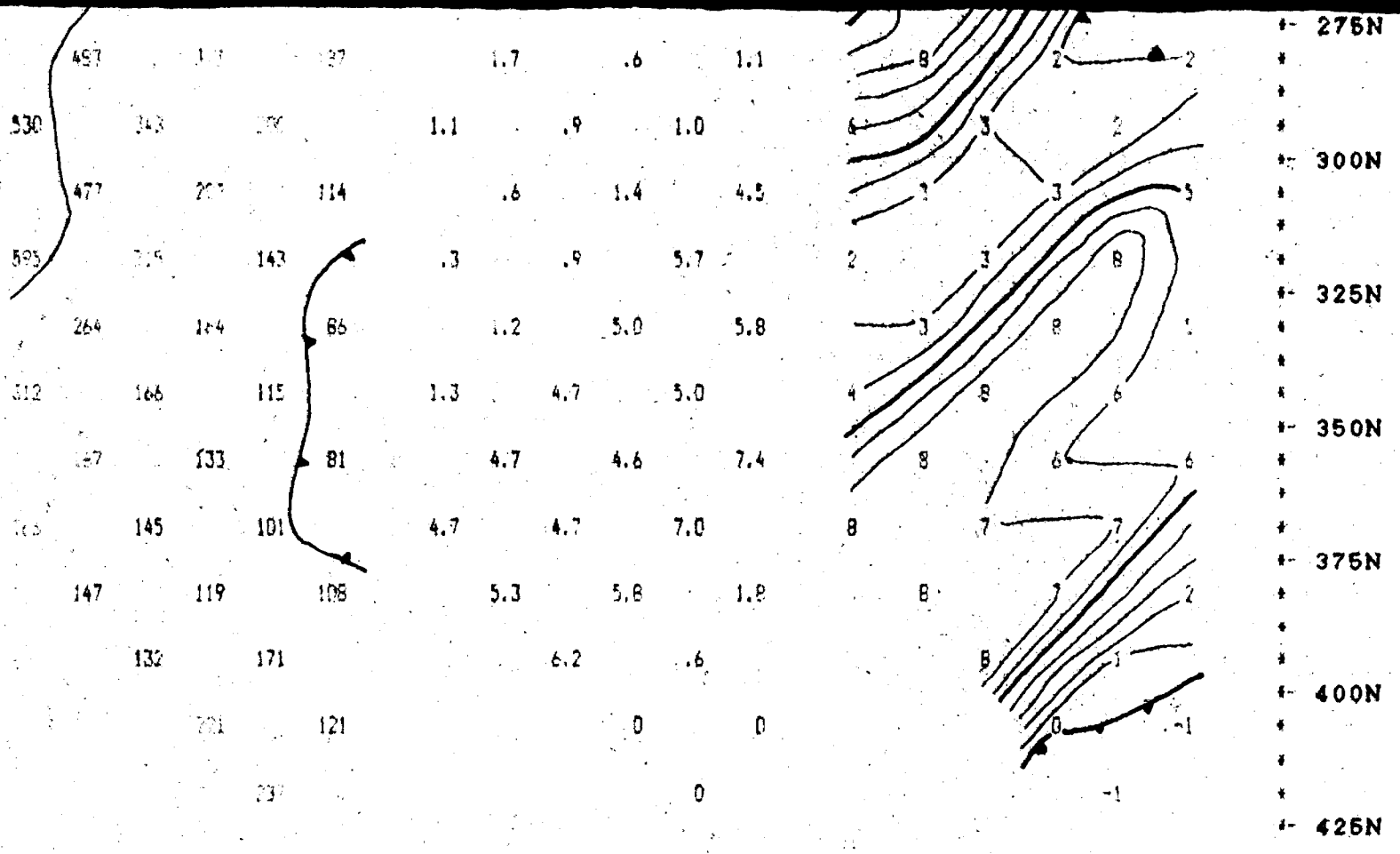
SCALE : 1:1250

RESISTIVITY (ohm - metres)

NORMALIZED CHARGEABILITY

CHARGEABILITY (milliseconds)

RESISTIVITY (ohm - metres)			NORMALIZED CHARGEABILITY			CHARGEABILITY (milliseconds)			
N 5	N 3	N 1	N 5	N 3	N 1	N 5	N 3	N 1	
N 6	N 4	N 2	N 6	N 4	N 2	N 6	N 4	N 2	
535			.4			2			25N
766			.3			2			
1040	NR		.3	NR		3	NR		50N
516			.2	.4		3	2		
810			.03	.2	0	4	2	0	75N
7500			.3	.04	0	5	3	0	
2800			.6	.04	.6	6		1	100N
379	1960		.5	1.1	0	5		0	
356	2240		1.0	1.5	.09	4	4	2	125N
NR			NR	1.1	1.9	NR	2	6	
			NR	1.7	2.7	NR		6	150N
NR	562		3.3	NR	1.0	7	NR	10	
NR	714		3.3	NR	3.1		NR		175N
233	NR		3.2	3.0	NR	7	7	NR	
373	NR		2.6	2.2	NR	8	8	NR	200N
443			2.7	1.8	2.0	11	8	9	
405			1.9	2.0	1.3	12	8	6	225N
544	324		2.7	2.0	1.6	11	5		
580	269		1.2	1.5	.7	7	6	2	250N
463	291		1.8	1.8	.3	11	8	1	



Property : ERY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 2/10/85
Operator : CGK
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

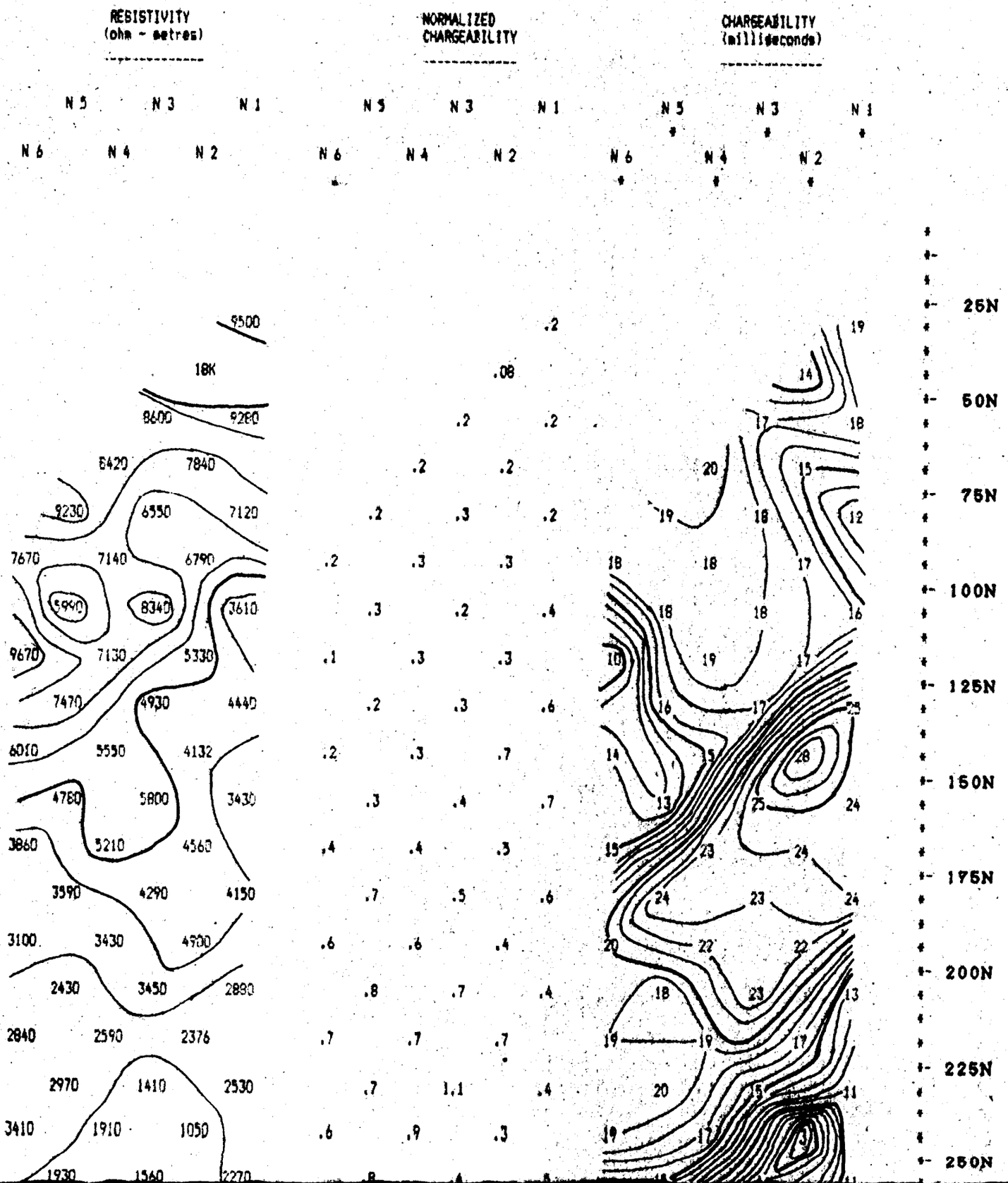
LINE 7 W

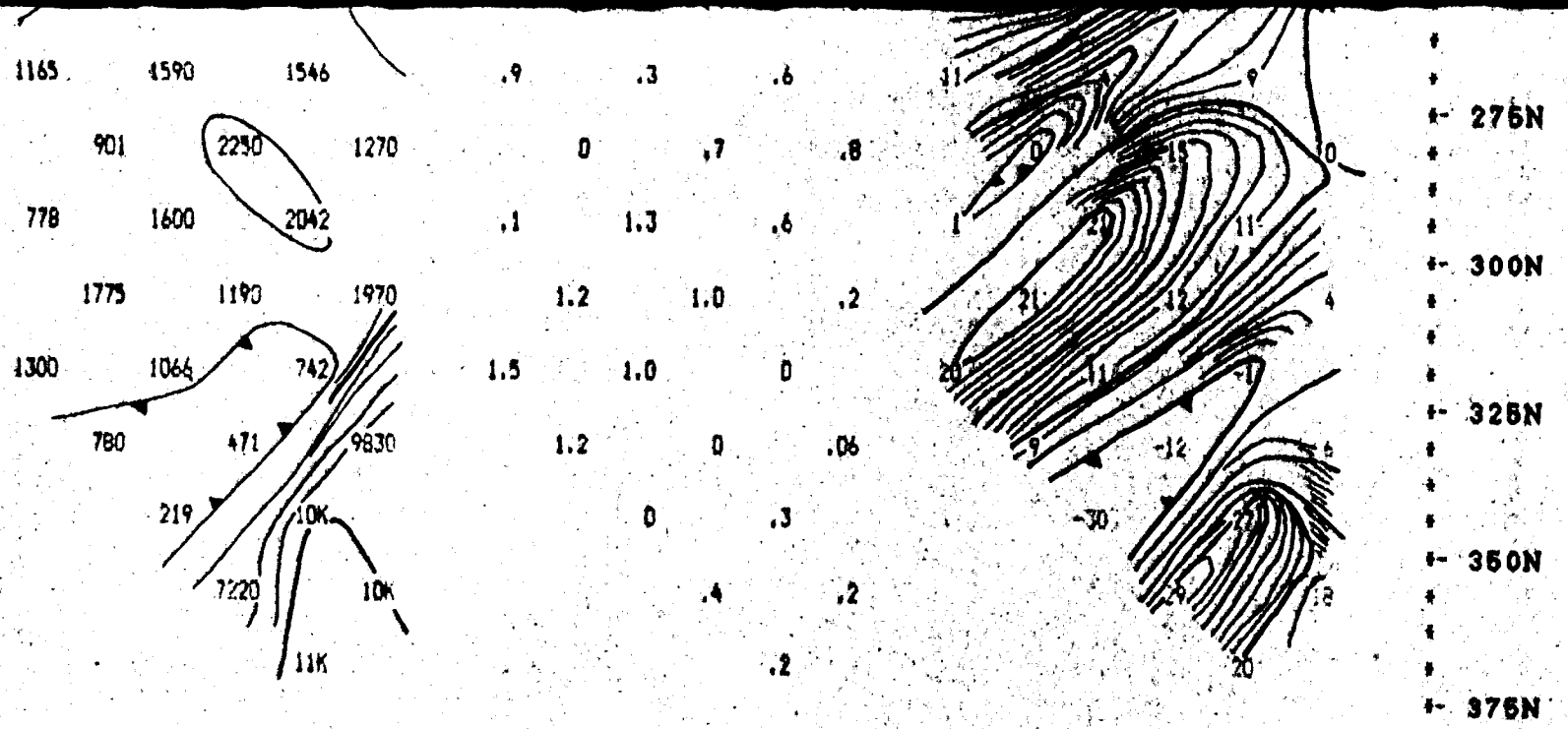
****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

