MACMILLAN JOINT VENTURE

PROGRESS REPORT NUMBER I

GEOPHYSICAL SURVEYS

FEBRUARY - MAY 1975

SUE CLAIMS 1-1070 INCLUSIVE

WHITEHORSE AND MAYO MINING DISTRICTS

N.T.S. 105 L 10, 14, 15

5

135° 00' W Longitude

62° 48' N Latitude

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $ 235,800.00

Resident Geologist or
Resident Mining Engineer

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

S.R. BAXTER
Supervising Mining Recorder
for Commissioner of Yukon Territory

FIELD SUPERVISION BY G. W. GRANT

TORONTO, ONTARIO,
SEPTEMBER 2, 1975

C. K. O'CONNOR, P.Eng.
D. B. SUTHERLAND, P.Eng.

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SUMMARY AND CONCLUSIONS

Conwest Exploration Company Limited acquired by staking in August 1974 a total of 1070 contiguous mineral claims known as the Sue claim group, located approximately 145 miles north of Whitehorse, Yukon Territory. These claims which form the basis for the MacMillan Joint Venture in which U.S. Steel Western Hemisphere Inc. is the other participant, were located to cover geological formations believed favourable for the occurrence of lead-zinc-silver mineralization similar to that which occurs 60 to 80 miles south-east along strike in the Vangorda Creek area.

Previous exploration in the area of the claims was very limited (Conwest 1966-67) and is not considered to have eliminated the potential.

The claims are currently accessible only by air or winter tractor road.

A major programme of gridding and geophysical surveys was undertaken during the winter and spring of 1975 to commence an evaluation of the claims. Included in this work programme were:

a) photogrammetric mapping for 1" = 1000' base maps;

b) an 11.5 mile extension of an existing winter tractor road to the base camp on the claim group;

c) 353 miles of bulldozer gridding including baselines;

d) 76 miles of hand cut grid;

e) chaining and picketing of all grid lines at 100 foot intervals;

f) 410.7 miles of magnetometer surveys;

g) 400.5 miles of electromagnetic surveys;

h) 33.6 miles of levelling and gravity surveys.

Total project cost was $282,268.

The electromagnetic method has been an effective mapping tool to locate and outline graphitic horizons that are favourable hosts for massive sulphide mineralization of the Anvil-Vangorda type. Ninety-five electromagnetic zones varying in length from 1000 to 22000 feet and in width from 1 to 7000 feet have been interpreted from the data. Some of the strong electromagnetic responses may be due to sulphides but no system has been found to differentiate the sulphide and graphite anomalies. Of the 95 conductive zones, 17 have associated or flanking magnetics and are regarded more favourably as potential sulphide sources.

The magnetic survey has outlined 37 individual responses and zones not associated with conductive anomalies. These will be of value for the geologic mapping.

Gravity surveying has been completed over several conductive zones on the eastern half of the grid. Five positive highs have been interpreted from the results.

Anomaly G-1, is the only gravity high to warrant a first priority classification. It measures 1900 feet N-S and has an estimated strike length of 3000 feet. The peak value on Line 38W is 0.7 milligals, with 0.5 milligals on the adjacent lines. Preliminary calculations show that it could be due to a sulphide slab 60 feet thick, located at a depth of 70 feet with a density contrast of 1.0 and a total mass in the order of 18 million tons.

The remaining four gravity anomalies are second priority targets that warrant further investigation. Anomaly G-2 displays 1.2 milligals but may be a gabbro intrusive. Anomaly G-3 is a single line high and apparently small in size. A buried ridge may be the cause of G-4 while G-5 may be an outcrop hill flanked by overburden.

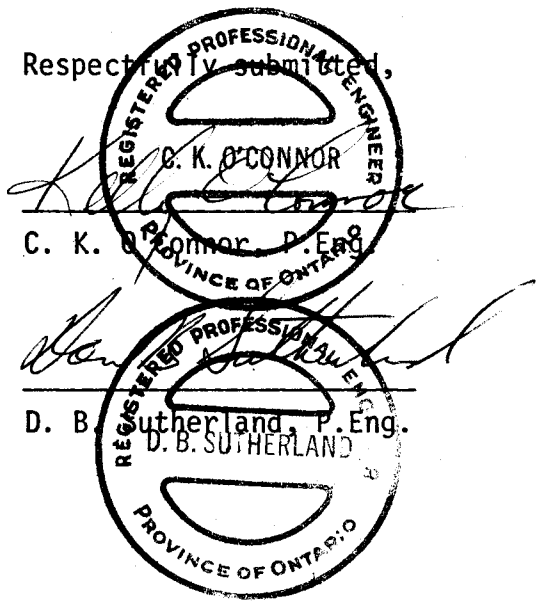
Recommendations

Previous diamond drill holes (Conwest 1966-67) should be accurately located with respect to the grid to determine if any of the anomalies are satisfactorily explained.

The gravity surveying should be continued to cover the remaining electromagnetic and magnetic zones.

Geologic mapping and geochemical soil sampling should be utilized to assist in the assignment of priorities for drilling the geophysical targets.

Respectfully submitted,



C. K. O'Connor, P.Eng.

D. B. Sutherland, P.Eng.

Toronto, Ontario,
September 2, 1975.

INTRODUCTION

This report describes the results of ground geophysical surveys carried out on the Sue claim group between February and May, 1975.

The claims were staked by Conwest Exploration Company Limited in the latter half of August 1974, and are currently held in trust by Conwest for the MacMillan Joint Venture (Conwest Exploration Company Limited and U.S. Steel Western Hemisphere Inc.).

The claims were located to cover geological formations believed to be similar to those at Vangorda Creek some 70 miles to the south-east.

The geophysical surveys completed to date and described herein were carried out in an effort to locate anomalies indicative of massive sulphide lead-zinc mineralization of the Anvil-Vangorda type, of sufficient size and concentration to warrant exploitation by open cut mining methods.

Given these criteria, a grid line interval of 1000 feet was chosen with stations spaced 100 feet apart covering almost the entire 1070 claim group and a combination of electromagnetic, magnetic and gravity survey methods selected as the optimum combination of geophysical techniques to detect the type of target sought.

A total of 429 line miles of grid including baselines were established of which 353 miles were dozer cut and 76 miles hand cut and chained.

Kenting Earth Sciences Limited were contracted to prepare 1 inch equals 1000 foot topographic base maps at a contour interval of 20 feet covering an area of 107 square miles. These maps were subsequently used for compilation and interpretation of the geophysical surveys.

PROPERTY

The Sue claim group consists of 1070 contiguous mineral claims staked between August 15 and August 28, 1974 and described more fully below:

Claim No.	Grant Number	Date Recorded	At
1- 748	80651-81398	September 11, 1974	Whitehorse
749- 848	90401-90500	September 11, 1974	Whitehorse
849- 850	96681-96682	September 3, 1974	Mayo
851- 870	90501-90520	September 11, 1974	Whitehorse
871,72,73,74	96685,86,83,84	September 3, 1974	Mayo
875- 896	90521-90542	September 11, 1974	Whitehorse
897- 898	96687-96688	September 3, 1974	Mayo
899-1008	90543-90652	September 11, 1974	Whitehorse
1009-1010	96675-96676	September 3, 1974	Mayo
1011-1040	90653-90682	September 11, 1974	Whitehorse
1041-1044	96677-96680	September 3, 1974	Mayo
1045-1070	90683-90708	September 11, 1974	Whitehorse

The above claims are all located on claim sheets 105 L 10, 14 and 15 and have all been transferred and are now registered in the name of Conwest Exploration Company Limited.

LOCATION AND ACCESS

The Sue claim group lies north of the Pelly River and south of the MacMillan River just east of their junction, 146 miles due north of Whitehorse, Yukon Territory.

There is no all weather road access to the claims. A winter tractor road can be used from Pelly Crossing on the Klondike Highway, 156 miles north of Whitehorse, to freight supplies to the property during the period January to April, a distance of about 60 miles from the Highway. This winter road which was originally built in 1966 to Detour Lakes on the south side of the Pelly River, was extended this past winter to the main base camp at Oz Lake in the north central part of the Sue claim group, a distance of 11½ miles, as shown on the Property Location Map. It is normally necessary to construct an ice bridge over the Pelly River but in this particular instance the overflow from Tummel River draining into the Pelly from the south side at the crossing point created a natural ice bridge.

Fixed wing aircraft access is possible by float or ski equipped planes from bases in Whitehorse or Mayo to Oz Lake, distances of 148 and 60 miles respectively.

Alternatively, a dirt strip at Detour Lakes is useable by light wheeled aircraft during the summer. This strip has not been maintained in recent years and is starting to grow in.

Helicopters can be charted from Mayo, or Ross River 105 miles south-east, and provide the best local access over the large claim group.

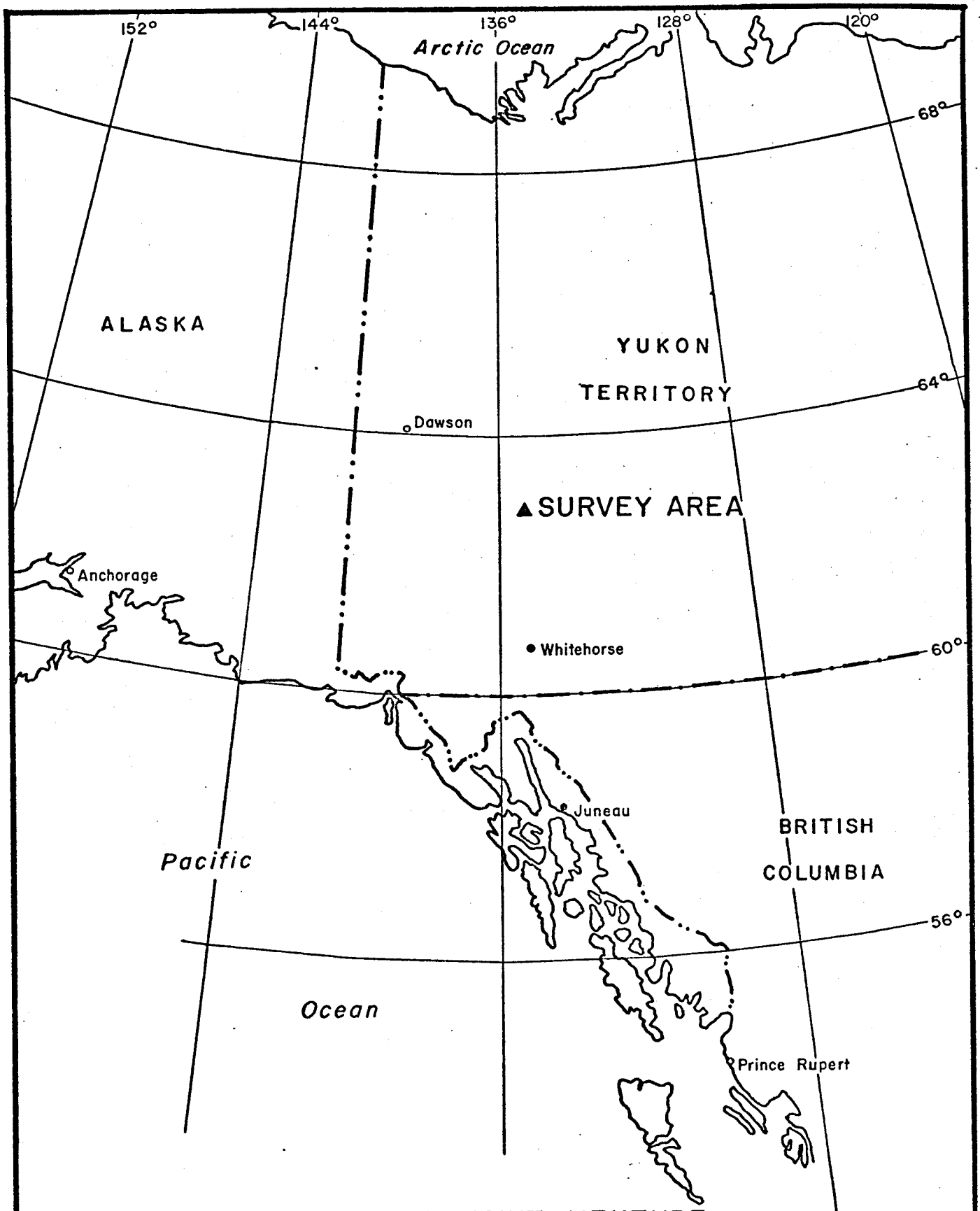
The nearest settlements are Mayo, Carmacks 66 miles south-west and Faro 70 miles south-east. The latter town was built in 1970 to support the large Anvil lead-zinc-silver mine and is connected by a new all-weather road to Carmacks on the Klondike Highway.

A potential hydro-electric site exists at Granite Canyon on the Pelly River about 35 air miles downstream from the property.

The area of the claim group is for the most part gently undulating and occupies a low saddle between the Pelly and MacMillan Rivers rising from about 1750' ASL at river level to a maximum of 2550' ASL on the highest peak. Local relief is mostly less than 500'. The hills and valleys are elongated westerly parallel to the regional strike and direction of glacial ice movement.

Vegetation consisting of spruce, pine, birch, poplar and alders covered the entire property although a major forest fire in 1970 destroyed most of it over the western two-thirds of the property. The dead timber is still mostly standing.

Other than Oz Lake, the largest on the property, most other lakes are small and drainage is poor.



MACMILLAN JOINT VENTURE

LOCATION MAP

FIGURE I

GENERAL GEOLOGY

The Glenlyon map area (105 L) was mapped by R. B. Campbell in 1949-1954 and the results of his work were published as G.S.C. Memoir 352 in 1967.

The adjoining Tay River map area (105 K) which contains all the known deposits of lead-zinc of the type sought, was mapped by Roddick and Green in 1958-1960 and published as G.S.C. Map 13-1961. In 1967 and 1968 Templeton-Kluit undertook a more detailed study of the geology and mineral deposits of the Vangorda area, the results of which were published as G.S.C. Bulletin 208 in 1972.

The area of interest comprises a belt of Proterozoic and Paleozoic sediments and volcanics which follow the north-east side of the Pelly River, the latter marking the locus of a major transcurrent fault known as the Tintina Trench.

The Vangorda area is dominated locally by the Anvil Range Batholith which has domed the stratigraphy. This granite is not exposed in the MacMillan area. The favourable horizon is a series of probable Cambrian schists and phyllites which are locally strongly graphitic. These latter rocks have been observed on the Sue claim group both in outcrop and earlier drilling, and closely resemble the host rocks at Vangorda and Anvil.

Reconnaissance of the Sue claims has indicated very little outcrop is present. Overburden, however, is not locally expected to exceed 100 feet except along the south side where high benches of glacial valley fill have been cut by the Pelly River.

Glaciation is presumed to have covered the entire claim group. Ice movement was west north-west as indicated by numerous drumlins.

PREVIOUS WORK

Apart from Campbell's mapping which suffered from lack of outcrop in the claim group area, the only previous known exploration of the area covered by the Sue claims was by Conwest in 1966-67. This previous work was initiated as a result of the discovery by the Dynasty/Cyprus joint venture of a major lead-zinc-silver deposit in the Vangorda Creek area, 60 miles to the south-east, in 1965.

A total of 734 claims were staked and exploration included an airborne Mark IV Input electromagnetic and magnetometer survey, selected anomaly follow-up on the ground using EM and mag, and limited diamond drilling. The work suffered from a lack of understanding of the geological environment and geophysical character of the known deposits and failed to locate significant mineralization. It has since been concluded that the previous work served to enhance the possibilities of Vangorda type mineralization by confirming similar rock types in the vicinity of the Sue claim group.

DESCRIPTION OF METHODS AND EQUIPMENT USED

A Geonics EM-17 electromagnetic unit was employed for the horizontal loop survey. A frequency of 800 Hz and a coil separation of 400 feet was used to give a nominal penetration depth of 200 feet. The In-phase and quadrature components were measured to an accuracy of ± 1% of the primary field.

A direct reading Scintrex MF-2 fluxgate magnetometer was used to measure the vertical field to an accuracy of ± 10 gammas. Diurnal corrections were obtained from a continuously recording base station magnetometer.

The gravity observations were made with a World Wide gravimeter with a scale constant of 0.09437 milligals per scale division. All data was reduced using a density of 2.67 and a combined correction of 0.060 milligals/foot. A level survey was carried out in conjunction with the gravity observation using a series of closed loops. Error is estimated to be less than 0.1 foot per mile.

DISCUSSION OF RESULTS

The geologic target is massive sulphide mineralization of the Anvil-Vangorda type known to be closely associated with graphitic schist. Because the sulphides and graphite occur in an overlapping range of conductivities, their separation with electromagnetics has not been possible. Nevertheless, the electromagnetic results provide a valuable mapping tool for outlining zones of high exploration potential.

Some of the known ore zones contain pyrrhotite. Complete magnetic coverage has been carried out to:

1. Check the EM zones for magnetic association possibly indicative of pyrrhotite mineralization;

2. To outline gabbros and basic volcanics that would influence the gravity survey.

Gravity surveying has been carried out over the conductive and magnetic anomalies to determine if excess mass exists which might represent a massive sulphide body.

A. Electromagnetics

The numerous responses encountered on the grid have been correlated into 95 zones which have been lettered 1 to 95 inclusive. Table I, List of Geophysical Anomalies, shows their Length, Width and Conductivity. The conductivities are shown as Strong, Medium and Weak. This classification is partially subjective. Strong zones are in excess of 20 mhos and in the massive sulphide range; however, no separation between sulphides and graphite is considered possible on the basis of the EM at present.

The interpretation of some responses, particularly those within the broad zones, are found to be difficult due to the high conductivity, topography, multiple banding, surficial conductivity and varying strike and dip. Nevertheless, the zones outlined provide excellent targets for further exploration.

The outlines of the interpreted zones are shown on the 1000 scale Compilation Sheets.

B. Magnetics

In general, the magnetic relief in the area is low and anomalies well separated. The selected anomalies (usually greater than 200 gammas) have been shown in profile form on the Compilation Sheets. Seventeen anomalies or zones either correlate directly or flank electromagnetic zones. Another 37 individual responses and zones do not correlate with electromagnetic zones and have been numbered 96M to 132M inclusive.

The peak amplitude, estimated depth and location of these individual anomalies and zones are given in Table I, List of Geophysical Anomalies. The depth estimate has been derived from the Half-Width Rule. The selected anomalous profiles are shown on the 1000 scale Compilation Sheets.

Anomalies 110M, 111M, and 112M occur near a known gabbro outcrop and indicate a similar rock type. Anomalies 123M to 127M, on the western end of the area, suggest gabbro or basic volcanics as their cause.

Several profiles show unusual variation and the data appears unreliable. The cause is believed to be a magnetic storm. There is no evidence on the base station records, however, the batteries might have been weak. In any event, it is suggested that the following sections of lines be resurveyed:

Lines 12W, 13W, 14W, 15W and 16W	- 0 to 8000S
Line 23W	- 0 to 7900N
Lines 77W, 78W and 79W	- 10600S to 9500N
Line 80W	- 10600S to 300N

C. Gravity

The following discussion covers the gravity profiling carried out to date over the eastern half of the claims (Lines 0 to 46W).

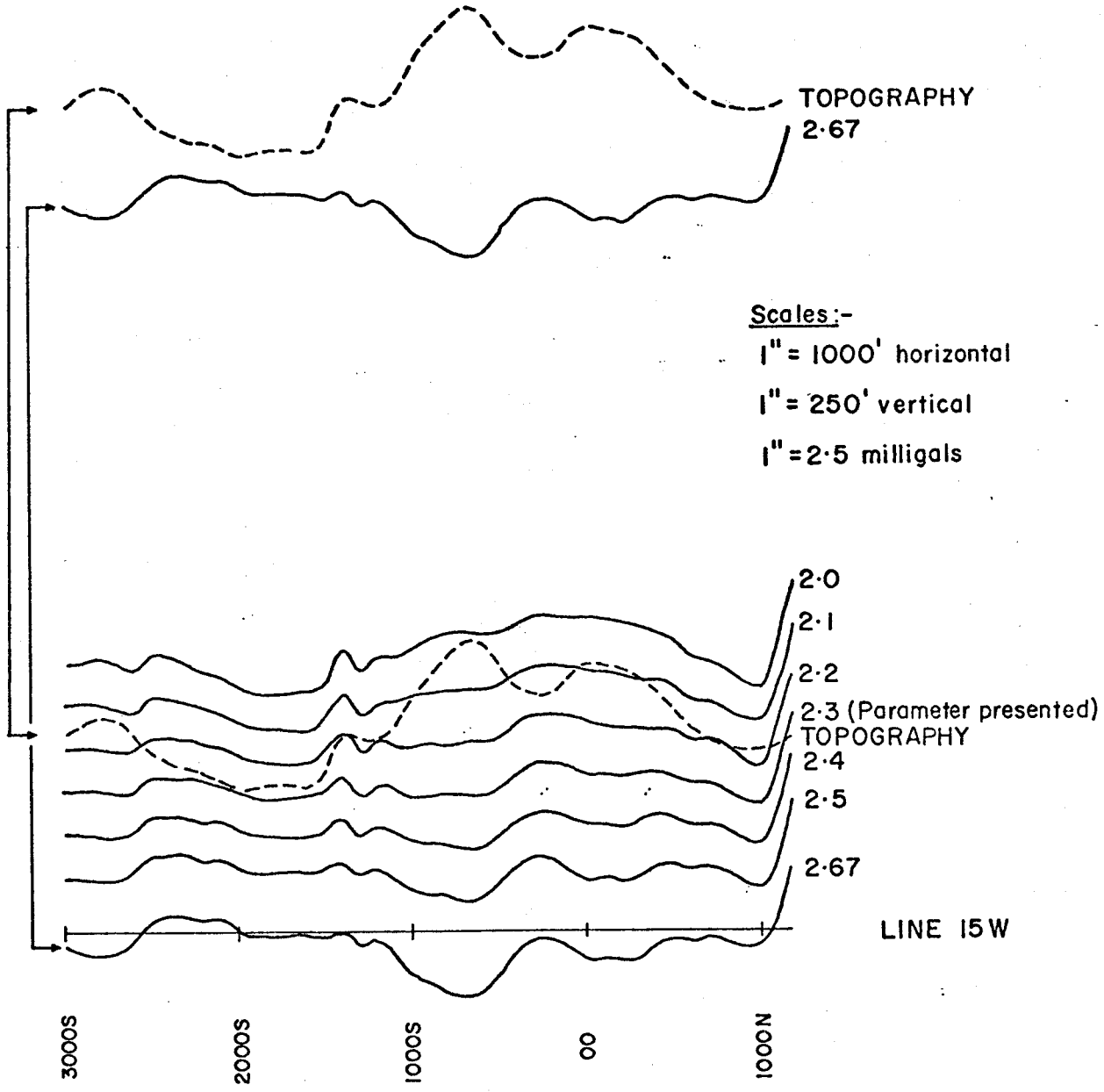
1. Density determinations

The field reduction of the data was carried out with the customary density assumption of 2.67 and a combined correction of 0.060 milligals/foot.

The results were computer plotted. An inspection of the data showed strong "mirror-imaging" of the Bouguer profile with the topography (i.e. gravity lows over hills and highs over valleys). This condition arises when the assumed surface density is too "heavy" and an example, Line 15W, is shown on the upper part of Figure II. [Note the correlation of the 110 foot hill at 7S with the 0.7 milligal gravity low.]

Therefore, in order to establish the best average surface density for the area, 8 lines were selected and the profiles for density values of 2.0, 2.1, 2.3, 2.4, 2.5 and 2.67 were calculated and plotted by computer. An illustration of the results obtained on Line 15W is shown on the bottom of Figure II. The upper profile, (the 2.0 profile) clearly follows the topography while the 2.67 profile mirrors it. The 2.3 profile shows no topographic effect at all. This procedure known as density profiling was applied to all eight lines and it was established that the 2.3 density was the most satisfactory value for the area. The entire gravity survey was then recalculated using the 2.3 surface density.

On the accompanying 400 scale sheets, the value of the 2.67 gravity and the elevation is printed at each station.



MACMILLAN JOINT VENTURE

DENSITY DETERMINATION

FIGURE II

Profiles have been used to present the data with solid, broken and dotted lines showing the 2.3 density, the 2.67 density and the topography respectively. The 2.3 density profiles shown on the 1000 scale compilation maps have been used to measure and assess all gravity highs.

2. Terrain Effects

Topographic relief is locally 100 to 200 feet with maximum slopes of 15 degrees. Calculations showed the terrain corrections to be positive, in the order of 0.2 to 0.3 milligals on the slope and decreasing to zero between 1000 and 2000 feet from the slope. Effects of this magnitude would produce local variations in the regional gradients of the present survey and distort some of the anomalies near the steeper, larger hills. Terrain effects for most of the survey area would be appreciably smaller.

It was concluded that the terrain effects were secondary to the surface density variations and changes in overburden thickness. As a consequence, terrain corrections do not appear warranted at this stage of the exploration programme.

The influence of terrain on anomalies G01 to G-4 is estimated to be less than 0.1 milligals. The influence on G-5 may be greater, however the survey coverage would have to be extended to determine this.

3. Gravity Profiles

A detailed line by line discussion of the gravity has been prepared and is shown in Table II, Interpretation of Gravity Profiles. This includes gravity lows, as well as highs, since they also affect the interpretations of the regionals.

4. Gravity Anomalies

Five anomalies were considered worthy of detailed discussion. These have been lettered G-1 to G-5 inclusive and are shown on the compilation map.

ANOMALY G-1 (Sheet 3)

Gravity highs of 0.6, 0.7 and 0.7 milligals occur on Lines 37W, 38W and 39W repsectively in the vicinity of 30N. The gravity profiles and their relation to electromagnetic zone 20, as well as zones 19 and 21 is shown in Figure V at a scale of 1" to 1000 feet.

The 2.3 density was contoured as shown on Figure III. The results show a high of about 1.0 milligals centred at 32N on 38W, with slightly lower amplitudes on the adjacent lines. The width is about 1900 feet on 38W while the length is less certain but appears to be 3000 feet.

The profiles indicate a positive northward regional gradient of roughly 0.15 milligals per 1000 feet. A gradient was determined graphically for each of the three lines and subtracted from the 2.3 Bouguer contours. The residual anomaly obtained in this manner is shown in Figure IV which overlaps Figure V. There is little difference in the size and shape of the

residual anomaly but the peak value is reduced to 0.7 milligals and the gradient is much stronger to the north. It should be noted that this residual anomaly is based on a selected regional gradient and a surface density 2.3. Other values for these factors will change its size and amplitude.

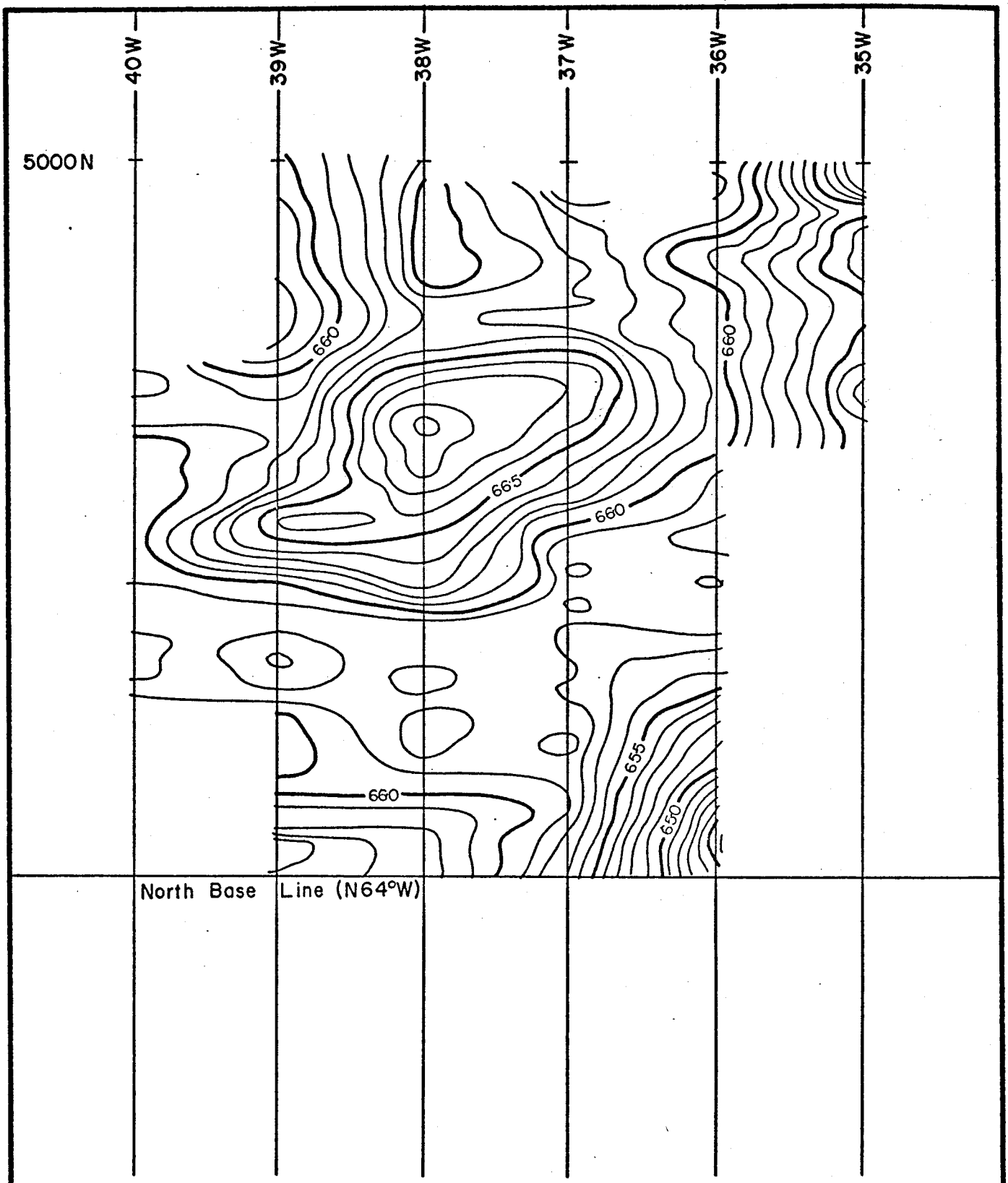
In order to assess the importance of anomaly G-1, an estimate of the total mass enclosed was made after the method of Hammer. A density contrast of 1.0 was assumed and a numerical integral was performed over the residual anomaly to yield an estimate of 18.5 million tons.

An estimate was also made using the assumption that the source was a horizontal sulphide slab with a density contrast of 1.0 and a depth to its centre of 100 feet. Inflection points on the curves were chosen to give the width of the body on each line and the thickness was calculated by assuming a flat disc model for each line after the method of Nettleton:

Line	Peak Value	Diameter	Calculated Thickness	Depth to Centre
37W	0.5	1000	50	100
38W	0.7	1400	65	100
39W	0.5	600	55	100
		Av.1000	Weighted Av. 58	

The anomaly occurs on three lines and it is reasonable to assume it has a length of 3000 feet. If we assume a continuous slab rather than several discs, from the table we estimate an average width of 1000 feet and a thickness of say 60 feet to obtain 180 million cubic feet or roughly 18 million tons.

Other mass distributions are possible but the above estimates indicate that Anomaly G-1 has sufficient potential to warrant its classification as a first priority target. Its importance is further enhanced by its association with electromagnetic zones.



