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REF. No.	2486/85			

EL 32/79 HUSKISSON RIVER - TASMANIA

PROGRESS REPORT OF EXPLORATION FOR PERIOD

JANUARY, 1984 TO JUNE, 1984

FINAL REPORT

OPEN FILE

GETTY OIL DEVELOPMENT COMPANY LIMITED

F. G. FitzGerald

I. S. McNaught

August, 1984.

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SUMMARY

A joint venture agreement between the Getty Oil Development Company Limited (GODC) and the Broken Hill Proprietary Company Limited (BHP), the title holders, over Exploration Licence 32/79 in Western Tasmania was signed in September, 1983.

Following this agreement GODC carried out detailed exploration over the eastern half of the licence, straddling the inferred Precambrian - Cambrian contact considered favourable for the occurrence of a Renison - style tin deposit. Gridding, soil geochemistry and ground magnetic surveys were completed and geological mapping was carried out.

Although there was some evidence for carbonate lithologies within chalcidonic sediments along the Eo-Cambrian contact and probable Devonian granites were mapped in the area, no tin mineralization was located. The comprehensive soil sampling program did not outline any anomalies. The ground magnetic survey and related mapping failed to indicate potential for pyrrhotite mineralization.

It is felt that no further potential exists for the occurrence of a Renison style tin deposit within EL 32/79.

1. INTRODUCTION

This report covers work on Exploration Licence 32/79 granted to the Broken Hill Proprietary Company Limited (BHP) on 26th July, 1980. It has been subject to a joint venture with Getty Oil Development Company Limited (GODC) since September, 1983.

The report presents details of GODC's work on the Exploration Licence since 15th January, 1984 until 15th June, 1984. It follows on from the previous report by GODC for the period December, 1982 to January, 1984.

2. EXPLORATION LICENCE EL 32/792.1. Location and Access

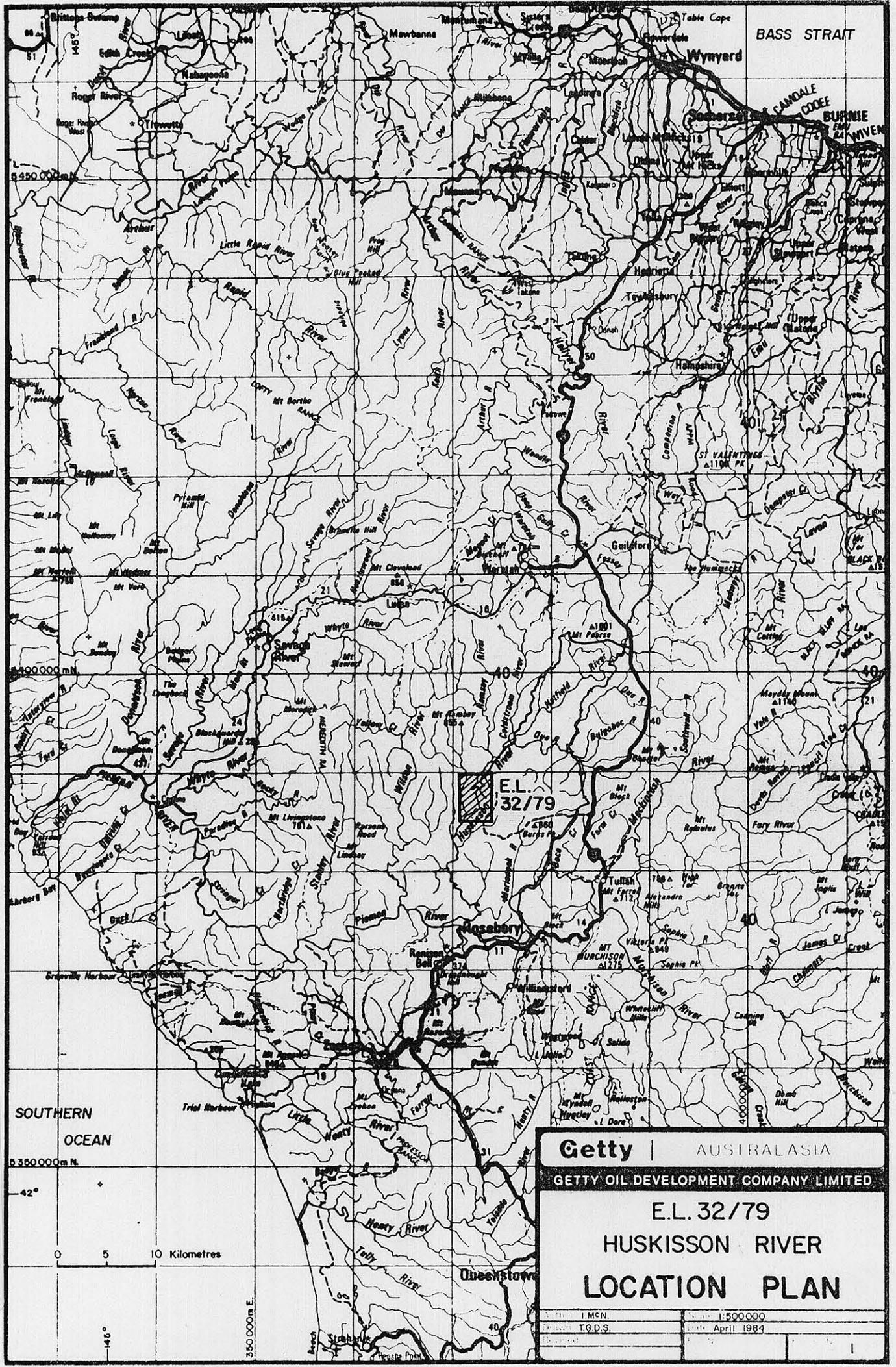
EL 32/79 is located on the Huskisson River, a tributary of the Pieman River, 15km north of Renison Bell in Western Tasmania. (See Figure 1)