SCALE : 1:1250


RESISTIVITY
(ohm - metres)
NORMALIZED
CHARGEABILITY
CHARGEABILITY
(milliseconds)
N 5
N 3
N 1
N 6
N 4
N 2
5500
18K
8600
9280
8420
7840
9230
6550
7120
7670
7140
6790
5990
8340
3610
9670
7130
5330
7470
4930
4440
6010
5550
4132
4760
5800
3430
3860
5210
4560
3590
4290
4150
3100
3430
4900
2430
3450
2890
2840
2590
2376
2970
1410
2530
3410
1910
1050
1930
1560
2270
.2
.08
.2
.2
.2
.2
.3
.2
.2
.3
.3
.3
.2
.4
.1
.3
.3
.2
.3
.6
.2
.3
.7
.3
.4
.7
.4
.4
.3
.7
.5
.6
.6
.6
.4
.8
.7
.4
.7
.7
.7
.7
1.1
.4
.6
.9
.3
.8
.4
.8
19
14
17
18
20
15
19
18
12
18
18
17
18
18
16
10
19
17
16
17
25
14
13
28
13
25
24
15
23
24
24
23
24
20
22
22
18
23
13
19
19
17
20
15
11
19
17
25N
50N
75N
100N
125N
150N
175N
200N
225N
250N



Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 2/10/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSO-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 8 W

****

R.S. MIDDLETON EXPLORATION SERVICES INC.

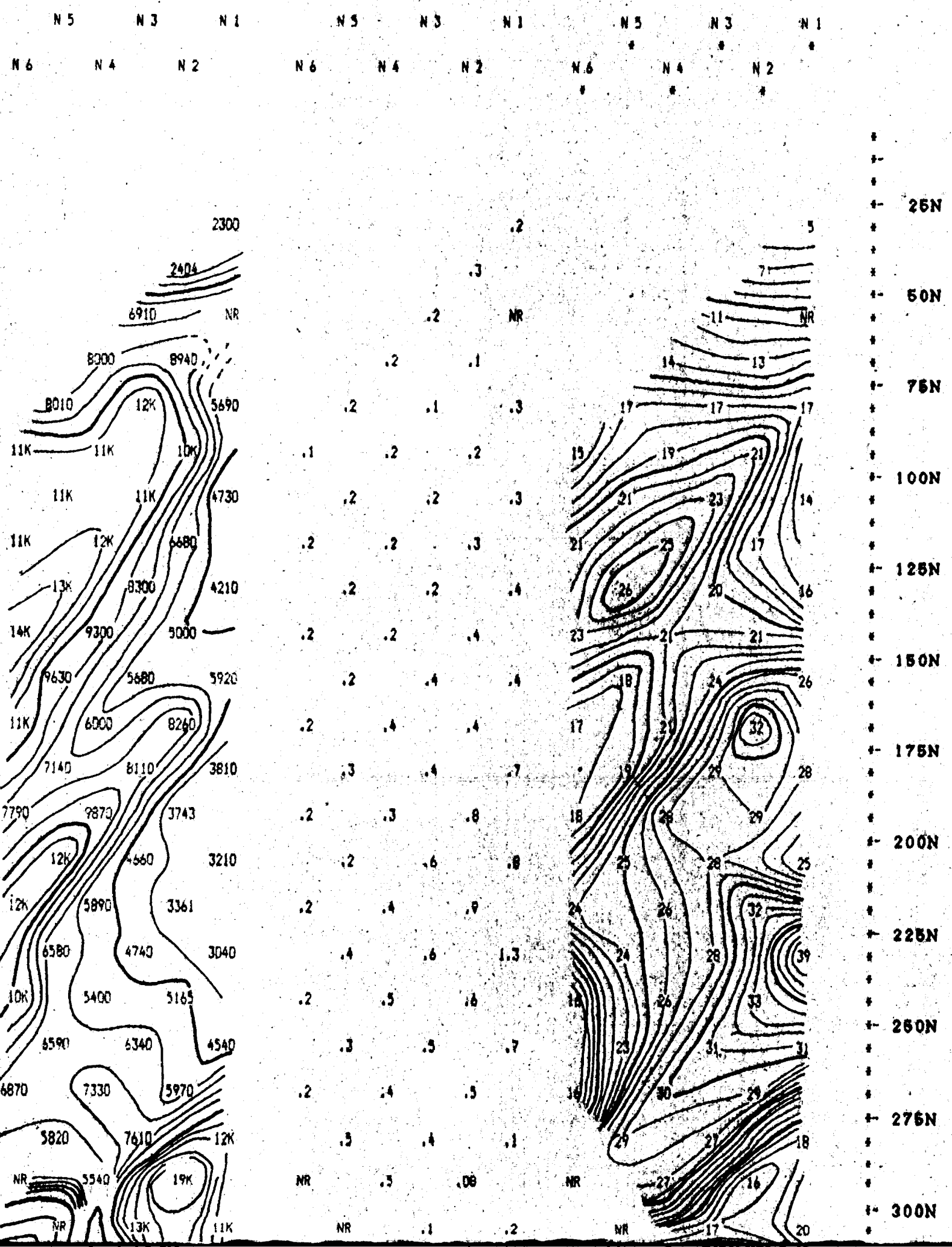
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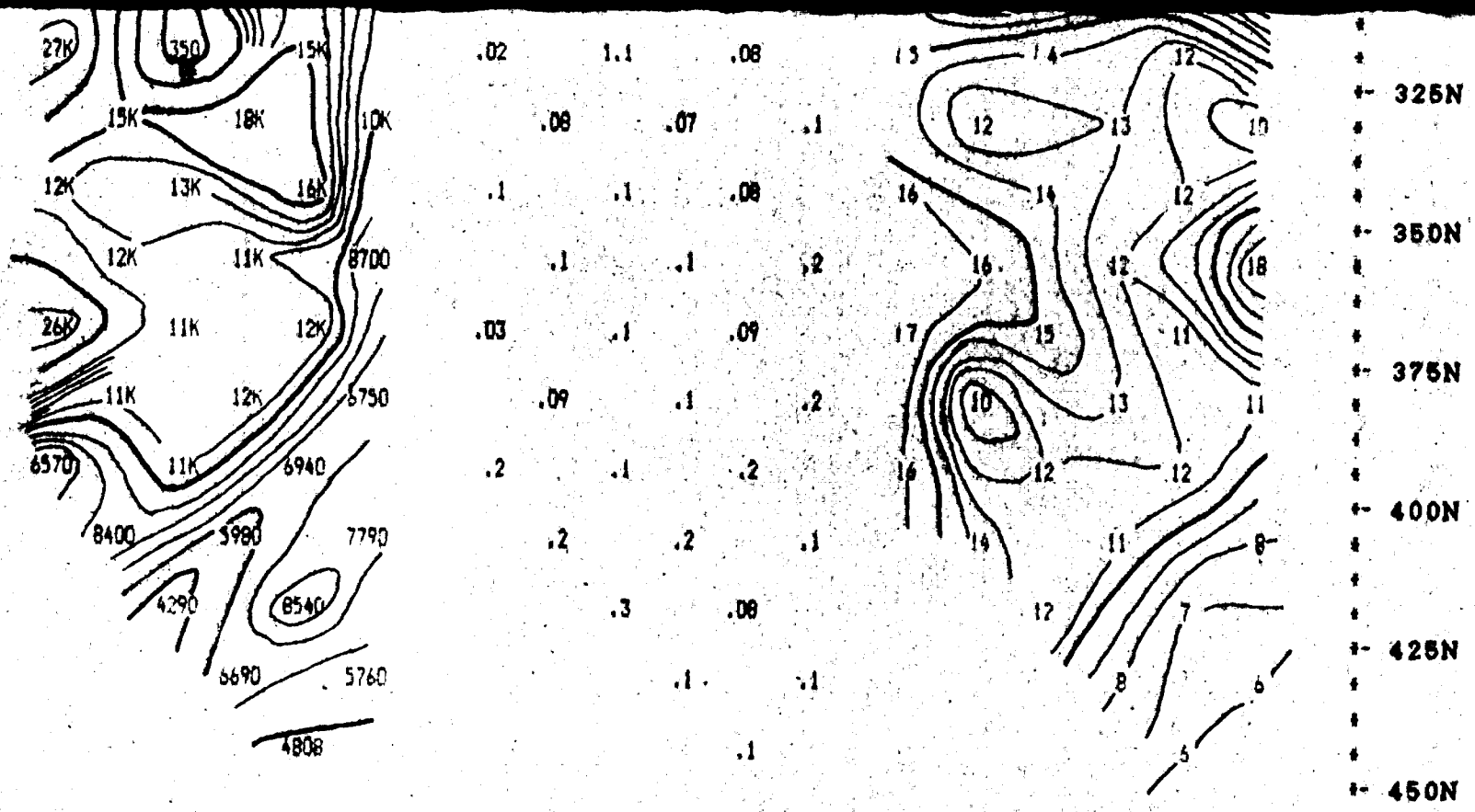
SCALE : 1:1250

RESISTIVITY (ohm - metres)

NORMALIZED CHARGEABILITY

CHARGEABILITY (milliseconds)





Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 2/10/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