CONTOUR INTERVAL 0·1 milligals

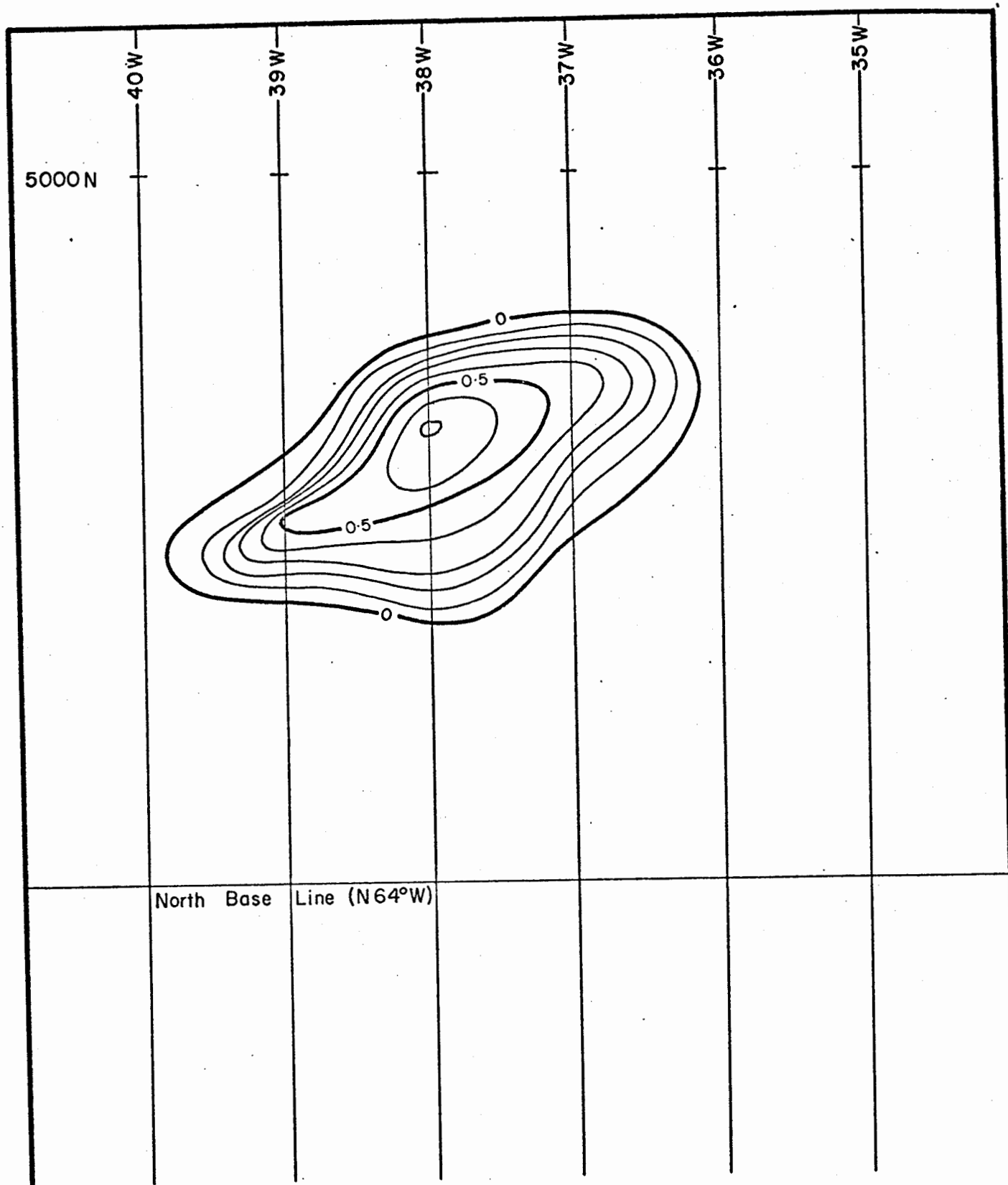
MACMILLAN JOINT VENTURE

ANOMALY G1 AREA

BOUGUER CONTOURS (2·3 DENSITY)

Scale 1" = 1000'

FIGURE III



CONTOUR INTERVAL 0·1 milligals

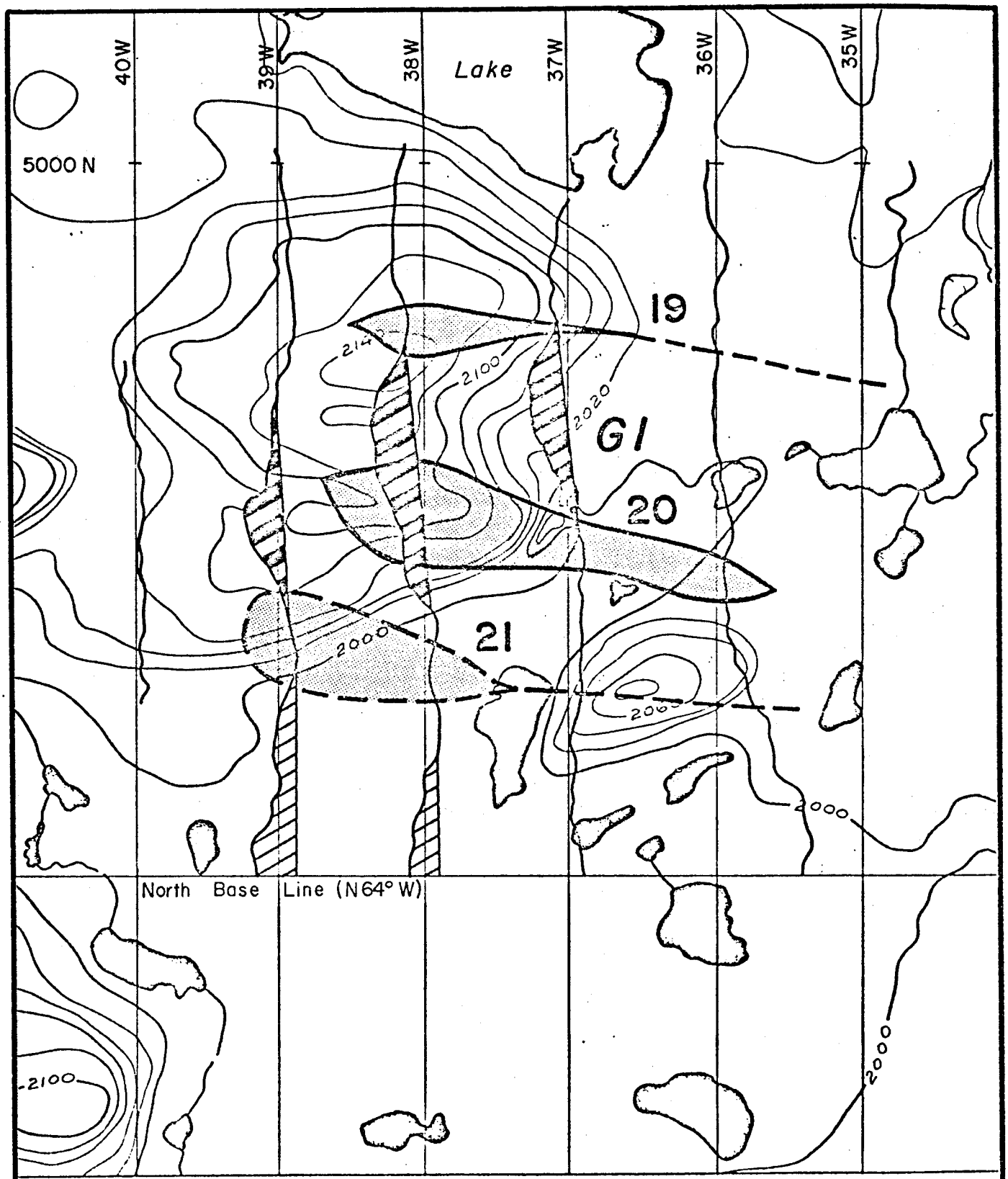
MACMILLAN JOINT VENTURE

ANOMALY GI

RESIDUAL CONTOURS

Scale 1" = 1000'

FIGURE IV



From Geophysical Interpretation Sheet 3
(See Map Legend for explanation of symbols)

MACMILLAN JOINT VENTURE

ANOMALY G1 AREA

EM ZONES

Scale 1" = 1000'

FIGURE V

ANOMALY G-2 (Sheet 3)

Anomaly G-2 displays an amplitude of 1.2 milligals but is not associated with any conductive or magnetic zones. Despite the lack of magnetic expression, it may be caused by a gabbro intrusive, and warrants careful geologic evaluation. Surveying should then be considered to the west of the Line 44W to determine its extent. Anomaly G-2 deserves a second priority rating, primarily on the basis of its amplitude.

ANOMALY G-3 (Sheet 4)

This anomaly warrants a second priority rating due to its association with electromagnetic Zone 22 and a magnetic anomaly. However, its moderate 0.5 milligal amplitude, and lack of correlation on adjacent lines downgrade its importance.

ANOMALY G-4 (Sheet 4)

This anomaly consists of narrow gravity highs on two adjacent lines that are associated with electromagnetic Zone 17. The positive correlation of the response on 33W with topography suggests that Anomaly G-4 is caused by an outcrop ridge flanked by overburden and possibly a buried ridge on 34W. Anomaly G04 is a second priority anomaly that is open to the west and warrants further investigation.

ANOMALY G-5 (Sheet 1)

Three highs of 0.6, 0.5 and 0.6 milligals on Lines 20W, 21W and 22W respectively constitute Anomaly G-5. They lie between electromagnetic Zones 1 and 5 and may be associated with either conductor. These highs coincide with a topographic ridge and are more apparent in the 2.3 data than the 2.67 profile. The cause may be simply an outcropping ridge flanked by overburden. Nevertheless, they warrant detailed geologic field investigation.

OTHERS

Several traverses show gravity highs on the ends of the lines and it is difficult to assess whether these are true highs or part of a regional trend. The gravity surveying should be extended on the following lines:

Line 15W	10N to 20N
Line 27W, 28W	0 to 15N
Line 38W, 39W	0 to 10S
Line 45W, 46W	55N to 72N

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conductivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
1	2.3,3.3	1	13W-26W	1900	S	240	150	26W(F)	G-5?	0.6			
2	2.3,3.3	1,2	12W-22W	1000	M	160	70	20W(F)					
3	2.3	2	14W	100	S								
4	3.3	1,2	17W-27W	500	S								
5	3.3	1	20W-26W	400	M				G-5?	0.6			
6	3.3	1	25W	1	W								
7	3.3	1	26W-28W	1	W								
8	4.3,3.3	1,3	28W-32W	900	S								
9	3.4	1	29W-30W	1	W	370	170	29W(F)					
10	3.4	1	28W-30W	150	W	300	100	29W(F)					
11	3.2	2	27W-28W	350	S								
12	3.2	2	28W	220	M								
13	4.2	4	32W-33W	100	M								
14	4.2	4	32W-35W	200	M								
15	4.2	4	35W	1	W								
16	3.2,4.2	2,4	30W-31W	100	S								
17	4.2	4	33W-34W	75	M				G-4	0.6			
18	4.2	4	32W	1	M	50	50	32W					
19	4.4	3	35W-38W	400	M				G-1?	0.7			
20	4.3,4.4	3	36W-40W	850	S				G-1	0.7			
21	4.3	3	36W-39W	650	S?				G-1?	0.7			

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conductivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
22	4.3	3	44W-87W	7300	S	170	270	44W	G-3				
	4.4	3				200	125?	44W					
	5.3.5.4	3				260	150	57W(F)					
	6.3	3				170	90	60W					
	6.3	3				240	85	61W					
	6.3	3				500	60	61W					
	6.3	3				4400	90	63W					
	6.3	3				650	70	63W					
	6.3	3				250	50	66W					
	6.3	4				350	95	66W					
	6.3	5				250	110?	67W					
	6.3	6				250	60	69W					
	7.3	5,6				400	90	81W					
	7.3	6				600	80	83W					
23	5.4	3	56W	1	W								
24	5.3	3	47W-54W	100	M								
25	5.3	3	54W	180	M	380	55	54W(F)					
26	5.3	3,4	49W-50W	1	W								
27	5.3	4	49W	1	W								
28	5.3	4	50W-53W	300	S								
29	4.2,5.2	4	45W-49W	300	S								
30	5.2	4	46W	1	W								
31	5.2	4	50W	1	W								
32	5.2	4	50W	1	W								
33	5.2	4	51W	1	M								
34	5.1	4	53W	120	S								
35	5.1	4	48W-51W	60	M	500	90	49W					
36	5.1	4	48W-50W	110	S	140	95	48W-50W					
37	5.1	4	51W	1	M	60	60?	51W					
38	5.1	4	49W-55W	400	M								

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conductivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
39	5.1	4	52W-57W	600	M	190 180	70 210?	53W 56W					
40	5.1	4	56W-57W	150	W	60?		57W					
41	5.1,6.1	4	52W-59W	100	S	100	90	55W					
42	5.1,6.1	4	57W-60W	1	W	80	55	58W					
43	5.1,6.1 7.1	4,6	58W-75W	700	M	150 200	135 100	58W 59W					
44	5.1	4	57W	60	S								
45	5.1	4	58W	250	S								
46	5.1,6.1	4	58W-59W	250	M								
47	6.1	4	60W-64W	1	W								
48	6.1	4	65W	1	M								
49	6.1	4,6	65W-69W	1	W								
50	6.1,6.2	4	62W-63W	100	M								
51	5.2	4	54W-57W	180	W								
52	5.2	4	57W	1	W								
53	5.3	4	56W	1	W								
54	5.3,6.3	4	53W-63W	400	M								
55	6.3	4,6	59W-68W	600	M								
56	6.2	4	58W-63W	700	M								
57	6.3	4	64W-65W	150	W								
58	6.3	4,6	65W-67W	1	W								
59	6.5	3	59W-62W	1	W								
60	5.5,6.5	3	58W-60W	1	M								
61	5.5,6.5	3	58W-60W	1	M								

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conduc-tivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
62	6.5	3	58W-59W	1	W								
63	5.5,6.5	3	56W-62W	250	M								
64	6.5	3,4	64W-67W	550	M								
65	6.4	5	68W-72W	150	M								
66	6.4	5	67W-68W	200	M								
67	6.4	5	68W-71W	150	M								
68	6.4	5	72W	1	W								
69	6.4,7.4	5	72W-73W	1	W								
70	7.4	5	74W	1	W								
71	7.4	5	79W-80W	200	M								
72	6.2	4,6	66W-67W	1	W								
73	6.2	6	69W-72W	450	M								
74	6.2	6	70W-72W	350	S								
75	7.3	6	73W-74W	200	S								
76	7.3	6	74W-75W	1	M								
77	7.3	6	78W-79W	1	M								
78	7.4	6	73W-74W	150	S								
79	7.2	6	75W	1	W								
80	7.2	6	77W-80W	1	W								
81	7.2	6	73W-77W	1	W								
82	7.2,8.2	6	74W-87W	1200	M								
83	7.2,8.2	6	76W-87W	220	S								
84	7.2	6	78W-79W	1	W								
85	8.2	6	87W	1	M								

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conductivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
86	8.2	6	88W-89W	1	M								
87	8.2	6	87W-90W	1	M	1280	200	89W					
88	8.2	6	92W	1	M								
89	8.2	6	89W-92W	120	S								
90	8.2	6	92W	1	W	200?	?	92W(F)					
91	2.3	6	10W	1	M?								
92	3.3	6	18W	1	W								
93	4.3	6	43W	1	M								
94	5.3	6	50W	1	W								
95M	1.4	1				-600	90	1W					
96M	1.4	1				-400	155	1W					
97M	2.4	1				400	110	9W					
98M	2.3	1				-720	80	10W					
99M	3.4	1				200	90	19W					
100M	3.2	2				-420	140	22W					
101M	3.3	2				850	70	25W					
102M	3.2	2				140	110	30W					
103M	3.4	1				350	110	30W					
104M	4.3	3				430	110	42W					
105M	5.1	4				1400	160?	46W-47W					
106M	5.1	4				850	125	46W					
107M	5.1	4				3000	160	48W-54W					
108M	5.1	4				1650	90	49W					
109M	5.1	4				60	50	56W-58W					

TABLE I

LIST OF GEOPHYSICAL ANOMALIES

Zone No.	Map Sheet		Electromagnetic Data			Magnetic Data			Gravity Data		Geology	Geochemistry	Remarks
	1"=400'	1"=1000'	Line(s)	Width (feet)	Conductivity	Amplitude (gammas)	Est. Depth (feet)	Line(s)	Anomaly No.	Residual Amplitude (milligals)			
110M	5.4	3				350	110	47W-48W					
111M	5.4	3				1770	75	48W-49W					
112M	5.4	3				1300	90	49W-50W					
113M	5.4	3				1470	55	55W					
114M	5.4	3				320	150	58W-59W					
115M	6.4	3				200	95	63W					
116M	6.4	5				1300	65	67W					
117M	6.2	4				280	100	64W					
118M	6.2	4				380	50	64W					
119M	6.1	6				240	60	67W					
120M	6.1	6				620	50	68W					
121M	6.2	6				360	70	72W					
122M	7.1	6				350	55	74W					
123M	7.2	6				1200	65	85W					
124M	7.2	6				700	110	86W					
125M	8.2	6				1280	100	87W-90W					
126M	8.2	6				1200	70	90W-92W					
126M	8.2	6				750	115	90W-92W					
127M	8.2	6				900	105?	95W					
128M	8.3	6				800	55	87W					
129M	7.3	5				300	75	82W					
130M	7.2	6				1200	150	81W					
131M	5.2	4				200	65	47W					
132M	6.2	4				400	55	59W					

*F = Flanking Anomaly.

TABLE II

INTERPRETATION OF GRAVITY PROFILES

Line	Map Sheet		E.M. Zone	Description
	1"=400'	1"=1000'		
13W	2.3	1,2	1,2	- 24S, 0.35 mgl low over lake (water) which has high negative density contrast. - 11S, 0.30 mgl low, may be thick till on hillside.
14W	2.3	1,2	1,23	- 48S, 0.70 mgl low, possibly till on hillside. - 10S & 25S, lows correspond to hill peaks and suggest gravel ridges. - note reduced topographic reflection in 2.3 density curve.
15W	2.3	1,2	1,2	- Strong topographic reflection in 2.67 profile at 27S, 7S and 2N. Effects greatly reduced in 2.3 data but hills at 7S and 2N may be till. * 12N, strong positive anomaly indicated to north. Survey should be checked and extended. - Note: this line is type profile for density determinations.
16W	2.3	1,2	1,2	- 7S, 0.4 mgl low in 2.67 data corresponds to hilltop. Not evident in 2.3 results. May be gravel on hill.
17W	3.3	1,2	1,2	- 10S, 0.4 mgl low probably valley fill. - 3N, 0.3 mgl low probably valley fill.
18W	3.3	1,2	1	- "noise" on profile probably due to overburden pockets.
19W	3.3	1,2	1	- 19S, 1.3 mgl low coincides with lake. Probably caused by negative density contrast of water.
20W	3.3	1,2	1, 2, 5	- 7N, 0.6 mgl low on 2.67 profile disappears on 2.3 profile. Suggests gravel ridge. * 8S, broad 0.5 mgl high. Could be rock outcrop hill flanked by alluvium valleys. Alternately, 50 foot thick slab of sulphide from 4S to 12S at 75 foot depth with density contrast of 1.0. Part of anomaly G-1 correlates with south edge of Zone 1. See lines 21W and 22W. Definitely needs field check.
21W	3.3	1,2	1	* 7S, broad 0.5 mgl high on hill. Probably rock similar to 20W but could be sulphides. 50 feet thick from 4S to 10S, 75 feet deep density of 1.0. See 20W and 22W. Correlates with EM Zone 1 - must be field checked.
22W	3.3	1,2	1	* 5S, broad 0.6 mgl high near hilltop. Correlates with 21W and 20W. Probably due to outcrop but could be sulphides associated with EM Zone 1. Must be field checked.
23W	3.3	1,2	1	- 10N, 0.40 mgl low on hill in 2.67 profile suggests a gravel ridge.
24W	3.3	1,2	1,5	- 10N, 0.40 mgl low on hill in 2.67 profile disappears at 2.3. Suggests gravel ridge. - 6N, broad low from 1N to 11N in 2.3 profile indicates overburden on valley floor.
25W	3.3 3.4	1,2	1,4, 5,6	- Note strong reflection of topography in 2.67 curve while 2.3 data gives smooth regional gradient with no anomalies. - 12N, probably a gravel ridge.
26W	3.3 3.4	1,2	1,4,5	- Similar topography effects as 25W, but less pronounced. - 21S, indicates gravel ridge.

TABLE II

INTERPRETATION OF GRAVITY PROFILES

Line	Map Sheet 1"=400'	Map Sheet 1"=1000'	E.M. Zone	Description
27W (South)	3.2	2	11	- Suggests density change near 128S, with lighter rocks to south. Possible geologic contact. * Remote possibility, 1.5 mgl anomaly extending from 128S to 104S and farther north, due to large slab type orebody, could be checked by extending survey northward.
28W (South)	3.2	2	10,11	- Similar to 27W (South).
28W (North)	3.3 3.4	1	8,10	- 33N, 0.30 mgl low is on strike with lake. Probably alluvium valley fill.
29W	3.3 3.4	1	8,9,10	- 10N, 0.30 mgl low suggests gravel ridge. - 33N, sharp single station low suggests minor local overburden
30W	3.3 3.4	1	8,9,10	- Strong gradient 0 to 15N suggests rapid increase in overburden south of 15N or possibly rock contact near 10N. - Similar but less pronounced effects on 31W and 32W.
30W (South)	3.2	2	16	- Smooth gradient, no anomalies.
31W (South)	4.2	4	16	- 80S, 0.3 mgl low suggests local overburden.
32W (South)	4.2	4	13,14,18	- Note strong mirror-imaging of topography with 2.67 profile on south end of profile (100S-126S). Apparent high over valley could be heavier rocks on valley floor but thought unlikely. 2.67 profile appears normal over valley with low over hill at 110S suggesting gravel ridge. - Note 2.3 profile removes anomalous effects.
33W (South)	4.2	4	13,14,17	- Mirror imaging of topography and 2.67 profile obvious from 100S to 130S. Effects removed with 2.3 density. * 81S, 0.40 mgl high appears related to small hill which may be outcrop flanked by lighter gravel. Definitely warrants field checking since Zone 17 nearby. Anomaly G-4 see 34W south.
34W (South)	4.2	4	14,17	* 84S, 0.6 mgl high appears related to small topographic highs. Occurs in area of relatively flat topography but on strike with small ridge. Has appearance of buried or near-buried ridge but warrants geologic investigation since it could be small sulphide mass from 81S to 84.5S, 60 feet thick located at 75' depth associated with Zone 17. Anomaly G-4 see 33W south above.
35W (South)	4.2	4	14,15	- A gentle gradient in an area of minor topographic relief.
31W (North)	4.3 4.4	3	8	- 29N, small 0.40 mgl low may be due to water of small lake. - Profile does not appear anomalous.
32W (North)	4.3 4.4	3	8	- Gentle regional slope on north and south ends of profile. * Remove possibility of broad anomaly from 10N to 32N with 0.60 mgl relief due to flat slab type body.
35W (North)	4.4	3	19	* 47N, sharp 0.4 mgl high directly associated with small hill. Suggests outcrop.

TABLE II

INTERPRETATION OF GRAVITY PROFILES

Line	Map Sheet 1"=400'	Map Sheet 1"=1000'	E.M. Zone	Description
36W (North)	4.3 4.4	3	19,20,21	- Decreased gravity values on south end suggest area of increased overburden. - No obvious anomalies.
37W (North)	4.3 4.4	3	19,20,21	* 33N, broad 0.6 mgl anomaly suggests sulphides. Could be slab about 60 feet thick from 30N to 38N at depth of 75 feet, density contrast of 1.0. Correlates with gravity on 38W and 39W. See Fig IV for contour presentation and recommendations for further discussion. Note correlation with Zone 20, plus 19 and 21. Part of anomaly G-1.
38W (North)	4.3 4.4	3	19,20,21	* 30N, broad high, up to 0.7 mgl. Could be sulphide slab from 20N to 35N about 70 feet thick located at 75 feet depth, density contrast 1.0. Correlates with 37W (North) see above, and Zone 20, 19 and 21. Part of anomaly G-1. • 0 to 7N, Possible high 0.6 mgl not associated with topography or EM zones. May be regional effect but survey should be extended.
39W (North)	4.3 4.4	3	19,20,21	• 25N, well-formed, 0.7 mgl anomaly. Could be narrow slab source 22N to 26N about 70 feet thick at 75 foot depth with density contrast 1.0. Correlates with gravity on 37W and 38W (see above) and also EM Zones 19, 20 and 21. Part of anomaly G-1. • 0 to 14N, broad variable high up to 0.7 mgl open to south. Probably correlates with 38W. No EM correlation but gravity survey should be extended south to establish regional effect.
40W (North)	4.3 4.4	3		- No anomalous response.
43W	4.3 4.4	3		* 72N to 83N, broad irregular high of 0.6 mgl that may extend to 100N. There is no associated EM or magnetics and high may be overburden or rock type change. A low priority anomaly.
44W (South)	4.2	4	29	• 143S, 121S, 93S, and 78S broad highs that appear to be "regional" features, possibly rock type changes and overburden. No obvious correlation with Zone 29. * 101S, minor 0.3 mgl peak could be small sulphide body but not supported by EM or Magnetics.
44W (North)	4.3 4.4	3, 4	22	* 35S and 5S, two broad highs nearly 3000 feet wide suggest "regional" features. Considered to be of low economic interest. * 21N, 0.5 mgl high indicates source that could extend from 19N to 26N. Could represent slab sulphide zone about 50 feet thick at a depth of 100 feet density contrast 1.0. Correlates with EM Zone 22 and two magnetic highs. Definitely a first priority target. Anomaly G-3. * 80N, broad, strong 1.25 mgl high may extend from 76N at least as far as 87N. North end indeterminate due to lake. Despite lack of EM and Mag it is possible sulphide source 125 feet thick at depth of 60 feet, density contrast 1.0. Definitely first priority target that warrantsinvestigation and survey to west to check strike extent. Alternately may be buried gabbro plug.
45W (North)	5.3 5.4	3	22	- A very difficult profile to interpret. - Simple explanation valley fill from 70N to 90N causes broad 1.0 mgl low and profile simply regional effects. * Alternately 83N to 116 N broad high up to 0.5 mgl correlating with Zone 22. *67N 0 75N, 1.1 mgl high open to south. Probably rock type change but survey should be extended southward.
46W	5.3 5.4	3	22	- Difficult profile to intepret. - Strong mirror image of topography in 2.67 profile, removed in 2.3 profile. - Valley fill at 72N and 81N may cause depression of gravity profile from regional slope. * Alternately 0.9 mgl high may extend from 85N and 117N correlating with Zone 22. Considered a third

TABLE II

INTERPRETATION OF GRAVITY PROFILES

Line	Map Sheet 1"=400'	Map Sheet 1"=1000'	E.M. Zone	Description
				priority target at present to be revised as additional gravity obtained to west. * 67N-78N, 0.8 mgl high, two peaks may extend south. Line should be extended.
45W (South)	5.2	4	29	- No evidence of Zone 29 on gravity profile.
46W (South)	5.2	4	29,30	- No evidence of Zones 29 or 30 on profile. - 17S, sharp 0.3 mgl low suggests gravel ridge.

* = gravity high.

MAP LEGENDS

DATA SHEETS (Scale 1" = 400')

ELECTROMAGNETIC SURVEY

Geonics EM-17. Horizontal loop, 400' cable, Frequency 1600 Hz

Out-of-phase profile (scale 1" = 40%)....

Quadrature profile (scale 1" = 40%).....

MAGNETOMETER SURVEY

Scintrex MF-2 vertical field fluxgate magnetometer

Magnetic profile (scale 1" = 500gammas)..

GRAVITY SURVEY

World Wide Gravimeter

2·3 density profile (scale 1" = 1milligal).....

2·67 density profile (scale 1" = 1 milligal).....

Topography profile (scale 1" = 200 feet).....

NOTE: Readings on 1" = 400' sheets represent actual field measurements. For clarity of presentation base level of profiles varied from sheet to sheet to avoid overlap of profiles. Base level for 2·3 density profile is always 1 milligal higher than base level for 2·67 density profile.

COMPILATION SHEETS (Scale 1" = 1000')

Electromagnetic zones : Strong.....

Weak.....

Magnetic profile (scale 1" = 1250gammas)...

Magnetic zones .....

Gravity profile (2·3 density)
(scale 1" = 2·5 milligals).....

First priority zone.....

Second priority zone.....

Third priority zone.....

APPENDIX I

Personnel

CONWEST EXPLORATION COMPANY LIMITED -	Organization, Management, Supervision, Picketing and Chaining
C. K. O'Connor, B.A.Sc., P.Eng., 109 Inglewood Drive, Toronto, Ontario.	Overall supervision and report. November 1, 1974 - September 2, 1975
G. W. Grant, 153 Winchester Street, Toronto, Ontario.	Organization and field supervision. November 1, 1974 - August 21, 1975.
A. H. Groat, P.O. Box 6, Watson Lake, Y.T.	Organization and camp management. November 1, 1974 - May 31, 1975
George Bequette, General Delivery, Whitehorse, Y.T.	Picketing and chaining. February 8 - April 30, 1975.
Ernest Buck, Box 13, R.R.1, Keremeos, B.C.	Picketing and chaining. February 21 - May 4, 1975.
Helen Kirk, General Delivery, Lower Post, B.C.	Cook. March 13 - April 29, 1975.
Marcel Lebel, 103 Main Street, Whitehorse, Y.T.	Chaining. February 22 - March 5, 1975.
Jack Lutz, General Delivery, Lower Post, B.C.	Picketing and chaining. February 2 - April 8, 1975.
Charles Pete, General Delivery, Lower Post, B.C.	Picketing and chaining. February 2 - April 8, 1975.
Jeff Sheldon, 5068 Taylor Street, Whitehorse, Y.T.	Picketing and chaining. April 1 - May 4, 1975.
EASTERN ASSOCIATES REG'D., P.O. BOX 4152, WHITEHORSE, Y.T.	Contract linecutting (hand). March 5 - April 21, 1975.
HOLWAYS HIGHWAY SERVICES LTD. P.O. BOX 2026, WHITEHORSE, Y.T.	Contract tote road and gridding (bulldozer). February 7 - April 16, 1975.

R. G. HILKER LIMITED, P.O. BOX 4008, WHITEHORSE, Y.T.	Contract Magnetometer Survey.	
R. G. Hilker		March 21 - April 25, 1975
R. Smith		March 21 - April 17, 1975
Steve Pilot		March 23 - April 25, 1975
T. McCrory		April 4 - April 17, 1975
D. Everett		April 21 - April 25, 1975
GLEDHILL CONSULTANTS INC., 21 SANDALWOOD PLACE, DON MILLS, ONTARIO	Contract EM and Gravity Surveys. Interpretation and Report.	
Floyd Hussey (field crew leader) 23 Garden Avenue, Agincourt, Ontario.	One-quarter E.M. Three-quarter G.	March 16 - May 31, 1975
A. Langston, c/o Gledhill Consultants Inc., 21 Sandalwood Place, Don Mills, Ontario.	100% G.	March 16 - May 4, 1975
Michael Smith, 1063 Centennial Street, Bathurst, New Brunswick.	100% E.M.	March 18 - April 30, 1975
George Grieve, 111 Kendal Avenue, Toronto, Ontario.	50% E.M. 50% G.	March 16 - May 4, 1975
Donald Guitard, 626 Blossom Lane, Bathurst, New Brunswick.	100% G.	March 18 - April 30, 1975
Harold Westerberg, 369 Archibald Street, Bathurst, New Brunswick.	100% E.M.	March 18 - April 3, 1975
Tom Gledhill, P.Eng.,B.A., 21 Sandalwood Place, Don Mills, Ontario.	Supervision	March 15 - August 29, 1975
D. B. Sutherland, P.Eng., 68 Cheltenham Avenue, Toronto, Ontario.	Interpretation and report.	July 10 - September 2, 1975
KENTING EARTH SCIENCES LIMITED 380 HUNT CLUB ROAD, OTTAWA, ONTARIO.	Photogrammetic mapping. March 1975.	