Access is by a private, all weather gravel logging road into the northern end of the licence from the Murchison Highway, immediately north of the Hatfield River. Access to the southern end of the licence is by an exploration track established by Comstaff Pty. Ltd. which runs west of the Boco Railway Siding via their Pinnacles Pb/Zn prospect.

2.2. Description of Tenement

EL 32/79 comprises 17km² within a rectangular shape with the following corners:

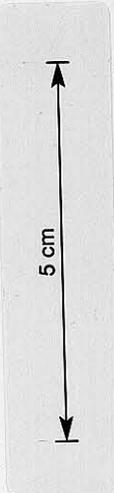
S.E. corner	5385005mN	374015mE	(Datum)
S.W. corner	5384965mN	370635mE	
N.W. corner	5389720mN	370580mE	
N.E. corner	5389760mN	373960mE	



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E.L. 32/79
HUSKISSON RIVER
LOCATION PLAN

1:500,000	1:500,000
T.G.D.S.	April 1984



SOUTHERN OCEAN
 5 360 000 m N.
 42°
 0 5 10 Kilometres
 145°

3 500 000 m E.

3. PREVIOUS EXPLORATION

Details of exploration carried out by BHP and previous exploration undertaken by GODC, are presented in the GODC report, "EL 32/79 Huskisson River - Tasmania; Progress Report of Exploration for the period December, 1982 to January, 1984."