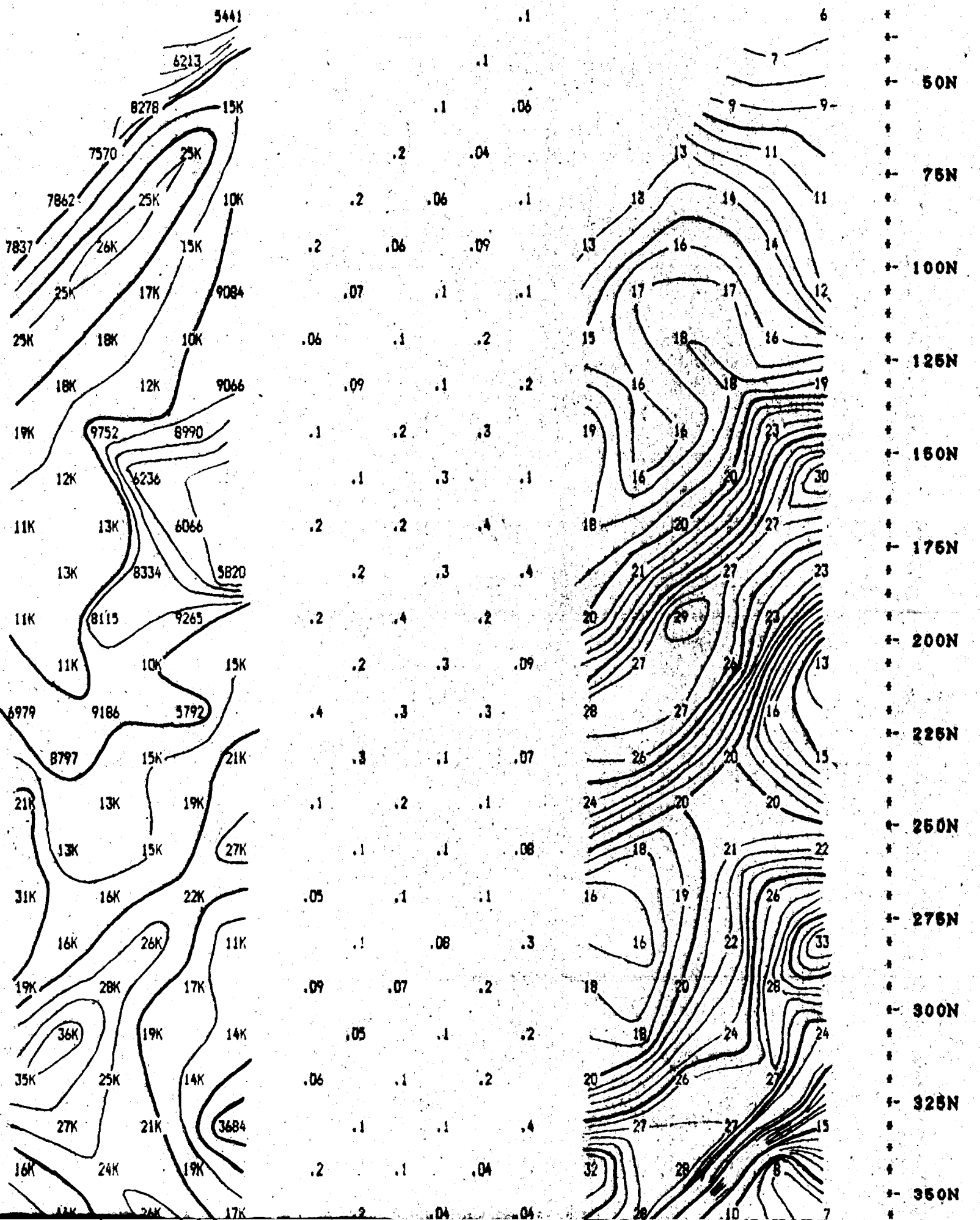
LINE 9 W

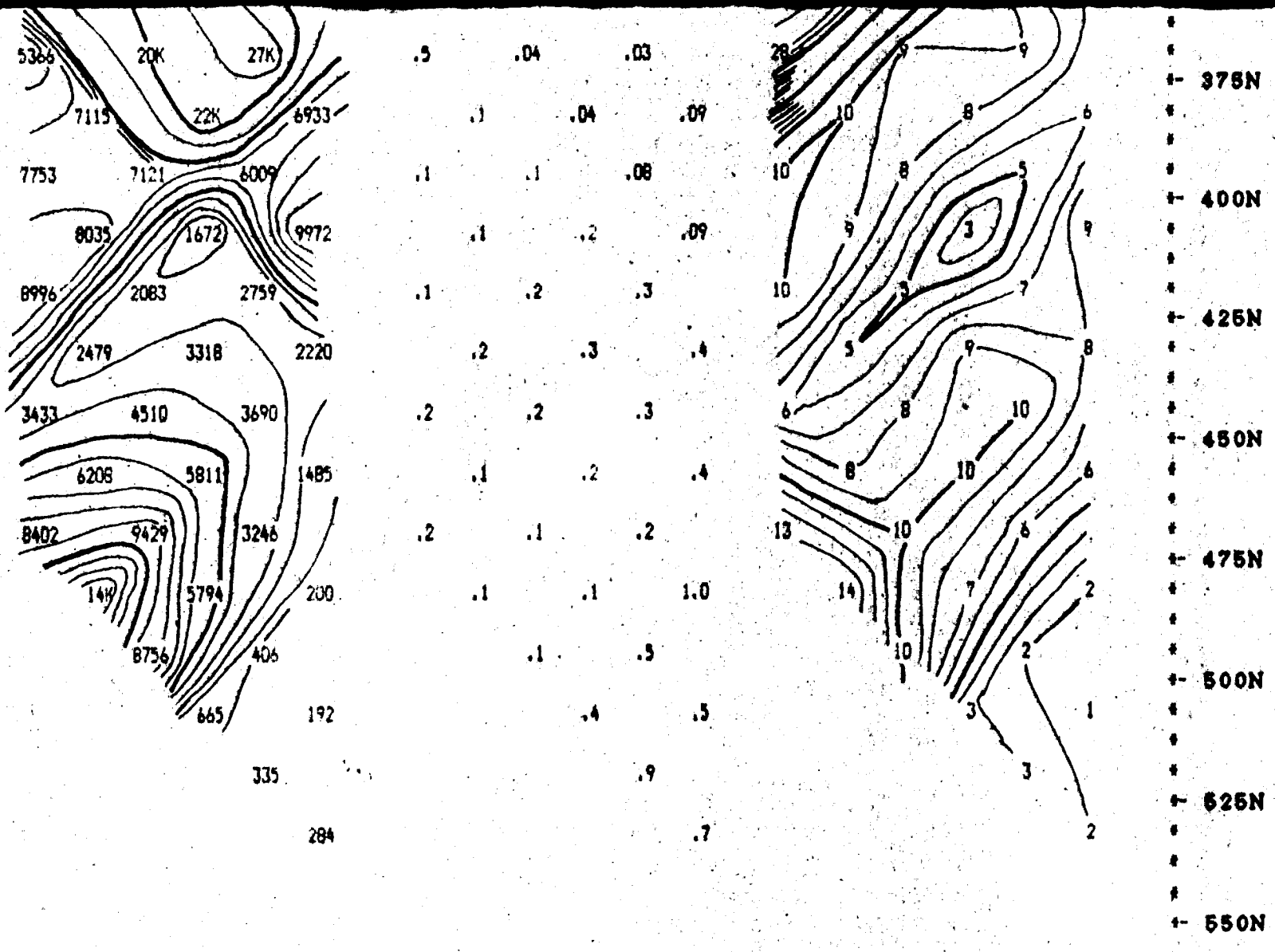
****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

SCALE : 1:1250


RESISTIVITY
(ohm - metres)
NORMALIZED
CHARGEABILITY
CHARGEABILITY
(milliseconds)
N 5
N 3
N 1
N 6
N 4
N 2
50N
75N
100N
125N
150N
175N
200N
225N
250N
275N
300N
325N
350N



Property : EBY TWP

Client : MARY ELLEN RESOURCES

Date of Survey : 1/9/85

Operator : RRM

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : CRONE N-IV

Transmitter : PHOENIX IPT-1

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 450 ms

Integration Time : 900 ms

Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 10 W

****

R.S. MIDDLETON EXPLORATION

SERVICES INC.

****

SCALE = 1:1250

RESISTIVITY
(ohm - metres)