APPENDIX II

Statement of Expenditures

Tote Road Construction	$9,600.00	
Tote Trail Assistance	4,375.00 CR.	$ 5,225.00
Direct Gridding, Picketing and Chaining		
Hand-cut - 76 miles		12,105.50
Bulldozer - 353 miles		83,128.12
Direct Magnetometer Surveys		
410.7 line miles		20,709.05
Direct Electromagnetic Surveys		
400.5 line miles		32,022.76
Direct Gravity Surveys		
33.6 line miles		28,351.76
Camp Costs (groceries, cook, camp equipment, etc.)		8,246.79
Mobilization, Demobilization and Servicing (fixed wing)		16,829.00
Local Transportation (helicopter, 4 wheel-drive)		28,501.64
Travel and Expenses (air fares, hotel, etc.)		7,735.03
Engineering Supplies (air photos, photomosaic, topographic base maps, draughting and reproductions, etc.)		16,399.59
Organization, Management and Supervision		23,014.58
	TOTAL PROJECT COST	$282,268.82

Certified Correct:

J. C. Lamacraft, C.A.,
Treasurer.

APPENDIX III

Calculation of Unit Costs

I	Gridding (including net tote road cost)		
	a) Line miles	- 429	
	b) Direct costs	- $95,233.62	
	c) Indirect costs including tote road	- $19,894.77	
	d) Total cost	- $115,038.39	$115,038.39
	e) Cost per line mile	- $268.15	
II	Magnetometer survey		
	a) Line miles	- 410.7	
	b) Direct cost	- $20.709.05	
	c) Indirect cost	- $19,143.75	
	d) Total cost	- $39,852.80	39,852.80
	e) Cost per line mile	- $97.04	
III	Electromagnetic Survey		
	a) Line miles	- 400.5	
	b) Direct cost	- $32,022.76	
	c) Indirect cost	- $38,287.51	
	d) Total cost	- $70,310.27	70,310.27
	e) Cost per line mile	- $175.56	
IV	Gravity Survey		
	a) Line miles	- 33.6	
	b) Direct cost	- $28,351.76	
	c) Indirect cost	- $28,715.60	
	d) Total cost	- $57,067.37	57,067.36
	e) Cost per line mile	- $1,698.43	
			$282,268.82

Notes

1. Indirect costs allocated one-third to gridding and two-thirds to geophysics except for camp costs, travel and expenses, and engineering supplies which are entirely a geophysical cost as gridding operation was self-contained and bore its own camp and mobilization costs. Minor exceptions to the above occur when specific information permitted.

2. Indirect costs for geophysics allocated three-ninths to gravity, two-ninths to magnetometer and four-ninths to E.M.

3. Unit cost for gravity high due to relatively rough (for gravity) terrain which reduced rate of production severely, and small size of job.

APPENDIX IV

Calculations for Assessment Credit

1.	Total number of claims	1070	
2.	Number of claims to be retained	955	
3.	Number of claims to be abandoned	115	
4.	Total project expenditures	$282,268.82	
5.	Portion of expenditures on claims retained excluding gravity		
	- Gridding 404.1 miles @ $268.15		$108,359.41
	- Mag 385.8 miles @ $97.05		37,438.05
	- E.M. 379.7 miles @ $175.56		66,660.13
		TOTAL	$212,457.57
6.	Assessment credit per claim retained for work evenly distributed (951 claims)	$223.40	

Note: Gravity survey cost of $57,067.36 allocated to 13 claim groups as per separate grouping applications accompanying this report.

CERTIFICATE

I, Don B. Sutherland, hereby certify that:

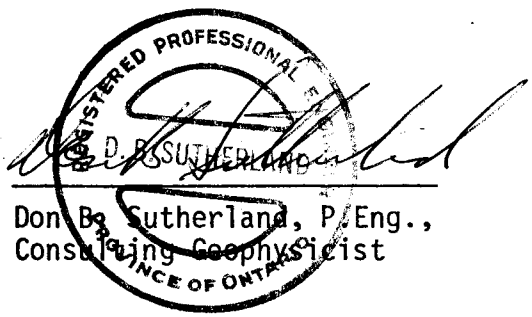
1. I am a Consulting Geophysicist residing at 68 Cheltenham Avenue, Toronto, Ontario.

2. I received a Bachelor of Arts degree from the University of Toronto in 1953 and a Master of Arts degree from the same University in 1954. I have practised my profession since that time.

3. I am a member of the Professional Engineers' Association of the Province of Ontario and have been designated as a Consulting Engineer by the Council.

4. I am a co-author of this report and supervised the calculation and presentation of the data.

5. I have no beneficial interest in Conwest Exploration Company Limited or the mineral claims described in this report, nor do I expect to receive any.



Don B. Sutherland, P.Eng.,
Consulting Geophysicist

CERTIFICATE

I, Caven Kelly O'Connor, hereby certify that:

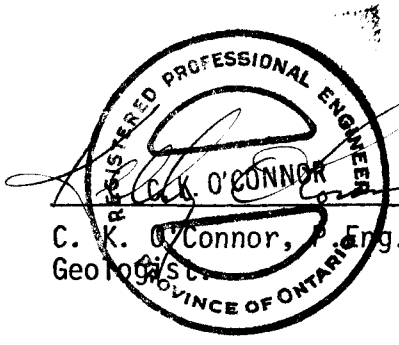
1. I am a geologist residing at 109 Inglewood Drive, Toronto, Ontario.

2. I received a Bachelor of Applied Science degree in Geological Engineering from the University of Toronto in 1962 and I have been practising my profession since that time.

3. I am a member of the Professional Engineers Associations of Ontario and British Columbia.

4. I am the co-author of this report and personally supervised the overall conduct of the programme described herein.

5. I am a Director and Vice-President of Conwest Exploration Company Limited, having been employed by the Company since January 1969.



C. K. O'Connor, P. Eng.,
Geologist

CERTIFICATE

I, Gerald W. Grant, hereby certify that:

1. I am a geologist residing at 153 Winchester Street, Toronto, Ontario.

2. I attended McGill University from 1950 to 1953 in the Bachelor of Science course and Michigan College of Mining during parts of 1953 to 1956 in the Bachelor of Science geology course. I completed successfully all the requisite geology courses but did not complete certain other requirements for a degree. I have been practising my profession as a geologist since then.

3. I personally supervised the organization and field work of the programme described herein.

4. I am a geologist employed by Conwest Exploration Company Limited and have been so employed since June 1964.

G.W. Grant

Gerald W. Grant,
Geologist.

MACMILLAN JOINT VENTURE

1 in. = 8 miles

OZ LAKE BASE CAMP
Sue Claim Group

Pelly Crossing
Minto (Abandoned)
Carmacks
Aishihik
Haines Junction
WHITEHORSE
Ross River
Johnsons Crossing
Teslin River

ANVIL
AEX
VANGORDA
Faro
SWIM

Whitehorse – 220 miles – Faro
Ross River – 216 miles – Watson Lake

YUKON RIVER
Little Kalzas Lake
Macmillan River
North Macmillan River
South Macmillan River
Stokes Lake
Earn Lake
Winter Tractor Road
Detour Lakes
AIRSTRIP
Tatlmain Lake
PELLY RIVER
Drury Lake
ROBERT CAMPBELL HIGHWAY
Little Salmon Lake
Swim Lakes
Sheldon Lake
Field Lake
Lewis Lake
Ross River
CANOL ROAD
KLONDIKE HIGHWAY
Aishihik Lake
Sekulmun Lake
Kluane Lake
ALASKA HIGHWAY
HAINES ROAD
Lake Laberge
Teslin River
Quiet Lake
White Pass and Yukon Railway
Marsh Lake
Finlayson Lake
Wolf Lake

PROPERTY LOCATION MAP

MACMILLAN JOINT VENTURE

1 in = 1/2 mile

105 L - 14

105 L - 15

105 L - 11

105 L - 10

MACMILLAN RIVER

LONE MTN.

135° 00'

OZ LAKE BASE CAMP

SUE CLAIM GROUP

TOTE ROAD

PELLY RIVER

62° 45'

0·5 0 1 2 miles

N

CLAIM LOCATION MAP

MACMILLAN JOINT VENTURE

1 in = 1/2 mile

105 L - 14

105 L - 15

105 L - 11

105 L - 10

MACMILLAN RIVER

LONE MTN.

135° 00'

SUE CLAIM GROUP

Station numbering North and South of South Base Line

Station numbering North and South of North Base Line

OZ LAKE BASE CAMP

HAND CUT CROSS LINES

BULLDOZED CROSS LINES

BASE LINE - S (N64°W)

BASE LINE-N (N64°W.)

PELLY RIVER

TOTE ROAD

62° 45'

8.1 8.2 8.3 7.1 7.2 7.3 7.4 6.1 6.2 6.3 6.4 6.5 5.1 5.2 5.3 5.4 5.5 4.2 4.3 4.4 3.2 3.3 3.4 2.2 2.3 2.4 1.3 1.4

1 2 3 4 5 6

LEGEND

Grid line & number ---------- 40W

Gravity survey coverage ----

1"=400' Sheets (28) & number 3·4

1"=1000' Sheets (6) & number 3

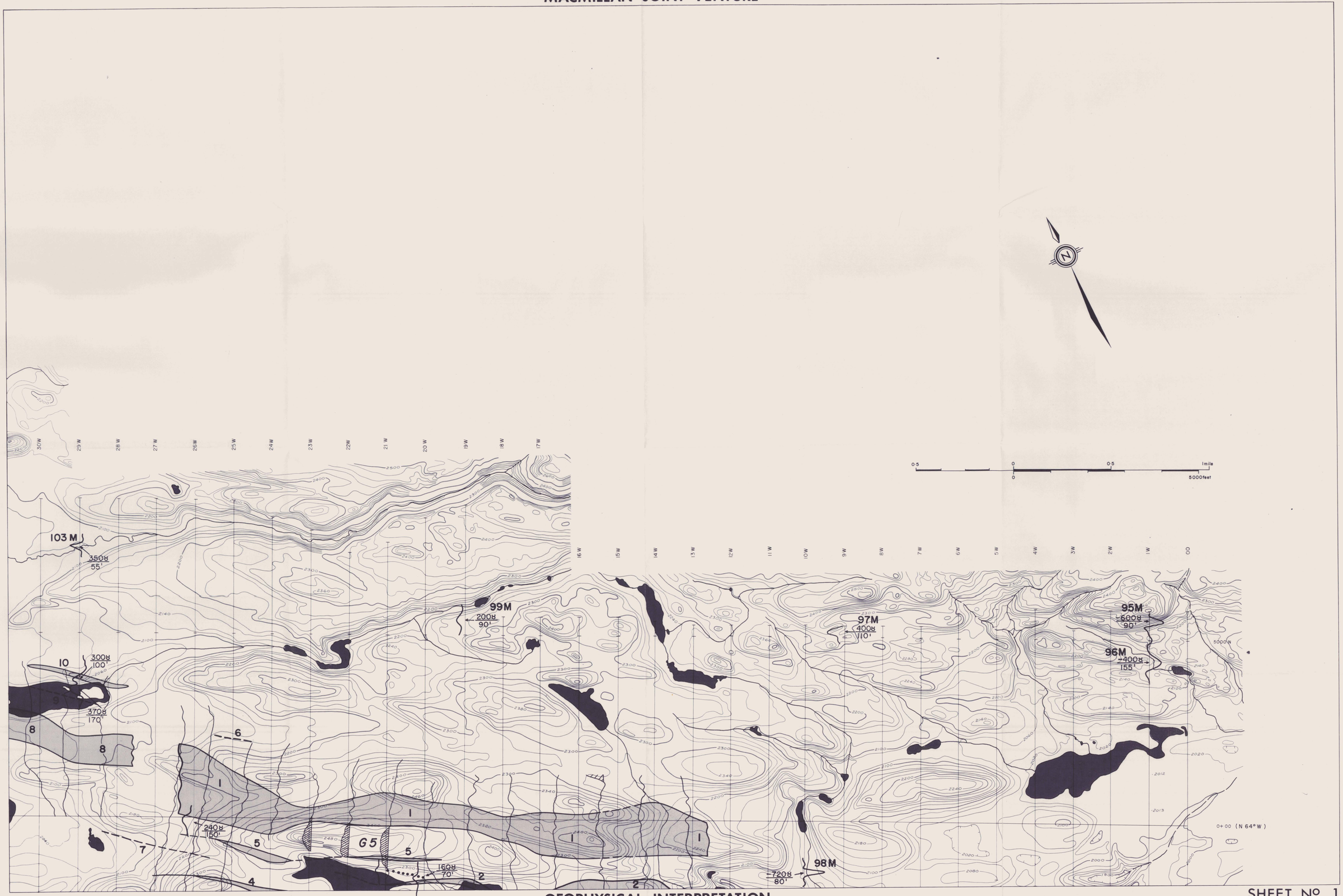
NOTE; Complete Grid Coverage with Magnetometer & Electromagnetic Surveys