The exploration completed on EL 32/79 since it was granted to BHP in 1980 is summarized as follows:

1. Stream sediment survey/reconnaissance geology. A total of 59 stream sediment samples were collected giving a sample density of 3.5 samples/km². Peak tin values were approximately 200ppm Sn. Reconnaissance geology indicated the presence of an extensive area of Crimson Creek Formation, which contains carbonate rocks and also occurs stratigraphically above favourable carbonate lithologies in other locations.
2. DIGHEM II Survey A 100 line km helicopter-borne DIGHEM II EM survey was flown over the whole of the EL. Results did not indicate any significant EM conductors.
3. Follow-up stream sediment sampling. Detailed stream sediment sampling was carried out over an area of consistently high tin geochemistry in the south of the EL. This sampling did not confirm the previous anomalous results. Re-assaying of the earlier samples, however, confirmed their high tin contents.
4. Ridge and spur sampling. A traverse of ridge and spur sampling was carried out in the southern area where the anomalous tin in drainage coincided with a magnetic high (established from the DIGHEM II survey). The maximum soil sample value was 25ppm Sn. An intense aeromagnetic anomaly west of the Huskisson River was traversed and the source was shown to be an ultramafic intrusion which was accompanied by high chromium values in the soil. A traverse was completed along the Huskisson Drive road in the north of the licence, however, sampling did not locate any significant tin values.

5. Ground magnetic traverses. Two aeromagnetic anomalies in the north-east of the EL were ground magnetic surveyed. Mafic dykes located in the area were proposed as the cause of these anomalies.

6. Grid controlled soil sampling, magnetics, geology. GODC cut 22.8km of grid lines over the prospective Precambrian-Cambrian contact centred on aeromagnetic anomalies in the north and the south of the EL. The grid was pegged at 25 metre slope corrected spacing, power auger soil sampled, and surveyed by ground magnetics. Additional drainage controlled geological mapping over the area was completed and grid mapping commenced.

The results of the soil sampling, ground magnetics and geological mapping are discussed in the previous report along with the soil sampling results. Additional comments and results of the magnetic survey and geological mapping are presented in this report.

4. EXPLORATION UNDERTAKEN BY GETTY OIL DEVELOPMENT COMPANY LIMITED

4.1. Discussion of Results

4.1.1. Geology

The licence area covers portion of the eastern limb of the NNW trending Huskisson Syncline. Stratigraphically the area is composed of rocks ranging in age from Precambrian to Siluro-Devonian with the sedimentary sequence younging to the west.

The eastern part of the licence is made up of a sequence of grey to black slates (Phyllites) and quartzites comprising the Lower Cambrian to Precambrian Oonah Formation. These rocks are typically tightly folded and sheared. A belt 1.5km wide of Cambrian sediments, the Crimson Creek Formation, occupies the central portion of the EL abutting the Precambrian rocks to the east. The Crimson Creek Formation includes lithic wackes, tuffaceous siltstones, cherts, carbonate bearing sandstones and breccias. Further west, Ordovician limestone and conglomerate and Siluro-Devonian quartz sandstone occur.

Mafic and ultramafic intrusives have been mapped in the area; these include part of the North Huskisson serpentinite and smaller gabbroic bodies and basaltic dykes. The Devonian Merideth Granite outcrops just north of the licence boundary. An interpretation of the 1981 West Coast aeromagnetic survey indicates that the granite batholith underlies the area (Corbett et.al., 1982). Mapping by GODC has located several granitic bodies within the area, presumably related to the Merideth Granite.

Detailed soil geochemistry and a ground magnetic survey and associated geological mapping was carried out over the eastern part of the licence by GODC focusing on the Cambrian Crimson Creek Formation - Precambrian Oonah Formation contact. This stratigraphic position was considered favourable for the occurrence of a Renison style tin deposit particularly as discrete aeromagnetic anomalies have been outlined within the Crimson Creek Formation adjacent

and parallel to the contact. The proximity of the Devonian Merideth Granite and inferred major structural lineaments in this area were also considered to be favourable.

Geological mapping of the significant drainages and part of the grid was completed. A geological interpretation map at 1:2,500 scale, covering the eastern half of the licence is presented in Figures 2 and 3. Descriptions of the broad stratigraphic units are included in the geological legend on these figures.

The most important feature to emerge from this mapping, was the recognition of a discontinuous unit of chalcedonic sediments with apparently related iron-manganese oxide material along the Precambrian-Cambrian contact in the northern part of the area (See Figure 2). The contact itself, was located by a distinct contrast in the soil geochemical values (See section 4.1.2.) and confirmed by several traverses along west draining creeks.