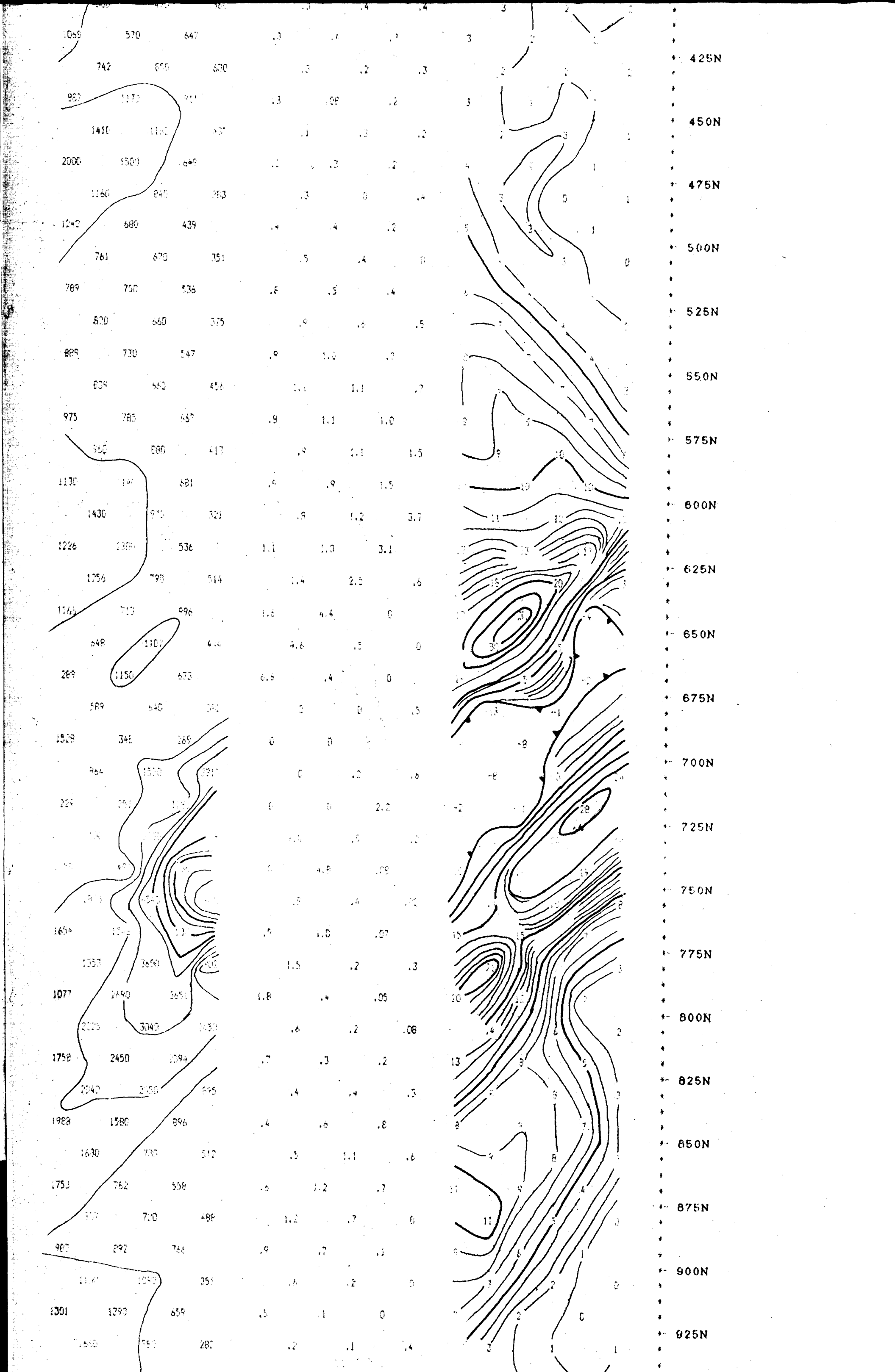
NORMALIZED
CHARGEABILITY

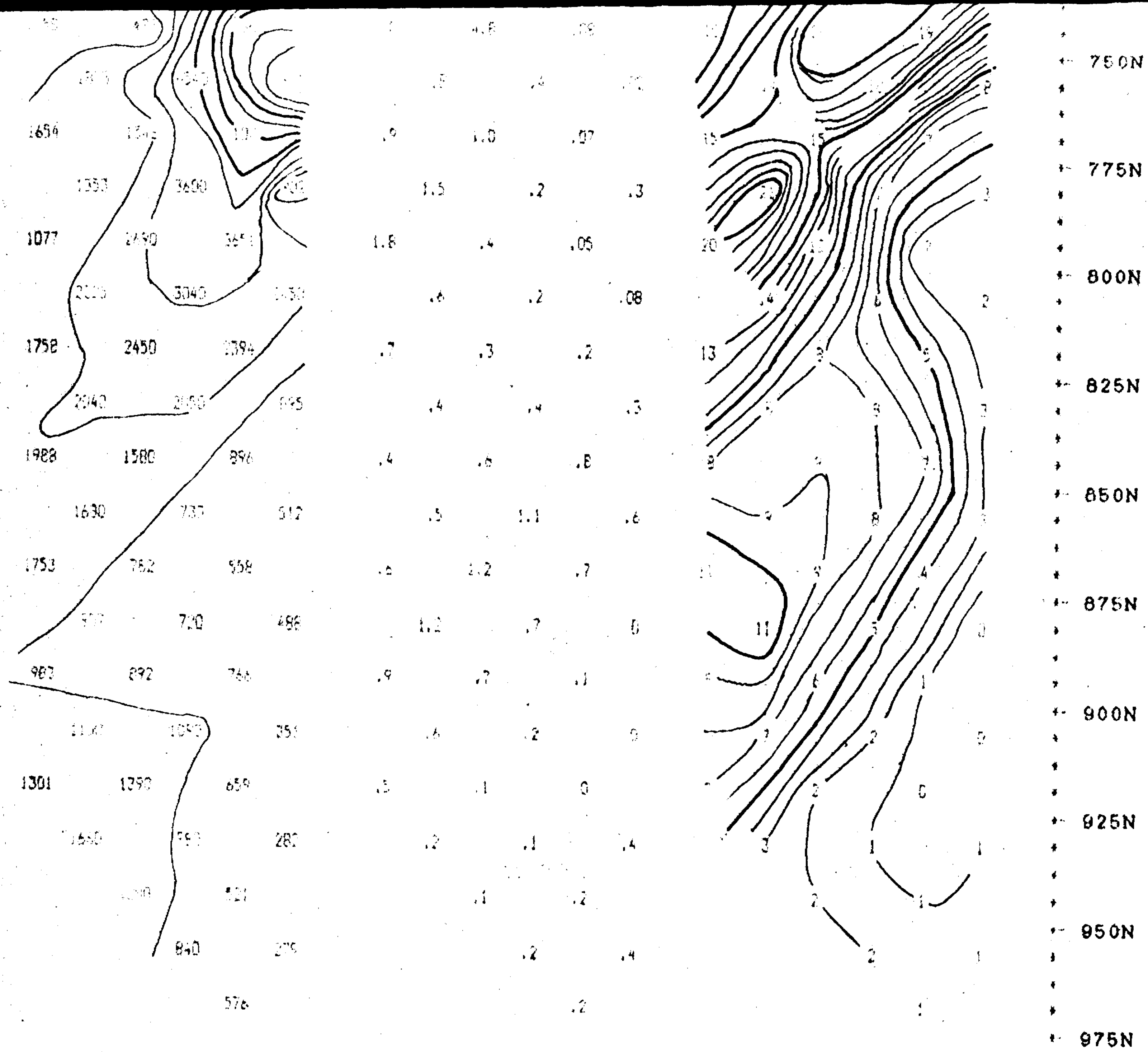
CHARGEABILITY
(milliseconds)

N 5 N 3 N 1

N 6 N 4 N 2

50N
75N
100N
125N
150N
175N
200N
225N
250N
275N
300N
325N
350N
375N
400N
425N
450N
475N


425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N
925N



Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 5/10/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 250 W

****

R.S. MIDDLETON EXPLORATION
SERVICES INC.

****

SCALE : 1:1250

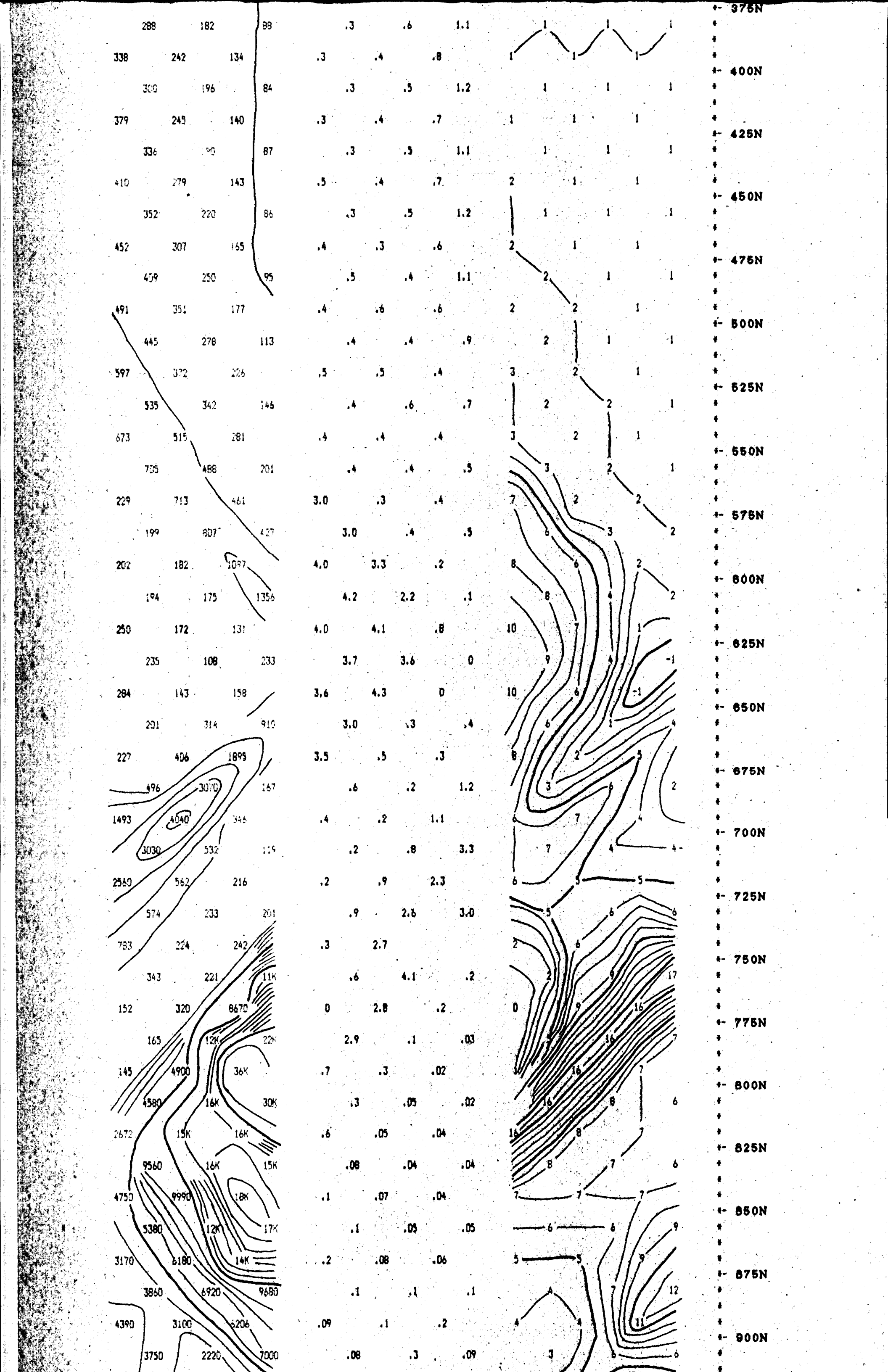
RESISTIVITY
(ohm - metres)

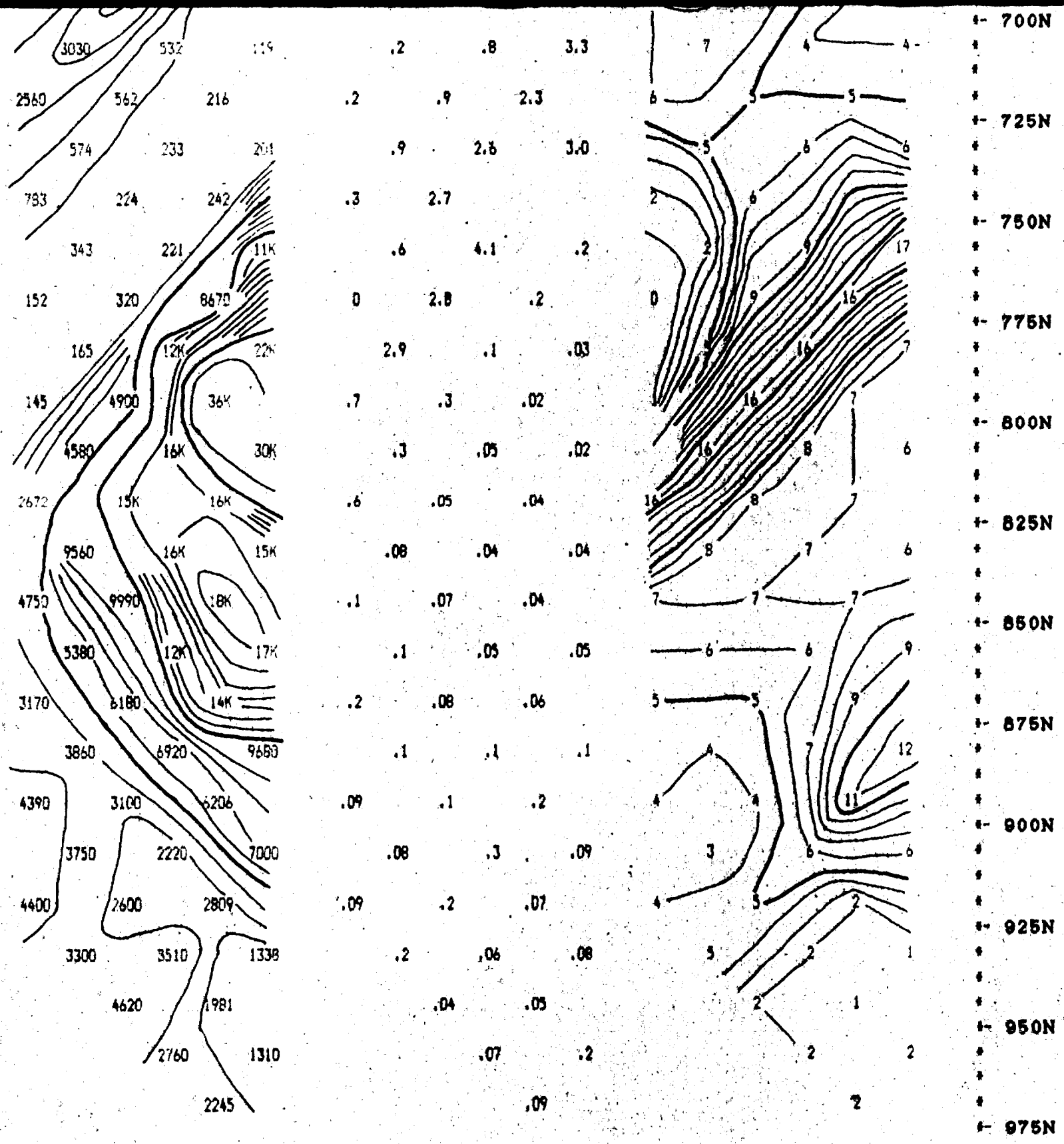
NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)