0.5 0 2 miles

GEOPHYSICAL SURVEY COVERAGE & INDEX MAP

MACMILLAN JOINT VENTURE

1 in = 1000 feet



GEOPHYSICAL INTERPRETATION

SHEET Nº 1

MACMILLAN JOINT VENTURE

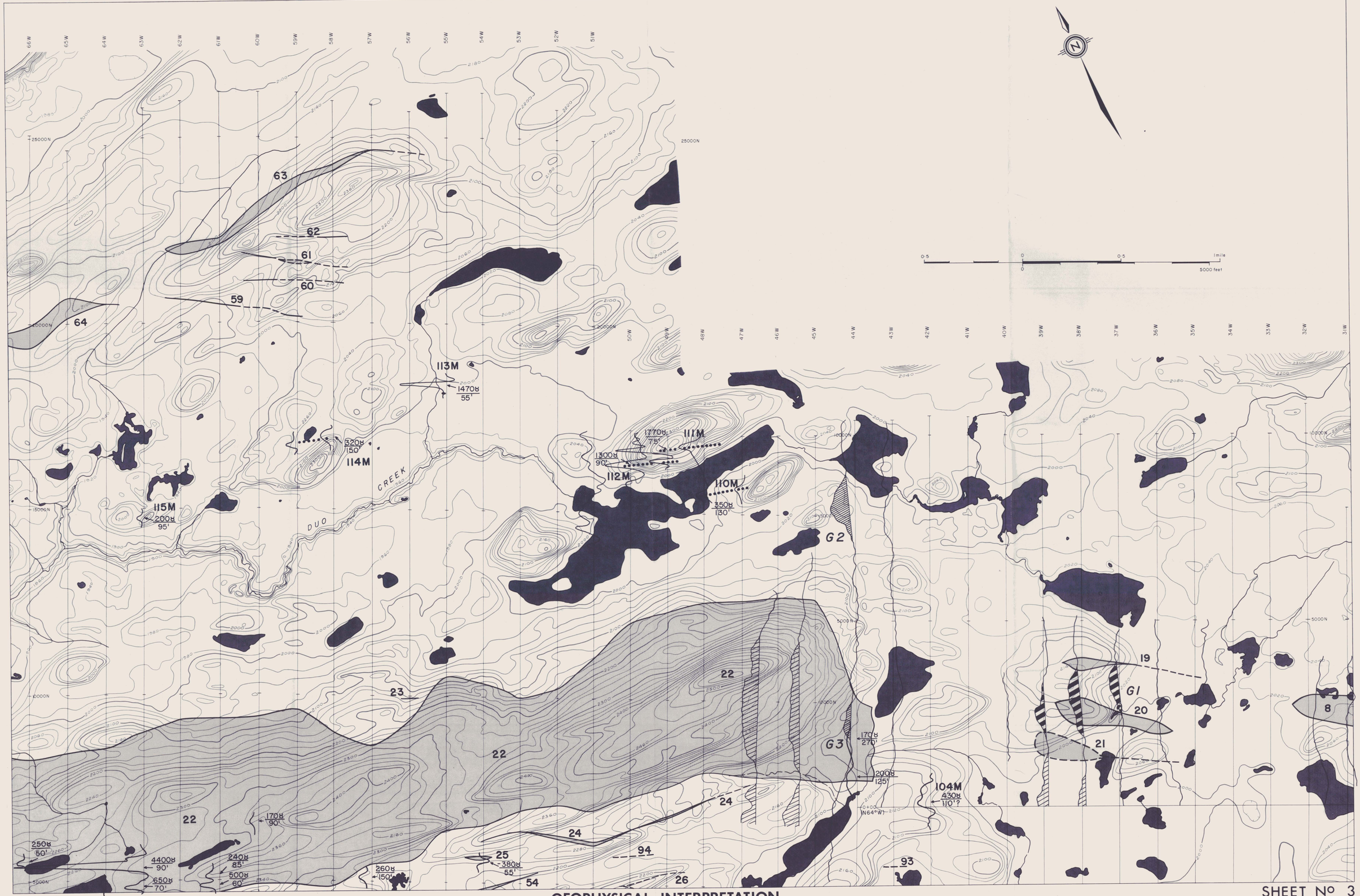
1 in = 1000 feet

GEOPHYSICAL INTERPRETATION

SHEET Nº 2

MACMILLAN JOINT VENTURE

1 in = 1000 feet

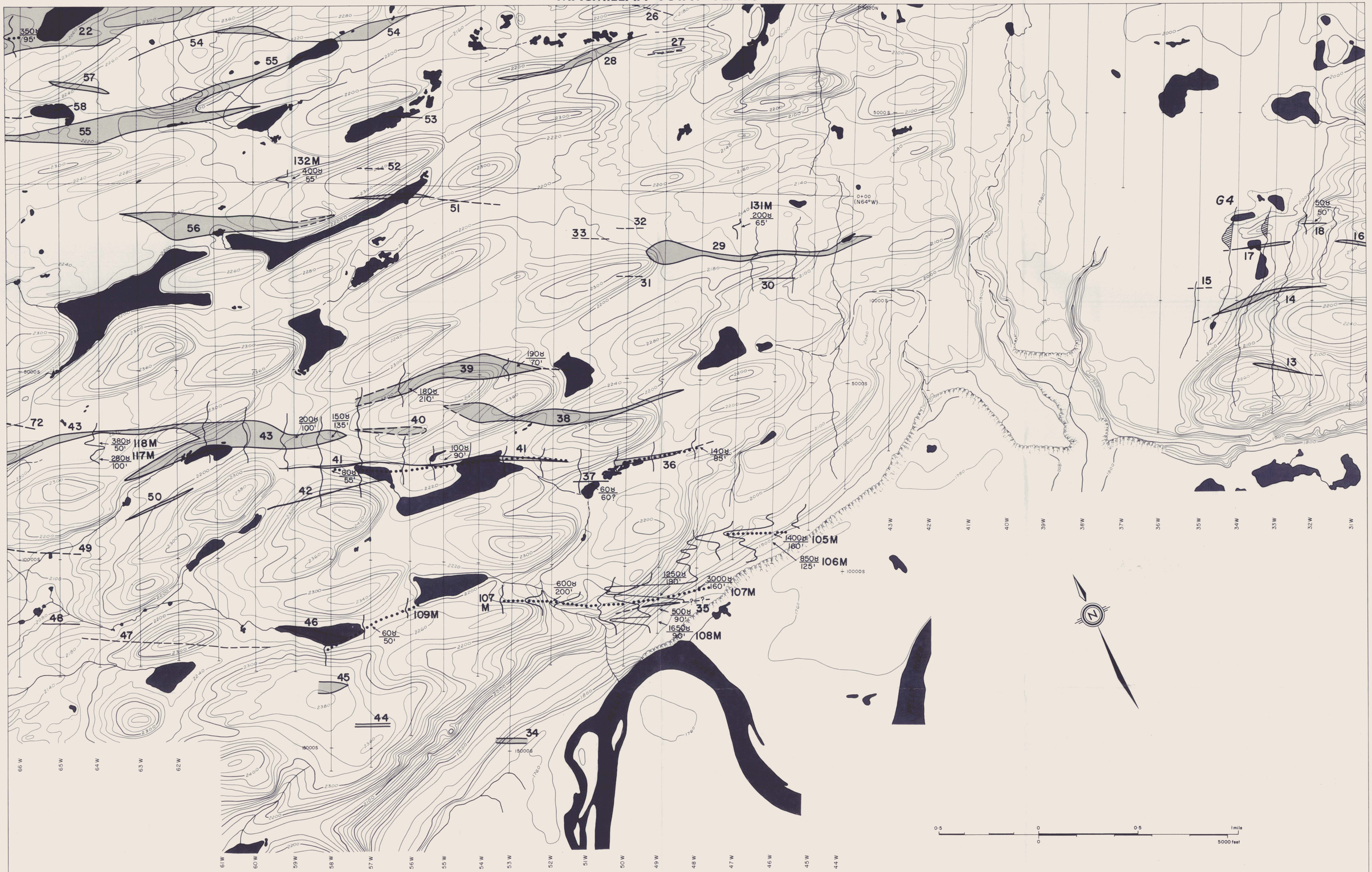


GEOPHYSICAL INTERPRETATION

SHEET No 3

MACMILLAN JOINT VENTURE

1 in = 1000 feet



GEOPHYSICAL INTERPRETATION

SHEET No 4

MACMILLAN JOINT VENTURE

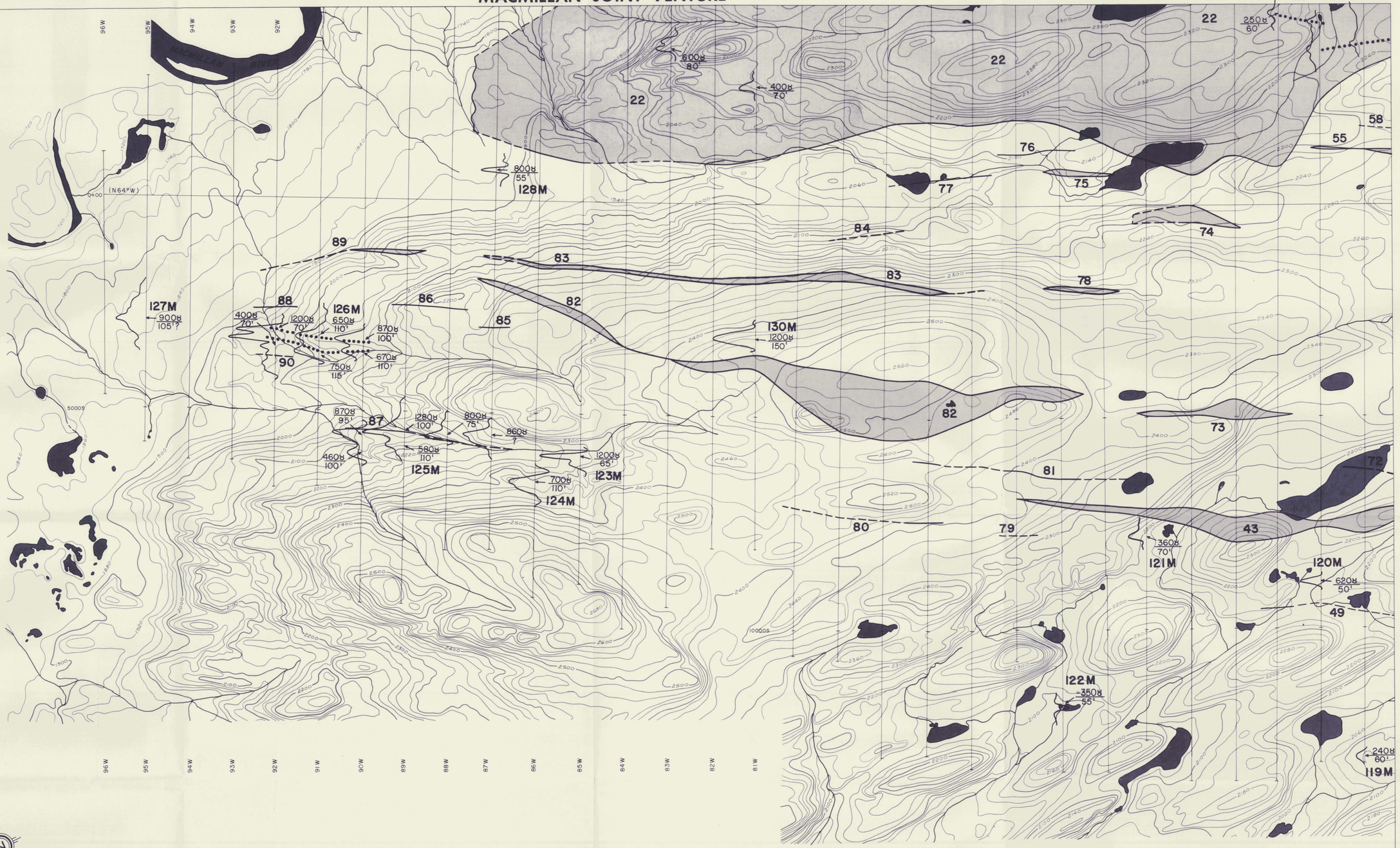
1 in = 1000 feet

GEOPHYSICAL INTERPRETATION

SHEET No 5

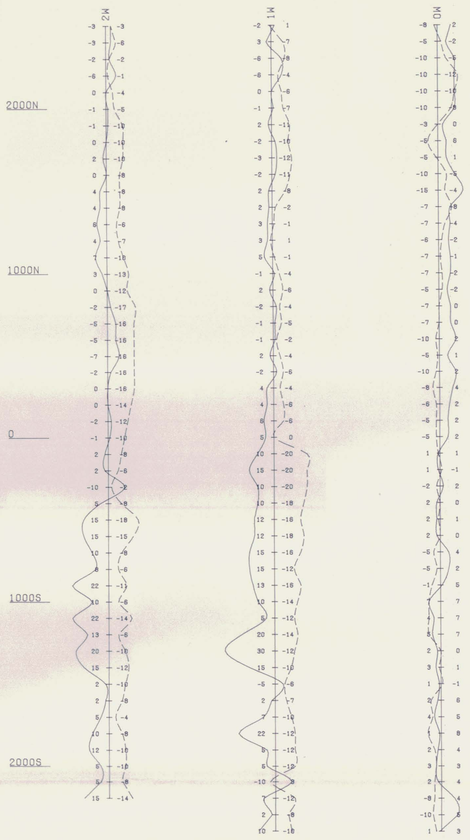
MACMILLAN JOINT VENTURE

1 in = 1000 feet



GEOPHYSICAL INTERPRETATION

SHEET Nº 6



2000N
1000N
0
1000S
2000S
3000S
4000S
5000S
6000S

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

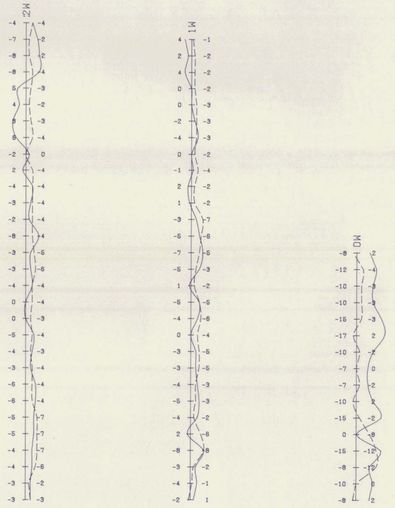
7000N

6000N

5000N

4000N

3000N

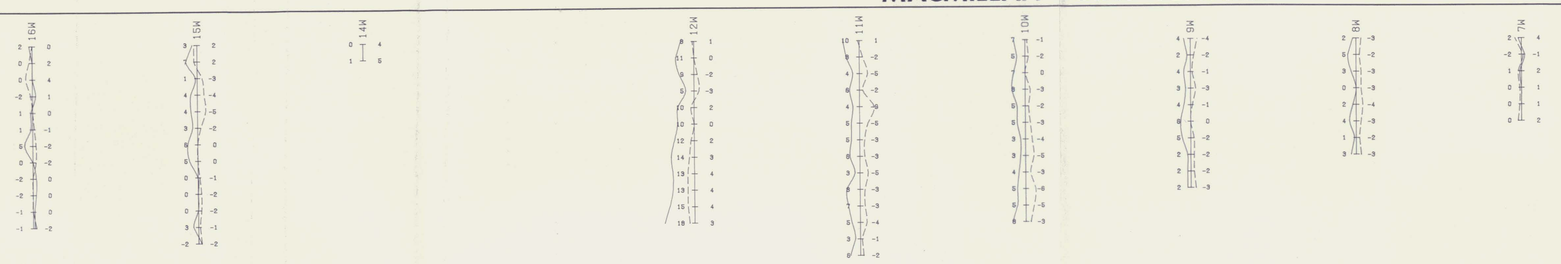


ELECTROMAGNETIC SURVEY

SHEET NO 1.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



7000S

8000S

9000S

10000S

11000S

12000S

13000S

14000S

15000S

ELECTROMAGNETIC SURVEY

SHEET NO 2.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

ELECTROMAGNETIC SURVEY

SHEET NO 2.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

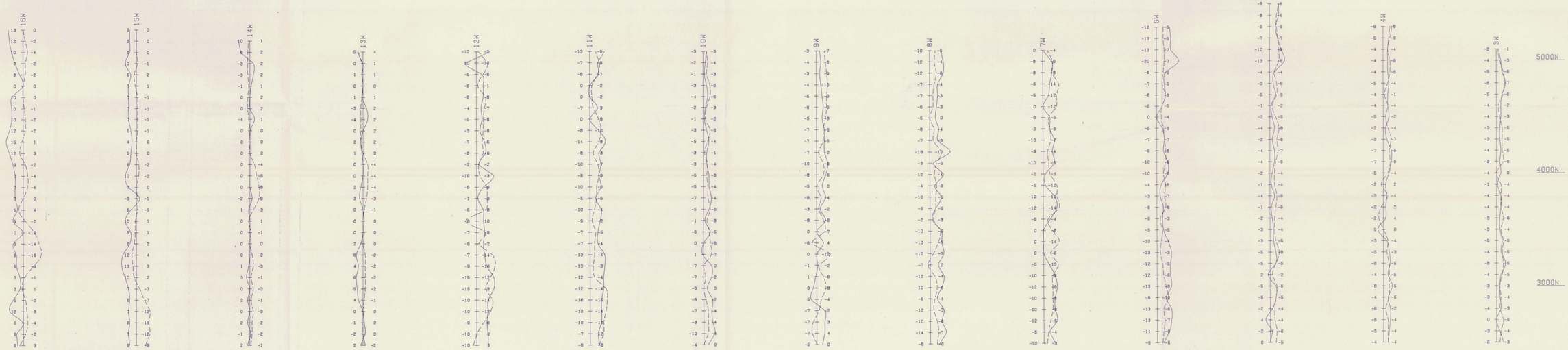
7000N

6000N

5000N

4000N

3000N



ELECTROMAGNETIC SURVEY

SHEET NO 2.4

MACMILLAN JOINT VENTURE

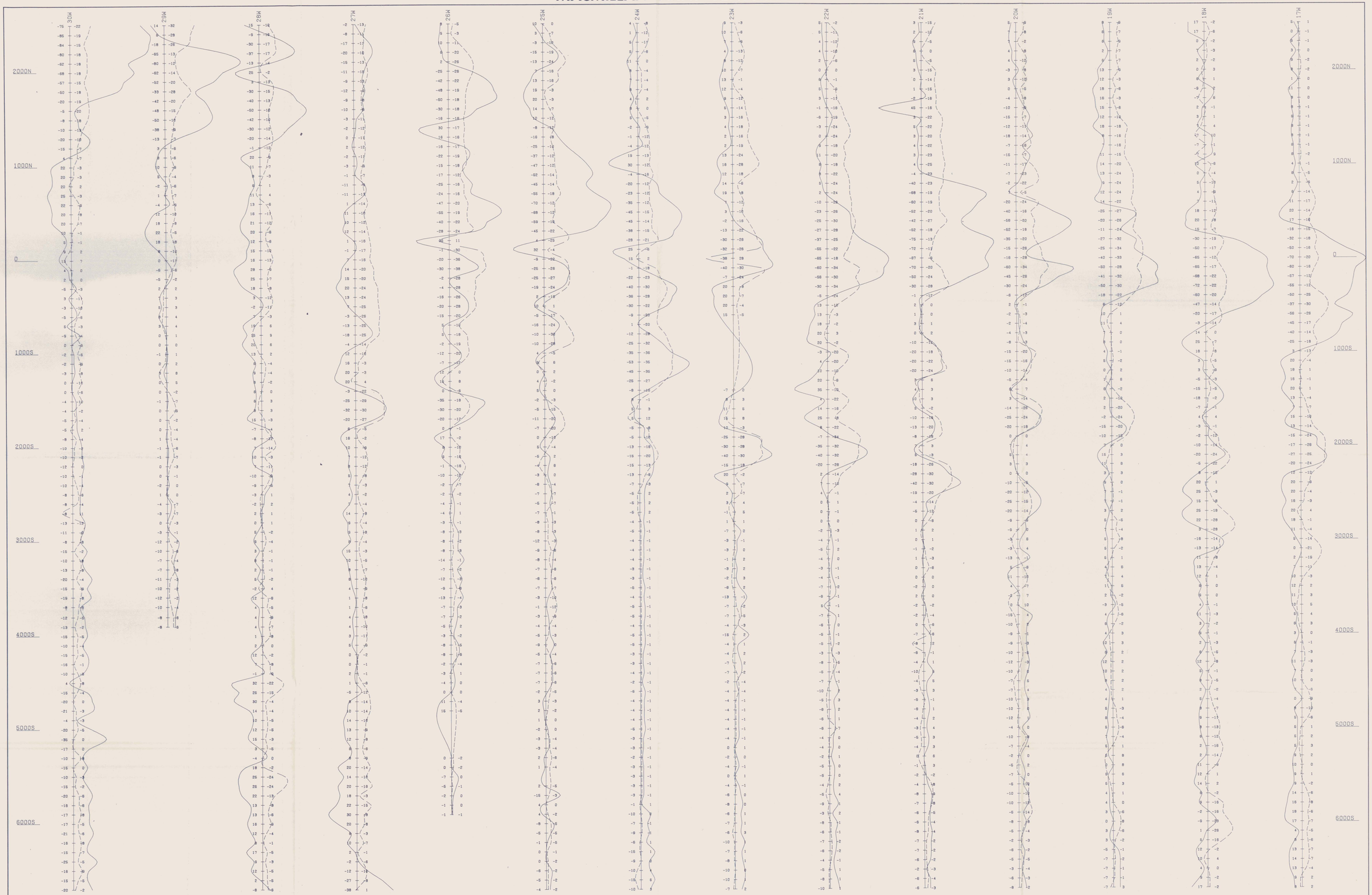
1 INCH=400 FEET

ELECTROMAGNETIC SURVEY

SHEET NO 3.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



ELECTROMAGNETIC SURVEY

SHEET NO 3.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

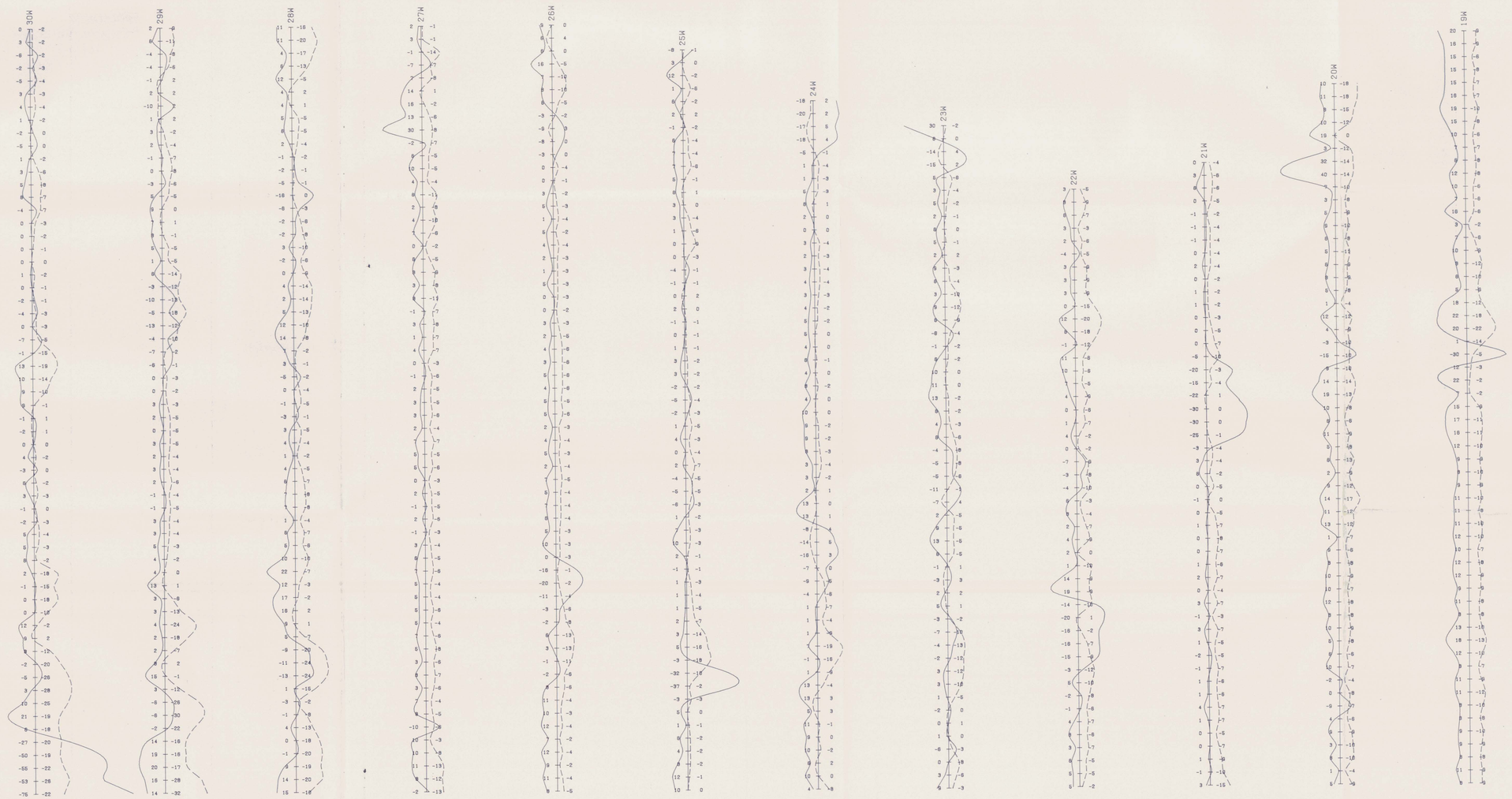
7000N

6000N

5000N

4000N

3000N



ELECTROMAGNETIC SURVEY

SHEET NO 3.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

ELECTROMAGNETIC SURVEY

SHEET NO 4.2

MACMILLAN JOINT VENTURE

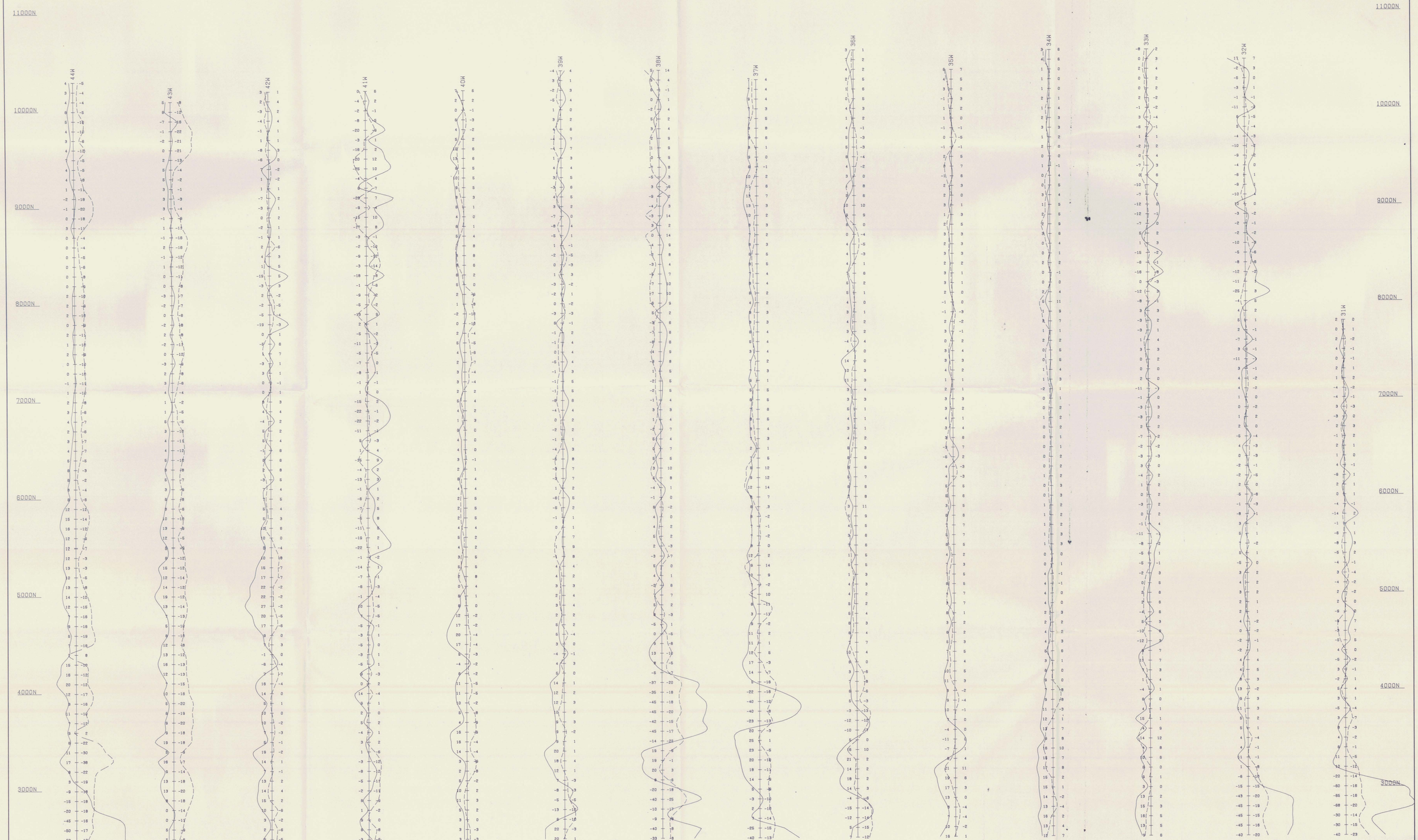
1 INCH=400 FEET

ELECTROMAGNETIC SURVEY

SHEET NO 4.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



ELECTROMAGNETIC SURVEY

SHEET NO 4.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

9000S

10000S

11000S

12000S

13000S

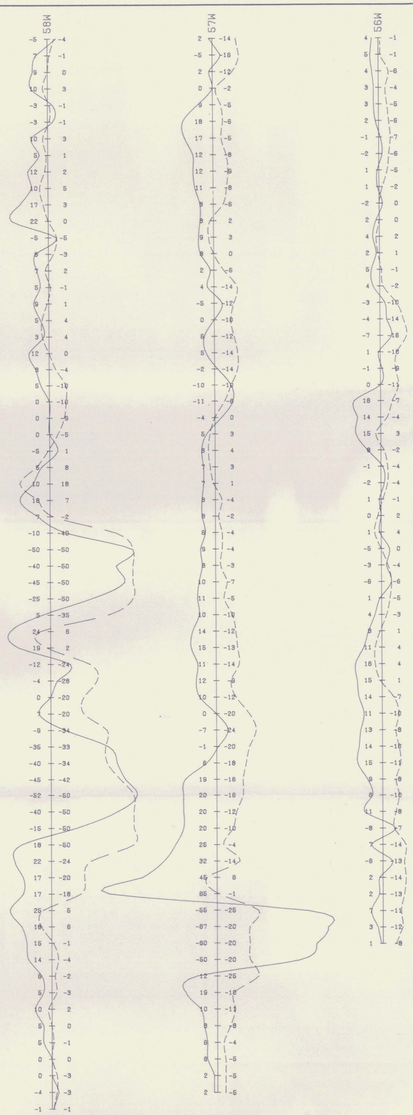
14000S

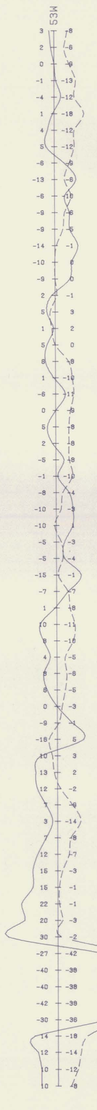
15000S

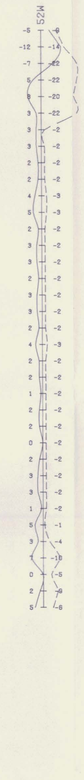
16000S

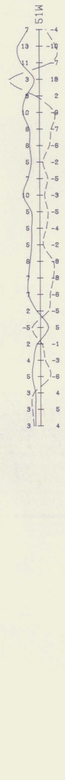
17000S

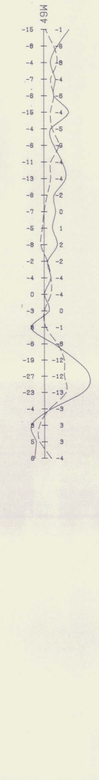
18000S