The extent of this unit was not clearly defined due to poor exposure and it may be transgressive, in part, across the inferred Precambrian-Cambrian contact. Lithologies included in the unit are grey to black cherts, brick red silicified arenites and hematitic quartz breccias. Evidence of pre-existing carbonate within these rocks is widespread. Typically relict carbonate crystals are preserved as rhomb-shaped voids within white chalcedonic envelopes which are often concentrically zoned. An area of calcium carbonate caliche was also mapped apparently along strike to the north of the chalcedonic sediments.

It is possible that an area of bleached, silicified shale within the Crimson Creek Formation immediately west of the chalcedonic and Fe-Mn oxide rich lithologies may be related to the same hydrothermal (-epithermal?) event.

Similar chalcedonic-hematitic rocks have been reported from an equivalent stratigraphic position 7km to the north of the EL (Comstaff 1972 and 1973) and in a section of Salmon Creek 12km NW of Renison (Newham., 1976). Comstaff recorded an outcrop of white, porous,

microcrystalline quartzose rock within their Will O' Wisp Project. They drilled beneath this outcrop and intersected dolomitic limestone containing veins of base metal sulphides. Comstaff concluded that the friable quartzose rock represented a brecciated and silicified fracture zone containing hydrothermal chalcedonic silica.

Newham (op.cit.) reported a white agate-carbonate (?) unit overlying pink to red cherts, shales and siltstones and a hematitic chert from the Salmon Creek section of the Renison Mine Sequence. The lithologies and stratigraphic location are similar to those mapped within the Huskisson licence area.

4.1.2. Geochemistry

a) Soil Samples

A total of 751 C horizon soil samples were collected along 18.2km of grid and analysed for Cu, Pb, Zn, Fe, Mn, Cr, As and Sn. The results were presented in the report of exploration up to January, 1984.

No significant tin assays were reported from this survey. In fact, only 54 samples gave values above the detection limit of 3ppm Sn with the maximum value 16ppm Sn. Assays for arsenic, which is often associated with tin mineralization, were similarly low, with results mostly less than 100ppm As and a maximum value of 500ppm As. Only two samples had coincident elevated tin and arsenic values.

Background levels of copper, zinc, iron, manganese and chromium are useful stratigraphic indicators for differentiating lithologies of the Crimson Creek Formation and the Precambrian units. The higher geochemical values within soils over Crimson Creek rocks reflects their basic volcanic provenance. This contrast is so marked that the 100ppm Cu, 50ppm Zn, 5% Fe and 200ppm Mn in soil contours could be used to locate the Crimson Creek Formation - Precambrian contact as plotted on Figures 2 and 3.

The discontinuous iron-manganese oxide unit and associated silicified sediments appear to have little soil geochemical expression even though several rock samples assayed up to 49% Fe and 8.5% Mn.

Samples from a soil traverse by BHP in 1982 over their southern magnetic anomaly gave weakly anomalous gold values, up to 0.16 g/t Au. These sample sites are straddled by grid lines 5600N and 5800N between 3025E and 3250E. A total of 20 soil samples collected by GODC in this area were analysed for gold by fire assay at Analabs in an attempt to delineate any extensions of this gold

mineralization. Only 3 samples recorded values above the detection limit of 0.008 g/t Au with the maximum assay being 0.02 g/t Au. It appears that no significant gold mineralization occurs near surface in this area.

b) Rock Samples

A total of 54 rock samples were collected during the geological mapping of the area and submitted to Analabs for analysis of Cu, Pb, Zn, Ag, Fe, Mn, Cr, As, Sn and Au. Ten of these samples were also submitted to Analabs for ICP analysis of As, B, Sn, W, Be, K, Na, Th, Li and U to indicate hydrothermal alteration. The results of all rock analyses are presented in Appendix 1 and the sample locations are plotted on Figures 2 and 3.