N 5	N 3	N 1	N 5	N 3	N 1	N 5	N 3	N 1
N 6	N 4	N 2	N 6	N 4	N 2	N 6	N 4	N 2

RESISTIVITY (ohm - metres)	NORMALIZED CHARGEABILITY	CHARGEABILITY (milliseconds)	
	.07	7	25N
9490			
	.1	8	
7820			
6200 5610	.1 .2	7 11	50N
1760 13K	.4 .05	7 6	
1254 3680 17K	1.5 .1 .04	20 5 7	75N
1114 1910 6380	.6 .1 .9	7 2 6	100N
1620 3500 3500	.4 .2 .09	6 6 3	
1630 3000 2189	.4 .2 .2	7 7 4	125N
3140 2090 2230	.3 .2 .2	10 5 4	
2726 2260 2594	.3 .3 .2	8 7 3	150N
2033 3000 483	.4 .2 .6	7 7 3	
1270 2794 681	.5 .2 .7	6 6 5	175N
1750 644 580	.3 .8 .9	5 5 5	
2000 376 552	.3 1.1 1.5	5 4 6	200N
412 250 779	.7 1.6 .6	3 4 5	
415 202 399	.7 1.0 1.0	3 2 4	225N
223 296 710	.9 1.0 .7	2 3 5	
249 330 413	.8 .9 .5	2 3 2	250N
393 490 347	.5 .6 .6	2 3 2	
452 989 459	.7 .3 .4	3 2 2	275N
733 580 139	.4 .3 0	3 2 0	
884 447 215	.3 .4 0	3 2 0	300N
998 269 88	0 0 0	0 0 0	
1090 352 141	.2 0 0	2 0 0	325N
432 180 67	0 0 0	0 0 0	
530 229 128	.2 0 0	1 0 0	350N
286 179 85	0 0 0	0 0 0	
350 225 131	0 0 0	0 0 0	375N
288 182 88	.3 .6 1.1	1 1 1	
338 242 134	.3 .4 .8	1 1 1	400N
300 196 84	.3 .5 1.2	1 1 1	
379 245 140	.3 .4 .7	1 1 1	425N
336 87	.3 .5 1.1	1 1 1	


288 182 88 .3 .6 1.1 1 1 1
338 242 134 .3 .4 .8 1 1 1
300 196 84 .3 .5 1.2 1 1 1
379 249 140 .3 .4 .7 1 1 1
336 90 87 .3 .5 1.1 1 1 1
419 279 143 .5 .4 .7 2 1 1
352 220 86 .3 .5 1.2 1 1 1
452 307 165 .4 .3 .6 2 1 1
409 250 95 .5 .4 1.1 2 1 1
491 351 177 .4 .6 .6 2 2 1
445 278 113 .4 .4 .9 2 1 1
597 372 226 .5 .5 .4 3 2 1
535 342 146 .4 .6 .7 2 2 1
673 515 281 .4 .4 .4 3 2 1
735 486 201 .4 .4 .5 3 2 1
229 713 461 3.0 .3 .4 7 2 2
199 807 427 3.0 .4 .5 6 3 2
202 182 1087 4.0 3.3 .2 8 6 2
194 175 1356 4.2 2.2 .1 8 4 2
250 172 131 4.0 4.1 .8 10 7 1
235 108 233 3.7 3.6 0 9 4 -1
284 143 158 3.6 4.3 0 10 6 -1
201 314 919 3.0 .3 .4 6 1 4
227 406 1898 3.5 .5 .3 8 2 5
496 3070 167 .6 .2 1.2 3 6 2
1493 4040 346 .4 .2 1.1 6 7 4
3030 532 119 .2 .8 3.3 7 4 4
2560 562 216 .2 .9 2.3 6 5 5
574 233 201 .9 2.6 3.0 5 6 6
783 224 242 .3 2.7 2 6
343 221 11K .6 4.1 .2 2 9 17
152 320 8670 0 2.8 .2 0 9 16
165 12K 22K 2.9 .1 .03 16 7
145 4900 36K .7 .3 .02 16 7
4580 16K 30K .3 .05 .02 16 8 6
2672 15K 16K .6 .05 .04 16 8 7
9560 16K 15K .08 .04 .04 8 7 6
4750 9990 18K .1 .07 .04 7 7 7
5380 12K 17K .1 .05 .05 6 6 9
3170 6180 14K .2 .08 .06 5 5 9
3860 6920 9680 .1 .1 .1 4 7 12
4390 3100 6206 .09 .1 .2 4 4 11
3750 2220 7000 .08 .3 .09 3 6 6
375N
400N
425N
450N
475N
500N
525N
550N
575N
600N
625N
650N
675N
700N
725N
750N
775N
800N
825N
850N
875N
900N



Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 4/10/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 350 N

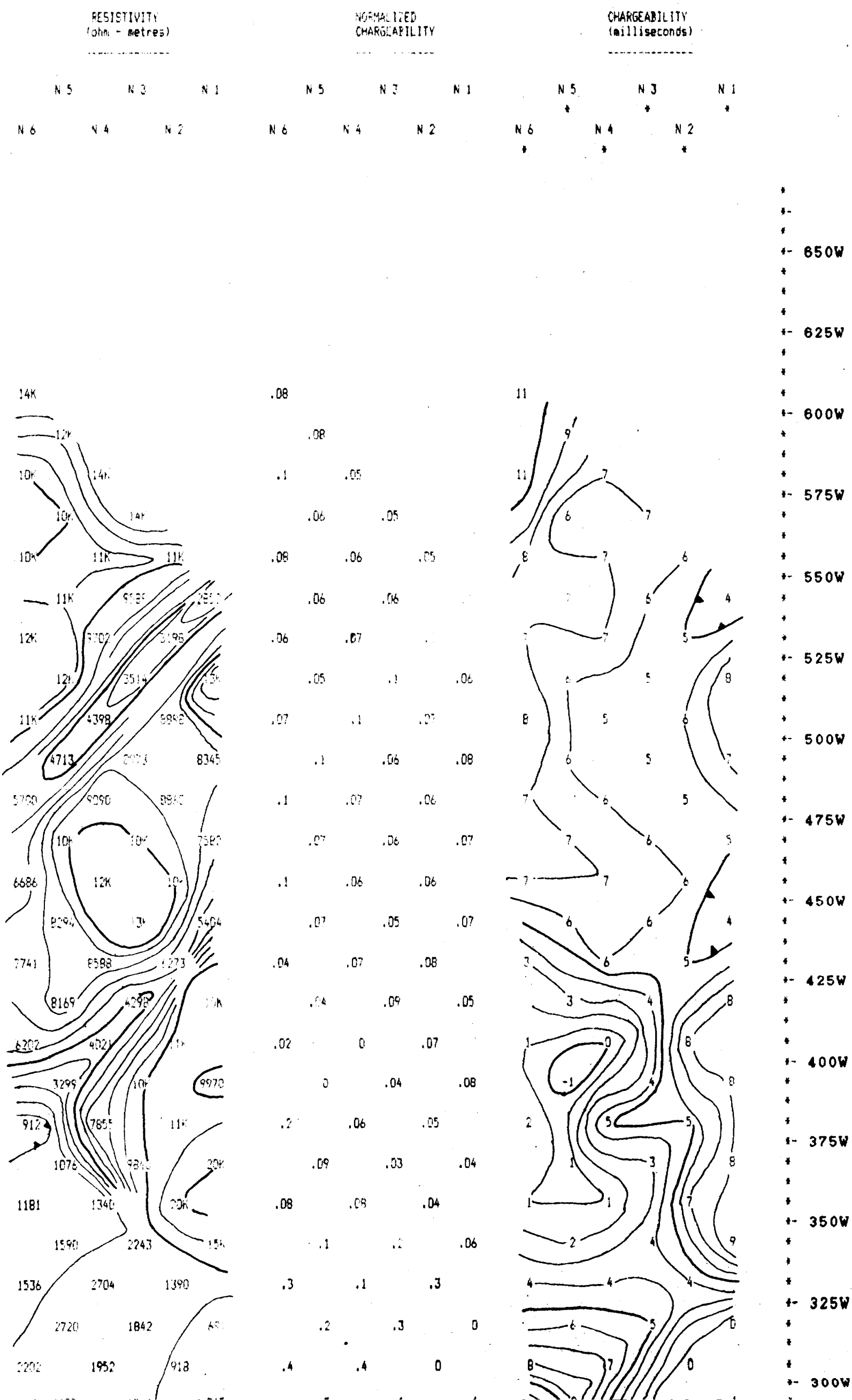
R.A. MIDDLETON EXPLORATION
GEOPHYSICIST

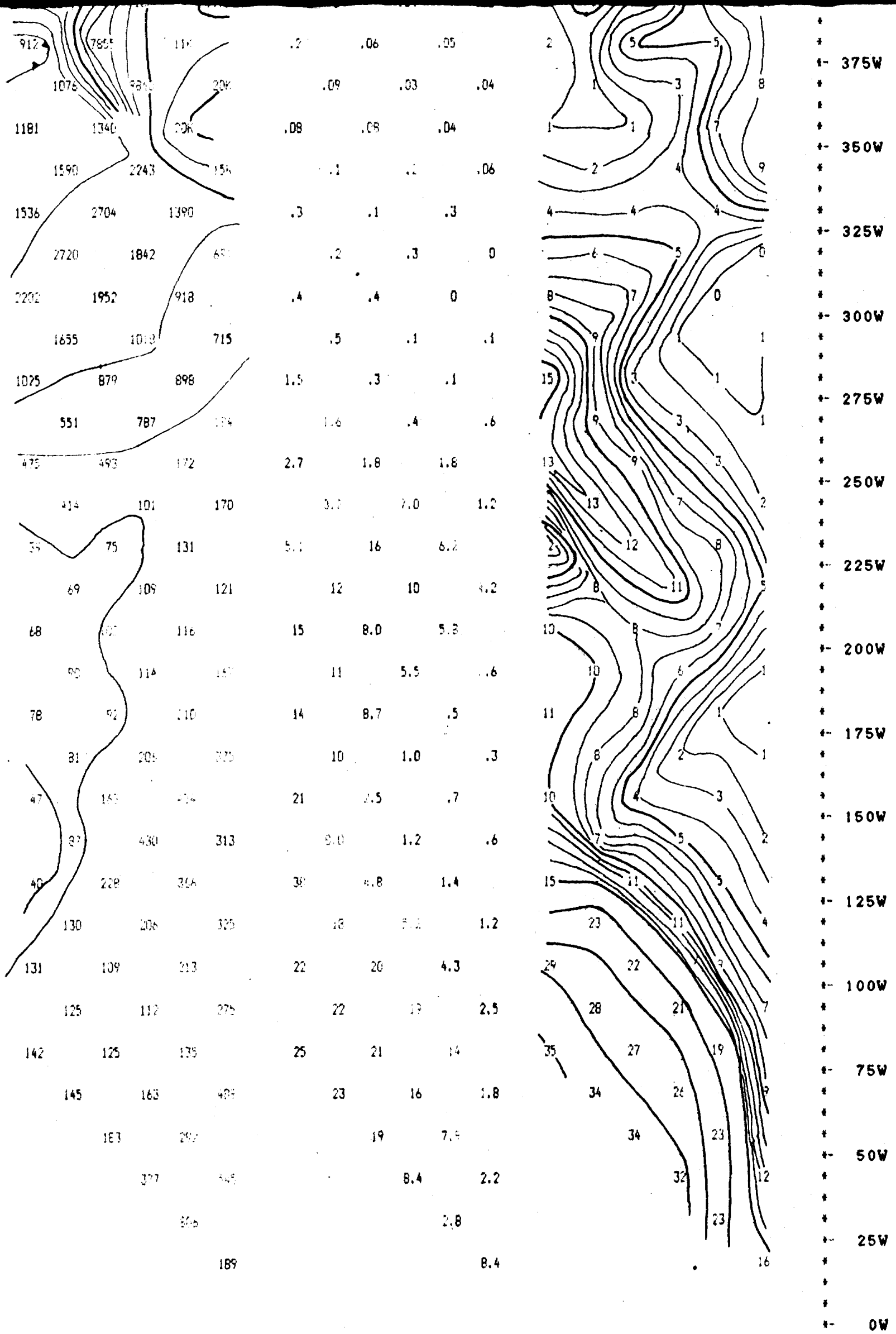
SCALE : 1:1250

RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)