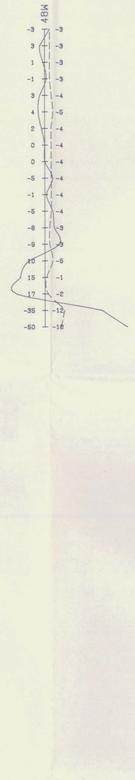












9000S

10000S

11000S

12000S

13000S

14000S

15000S

16000S

17000S

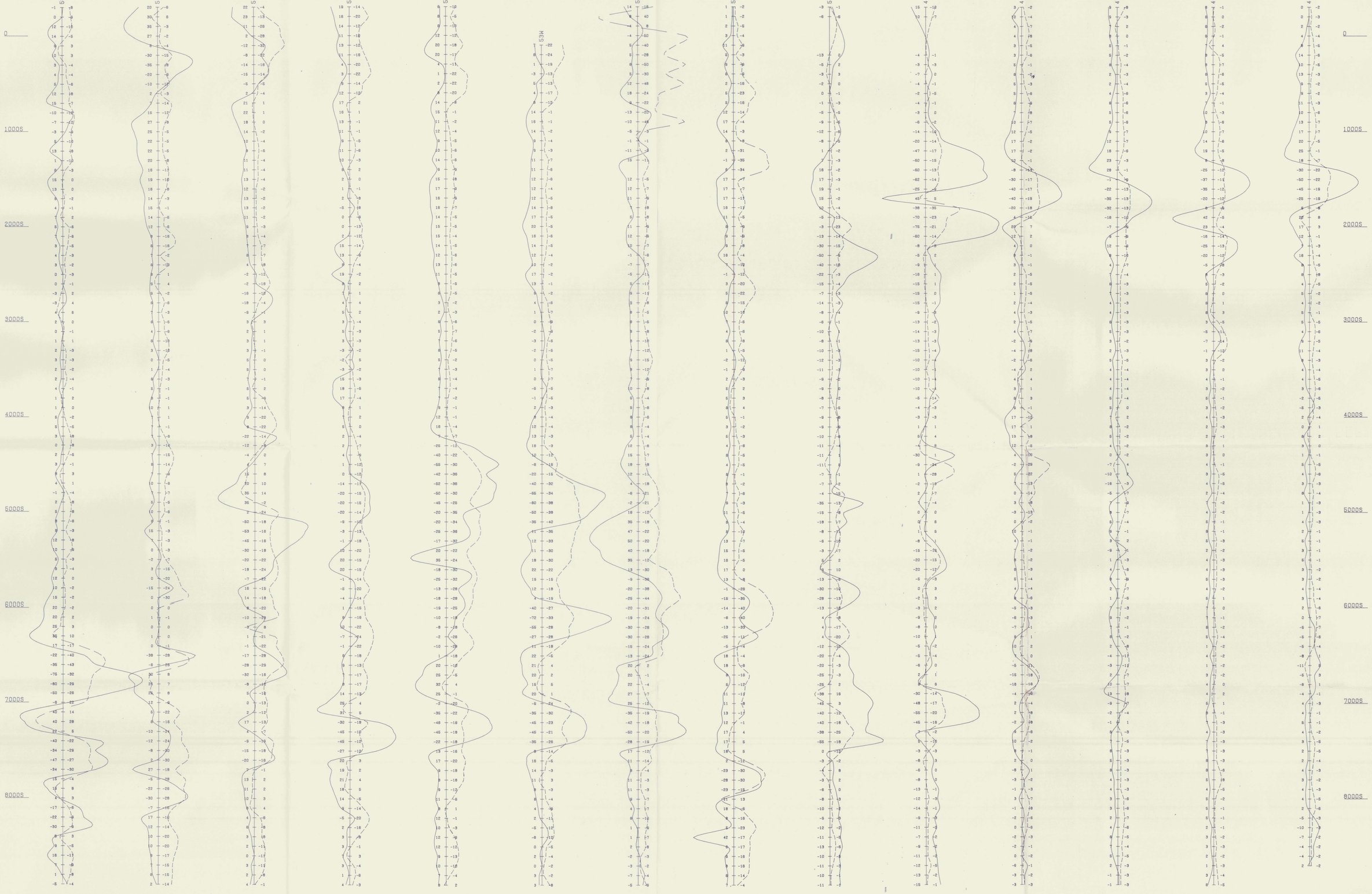
18000S

ELECTROMAGNETIC SURVEY

SHEET NO **5.1**

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

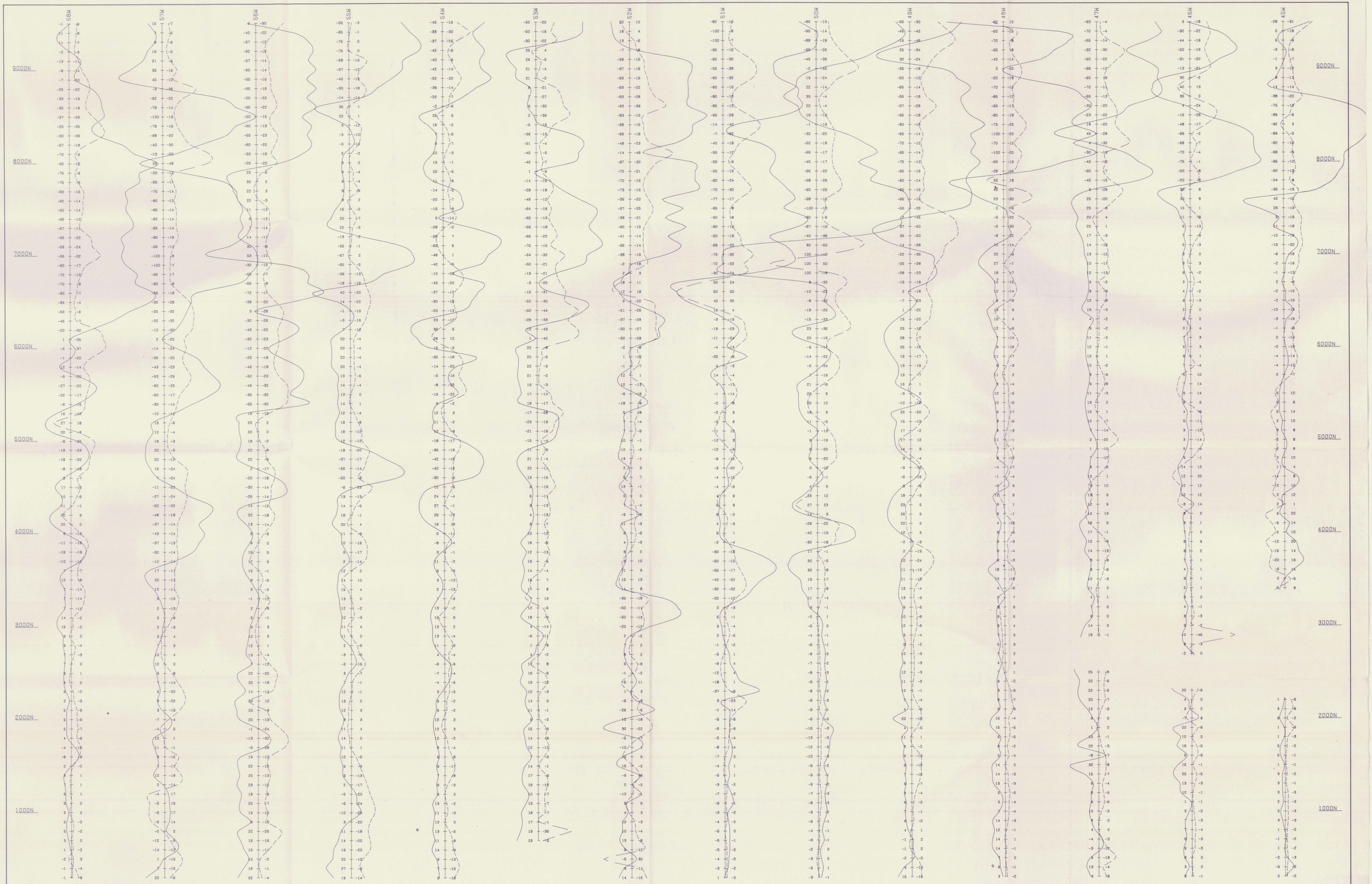


ELECTROMAGNETIC SURVEY

SHEET NO 5.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

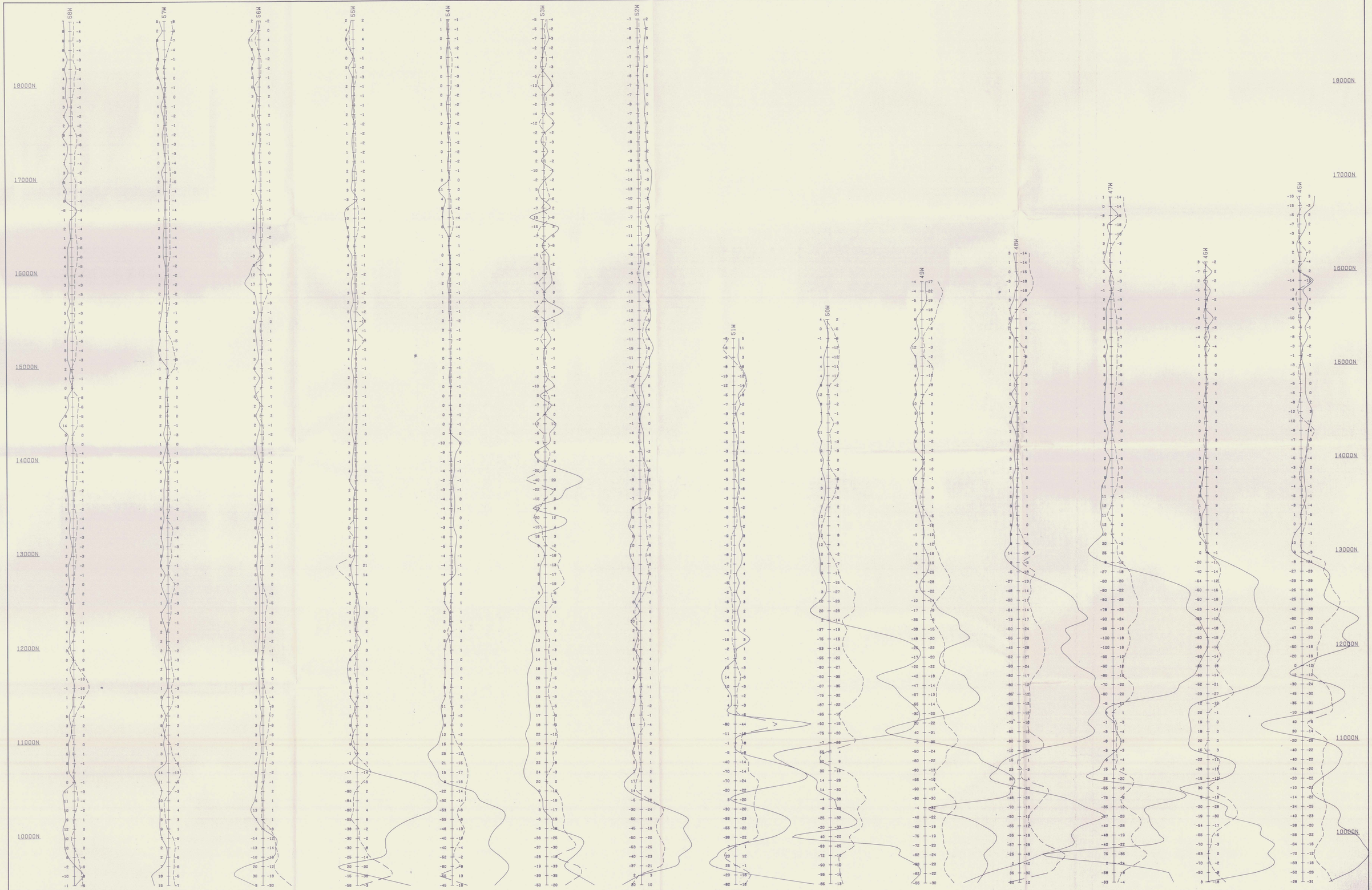


ELECTROMAGNETIC SURVEY

SHEET NO 5.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



ELECTROMAGNETIC SURVEY

SHEET NO 5.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

27000N

26000N

25000N

24000N

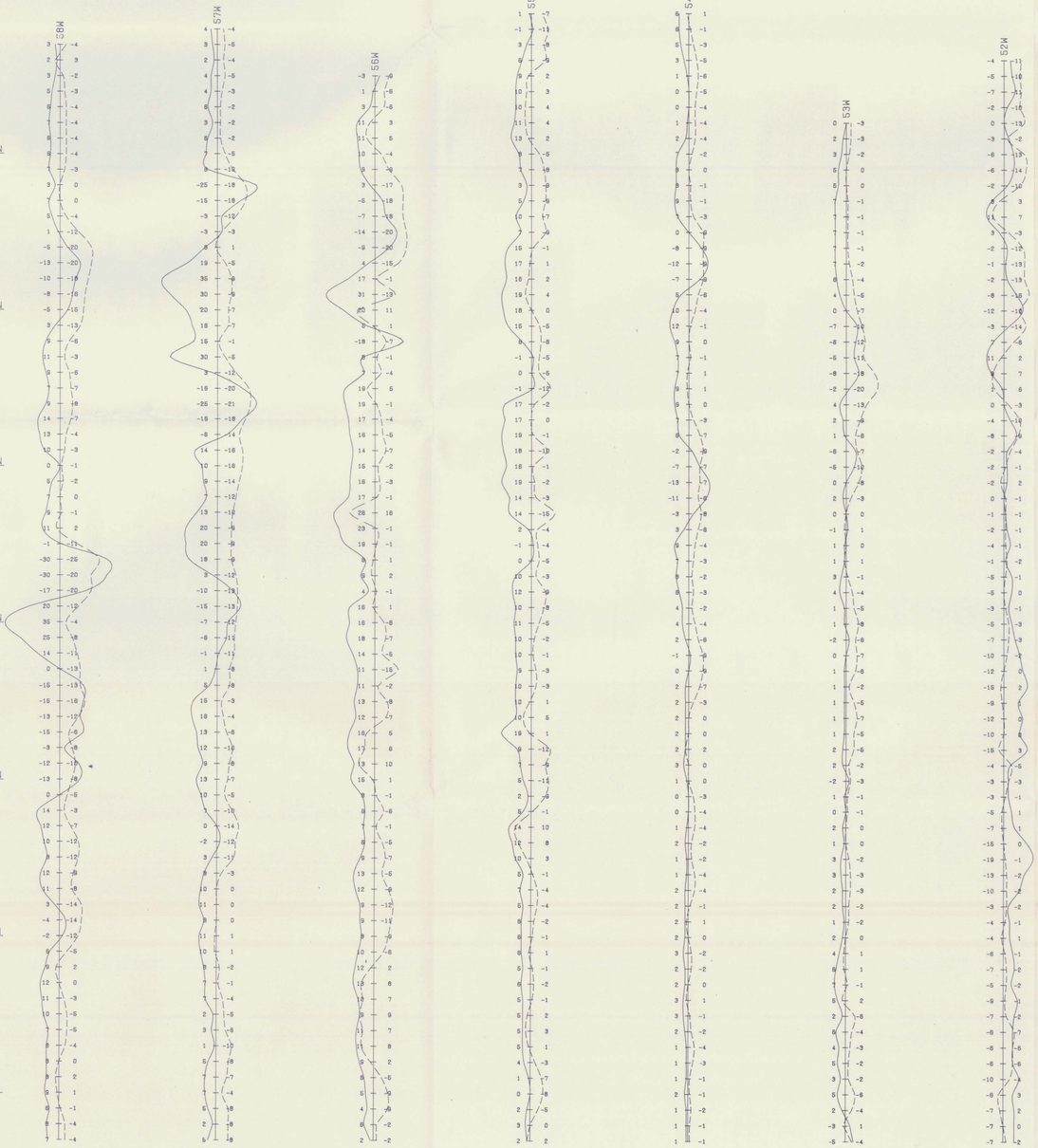
23000N

22000N

21000N

20000N

19000N



27000N

26000N

25000N

24000N

23000N

22000N

21000N

20000N

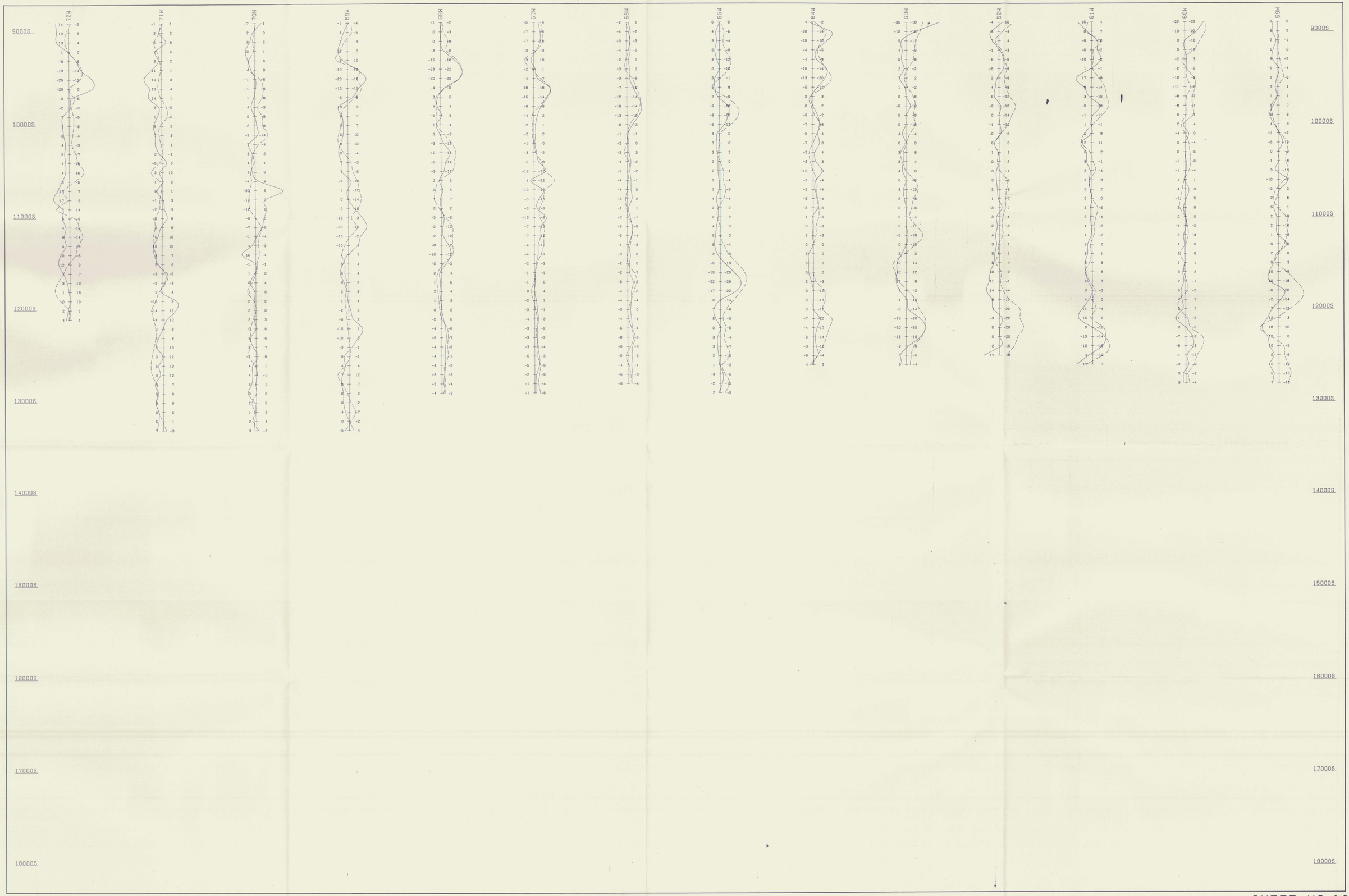
19000N

ELECTROMAGNETIC SURVEY

SHEET NO 5.5

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

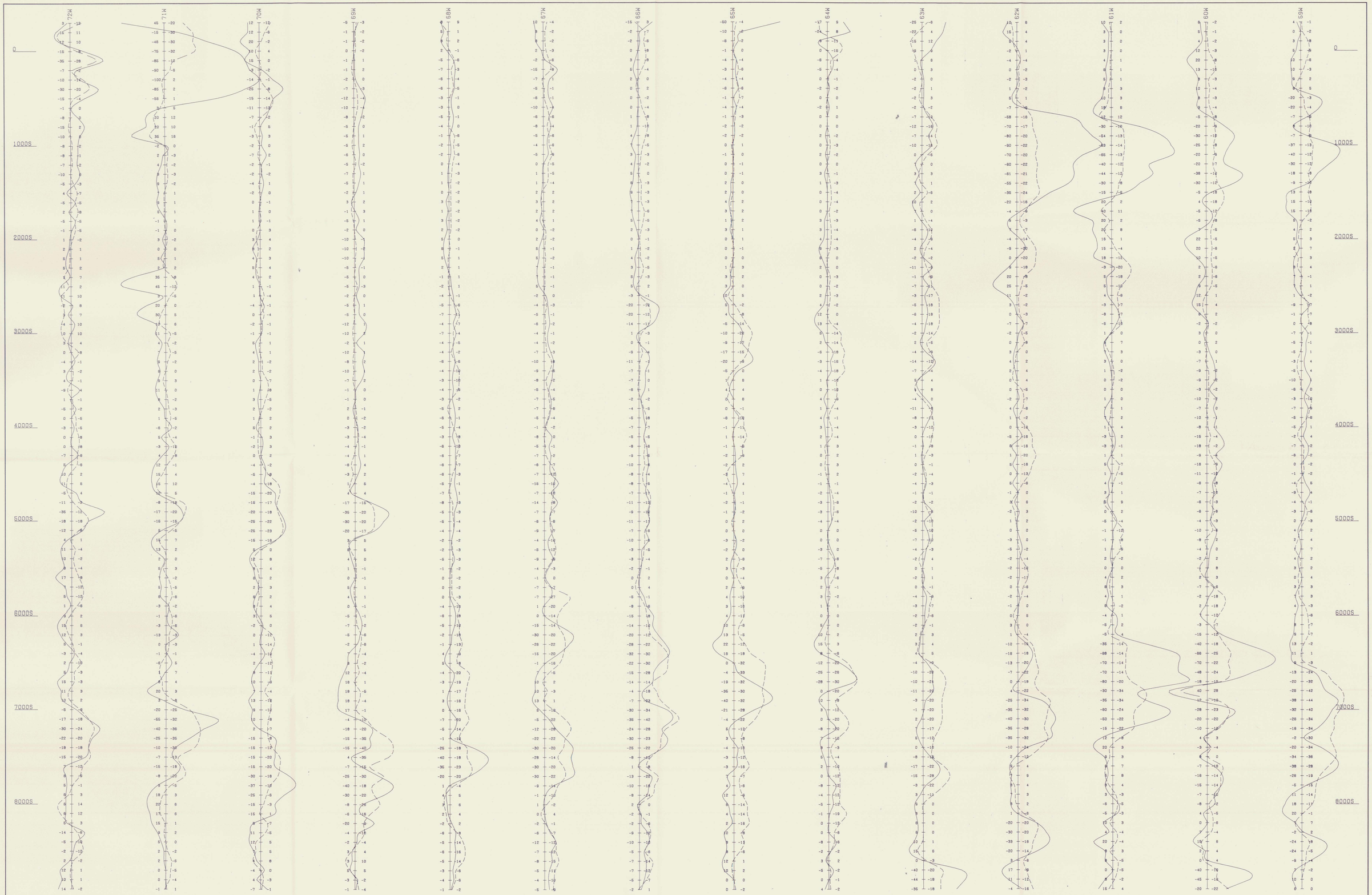


ELECTROMAGNETIC SURVEY

SHEET NO **6.1**

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

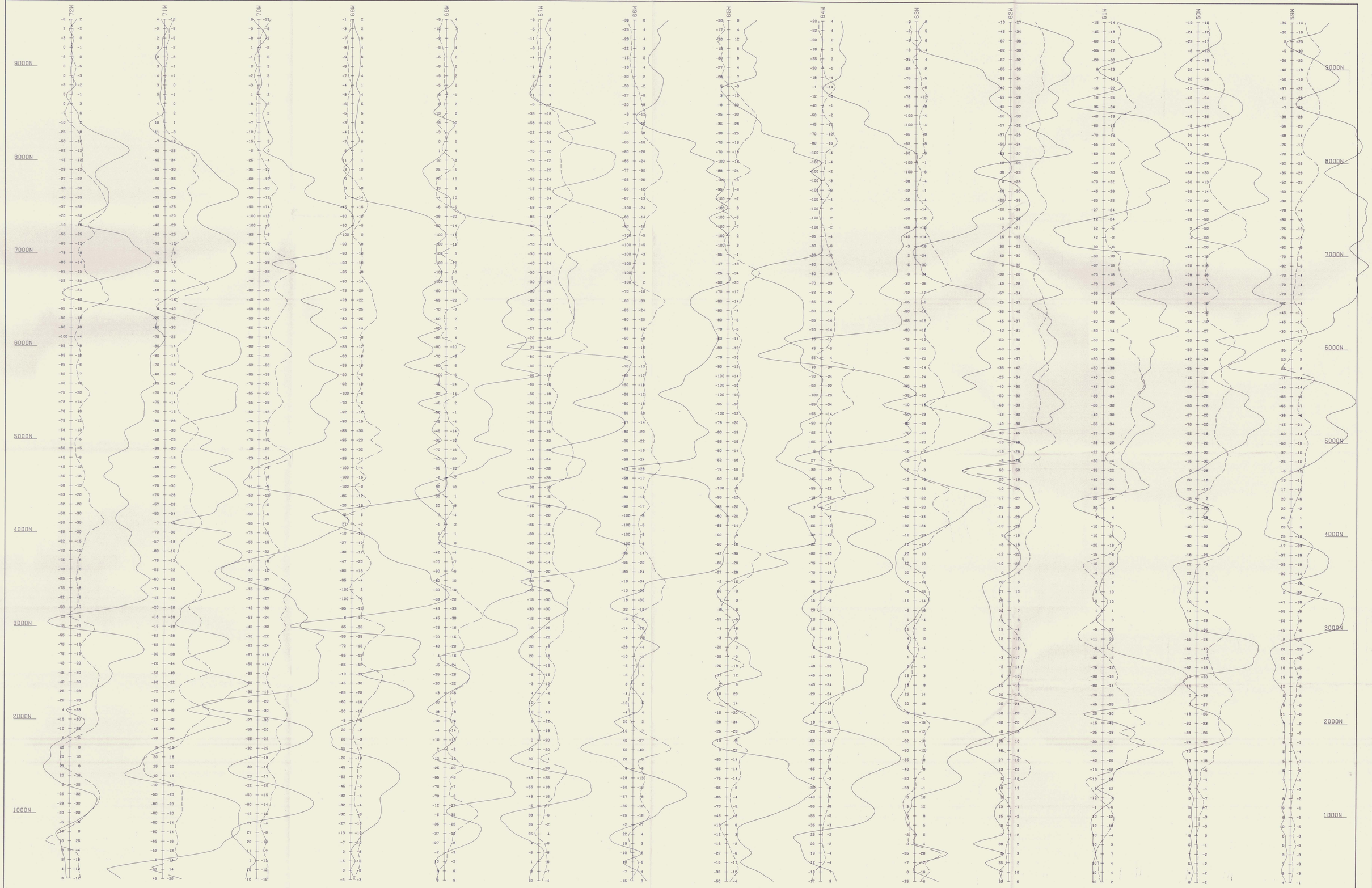


ELECTROMAGNETIC SURVEY

SHEET NO 6.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

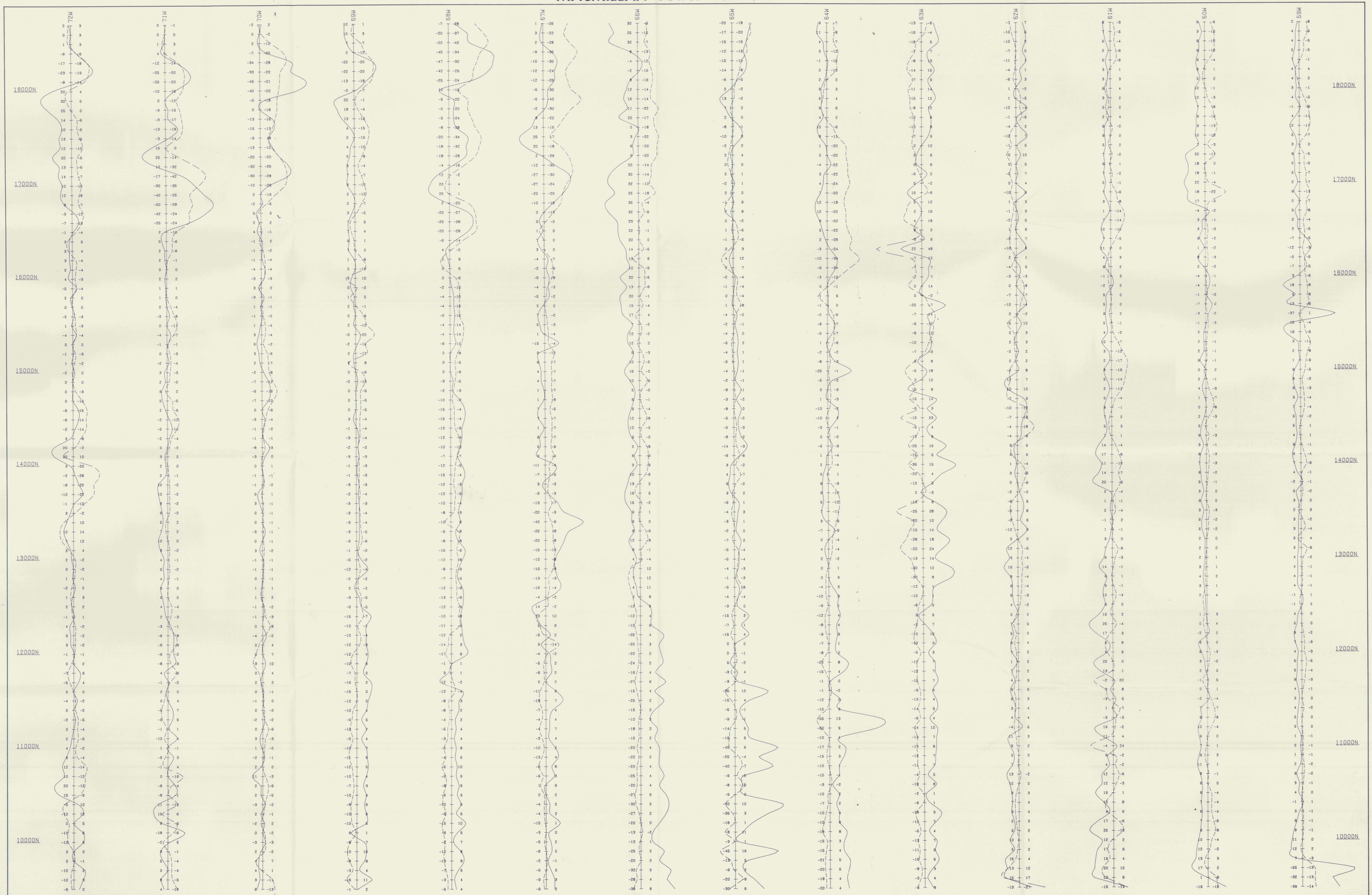


ELECTROMAGNETIC SURVEY

SHEET NO 6.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



ELECTROMAGNETIC SURVEY

SHEET NO 6.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

27000N

26000N

25000N

24000N

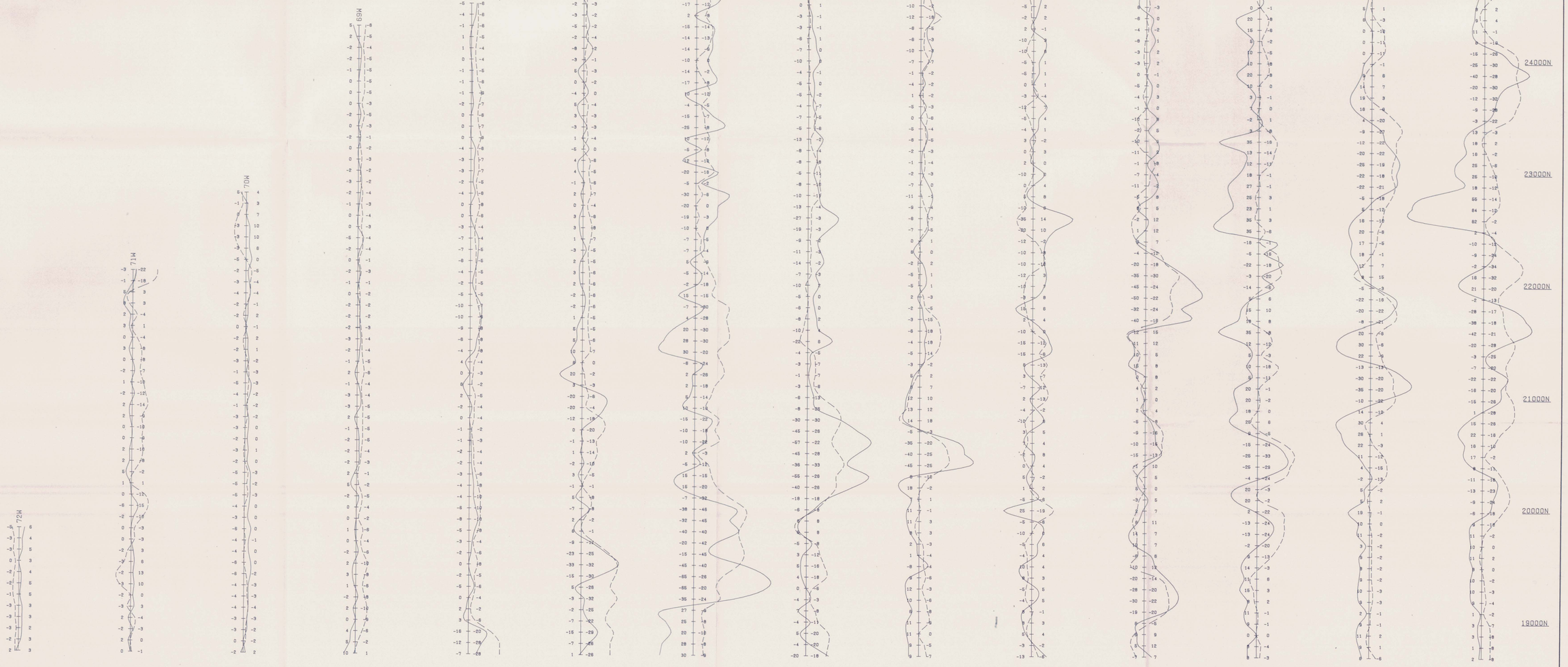
23000N

22000N

21000N

20000N

19000N



ELECTROMAGNETIC SURVEY

SHEET NO 6.5

MACMILLAN JOINT VENTURE

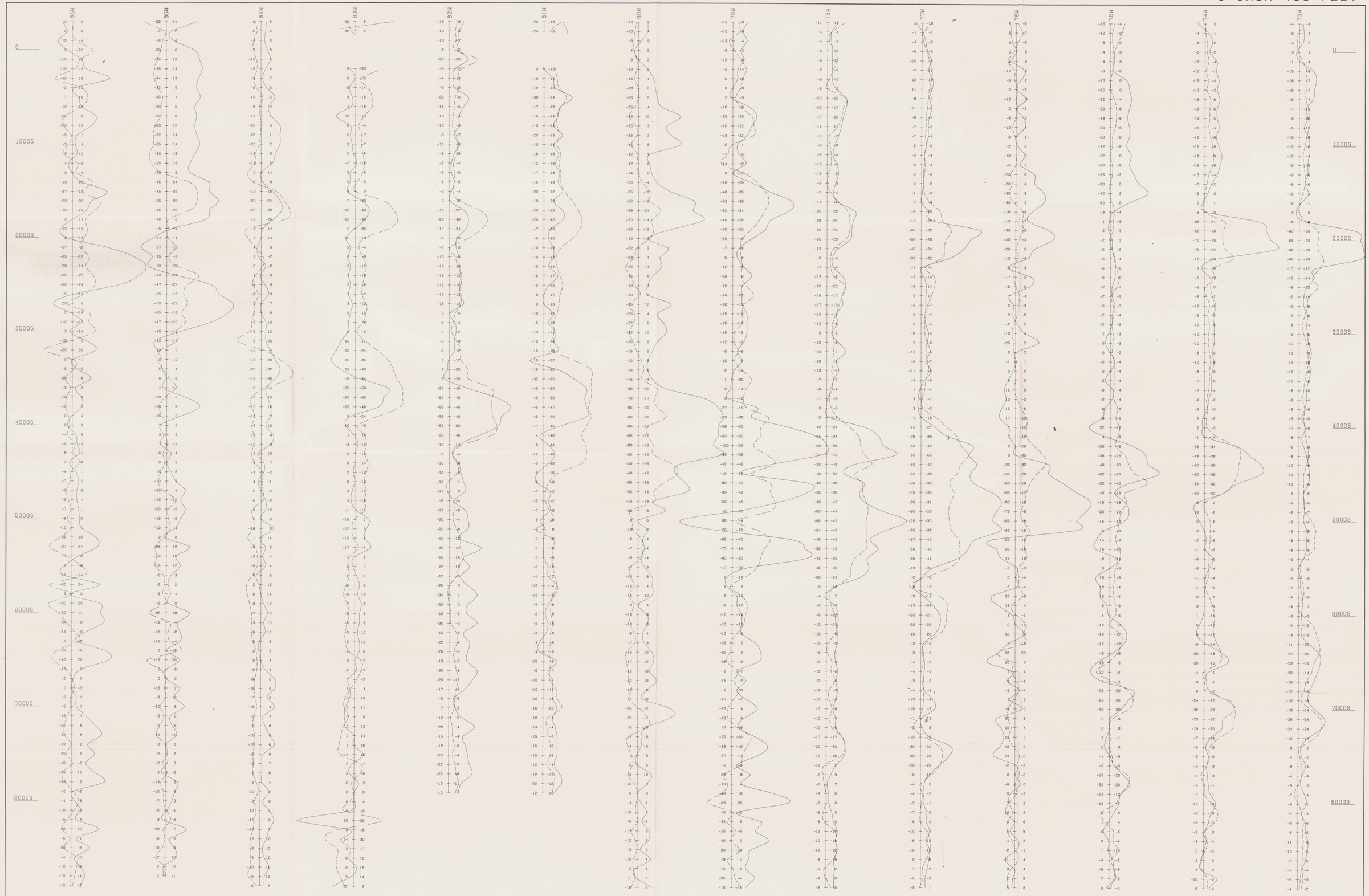
1 INCH=400 FEET

ELECTROMAGNETIC SURVEY

SHEET NO 7.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

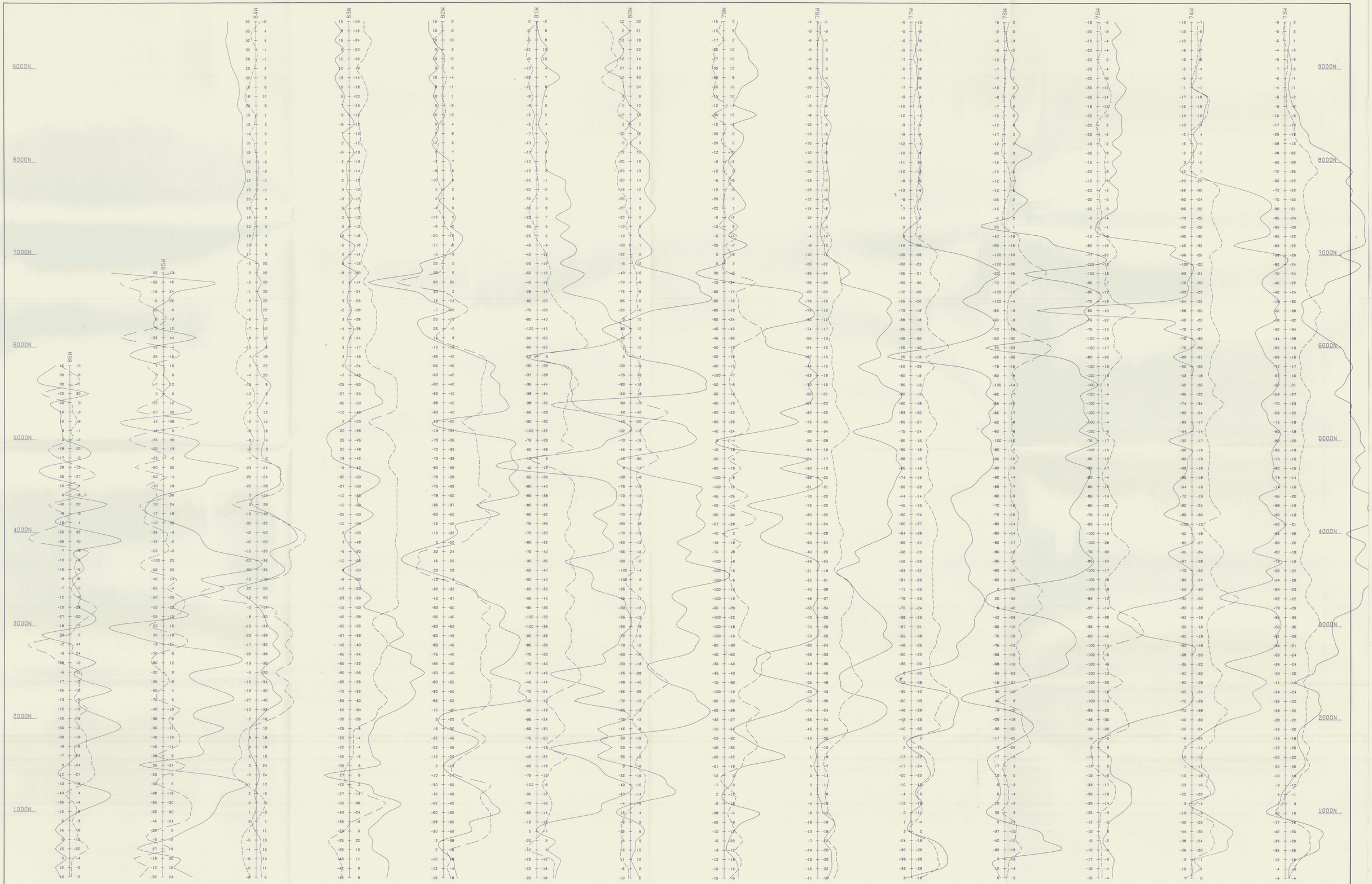


ELECTROMAGNETIC SURVEY

SHEET NO 7.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



ELECTROMAGNETIC SURVEY

SHEET NO 7.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

18000N

17000N

16000N

15000N

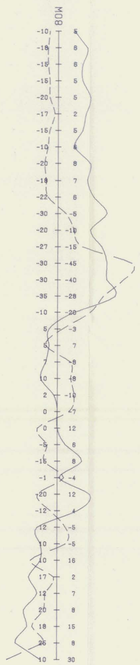
14000N

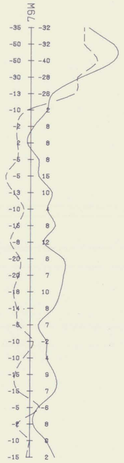
13000N

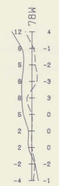
12000N

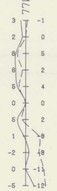
11000N

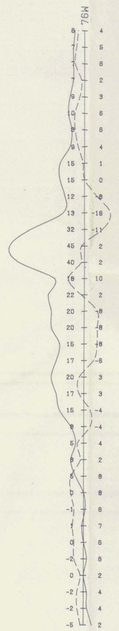
10000N

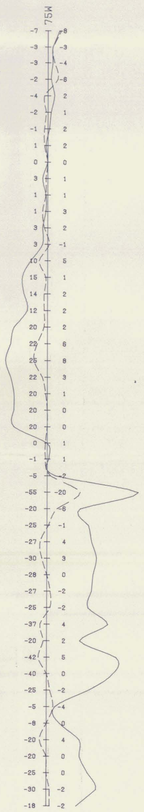


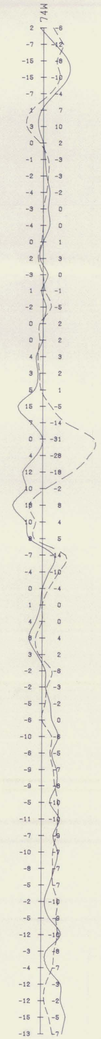












ELECTROMAGNETIC SURVEY

SHEET NO 7.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

9000S