The results indicate that no significant mineralization and/or hydrothermal alteration is present in the area. The sodium and potassium values confirmed the observed minor potassic alteration of most of the granitic samples. One sample, however, from a biotite granite body near 8800N, 2400E appeared not to be enriched in potassium. This rock assayed 145ppm Sn which is the highest tin value obtained on the EL to date.

4.1.3 Ground Magnetic Survey

A ground magnetic survey was completed over the gridded area using a proton precession magnetometer. A total of 18.2 line kilometres were read at 12.5 metre stations. The data was corrected for diurnal variations and is presented as 1:5,000 scale profiles (See Appendix 2).

In general, the profiles are more magnetically active within the Crimson Creek Formation than the Precambrian rocks. This reflects the basic volcanic provenance of the Crimson Creek lithologies.

A 1,800nT anomaly occurs along the contact of the Crimson Creek Formation and the Precambrian on lines 9,400N to 8,800N and is related to a green microdolerite (basalt). North of 8,800N this magnetic feature is less intense, probably due to extensive bleaching and silicification of the microdolerite here.

A broad magnetic high over the south western part of the grid appears to be related with the North Huskisson Syncline and related ultramafic intrusives (Corbett et.al., 1982, anomaly 44; Slade, 1983).

The magnetic survey did not locate any strong responses indicative of pyrrhotite mineralization such as is associated with the tin deposits at Renison.

4.2. Conclusions

1. No significant tin values were identified by a comprehensive soil geochemical survey over the prospective Cambrian-Precambrian contact. The maximum assay was only 16ppm Sn.
2. A ground magnetic survey failed to indicate potential for pyrrhotite mineralization within the area. The magnetic features are related to mafic intrusives and the Crimson Creek Formation.
3. The Cambrian-Precambrian contact is characterized by a chalcidonic sediment which may have replaced original carbonate lithologies. This unit, however, does not contain tin mineralization.
4. Several granitic bodies mapped in the area appear to be unlikely source rocks for tin mineralization. Although they are altered by potassic metasomatism, they are not enriched in either boron, lithium or tin.
5. Follow-up of reported weak gold in soil values failed to delineate any potential mineralization.

4.3. Recommendation

Following the discouraging results of exploration over EL 32/79, it is recommended that no further work be carried out and that the joint venture with BHP be terminated.

EXPENDITURE ON EXPLORATION LICENCE 32/79 BY
GETTY OIL DEVELOPMENT COMPANY LIMITED
FOR THE PERIOD SEPTEMBER, 1983 TO JULY, 1984

Wages and Salaries	\$10,323
Field Materials and Supplies	3,212
Automotive Expenses	1,803
Contract Geology	300
Geochemical Sampling	6,471
Geophysics	1,700
Assaying	10,727
Gridding and Surveying	13,004
Communications	75
Drafting	842
Hire of Equipment (Caravan, Theodolite, etc.)	720
Administration/Overheads	<u>4,918</u>
	<u>\$54,095</u>

Total expenditure on Exploration Licence 32/79 was: \$98,911.

REFERENCES

Comstaff Pty. Ltd., (1972), "EL 5/63, Will o' Wisp Follow-up Project, March - December, 1972" by ^MP. Everett, Company Report No. 72/914.

Comstaff Pty. Ltd., (1973) "EL 5/63, Will o' Wisp Project, Coldstream, Report on Drilling Programme parts I and II, 1972/1973 Summer Field Season", Company Report No. 73/958.

Corbett, K.D., Richardson, R.G., Collins, P.L.F., Green, G.R., Brown, A.V. (1982), "The 1981 West Coast Aeromagnetic Survey: A Summary of Information", Unpublished Report Department of Mines, Tasmania, 1982/39.

Newnham, L.A., (1976), "A Lower Cambrian Marker Sequence in the Renison-Mt. Lindsay Area", Geological Society of Australia, Tasmanian Division, West Coast Symposium on Lower Palaeozoic Geology of Western Tasmania, September, 1975, 7 pages.