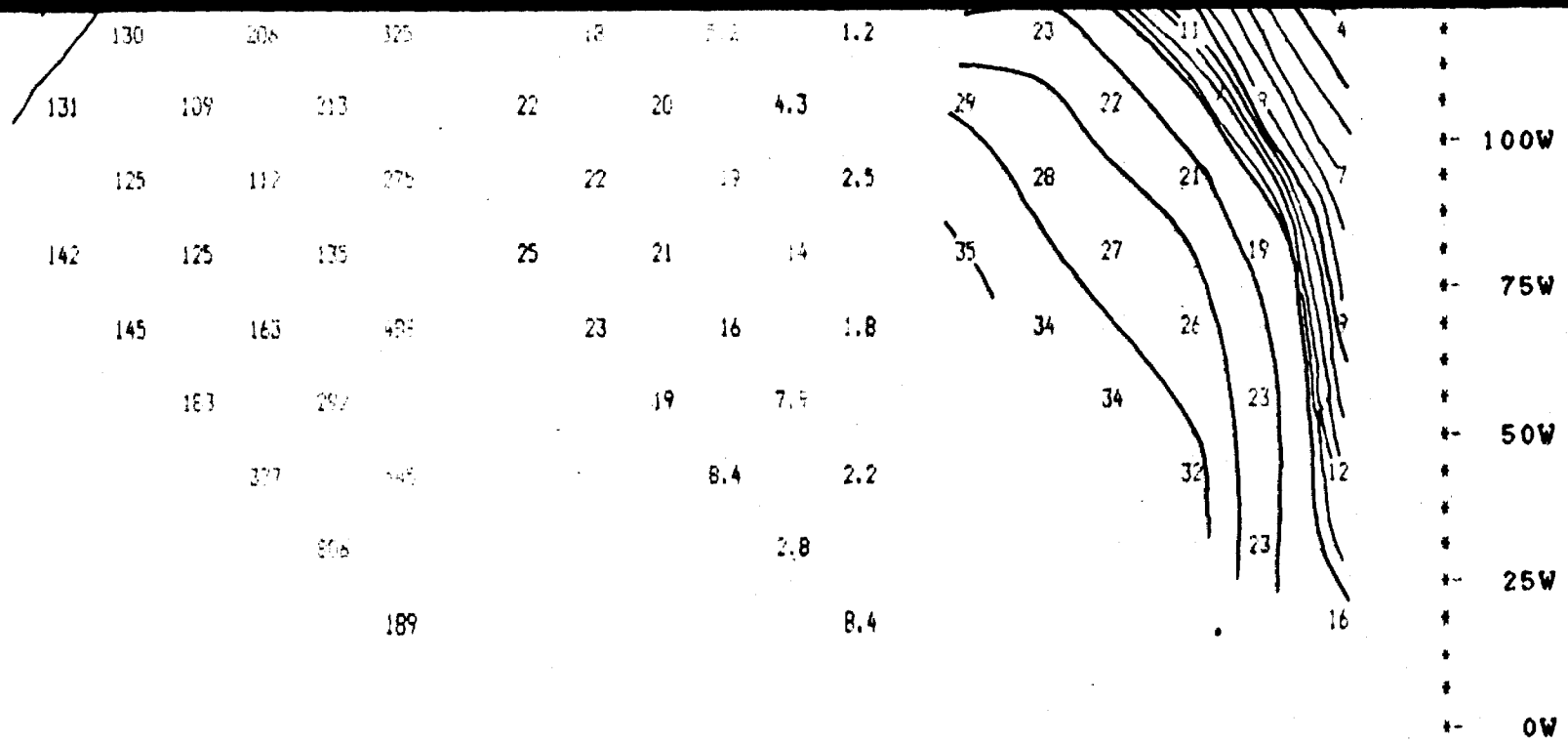




Property : EBY TWP

Client : MARY ELLEN RESOURCES

Date of Survey : 4/8/85



Property : EBY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 4/8/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : HUNTEC 2500
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 9 N

****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

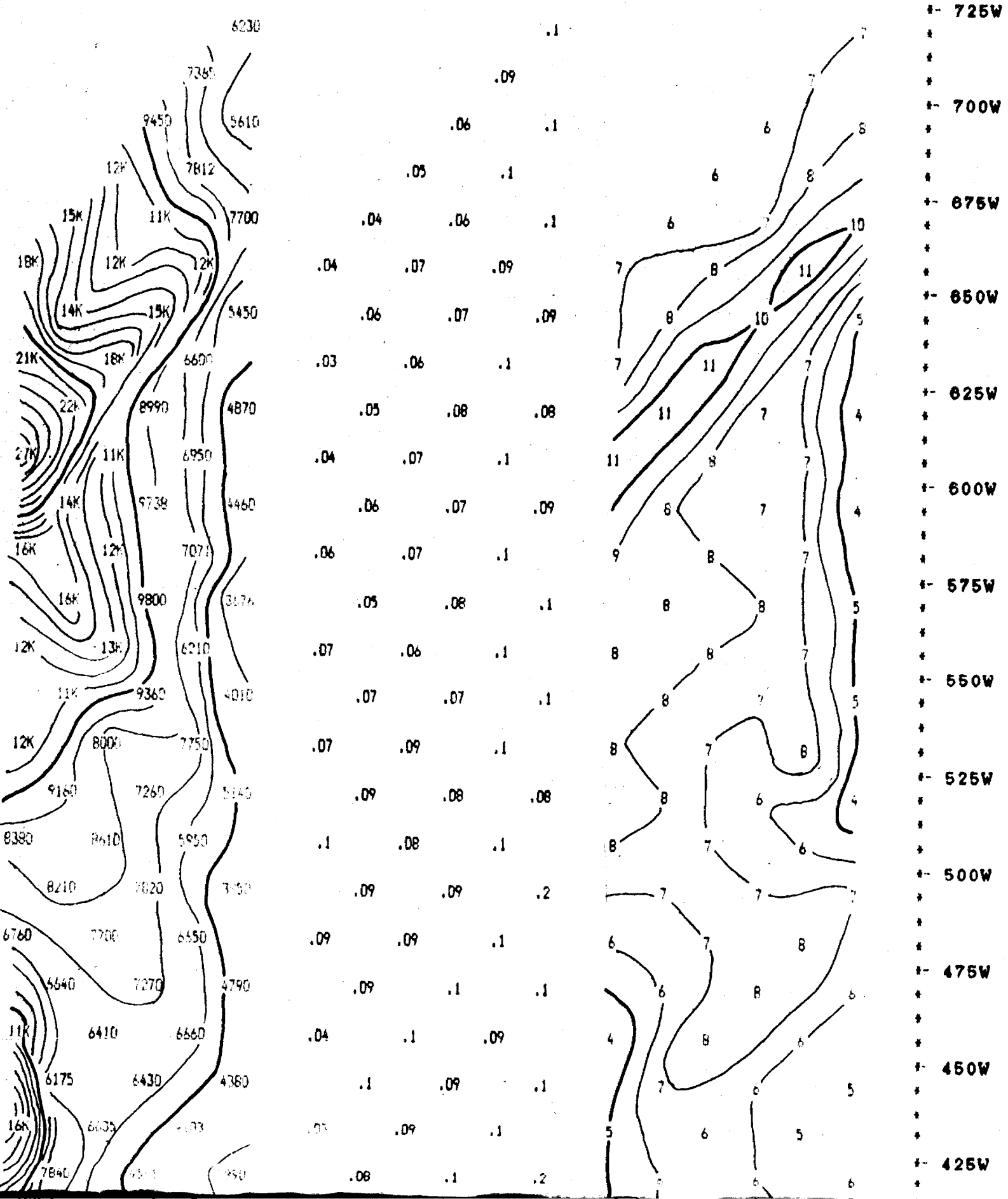
SCALE = 1:1250

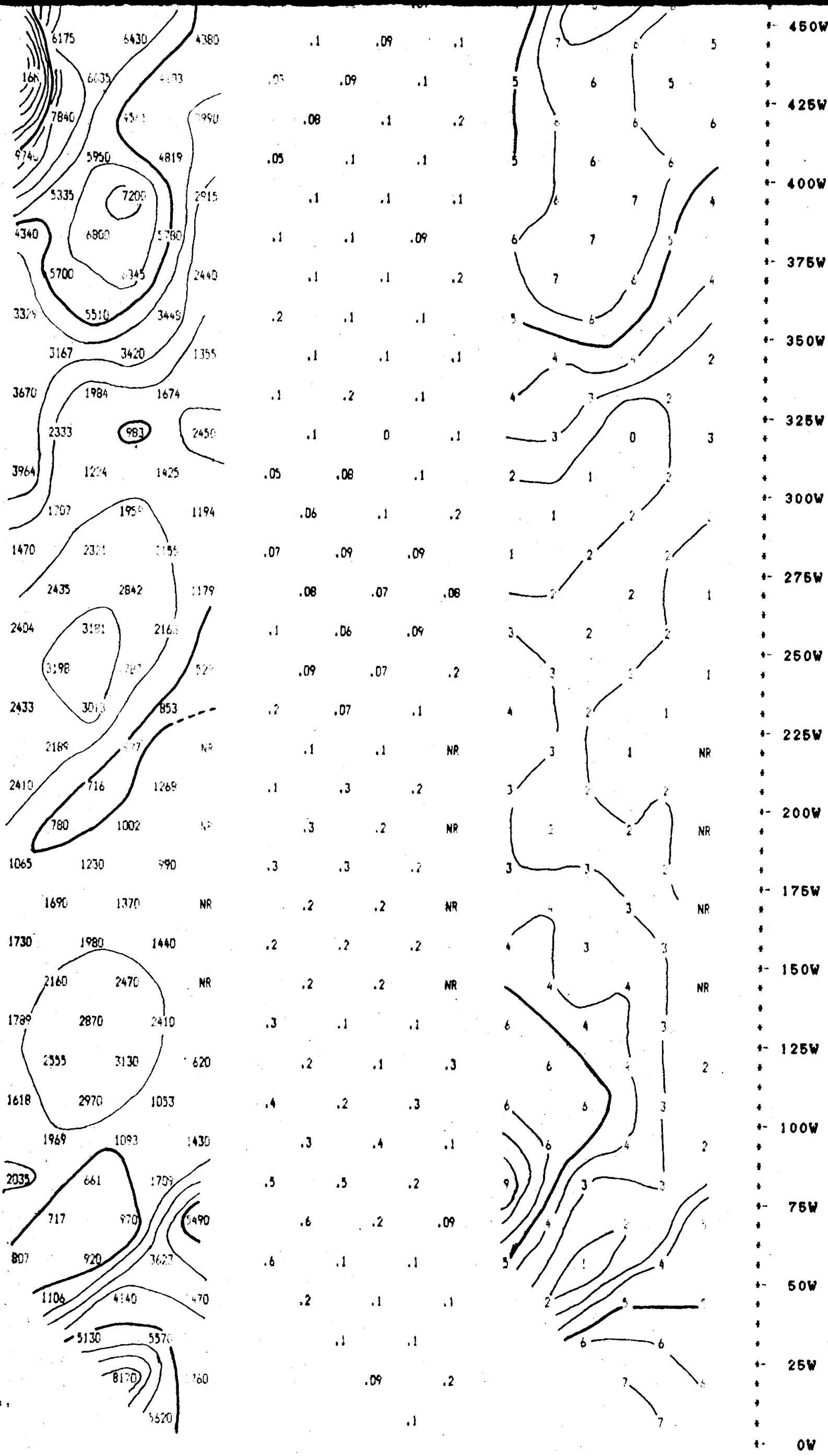
RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)