10000S

11000S

12000S

13000S

14000S

15000S

16000S

17000S

18000S

9000S
10000S
11000S
12000S
13000S
14000S
15000S
16000S
17000S
18000S

ELECTROMAGNETIC SURVEY

SHEET NO 8.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

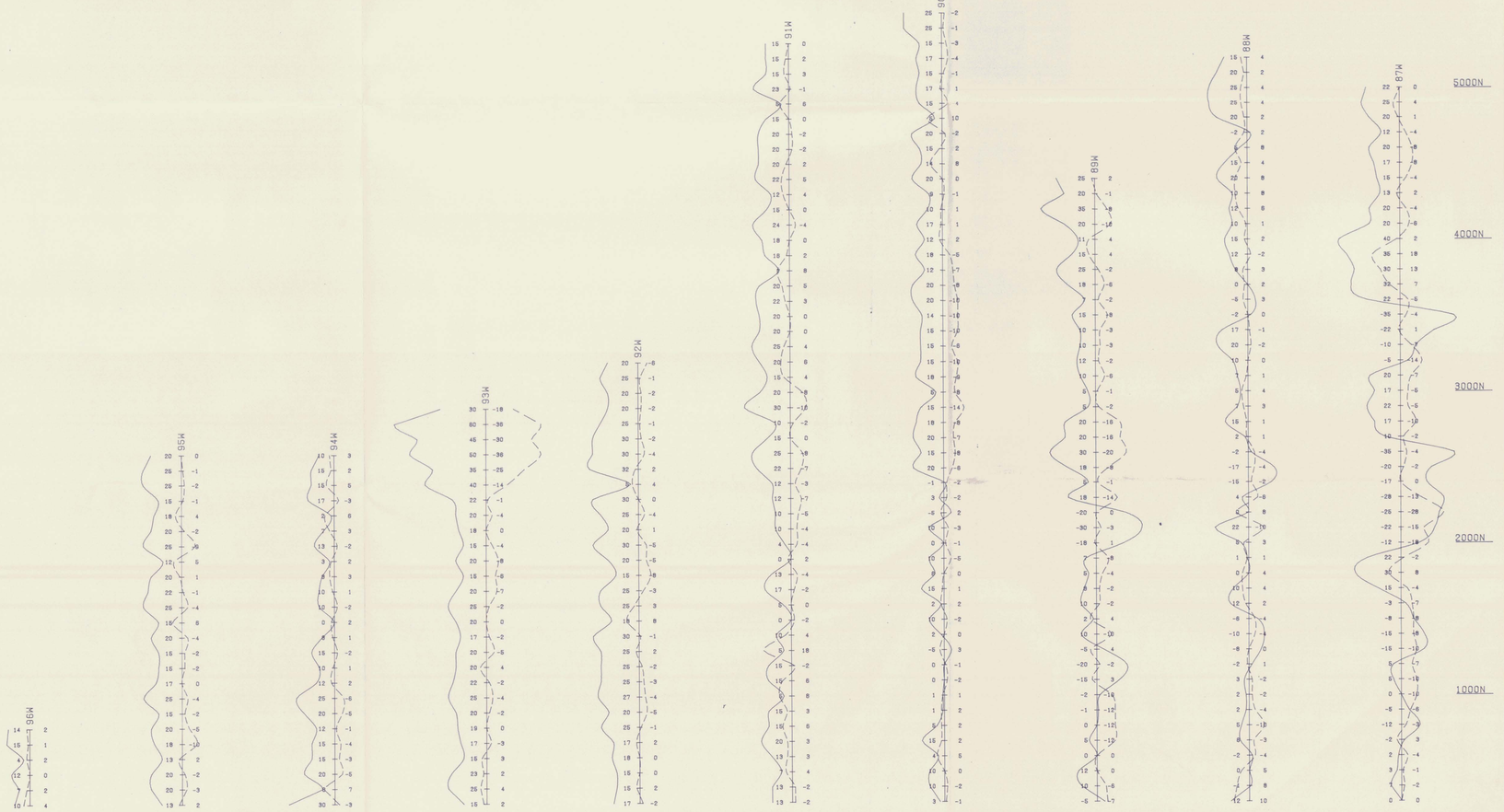
ELECTROMAGNETIC SURVEY

SHEET NO 8.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

9000N
8000N
7000N
6000N
5000N
4000N
3000N
2000N
1000N

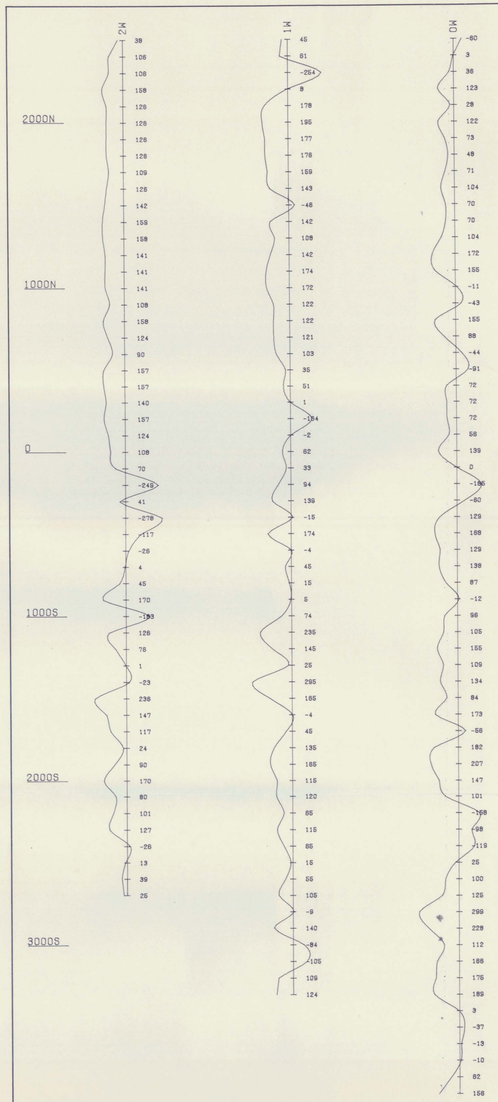


ELECTROMAGNETIC SURVEY

SHEET NO 8.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



2000N

1000N

0

1000S

2000S

3000S

4000S

5000S

6000S

MAGNETOMETER SURVEY

SHEET NO 1.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

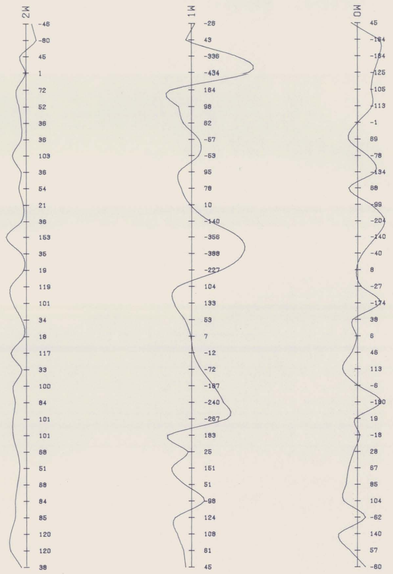
7000N

6000N

5000N

4000N

3000N



11000N

10000N

9000N

8000N

7000N

6000N

5000N

4000N

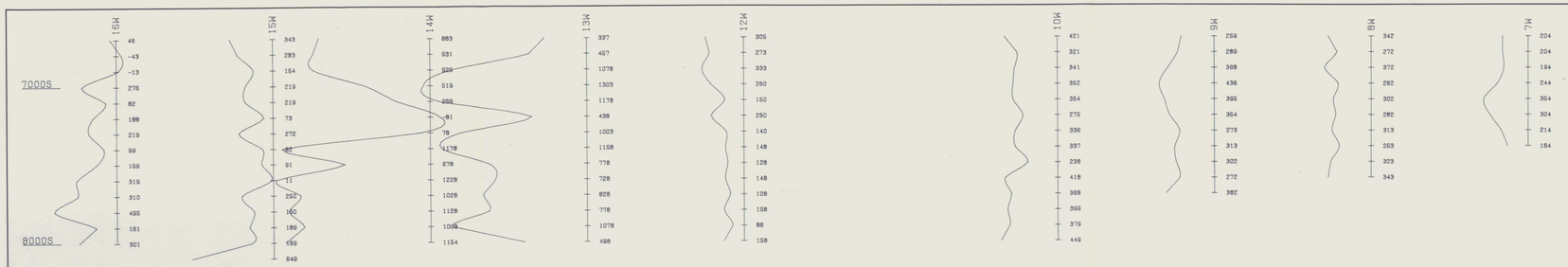
3000N

MAGNETOMETER SURVEY

SHEET NO 1.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



7000S

8000S

9000S

10000S

11000S

12000S

13000S

14000S

15000S

7000S

8000S

9000S

10000S

11000S

12000S

13000S

14000S

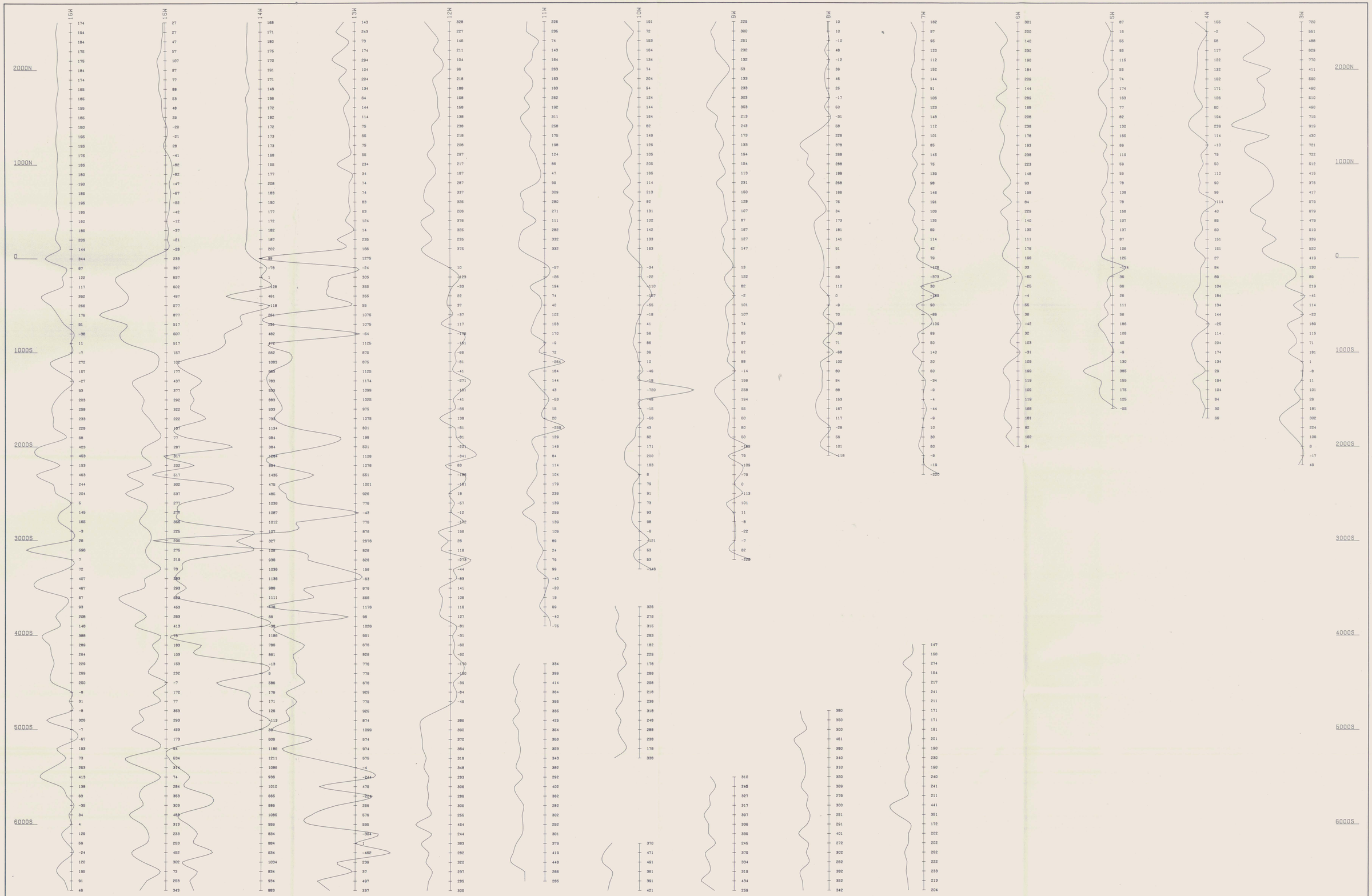
15000S

MAGNETOMETER SURVEY

SHEET NO 2.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



MAGNETOMETER SURVEY

SHEET NO 2.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

7000N

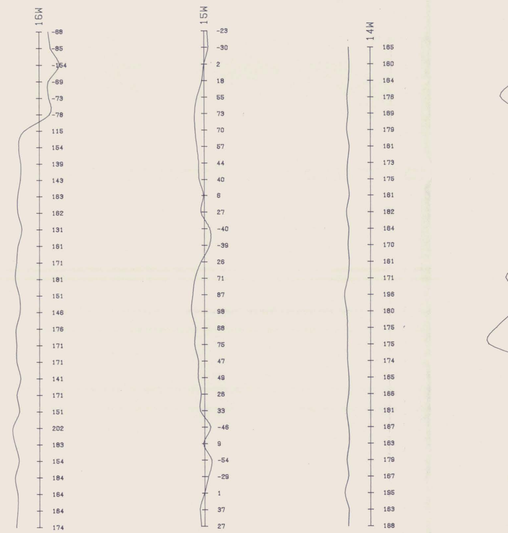
7000N

6000N

5000N

4000N

3000N



7000N

6000N

5000N

4000N

3000N

MAGNETOMETER SURVEY

SHEET NO 2.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 3.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 3.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 3.4

MACMILLAN JOINT VENTURE

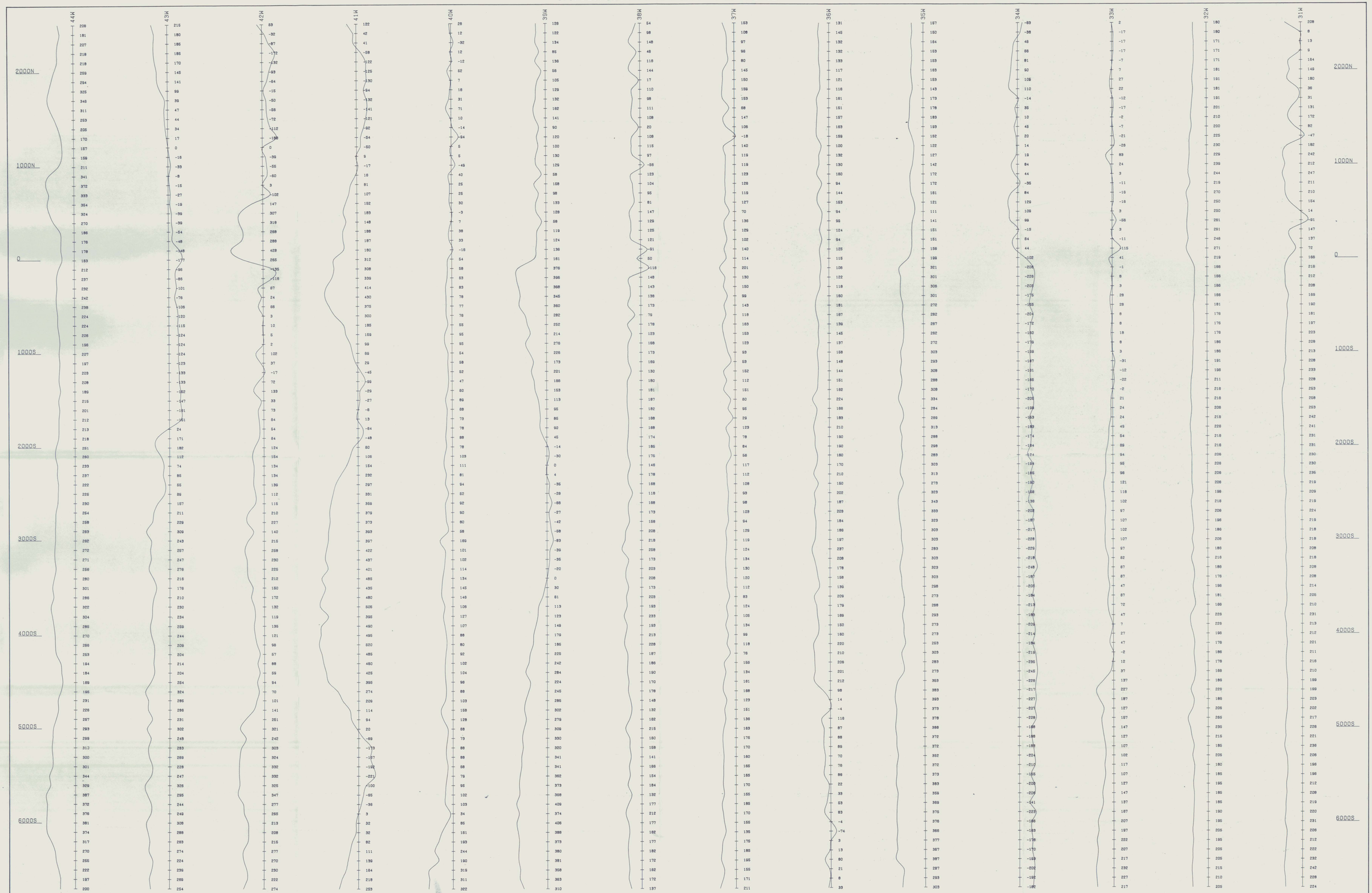
1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 4.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

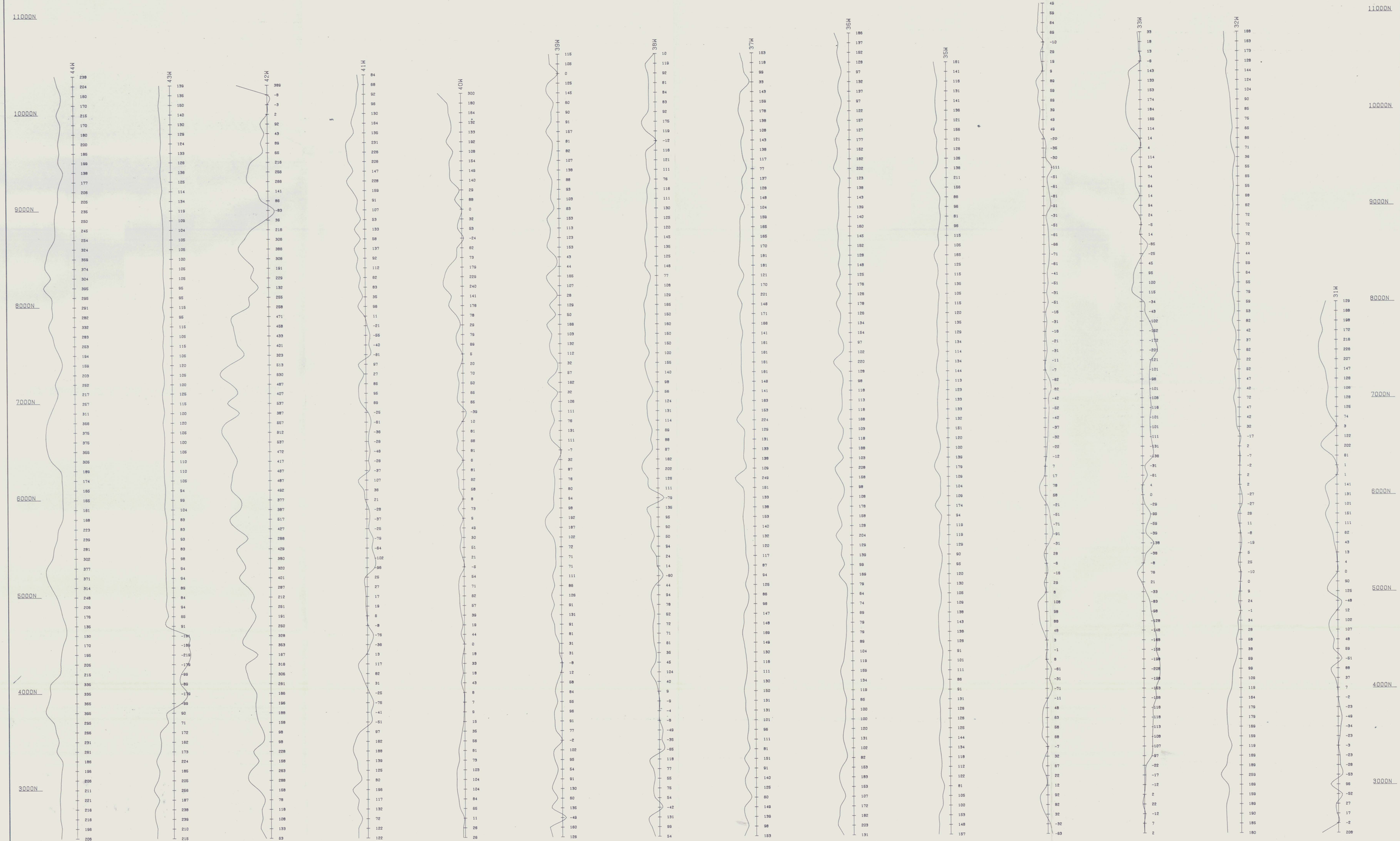


MAGNETOMETER SURVEY

SHEET NO 4.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



MAGNETOMETER SURVEY

SHEET NO 4.4

MACMILLAN JOINT VENTURE

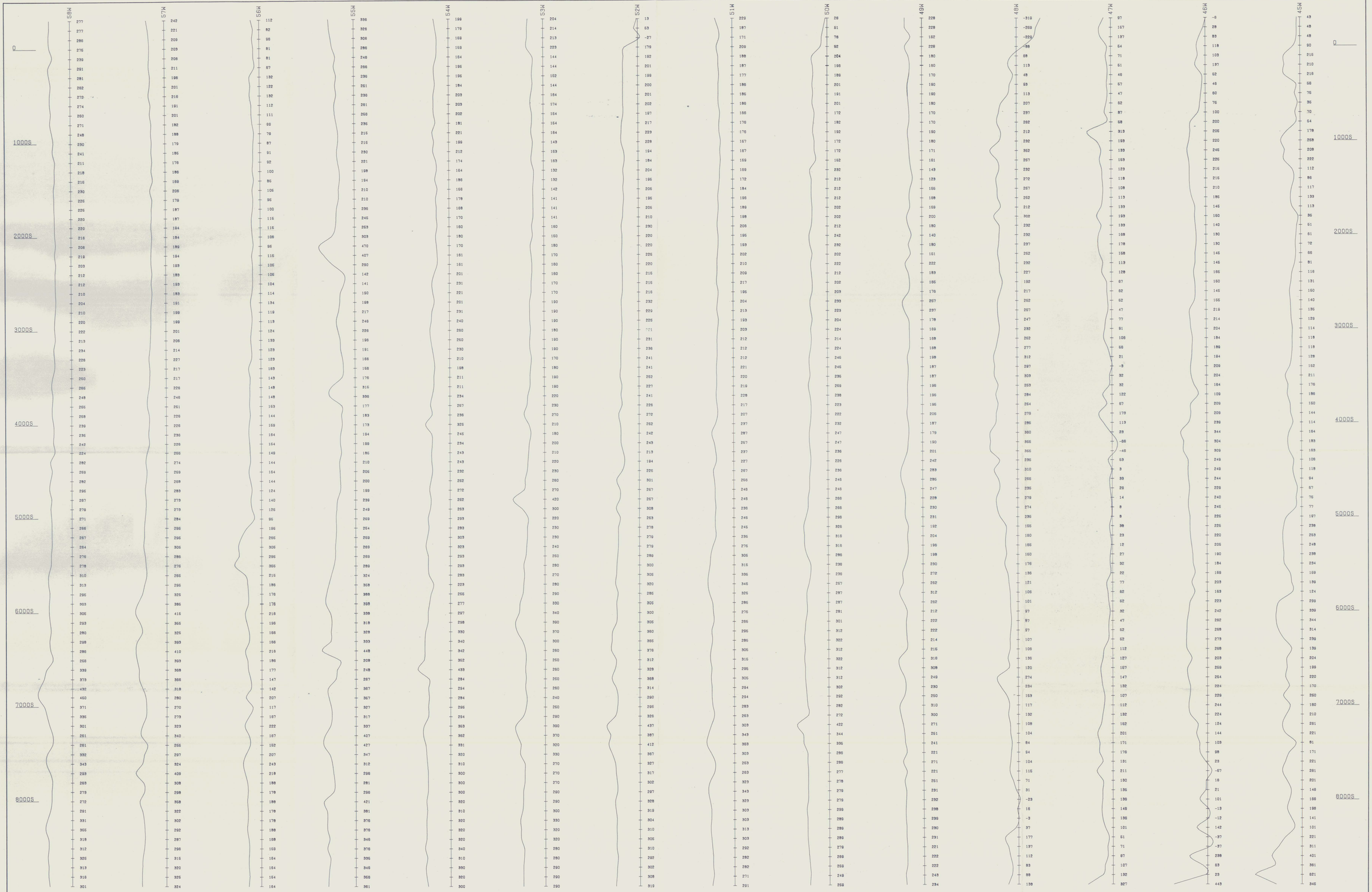
1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 5.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



MAGNETOMETER SURVEY

SHEET NO 5.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 5.3

MACMILLAN JOINT VENTURE

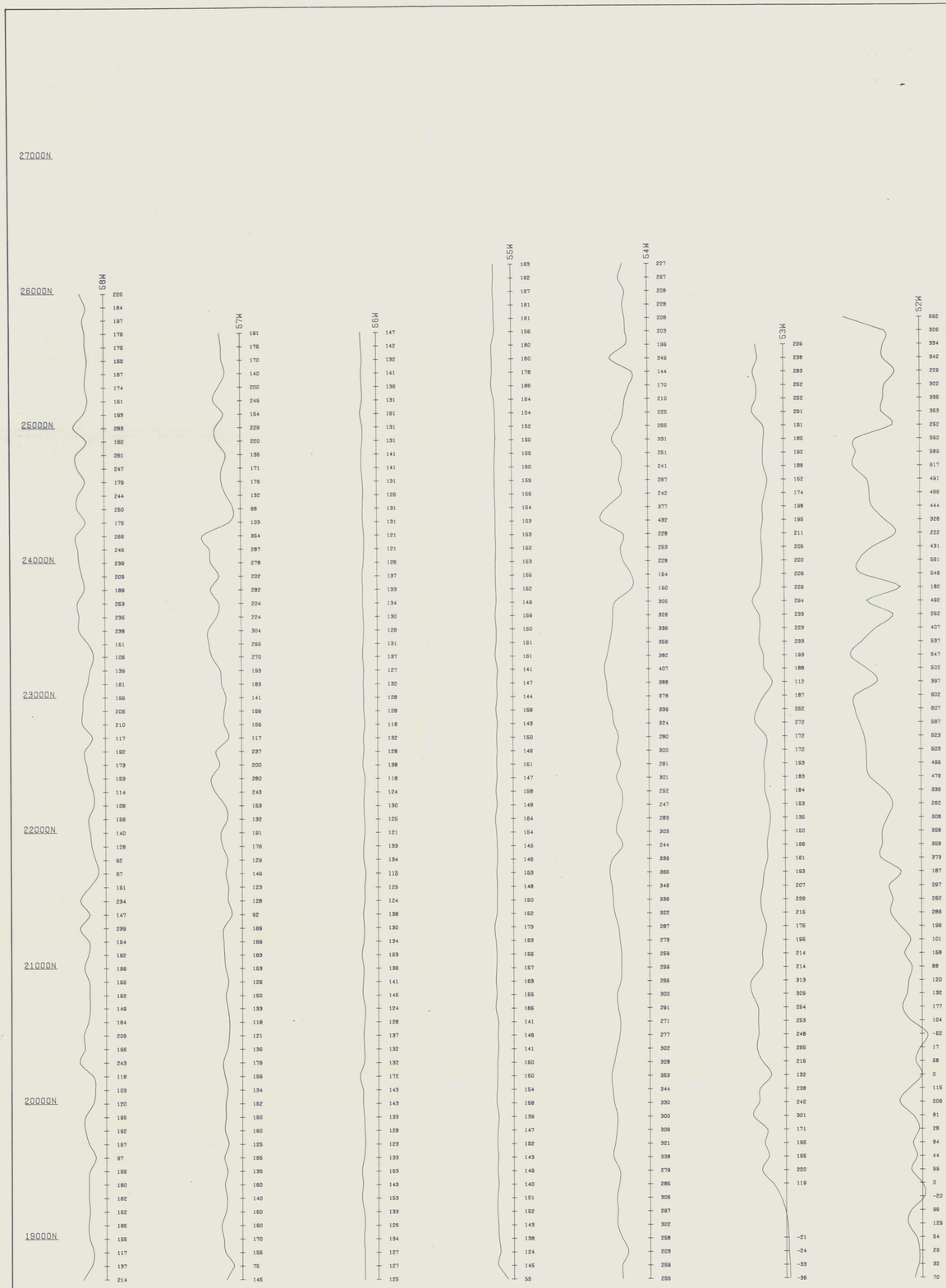
1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 5.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