J. Slade and Associates Pty. Ltd., (1983), "Geophysical Review of North West Tasmania", J. Slade and Associates Pty. Ltd., Consultant Geophysicists. 53 pages.

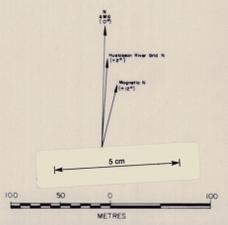


219017

LEGEND

- MEREDITH GRANITE
- DEVONIAN GRANITE Coarse grained biotite granite, locally pegmatitic, weathered and altered
- CAMBRIAN GABBRO Coarse grained
- CRIMSON CREEK FORMATION Predominantly brown-orange deeply weathered mafic derived granites - lith-wackes with subordinate chocolate brown to red (locally silicified) shales and fine grained arenites, pale brown tuffs and grey litharenites - shales. Micro-silicified units unannotated
- DEVONIAN GRANITE (The gossanous Mn-Fe oxide zone with agglutinated and silicified sediments is unannotated)
- PRE-CAMBRIAN Finely laminated white quartzites and contorted grey-black phylites

- 60 Bedding
- 80 Cleavage
- 90 Shearing
- 95 Fault
- Rock sample location (outcrop)
- Rock sample location (flat)
- Flagged co-ordinate site, Comstaff or BHP as indicated
- BHP stream sediment sample (not all plotted)
- GOC soil sample, ppm Tm
- Contour lines for Cu (100 ppm), Zn (50 ppm), Pb (15%), Mn (200 ppm) contours, indicating the PC-C contact. Contour limits are indicated along the cut line and the best fitting line is plotted between those contour limits.



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 E.L. 32/79 HUSKISSON RIVER
GEOLOGICAL INTERPRETATION

Author: L.M.S. Scale: 1:50,000
 Drawn: T.S.G.S. Date: JUNE 1994
 Revised: File No: Figure No:

SHEET B

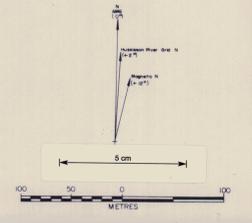
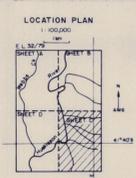


E.L.32/79

LEGEND

- DEVONIAN MEREDITH GRANITE
- DEVONIAN GRANITE Coarse grained bathic granite, locally pegmatitic, weathered and altered
- CAMBRIAN GABBRO Coarse grained
- CAMBRIAN CRIMSON CREEK FORMATION
Faded, commonly lower orange deeply weathered mafic derived granites - lithoclasts with subordinate chocolate brown to red (weakly silicified) shales and fine grained greenish, pale brown tuffs and grey litharenites - shales. Micro quartzite/basalt units annotated
- CAMBRIAN OONAH FORMATION correlate
Finely laminated white quartzites and contorted grey-black phylites. (The gaspous Mn-Fe oxide zone with argillized and silicified sediments is annotated)
- PRE-CAMBRIAN PRE-CAMBRIAN

- Bedding
- Cleavage
- Shearing
- Fault
- Rock sample location (outcrop)
- Rock sample location (floor)
- Flogged co-ordinate site, Cornstaff or BHP as indicated
- BHP stream sediment sample (not all plotted)
- GDDC soil sample, ppm Tm
- Contour lines
Concurrent soil Cu (100 ppm), Zn (50 ppm), Fe (5%), Mn (200 ppm) contours, indicating the PRE-C contact. Contour limits are indicated along the cut line and the best fitting line is plotted between those contour limits.



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 GETTY OIL DEVELOPMENT COMPANY, LIMITED
 E.L.32/79 HUSKISSON RIVER
GEOLOGICAL INTERPRETATION
 SHEET C.