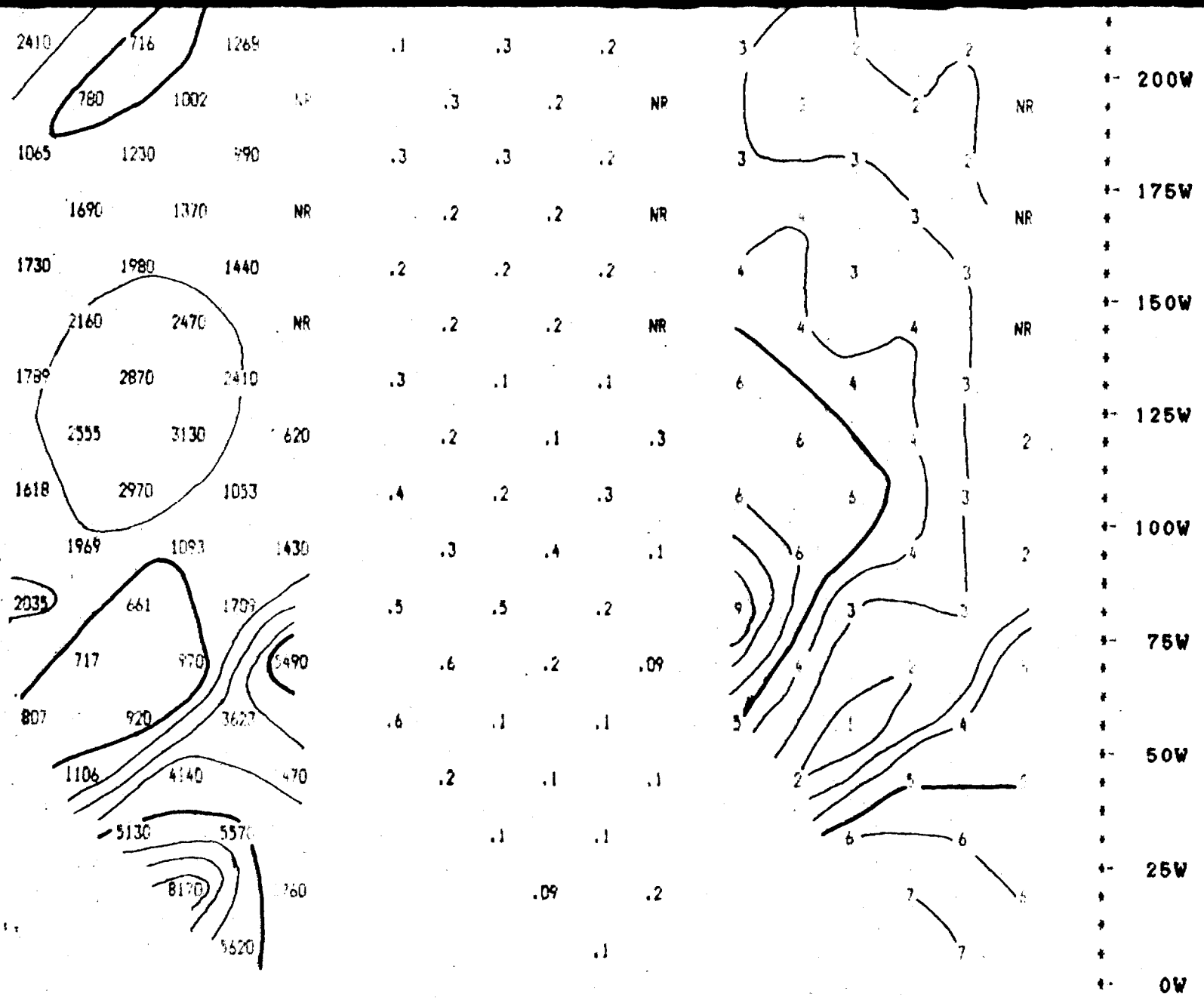
N 5 N 3 N 1 N 6 N 4 N 2





Property : ERY TWP.

Client : MARY ELLEN RESOURCES



Property : ERY TWP.

Client : MARY ELLEN RESOURCES

Date of Survey : 25/9/85

Operator : CDJ

Electrode Array : POLE - DIPOLE

Mode : TIME DOMAIN

Receiver : SCINTREX IPR-11

Transmitter : SCINTREX TSQ-3

Pulse Time : 2 Sec on 2 Sec off

Delay Time : 30 ms

Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 11 N

****

R.S. MIDDLETON EXPLORATION SERVICES INC.

****

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

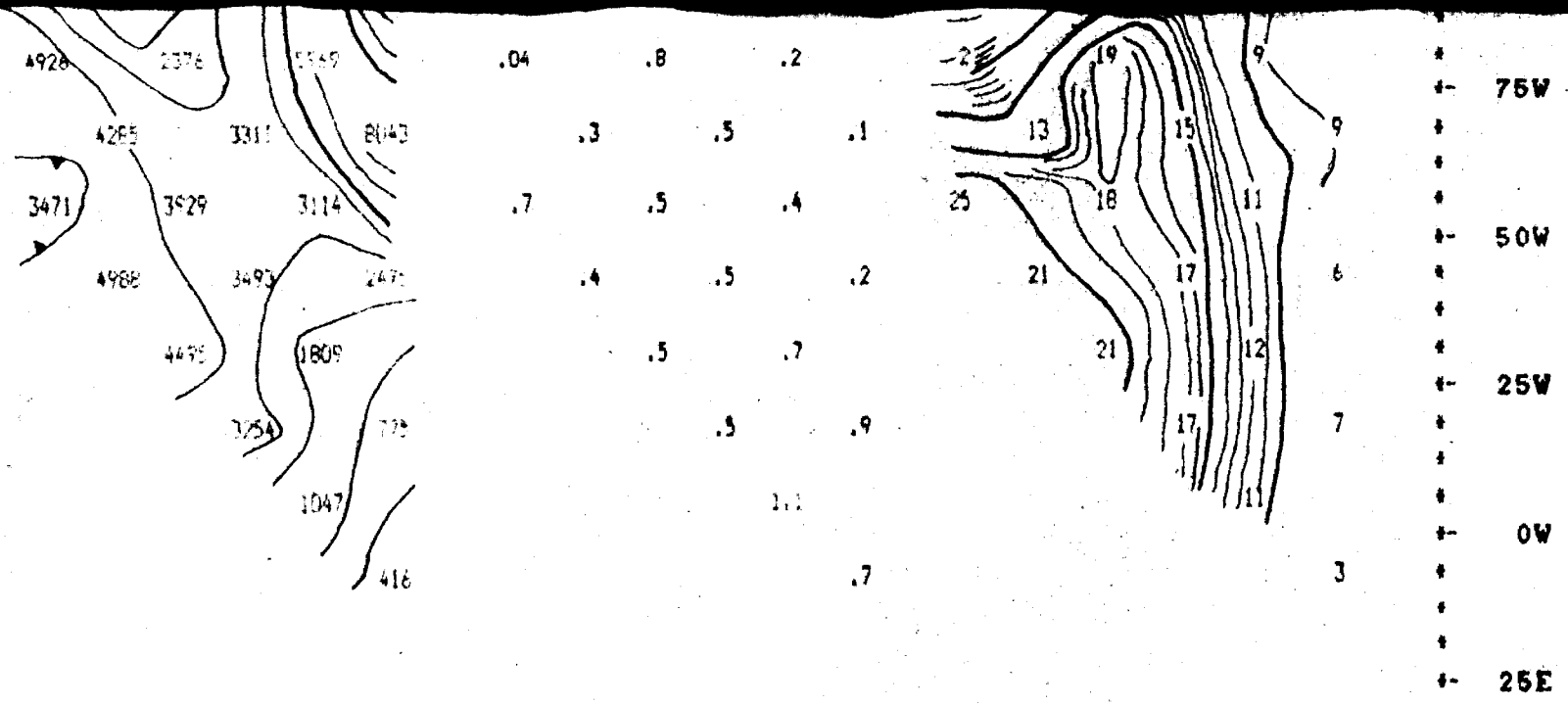
NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)

N5 N3 N1 N5 N3 N1 N5 N3 N1

N6 N4 N2 N6 N4 N2 N6 N4 N2





Property : ERY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 12/9/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : CRONE 2550
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 12 N

****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

SCALE : 1:1250

RESISTIVITY
(ohm - metres)

NORMALIZED
CHARGEABILITY

CHARGEABILITY
(milliseconds)

CHARGEABILITY PROF

N 5 N 3 N 1 N 5 N 3 N 1 N 5 N 3 N 1

N 6 N 4 N 2 N 6 N 4 N 2 N 6 N 4 N 2

-10 0 10 20 30

675W

650W

625W

600W

575W

550W

525W

500W

475W

450W

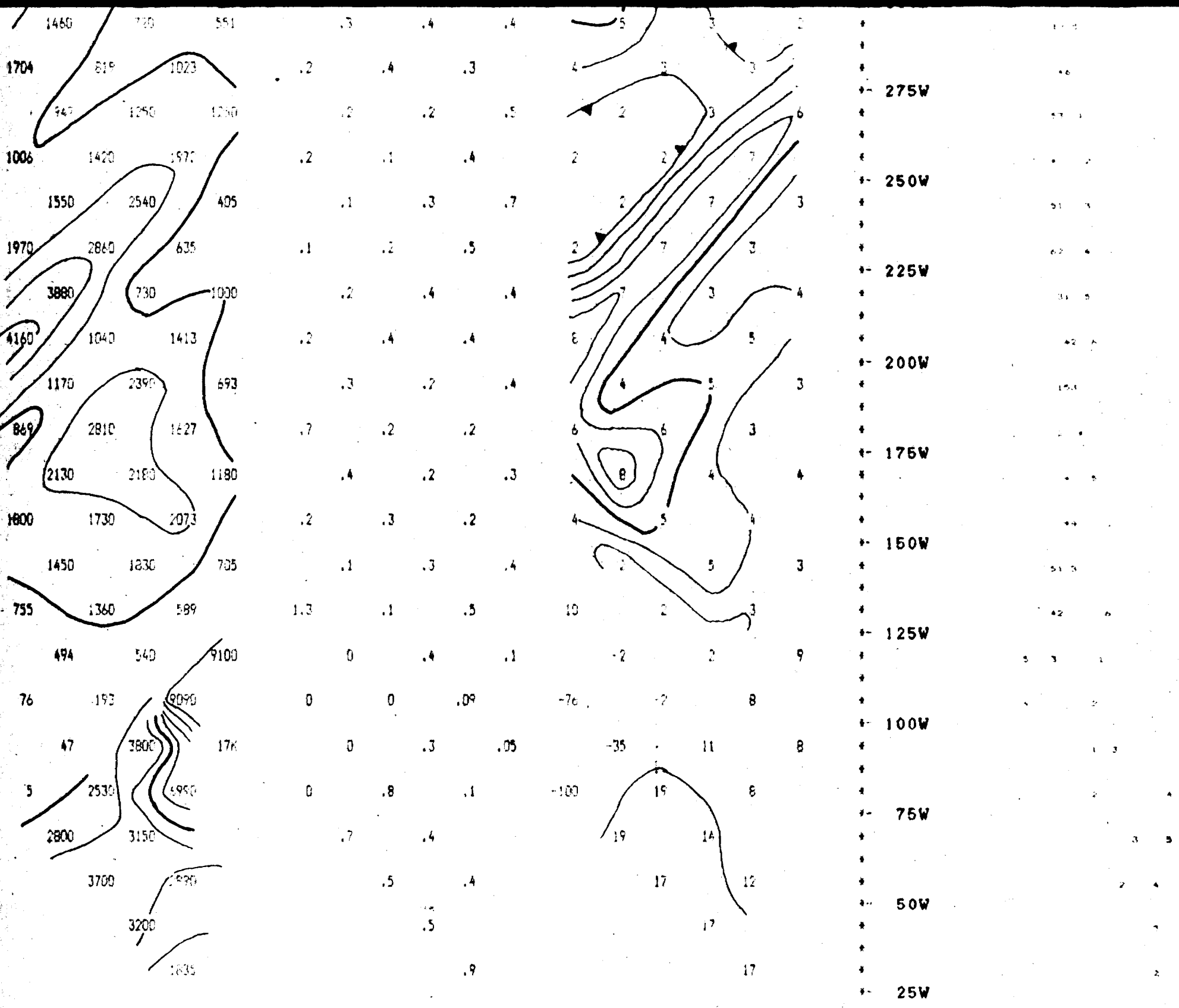
425W

400W

375W

350W

325W



Property : EBY TWP.
Client : MARY ELLEN RESOURCES

Date of Survey : 27/9/85
Operator : CDJ
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : SCINTREX TSQ-3
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 12 N