27000N
26000N
25000N
24000N
23000N
22000N
21000N
20000N
19000N

MAGNETOMETER SURVEY

SHEET NO 5.5

MACMILLAN JOINT VENTURE

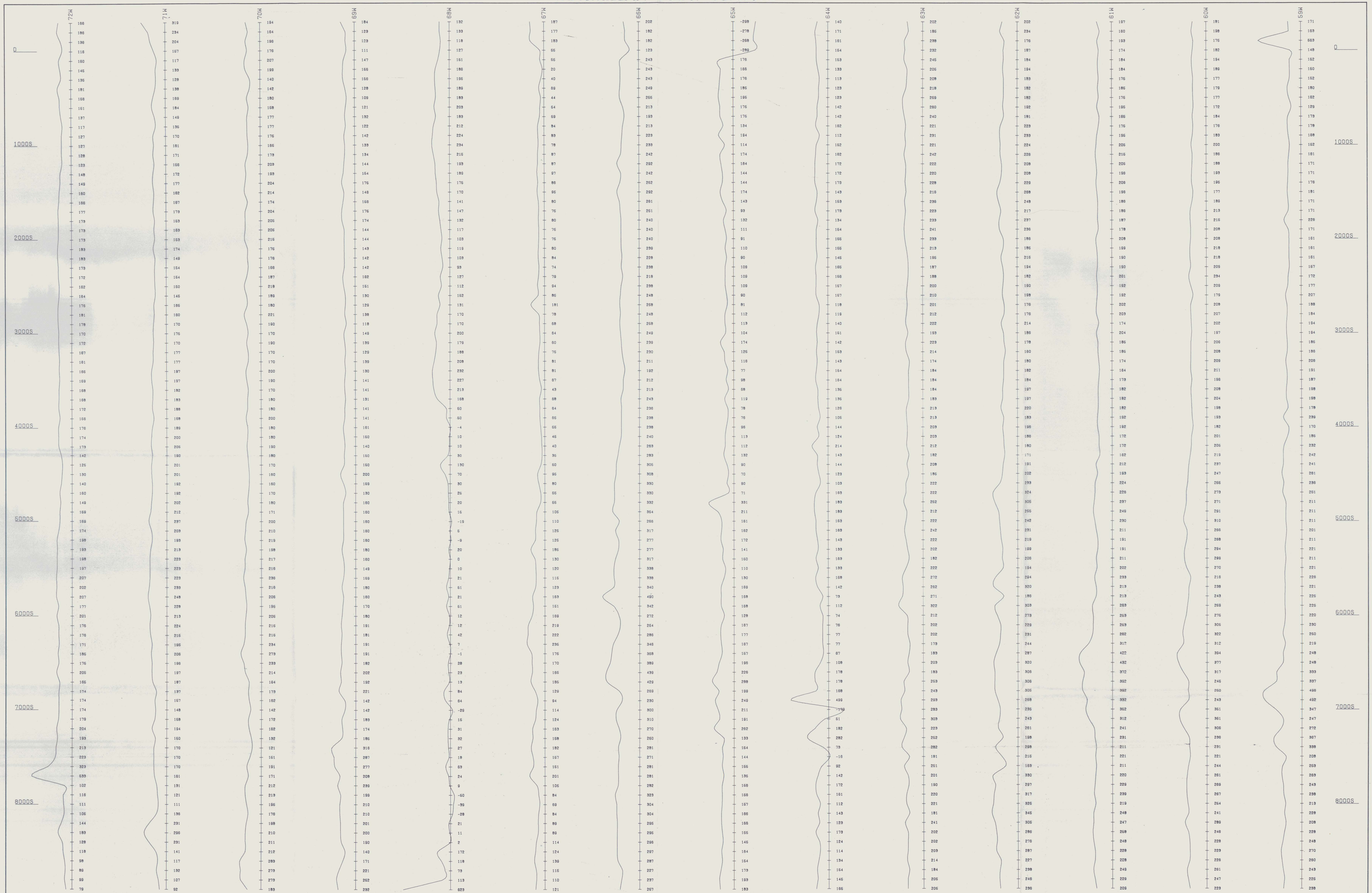
1 INCH=400 FEET

MAGNETOMETER SURVEY

SHEET NO 6.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

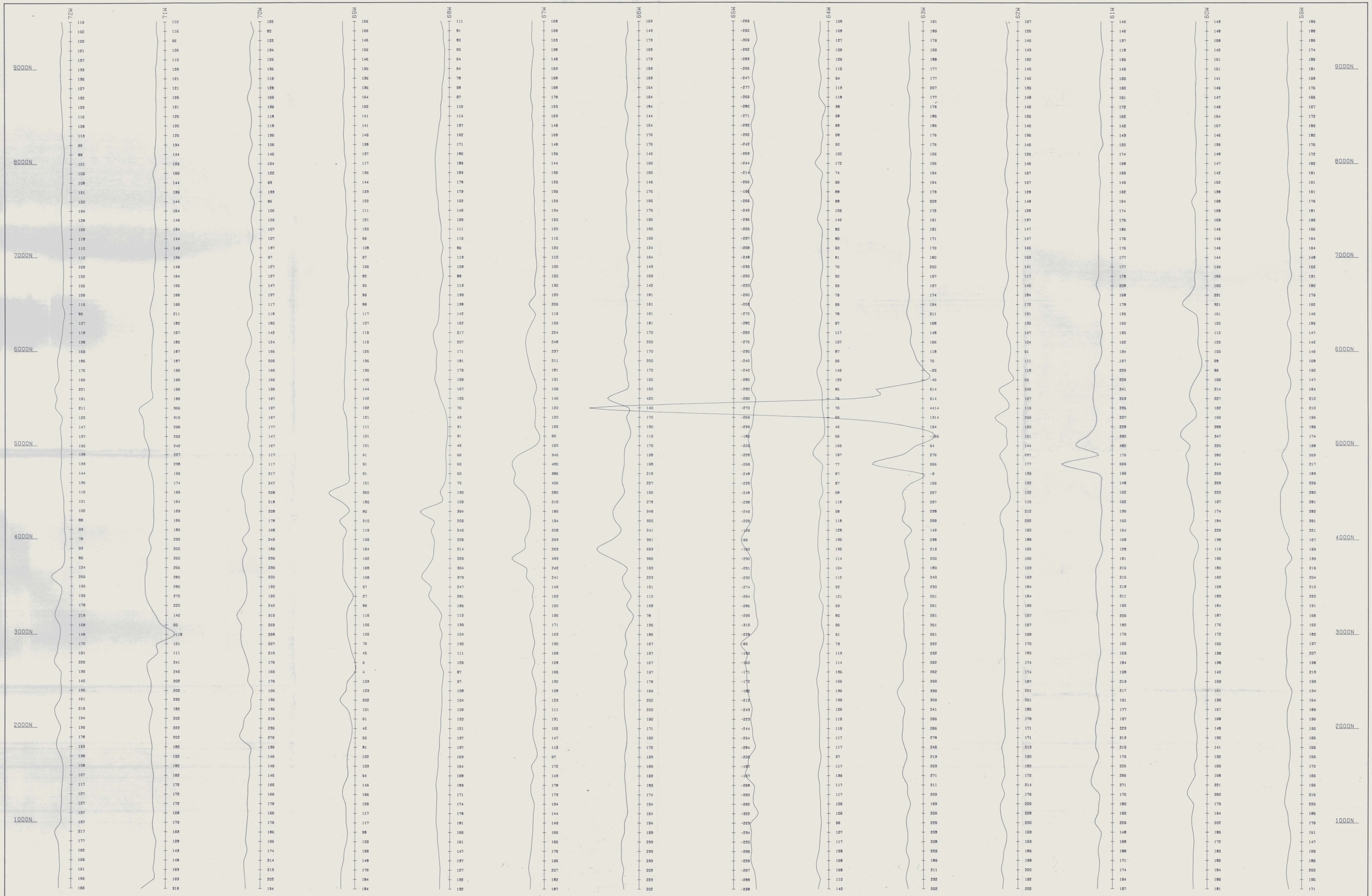


MAGNETOMETER SURVEY

SHEET NO 6.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

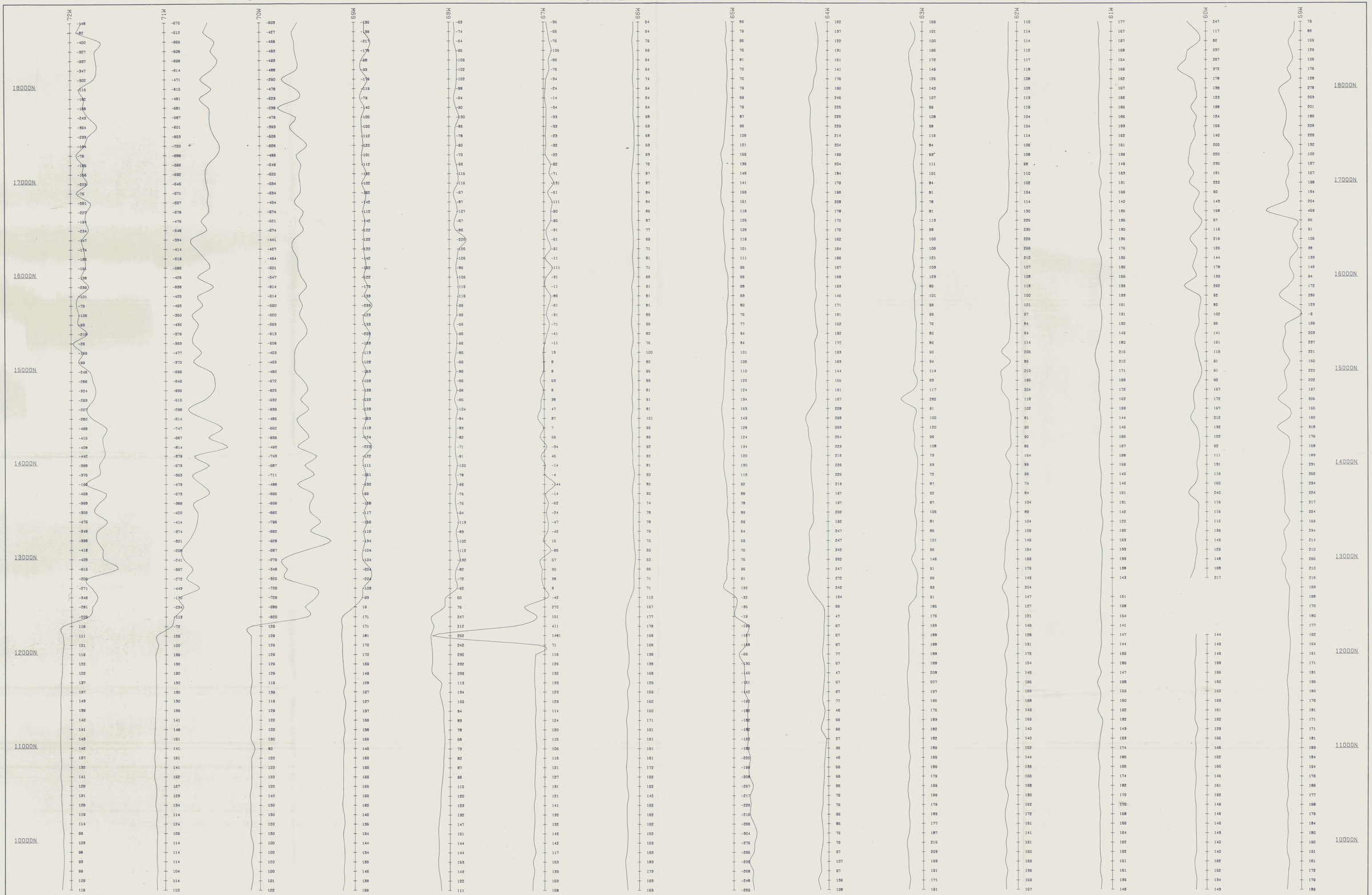


MAGNETOMETER SURVEY

SHEET NO 6.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

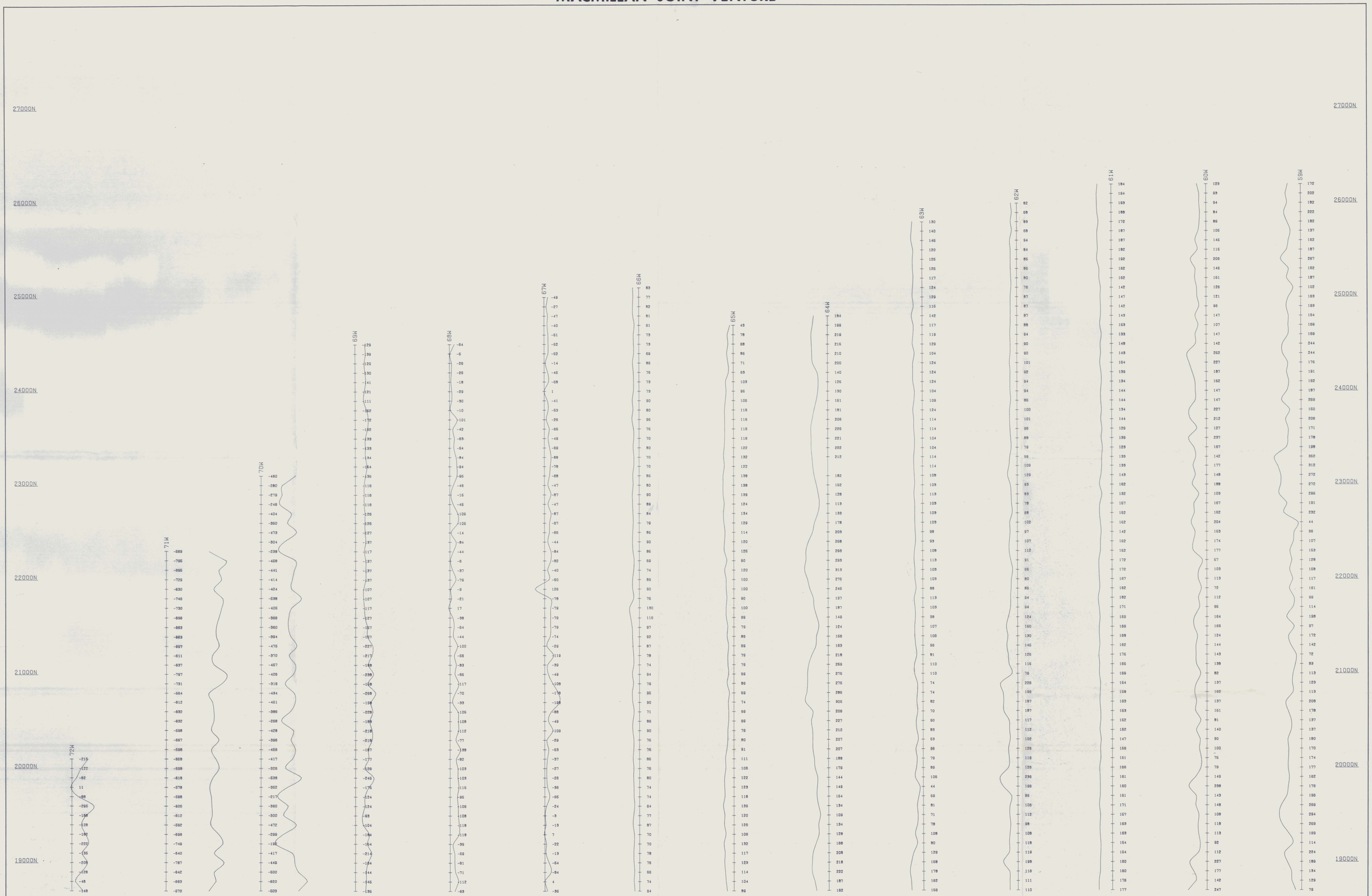


MAGNETOMETER SURVEY

SHEET NO 6.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

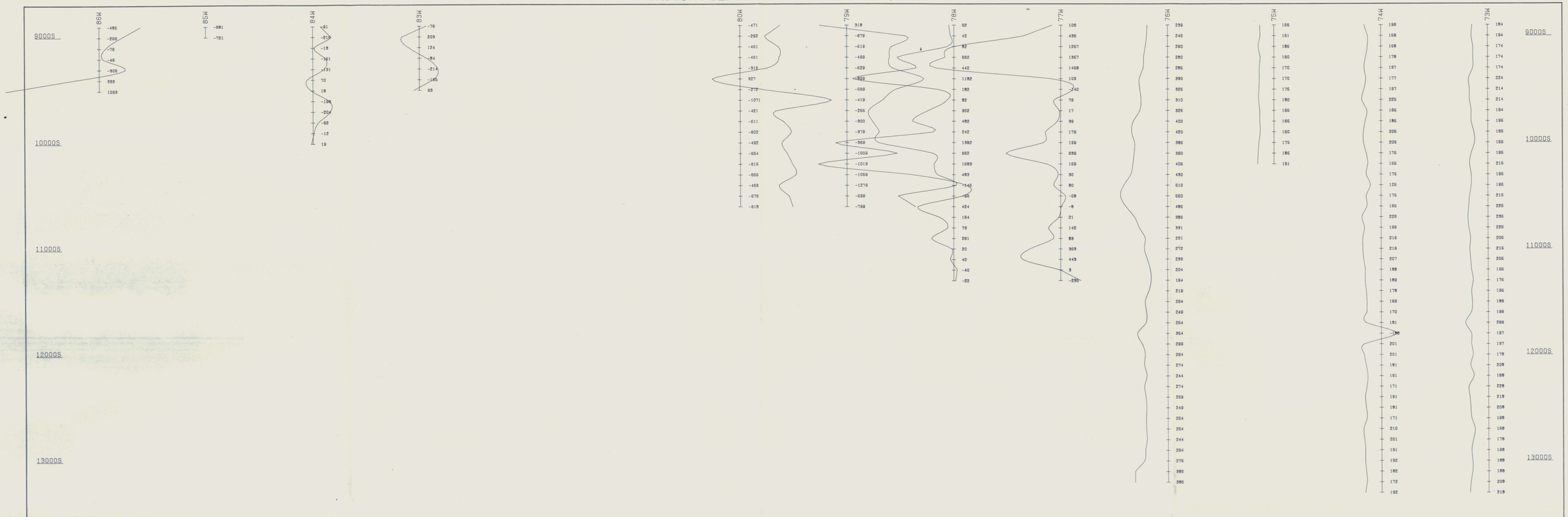


MAGNETOMETER SURVEY

SHEET NO 6.5

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

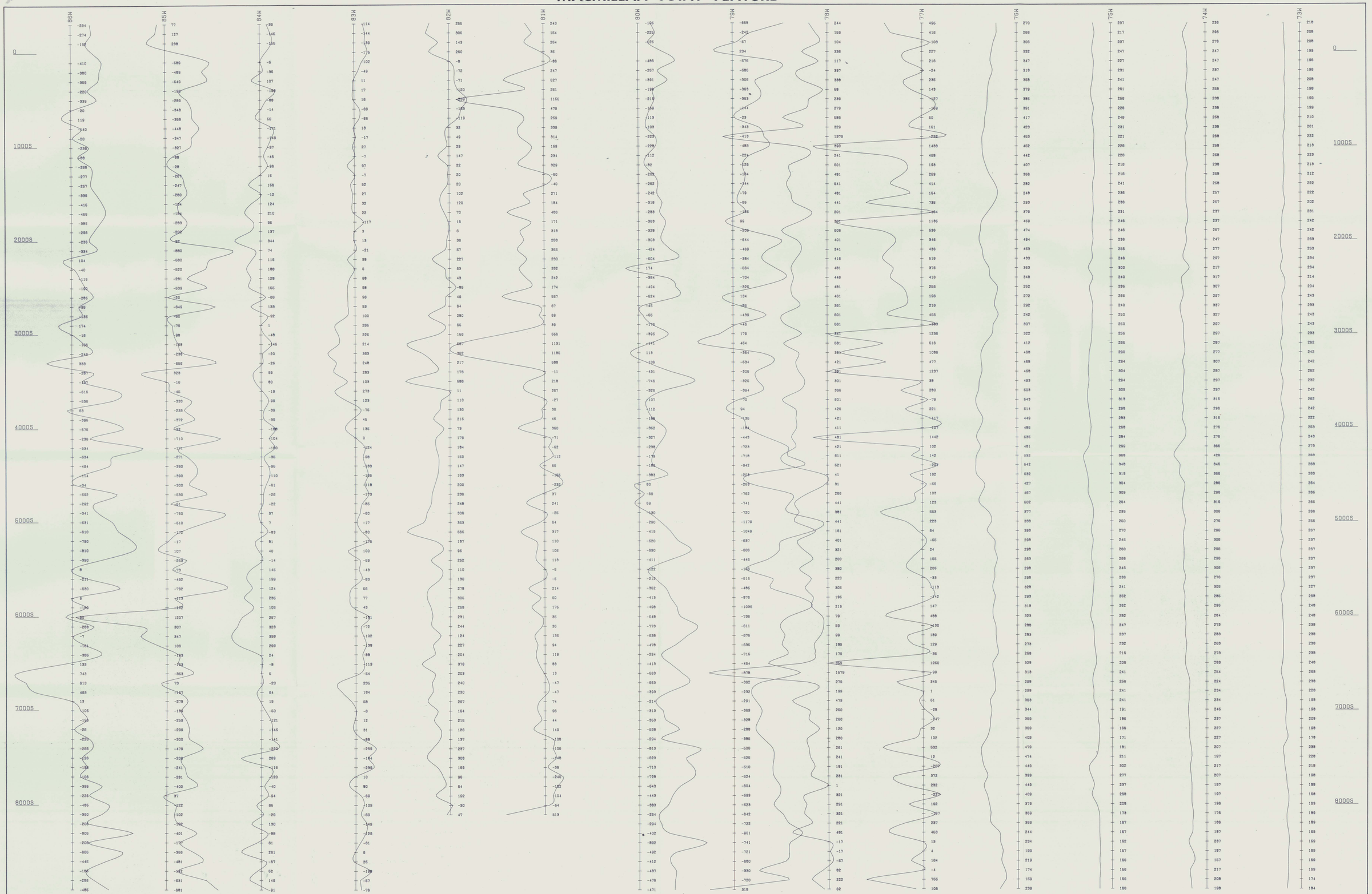


MAGNETOMETER SURVEY

SHEET NO 7.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

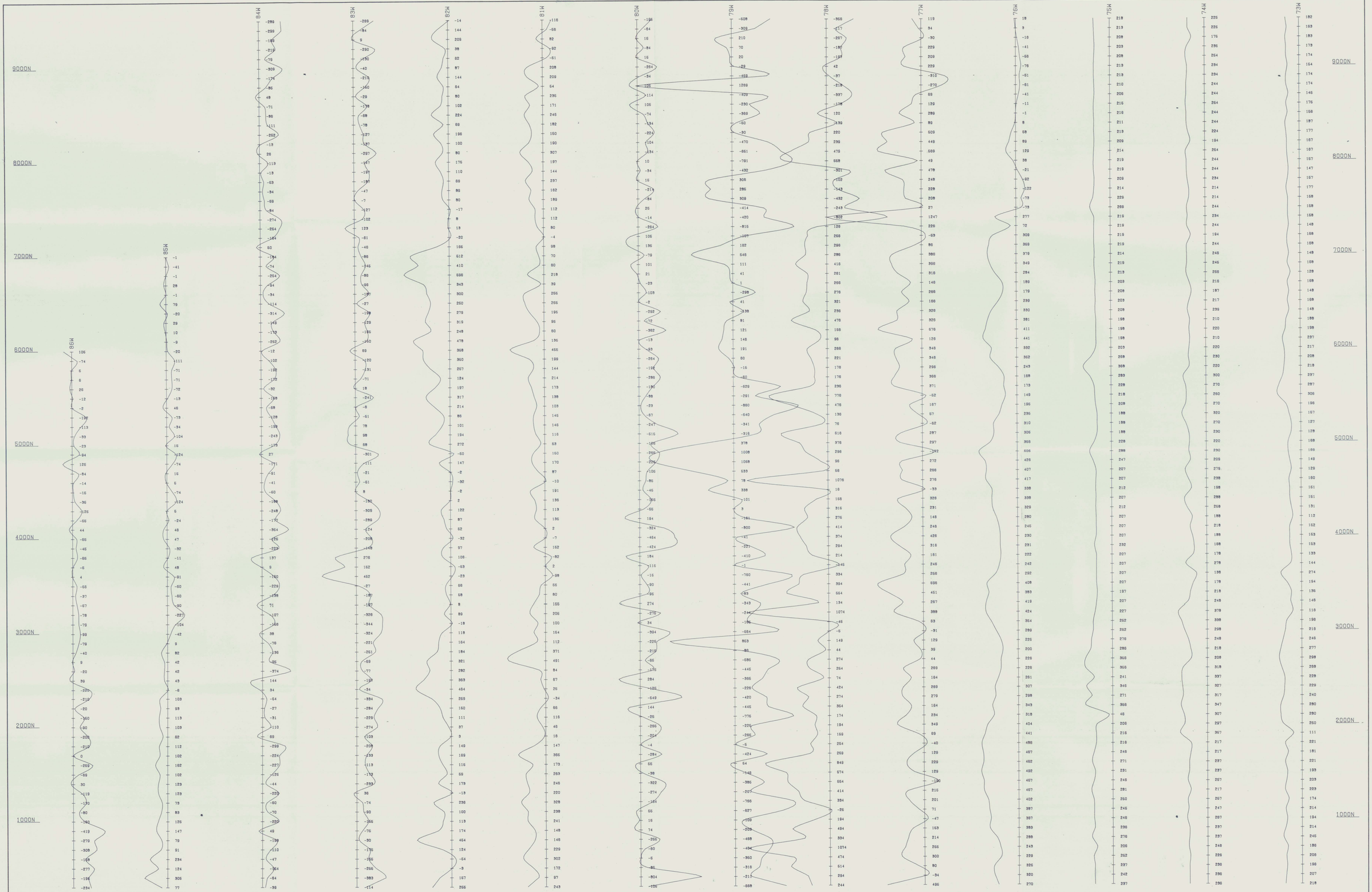


MAGNETOMETER SURVEY

SHEET NO 7.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



MAGNETOMETER SURVEY

SHEET NO 7.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

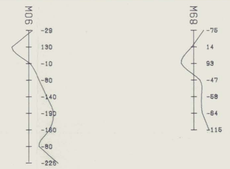
18000N
17000N
16000N
15000N
14000N
13000N
12000N
11000N
10000N