Author: I.M.C.N.	Scale: 1:2500
Drawn: T.G.D.S.	Date: JUNE 1984
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APPENDIX I

Rock Geochemistry: Assay Results

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

BE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Mn	Cr	As	Au	
		29.5 08 2188				21.10.83	4885			1 OF 2	
1	24001	50	30	200	X	7.70%	980	60	100	X	
2	24002	235	195	615	X	9.20%	1950	35	X	X	
3	24003	320	105	440	X	6.90%	2500	35	200	X	
4	24004	35	180	170	X	6.50%	1.80%	155	300	X	
5	24005	90	40	205	X	4.55%	1550	105	X	X	
6	24006	40	20	230	X	6.65%	1400	20	X	X	
7	24007	15	10	100	X	3.60%	295	20	100	X	
8	24008	10	X	60	X	1.90%	175	455	X	X	
9	24009	10	X	10	X	4800	175	355	X	X	
0	24010	25	25	445	X	30.0%	1250	165	X	X	
1	24011	70	35	770	X	26.5%	1000	105	300	X	
2	24012 ³²⁵	435	140	165	X	3.00%	8.45%	30	X	X	
3	24013	5	X	10	X	900	280	70	X	X	
4	24014	20	45	125	X	9.15%	1600	95	X	X	
5	24015	45	65	60	X	2.65%	200	25	X	X	
6	24016	30	210	225	X	8.75%	2.10%	50	X	X	
7	24017	25	115	135	X	9.50%	1.40%	40	X	X	
8	24018	45	70	120	X	2.30%	405	20	X	X	
9	24019	10	X	30	X	8000	250	105	X	X	
0	24020	10	X	40	X	1.10%	195	120	X	X	
1	24021	100	115	320	X	7.15%	1500	165	X	X	
2	24022	65	X	170	X	2.95%	420	25	X	X	
3	24023	445	75	170	X	3.95%	7.10%	30	100	X	
4											
5											

Results in ppm unless otherwise specified

- T = element present; but concentration too low to measure
- X = element concentration is below detection limit
- = element not determined

AUTHORISED OFFICER

R. Murray L.

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

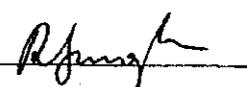
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PAGE

JBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe	Mn	Cr	As	Au
		29.5 08 2188				21.10.83		4005		2 OF 2
1	STD FS4	310	110	830	X	6.00%	630	1350	X	
2	RPT 24001	50	35	200	X	7.80%	970	60	100	
3	RPT 24020	10	X	40	X	1.30%	200	125	X	
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
3	DETECTION	5	5	5	0.5	50	5	5	100	0.1
4	DIGESTION	101	101	101	101	101	101	101	101	
5	METHOD	101	101	101	101	101	101	101	101	301

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure.
 X = element concentration is below detection limit
 - = element not determined

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ANALYTICAL DATA

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REPORT NUMBER

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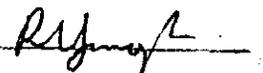
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PAGE

			29.5 08 21888	25.10.83	4805	1 OF 2	
UBE No.	SAMPLE No.	Sn					
1	24001	X					
2	24002	X					
3	24003	X					
4	24004	36					
5	24005	X					
6	24006	X					
7	24007	X					
8	24008	X					
9	24009	X					
10	24010	X					
11	24011	X					
12	24012	X					
13	24013	X					
14	24014	X					
15	24015	X					
16	24016	X					
17	24017	X					
18	24018	X					
19	24019	X					
20	24020	X					
21	24021	4					
22	24022	6					
23	24023	X					
24							
25							

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
-- = element not determined

AUTHORISED OFFICER



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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

29.5 08 2188B

25.10.83

4005

2 OF 2

JBE No.	SAMPLE No.	Sn								
1	DETECTION	3								
2	DIGESTION									
3	METHOD	401								
4										
5										
6										
7										
8										
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										
1										
2										
3										
4										
5										

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

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R. J. ...