****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

SCALE : 1:1250

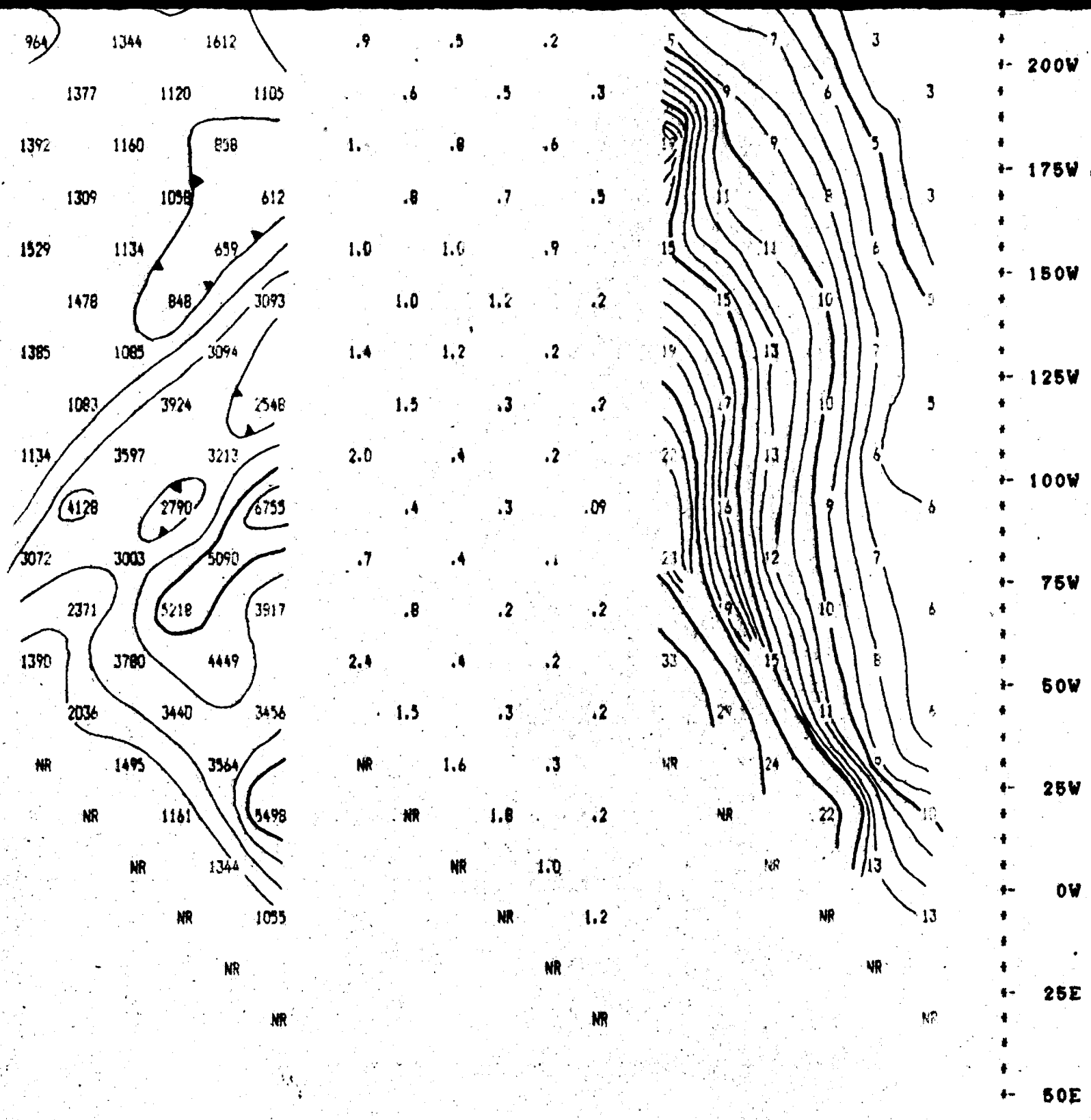
RESISTIVITY (ohm - metres)

NORMALIZED CHARGEABILITY

CHARGEABILITY (milliseconds)

	N 5		N 3		N 1
N 6		N 4		N 2	

RESISTIVITY	NORMALIZED CHARGEABILITY	CHARGEABILITY	
3343	.2	6	
4413	.1	6	
4815 2670	.1 .2	7 6	
4695 2386	.1 .3	7 7	600W
5580 2136 3556	.1 .3 .3	6 6 9	
3668 2237 3414	.2 .3 .3	6 6 9	575W
1489 4049 2356	.5 .3 .3	8 10 8	550W
2698 2620 2801	.1 .3 .3	4 8 8	
4584 2051 2161	.2 .4 .5	7 8 10	525W
3449 3570 1904	.2 .2 .6	7 7 11	
2958 3461 1746	.2 .3 .5	7 10	500W
3647 2727 3599	.2 .3 .3	7 9 9	
3624 2896 1361	.3 .3 .4	10 9 5	475W
17K 2770 1379	.02 .3 .4	10 5	
6687 1916 1385	.1 .4 .4	8 7 5	450W
5196 2884 1492	.2 .2 .3	12 7 4	
3078 2423 965	.3 .2 .4	9 5 4	425W
3966 2356 1588	.2 .3 .3	9 6 4	
3327 1478 1095	.2 .3 .3	5 5 3	400W
3657 1900 1219	.2 .3 .3	6 5 4	
2230 1965 346	.2 .2 .6	5 4 2	375W
3028 2298 501	.2 .2 .4	6 5 2	
3164 976 1272	.2 .5 .2	6 3 2	350W
3174 779 1301	.2 .4 .2	6 3 3	
1008 1817 864	.4 .2 .2	4 3 2	325W
1203 2171 1455	.3 .2 .2	4 4 3	
2850 1830 953	.1 .2 .2	4 3 2	300W
3279 2421 1347	.2 .1 .2	5 3 2	
3077 1996 424	.2 .5	4 3 2	275W
3704 2551 770	.4	5 3 3	
3213 1204 739	.09 .3 .4	3 3 3	250W
1869 1680 1432	.3 .2 .2	6 4 3	
1047 2185 779	.6 .2 .4	6 4 3	225W



Property : EBY TWP
Client : MARY ELLEN RESOURCES

Date of Survey : 4/8/85
Operator : RRM
Electrode Array : POLE - DIPOLE
Mode : TIME DOMAIN
Receiver : SCINTREX IPR-11
Transmitter : HUNTEC 2500
Pulse Time : 2 Sec on 2 Sec off
Delay Time : 30 ms
Integration Time : 360 ms
Slice # 7

IP Pseudosections for N = 1 to 6

'a' Spacing = 25 M

LINE 1364 N

****
R.S. MIDDLETON EXPLORATION
SERVICES INC.
****

12+00W 11+00W 10+00W 9+00W 8+00W 7+00W 6+00W 5+00W 4+00W 3+00W 2+00W

14+00N 13+00N 12+00N 11+00N 10+00N 9+00N 8+00N 7+00N 6+00N 2000

South Branch Kirkland-Larder Lake Break

P 18837

P 18227

ROGICK - ELLIOT - CLARK

GEORGE WALTERS

P 17402

P 17403

P 17404

SOUTH ROAD FAULT

BOLAND ROAD

KENOGAMI LAKE

KENOGAMI LAKE

OPEN WATER

OPEN WATER

ME 85-1 ME 85-2 ME 85-3 ME 85-4 ME 85-5 ME 85-6 ME 85-7 ME 85-8 ME 85-9

1+00E 2+00E 3+00E 4+00E

THE LINE 8+17N

x V6(d)

V6(d)

V6(a)

OM-110
63.4957

NORTH SHEET

LEGEND

Cenozoic Pleistocene and Recent — silt, sand, clay, till

Unconformity

Proterozoic Huronian Cobalt Group Sediments — Hu(arg) argillite

Unconformity

Archean

- Intrusive Contact
- I(d) diabase
- I(l) lamprophyre
- I(sm) mafic syenite
- I(sq) quartz syenite
- I(g) gabbro

Timiskaming Series Sediments — Ti(congl) conglomerate, (tr) trachyte

Unconformity

Interflow Sedimentary Units — S(ch) chert, S(if) banded iron formation; S(carb) green carbonate, dolomite

Volcanics

Kinojevis and Larder Lake Group Fe Tholeiites — V7 (undivided), (a) massive, (b) fractured or sheared, (c) pillowed, (d) tuffaceous, (e) flow breccia

Kinojevis and Larder Lake Group Mg Tholeiites — V6 (undivided), (a) massive, (b) fractured or sheared, (c) pillowed, (d) tuffaceous, (e) flow breccia

Larder Lake Group Komatiites — V5 (undivided), (a) with spinafex, (b) with polygonal jointing

- Outcrop boundary
- Small outcrop, station
- Float
- Geological contact, defined, assumed
- Strike and dip of bedding, inclined, vertical, with tops determination
- Strike of volcanic flows, with tops determination
- Strike of volcanics or bedding, no tops determined
- Strike and dip of shearing, inclined, vertical, no dip determined
- Anticline
- Syncline
- Fault
- Drag folding
- Pit
- Trench
- Shaft with depth in meters
- Silicification
- Tectonic breccia
- py pyrite
- cs calcite stringers
- qs quartz stringers
- qv quartz vein
- ves vesicular basalt
- spher spherulites
- mag magnetic attraction
- carb carbonatization
- drill hole location
- cabin
- claim post
- claim line
- cabin
- swamp
- stream
- trail
- road
- (66) King's Highway
- beaver dam
- boundary of slash, gravel pit, stripped area

N

EBY GROUP

DETAILED SURFACE GEOLOGY

EBY TOWNSHIP

DISTRICT of TIMISKAMING

LARDER LAKE MINING DIVISION

Scale 1cm = 12.5m

MARY ELLEN RESOURCES

PROJECT No. M-002 | DATE: SEPT. 1985 | DRAWING No. 4

Geology by S. Carmichael | N.T.S. 42 A/SE



LEGEND

IP anomaly: Strong

Medium

Weak

Above line or to left: anomalous response at or near surface
Below line or to right: anomaly at depth

Arrows delineate extent of Coverage → ←

REGISTERED PROFESSIONAL ENGINEER
Roger J. Cavén
PROVINCE OF ONTARIO

Roger Cavén
December 23, 1985

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.

for MARY ELLEN RESOURCES

EBY GROUP
LARDER LAKE MINING DIVISION

INDUCED POLARIZATION INTERPRETATION

Scale = 1:2500

Drawn by Roger J Cavén, PEng — December 1985

42A01SE0171 63.4957 EBY