MAGNETOMETER SURVEY

SHEET NO 7.4

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



9000S

10000S

11000S

12000S

13000S

14000S

15000S

16000S

17000S

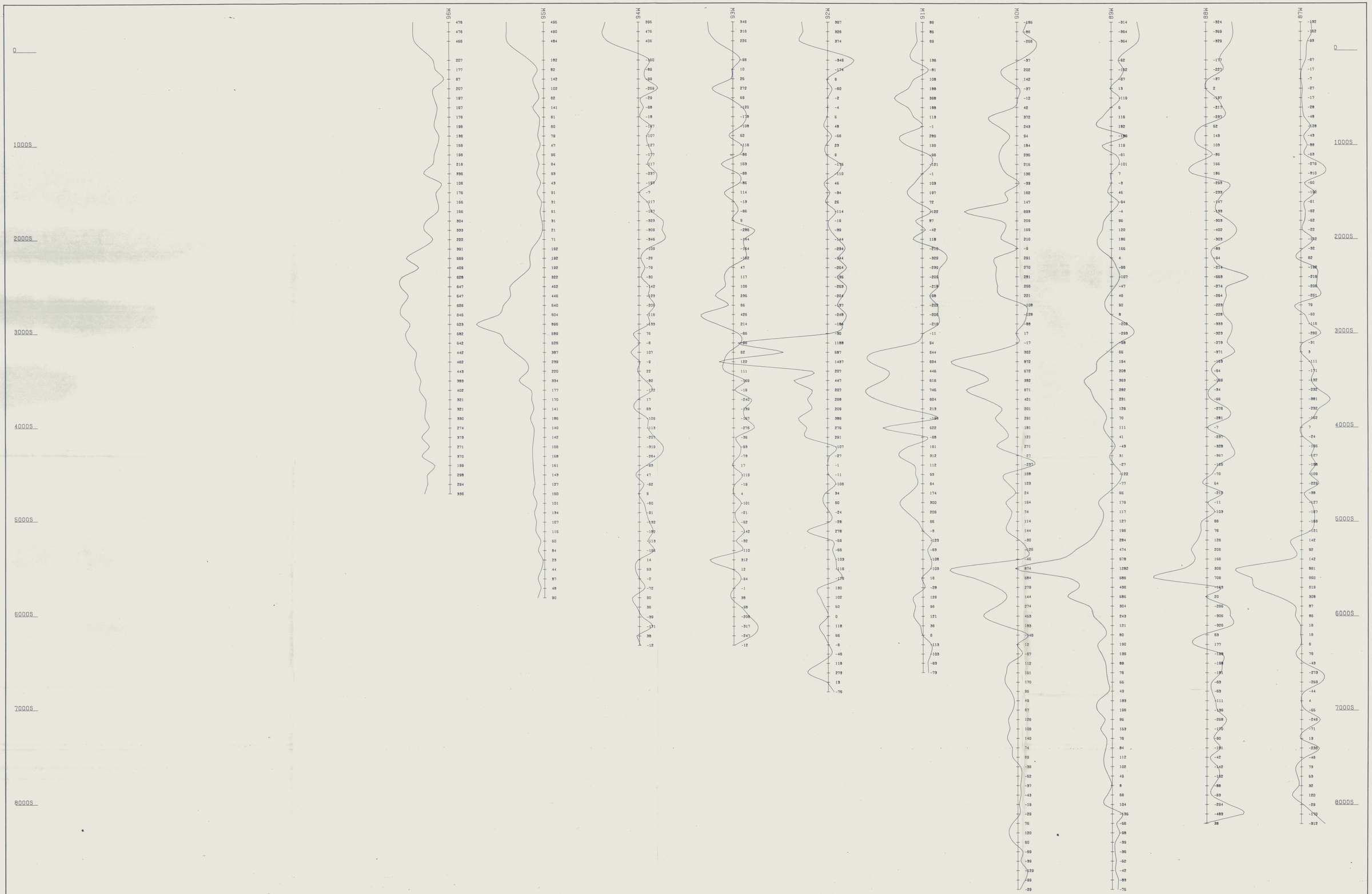
18000S

MAGNETOMETER SURVEY

SHEET NO 8.1

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



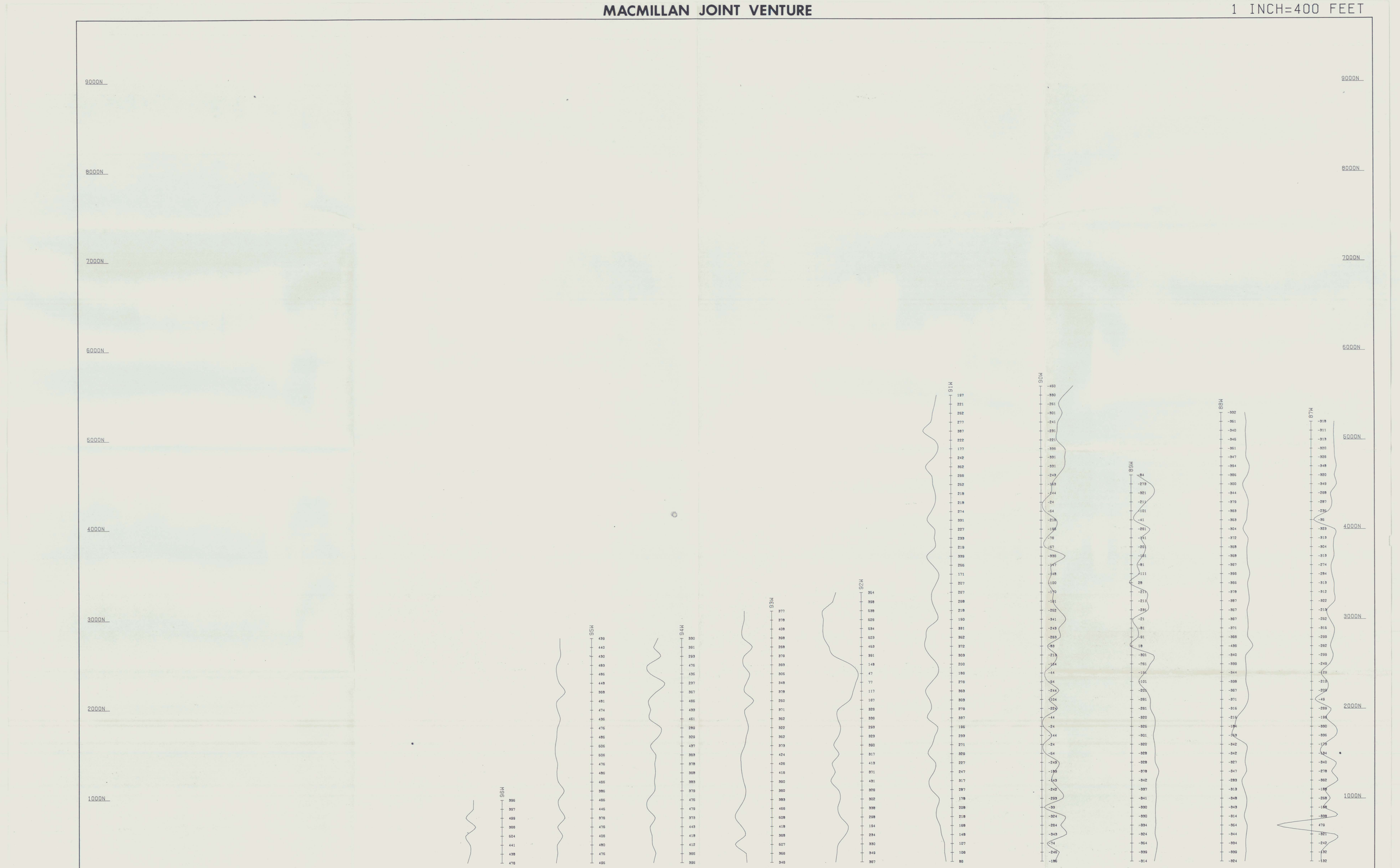
MAGNETOMETER SURVEY

SHEET NO 8.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

9000N
8000N
7000N
6000N
5000N
4000N
3000N
2000N
1000N

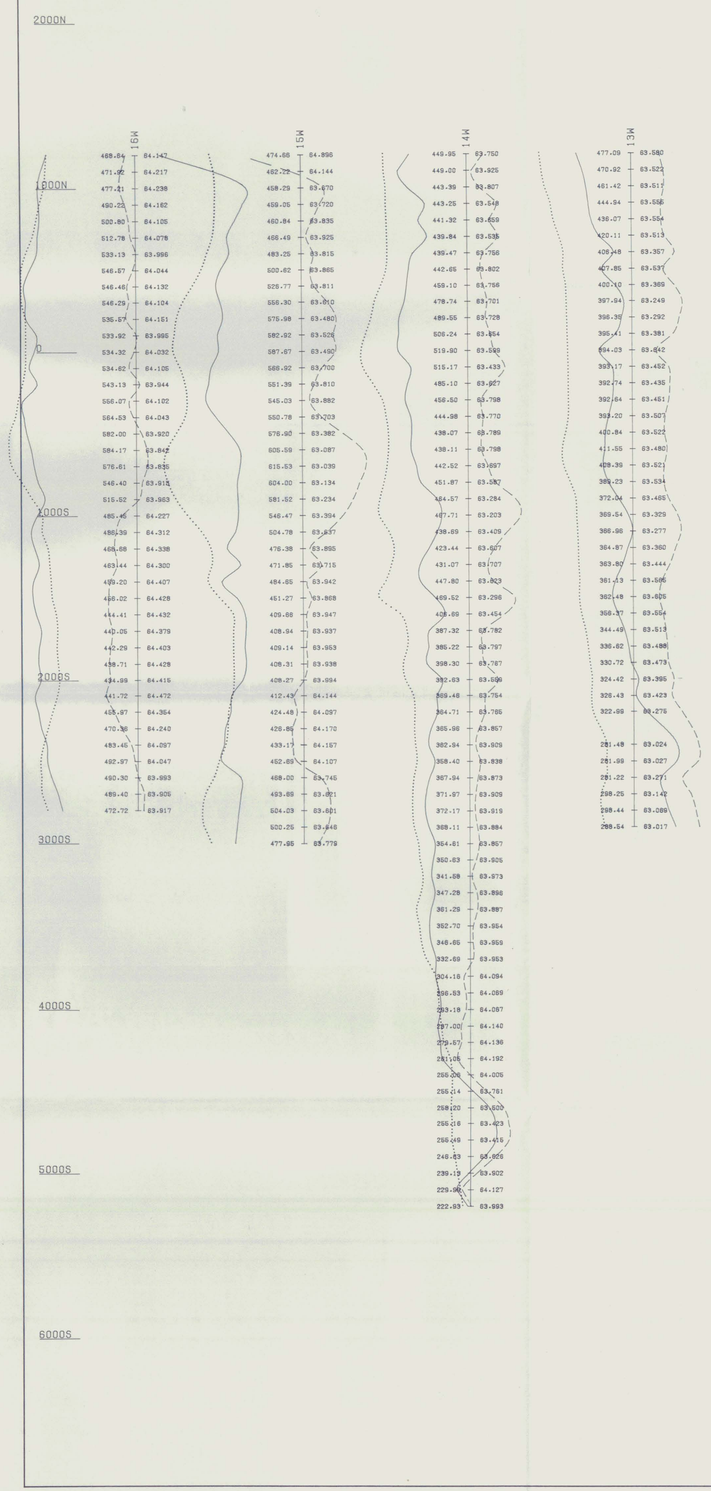


MAGNETOMETER SURVEY

SHEET NO 8.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET



GRAVITY SURVEY

SHEET NO 2.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

GRAVITY SURVEY

SHEET NO **3.2**

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

GRAVITY SURVEY

SHEET NO 3.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

11000N

10000N

9000N

8000N

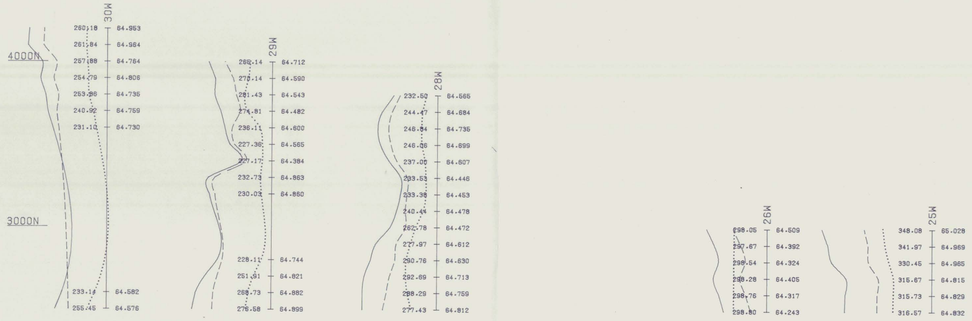
7000N

6000N

5000N

4000N

3000N

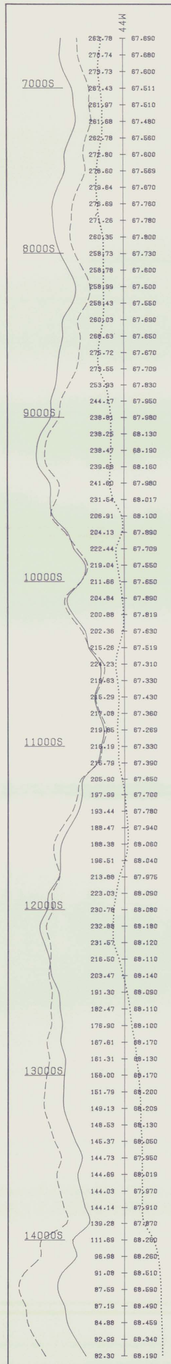


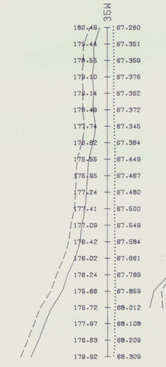
GRAVITY SURVEY

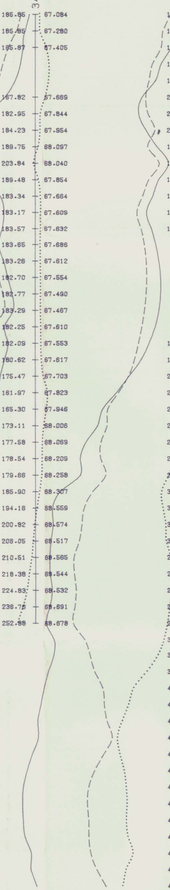
SHEET NO **3.4**

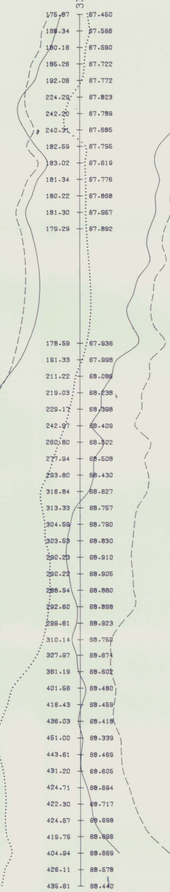
MACMILLAN JOINT VENTURE

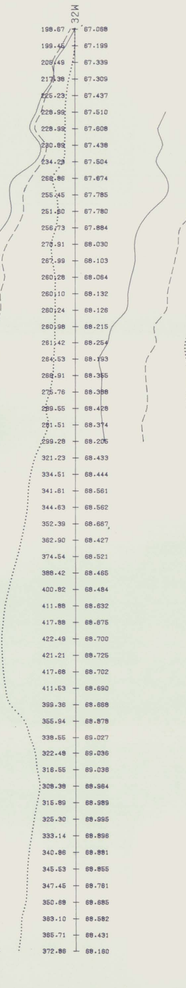
1 INCH=400 FEET

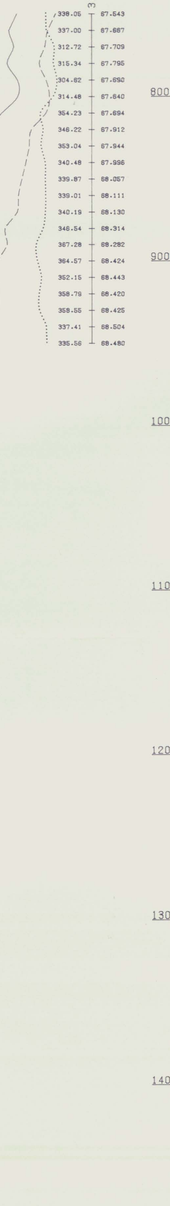












GRAVITY SURVEY

SHEET NO 4.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

GRAVITY SURVEY

SHEET NO 4.3

11000N

10000N

9000N

8000N

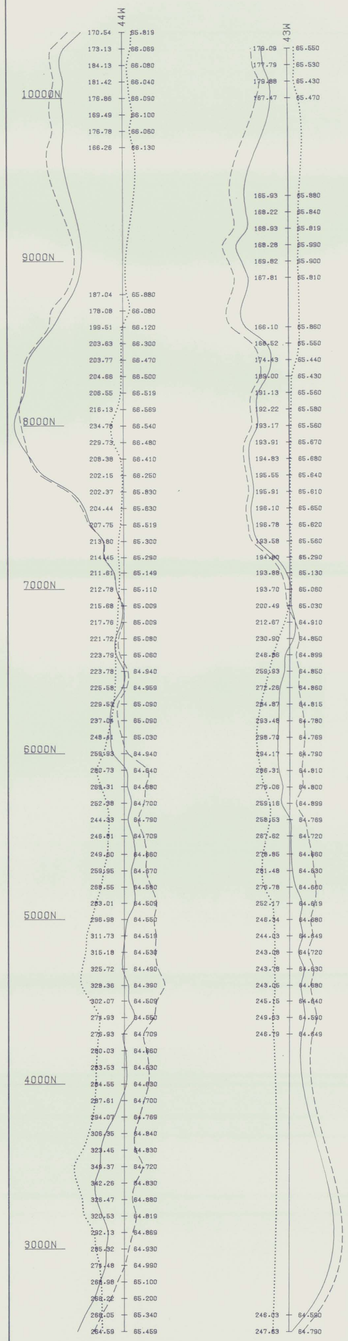
7000N

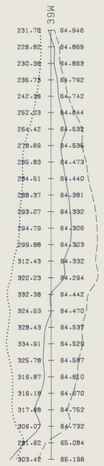
6000N

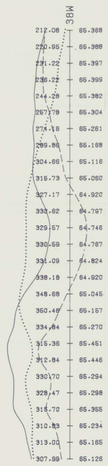
5000N

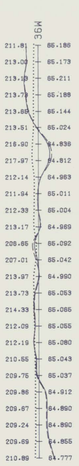
4000N

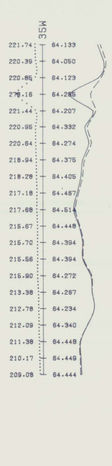
3000N

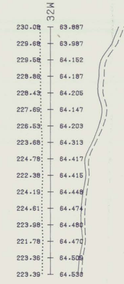


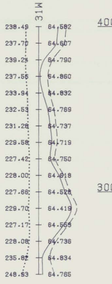












MACMILLAN JOINT VENTURE

1 INCH=400 FEET

0

1000S

2000S

3000S

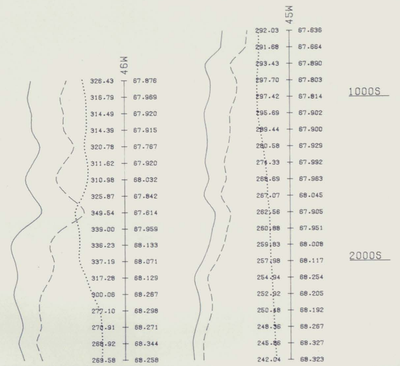
4000S

5000S

6000S

7000S

8000S



GRAVITY SURVEY

SHEET NO 5.2

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

9000N

8000N

7000N

6000N

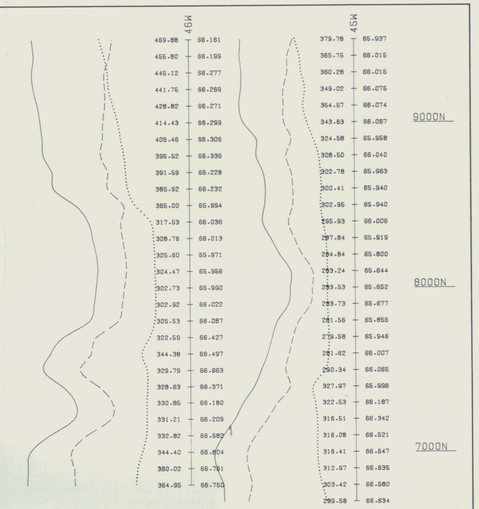
5000N

4000N

3000N

2000N

1000N



GRAVITY SURVEY

SHEET NO 5.3

MACMILLAN JOINT VENTURE

1 INCH=400 FEET

18000N

17000N

16000N

15000N

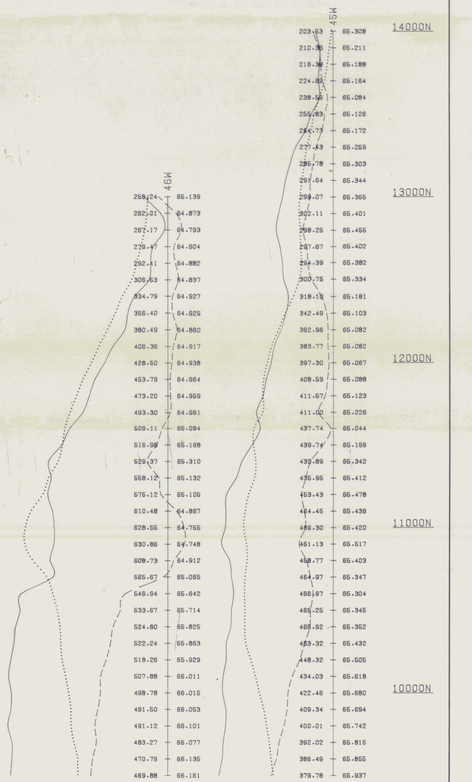
14000N

13000N

12000N

11000N

10000N



GRAVITY SURVEY

SHEET NO **5.4**

MACMILLAN JOINT VENTURE

SUE CLAIM GROUP

SUMMARY OF FEES SUBMITTED

GROUP #	# CLAIMS PER GROUP	# YEARS REQUESTED	COST OF WORK DONE	GROUPING CERTIFICATE	TOTAL $
All Claims	951	1902	$190,200	N/A	$ 9,510.00
I	14	34	3,400	$5.00	175.00
II	16	34	3,400	$5.00	175.00
III	16	37	3,700	$5.00	190.00
IV	16	48	4,800	$5.00	245.00
V	16	48	4,800	$5.00	245.00
VI	12	27	2,700	$5.00	140.00
VII	15	45	4,500	$5.00	230.00
VIII	16	48	4,800	$5.00	245.00
IX	15	45	4,500	$5.00	230.00
X	12	36	3,600	$5.00	185.00
XI	16	40	4,000	$5.00	205.00
XII	15	30	3,000	$5.00	155.00
XIII	14	14	1,400	$5.00	75.00
TOTAL		2,388	$238,800 (Minimum)	65.00	$12,005.00

Certificates of Work = $5.00 per year requested.

Years requested = 2,388 x $5.00 = $11,940.00. $11,940.00

Grouping Certificates = 13 x $5.00 = $65.00 65.00

Total Fees Submitted = $12,005.00

CONWEST EXPLORATION COMPANY LIMITED

1010, 85 RICHMOND STREET WEST
TORONTO, ONTARIO M5H 2G1
TELEPHONE (416) 362-6721
TELEX 06-21905
CABLES - CONWEST TORONTO

REGISTERED MAIL

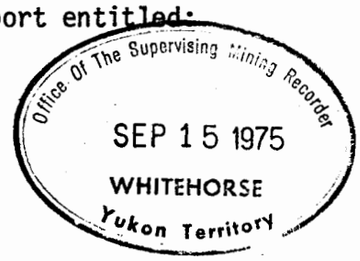
September 4, 1975.

Mr. Blake Baxter,
Acting Mining Recorder,
Whitehorse Mining District,
Indian and Northern Affairs,
Room 220, Federal Building,
Whitehorse,
Yukon Territory.

Dear Blake:

Re: Sue Claim Group
N.T.S. 105 L 10, 14, 15

Please find enclosed three copies of our report entitled:



MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
February - May, 1975

covering work carried out on the above claim group.

As the maps accompanying this report are voluminous, they are being forwarded separately by CP Air Express and a copy of the Waybill is attached.

Two sets of folded maps are in the cardboard carton. As we discussed previously, the third set is rolled to facilitate microfilming.

We trust you will find everything to your complete satisfaction. Do not hesitate to contact me if you require any further information.

Yours very truly,

CONWEST EXPLORATION COMPANY LIMITED

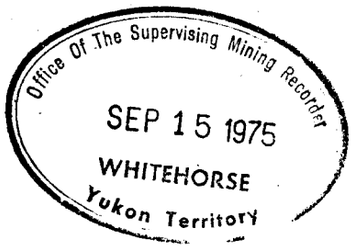
C. K. O'Connor,
Vice-President, Exploration.

Encs./CP Air Waybill No. 018-11091883X
3 copies report.

CONWEST EXPLORATION COMPANY LIMITED

1010, 85 RICHMOND STREET WEST
TORONTO, ONTARIO M5H 2G1
TELEPHONE (416) 362-6721
TELEX 06-21905
CABLES - CONWEST TORONTO

September 3, 1975.



REGISTERED MAIL

Mr. Blake Baxter,
Acting Mining Recorder,
Whitehorse Mining District,
Indian and Northern Affairs,
Room 220, Federal Building,
Whitehorse,
Yukon Territories.

Dear Blake:

Re: Sue Claim Group
N. T. S. 105 L 10, 14, 15

Please find enclosed Applications for Certificates of Work and Grouping Applications for certain of the above mineral claims.

Also enclosed is our cheque in the amount of $12,005.00 in payment of the fees. A summary of our calculation of the fees is attached.

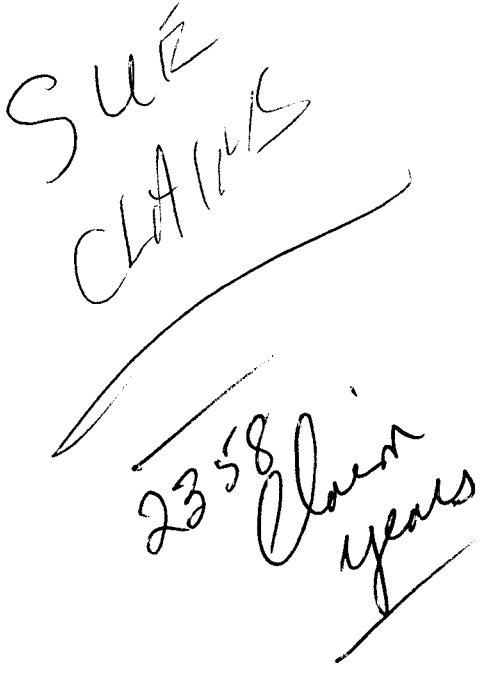
The Geophysical Report referred to therein is being forwarded to you under separate cover.

Yours very truly,

CONWEST EXPLORATION COMPANY LIMITED

C. K. O'Connor,
Vice-President, Exploration.

CKO:gh

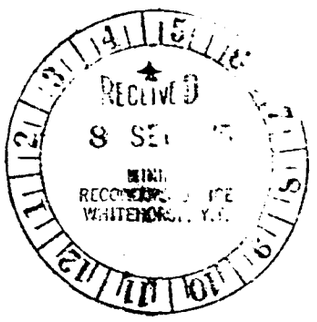

SUE
CLAIMS
2358 Clover
years

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



OFFICE DATE STAMP

I (Name) C. K. O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1.

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

See list attached.

situated at MacMillan River Claim Sheet No. 105 L 14 & 105 L 15

in the Whitehorse Mining District, to the value of at least $200.00 per claim

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. _____.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

See list attached.

Request renewal for 2 years on all claims until September 11th, 1977.

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

See attached report titled
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P.Eng and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario.

this 2 day of September 19 75

Notary Public

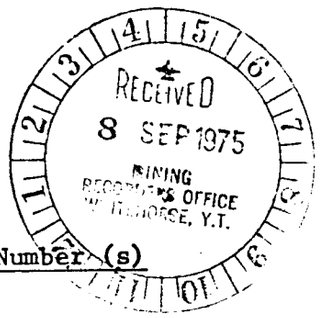
NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976

Applicant.

for Conwest Exploration Company Limited.

MACMILLAN JOINT VENTURE

List of Claims to be Renewed



	Claim Name and Number	Record Number (s)
1	SUE 1 - 48	Y 80651 - Y 80698 inclusive
2	SUE 50	Y 80700
	SUE 52	Y 80702
	SUE 54	Y 80704
	SUE 56	Y 80706
3	SUE 58 - 72	Y 80708 - Y 80722 inclusive
4	SUE 83 - 96	Y 80733 - Y 80746 inclusive
5	SUE 99	Y 80749
	SUE 101	Y 80751
	SUE 103	Y 80753
	SUE 105	Y 80755
6	SUE 107	Y 80757
	SUE 109 - 298	Y 80759 - Y 80948 inclusive
7	SUE 300	Y 80950
	SUE 302	Y 80952
8	SUE 305 - 306	Y 80955 - Y 80956 inclusive
9	SUE 308	Y 80958
	SUE 310	Y 80960
	SUE 312	Y 80962
	SUE 314	Y 80964
10	SUE 316	Y 80966
	SUE 318	Y 80968
	SUE 320	Y 80970
11	SUE 329 - 351	Y 80979 - Y 81001 inclusive
12	SUE 355	Y 81005
	SUE 357	Y 81007
	SUE 359	Y 81009
	SUE 361	Y 81011
13	SUE 363 - 404	Y 81013 - Y 81054 inclusive
14	SUE 408 - 560	Y 81058 - Y 81210 inclusive
15	SUE 562	Y 81212

SUE 563 - 582 ON NEXT PAGE.

0.00	*
17.	+
17.	+
30.	+
23.	+
40.	+
2.	+
13.	+
19.	+
100.	+
122.	+
11.	+
17.	+
15.	+
1.	+
153.	+
42.	+
4.	+
23.	+
7.	+
2.	+
2.	+
190.	+
5.	+
14.	+
15.	+
4.	+
48.	+
936.00	*

Claim Name and Number	Record Number (s)
15 SUE 563 - 582	Y 81213 - Y 81232 inclusive
16 SUE 584 - 600	Y 81234 - Y 81250 inclusive
17 SUE 608 - 618	Y 81258 - Y 81268 inclusive
18 SUE 627 - 748 ✓	Y 81277 - Y 81398 inclusive
19 SUE 749 - 848	Y 90401 - Y 90500 inclusive
20 SUE 851 - 869	Y 90501 - Y 90519 inclusive
21 SUE 877 - 889	Y 90523 - Y 90535 inclusive
22 SUE 891	Y 90537
SUE 893	Y 90539
23 SUE 899 - 938	Y 90543 - Y 90582 inclusive
24 SUE 949 - 971	Y 90593 - Y 90615 inclusive
25 SUE 977 - 1006	Y 90621 - Y 90650 inclusive
26 SUE 1013 - 1039	Y 90655 - Y 90681 inclusive
27 SUE 1049 - 1065	Y 90687 - Y 90703 inclusive

TOTAL 951 claims.

187 days

Group I

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDER'S OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C. K. O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

SUE 67 - SUE 72 inclusive Y 80717 - Y 80722

situated at MacMillan River Claim Sheet No. 105 I, 15

in the Whitehorse Mining District, to the value of at least $3,400.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 59576

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

SUE 59 - SUE 66 inclusive Y 80709 - 80716, 2 years per claim

SUE 67 - SUE 72 inclusive Y 80717 - 80722, 3 years per claim

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - see attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P.Eng. and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gordon M. Procter

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor

Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group II

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDERS OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

SUE 43, 45, 47, 129 & 131 Y 80693, Y 80695, Y 80697, Y 80779, Y 80781

situated at MacMillan River Claim Sheet No. 105 I 15

in the Whitehorse Mining District, to the value of at least $3,400.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 59886

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

SUE 37 - SUE 48 inclusive, Y 80687 - Y 80698, 2 years per claim
SUE 129 - SUE 130 inclusive, Y 80779 - Y 80780, 2 years per claim
SUE 131 - SUE 132 inclusive, Y 80781 - Y 80782, 3 years per claim

3 years

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - see attached report titled,
Macmillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P.Eng. and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gordon M. Proctor

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor

Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

GroupIII

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDER'S OFFICE
WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C. K. O'Connor	Occupation Geologist
(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1	

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

SUE 145 - SUE 150 inclusive, Y 80795 - Y 80800.
SUE 152, Y 80802
SUE 154 - SUE 156 inclusive, Y 80804 - Y 80806

situated at Mac Millan River Claim Sheet No. 105 L 15

in the Whitehorse Mining District, to the value of at least $ 3,700.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5989 G.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

SUE 145 - SUE 147, Y 80795 - Y 80797 inclusive, 2 years per claim.
SUE 148 - SUE 152, Y 80798 - Y 80802 inclusive, 3 years per claim
SUE 153 - SUE 160, Y 80803 - Y 80810 inclusive, 2 years per claim

37 - I - 8 S

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
MacMillan Joint Venture,
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P.Eng. and D.B. Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Garth M. Procter
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor
Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group IV

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.
OFFICE DATE STAMP

I (Name) C. K. O'Connor	Occupation Geologist
(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1	

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

SUE 123, Y 80773

SUE 133 - SUE 140, Y 80783 - Y 80790 inclusive

situated at MacMillan River Claim Sheet No. 105 I, 15

In the Whitehorse Mining District, to the value of at least $ 4,800.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. [illegible],
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

SUE 121 - SUE 126 inclusive, Y 80771 - Y 80776, 3 years per claim

SUE 133 - SUE 142 inclusive, Y 80783 - Y 80792, 3 years per claim

48 <1 4?>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,

MacMillan Joint Venture

Progress Report Number 1

Geophysical Surveys

March-May 1975

dated September 1, 1975

by C.K.O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M. Proctor

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor

Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group V

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDERS OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

SUE 127, Y 80777

SUE 143 - SUE 144, Y 80793 - Y 80794

SUE 193 - SUE 198, Y 80843 - Y 80848 inclusive

SUE 209 - SUE 214, Y 80859 - Y 80864 inclusive

situated at MacMillan River Claim Sheet No. 105 L 15

In the Whitehorse Mining District, to the value of at least 4,800.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. [illegible]
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 80777 - Y 80778, SUE 127 - SUE 128 3 years per claim

Y 80793 - Y 80794, SUE 143 - SUE 144 3 years per claim

Y 80843 - Y 80848, SUE 193 - SUE 198 inclusive, 3 years per claim

Y 80859 - Y 80864, SUE 209 - SUE 214 inclusive, 3 years per claim

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,

MacMillan Joint Venture

Progress Report Number 1

Geophysical Surveys

March-May 1975

dated September 1, 1975

by C.K.O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gerda M. Proctor

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

K. C. O'Connor

Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group VI

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K. O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 80867 - Y 80872, SUE 217 - SUE 222 inclusive
Y 80874, SUE 224

situated at MacMillan River Claim Sheet No. 105 L 14 & 15

In the Whitehorse Mining District, to the value of at least 2,700.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5992 G

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 80865,	SUE 215	2 years
Y 80866,	SUE 216	3 years
Y 80867,	SUE 217	2 years
Y 80868,	SUE 218	3 years
Y 80869,	SUE 219	2 years
Y 80870,	SUE 220	3 years
Y 80871 - Y 80874,	SUE 221 - SUE 224 inclusive	2 years per claim
Y 81123 - Y 81124,	SUE 473 - SUE 474	2 years per claim

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached Report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M. Proctor

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly C. O'Connor

Applicant.

For CONWEST EXPLORATION COMPANY LIMITED

Group VII

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDER'S OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C. K. O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 80839, SUE 189

Y 80851 - Y 80858, SUE 201 - SUE 208 inclusive

situated at MacMillan River Claim Sheet No. 105 L 14 & 15

In the Whitehorse Mining District, to the value of at least 4,500.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5993 G
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 80833	SUE 183	3 years per claim
Y 80835	SUE 185	3 years per claim
Y 80837	SUE 187	3 years per claim
Y 80839	SUE 189	3 years per claim
Y 80841	SUE 191	3 years per claim
Y 80849 - Y 80858	SUE 199 - SUE 208 inclusive	3 years per claim

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,

MacMillan Joint Venture

Progress Report Number 1

Geophysical Surveys

March-May 1975

dated September 1, 1975

by C.K. O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gordon A. Proctor

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

K. O'Connor

Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group VIII

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

I (Name)	C.K.O'Connor	Occupation	Geologist
(Postal Address)	10th Floor, 85, Richmond Street W., Toronto, M5H 2G1		OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81103 - Y 81108, SUE 453 - SUE 458 inclusive
Y 81125 - Y 81130, SUE 475 - SUE 480 inclusive

situated at MacMillan River Claim Sheet No. 105 I, 14 & 15

in the Whitehorse Mining District, to the value of at least 4,800.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 59949
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 81101 - Y 81108, SUE 451 - SUE 458 inclusive, 3 years per claim
Y 81125 - Y 81132, SUE 475 - SUE 482 inclusive, 3 years per claim

US 1 yr

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B. Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M. Proctor
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

C.K.O'Connor
Applicant.

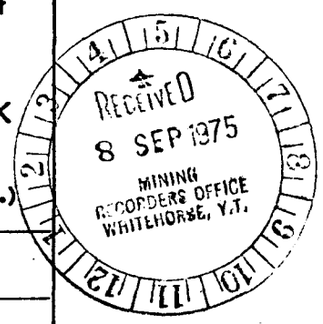
for CONWEST EXPLORATION COMPANY LIMITED

Group IX

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK



OFFICE DATE STAMP

(This form required in duplicate with sketch showing location of work.)

I (Name) C.K. O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81059 - Y 81062, SUE 409 - SUE 412 inclusive
Y 81081 - Y 81085, SUE 431 - SUE 435 inclusive

situated at MacMillan River Claim Sheet No. 105 L 14 & 15

in the Whitehorse Mining District, to the value of at least 4,500.00.

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 59959

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 80842	SUE 192	3 years per claim
Y 81015	SUE 365	3 years per claim
Y 81017 - Y 81018	SUE 367 - SUE 368	3 years per claim
Y 81059 - Y 81062	SUE 409 - SUE 412 inclusive	3 years per claim
Y 81079 - Y 81085	SUE 429 - SUE 435 inclusive	3 years per claim

45 @ 4.15

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Survey - See attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gordon M. Proctor
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

C.K. O'Connor
Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group X

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDER'S OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81025 - Y 81030, SUE 375 - SUE 380 inclusive

situated at MacMillan River Claim Sheet No. 105 L 14 & 15

In the Whitehorse Mining District, to the value of at least 3,600.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5996 G.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 80893 - Y 80896, SUE 243 - SUE 246 inclusive, 3 years per claim
Y 81023 - Y 81030, SUE 373 - SUE 380 inclusive, 3 years per claim

36 CLAIMS

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 19 75

Gordon M. Proctor
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

C.K.O'Connor
Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group XI

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81041 - Y 81042, SUE 391 - SUE 392
Y 81047 - Y 81050, SUE 397 - SUE 400 inclusive
Y 81052, SUE 402

situated at MacMillan River Claim Sheet No. 105 I, 14 & 15

in the Whitehorse Mining District, to the value of at least 4,000.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5997 Q.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 81039 - Y 81046, SUE 389 - SUE 396 inclusive 3 years per claim
Y 81047 - Y 81054, SUE 397 - SUE 404 inclusive 2 years per claim

10 cl ps

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M Preston
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor
Applicant.

for CONWEST EXPLORATION COMPANY LIMITED

Group XII

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED
8 SEP 1975
MINING RECORDERS OFFICE
WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81171 - Y 81172, SUE 521 - SUE 522
Y 81193 - Y 81196, SUE 543 - SUE 546 inclusive

situated at MacMillan River Claim Sheet No. 105 L 14

in the Whitehorse Mining District, to the value of at least 3.000.00

dollars, since the 11th day of September 1974,

to represent the following mineral claims under the authority of Grouping Certificate No. 5998 Q

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 81167 - Y 81173, SUE 517 - SUE 523 inclusive, 2 years per claim
Y 81189 - Y 81196, SUE 539 - SUE 546 inclusive, 2 years per claim

30 - 1 - 81

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
MacMillan Joint Venture
Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P. Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M. Procter

Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

Kelly O'Connor

Applicant.

for CONWEST EXPLORATION COMAPNY LIMITED

Group XIII

Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)

RECEIVED 8 SEP 1975 MINING RECORDERS OFFICE WHITEHORSE, Y.T.

OFFICE DATE STAMP

I (Name) C.K.O'Connor Occupation Geologist

(Postal Address) 10th Floor, 85, Richmond Street W., Toronto, M5H 2G1

MAKE OATH AND SAY, THAT :-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

Y 81215 - Y 81216, SUE 565 - SUE 566
Y 81234 SUE 584

situated at MacMillan River Claim Sheet No. 105 L 14

In the Whitehorse Mining District, to the value of at least 1,400.00

dollars, since the 11th day of September 19 74,

to represent the following mineral claims under the authority of Grouping Certificate No. 5999Q.
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested.)

Y 81055 - Y 81058, SUE 405 - 408 inclusive, 1 year per claim
Y 81211 - Y 81219, SUE 561 - 569 inclusive, 1 year per claim
Y 81234 SUE 584 1 year

14 c1 y's

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53)

Gravity Surveys - See attached report titled,
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Progress Report Number 1
Geophysical Surveys
March-May 1975
dated September 1, 1975
by C.K.O'Connor, P. Eng. and D.B.Sutherland, P.Eng.

Sworn before me at Toronto, Ontario

this 2nd day of September 1975

Gordon M. Proctor
Notary Public

NOTARY PUBLIC, JUDICIAL DISTRICT OF YORK, FOR CONWEST EXPLORATION CO. LTD. AND ITS RELATED COMPANIES. EXPIRY APRIL 9, 1976.

C.K.O'Connor
Applicant.

for CONWEST EXPLORATION COMPANY LIMITED