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		29.5 00 2197				28.10.83		4886		1 OF 3	
SUB No.	SAMPLE No.	Cu	Pb	Zn	Pg	Fe%	Mn	Cr	As		
1	24024	30	50	110	X	2.65	240	150	X		
2	24025	20	25	25	X	1.35	830	110	X		
3	24026	15	25	25	X	1.30	85	125	200		
4	24027	40	20	55	X	2.85	130	90	200		
5	24028	160	60	190	X	9.70	630	55	X		
6	24029	135	10	170	X	9.05	855	170	X		
7	24030	90	10	135	X	8.30	710	90	X		
	24031	40	5	145	X	8.00	705	65	X		
	24032	180	10	120	X	11.0	1600	105	X		
0	24033	135	5	230	X	9.95	740	55	X		
1	24034	130	10	235	X	9.15	700	60	X		
2	24035	120	10	170	X	9.60	1300	145	200		
3	24036	115	5	190	X	8.50	1950	145	X		
4	24037	120	20	210	X	8.10	1200	145	X		
5	24038	60	5	150	X	8.05	950	70	X		
6	24039	125	5	205	X	9.50	1250	155	X		
7	24040	60	5	165	X	8.20	1150	80	200		
8	24041	110	50	225	X	9.70	290	150	X		
9	24042	50	75	190	X	12.5	590	85	X		
0	24043	50	X	50	X	8.10	365	165	X		
1	24044	80	20	65	X	3.95	60	190	X		
2	24045	135	10	290	X	9.45	670	90	200		
3	24046	105	25	205	X	7.60	625	80	X		
4	24047	30	25	160	X	2.95	45	90	100		
5	24048	25	10	85	X	3.00	170	150	X		

Results in ppm unless otherwise specified

T = element present, but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

AUTHORISED OFFICER

R. J. ...

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

219025

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER NO.

PAGE

LBL No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe%	Mn	Cr	As	
1	24049	80	30	185	X	4.70	390	40	X	
2	24050	65	140	350	X	5.85	1200	65	X	
3	24051	65	55	200	X	5.15	395	40	X	
4	3075	15	15	235	X	-	-	-	-	
5	3077	5	215	40	X	-	-	-	-	
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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

29.5 08 21970

3.11.83

4006

1 of 2

BE	SAMPLE No.	Sn								
1	24024	X								
2	24025	X								
3	24026	X								
4	24027	X								
5	24028	X								
6	24029	X								
7	24030	X								
8	24031	X								
9	24032	X								
10	24033	X								
11	24034	X								
12	24035	X								
13	24036	X								
14	24037	X								
15	24038	X								
16	24039	X								
17	24040	X								
18	24041	X								
19	24042	X								
20	24043	X								
21	24044	X								
22	24045	X								
23	24046	X								
24	24047	X								
25	24048	X								

Results in ppm unless otherwise specified
T element present; but concentration too low to measure
X element concentration is below detection limit
- element not determined

AUTHORISED OFFICER



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A division of MacDonald Hamilton & Co. Pty. Ltd.

219028

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No

PAGE

29.5 08 21970

3.11.83

4006

2 of 2

BE No.	SAMPLE No.	Sn									
1	24049	X									
2	24050	X									
3	24051	X									
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99											
100											
DETECTION	3										
DIGESTION											
METHOD	402										

Results in ppm unless otherwise specified
1 = element present, but concentration too low to measure
X = element concentration is below detection limit
- = element not determined

ANALYSIS BY
[Signature]

ANALABS

A division of MacDonald Hamilton & Co. Pty. Ltd.

219032

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

USE No.	SAMPLE No.	Cu	Pb	Zn	Ag	Fe%	Mn	Cr	As	
		29.5 08 2425			27.3.84		4023		1 OF 1	
1	24059	730	35	620	X	49.0	540	75	X	
2	24083	70	55	130	0.5	6.50	110	510	X	
3	24092	135	35	145	X	17.0	890	195	X	
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	DETECTION	5	5	5	0.5	50	5	5	100	
	DIGESTION									
	METHOD	103	103	103	103	103	103	103	103	

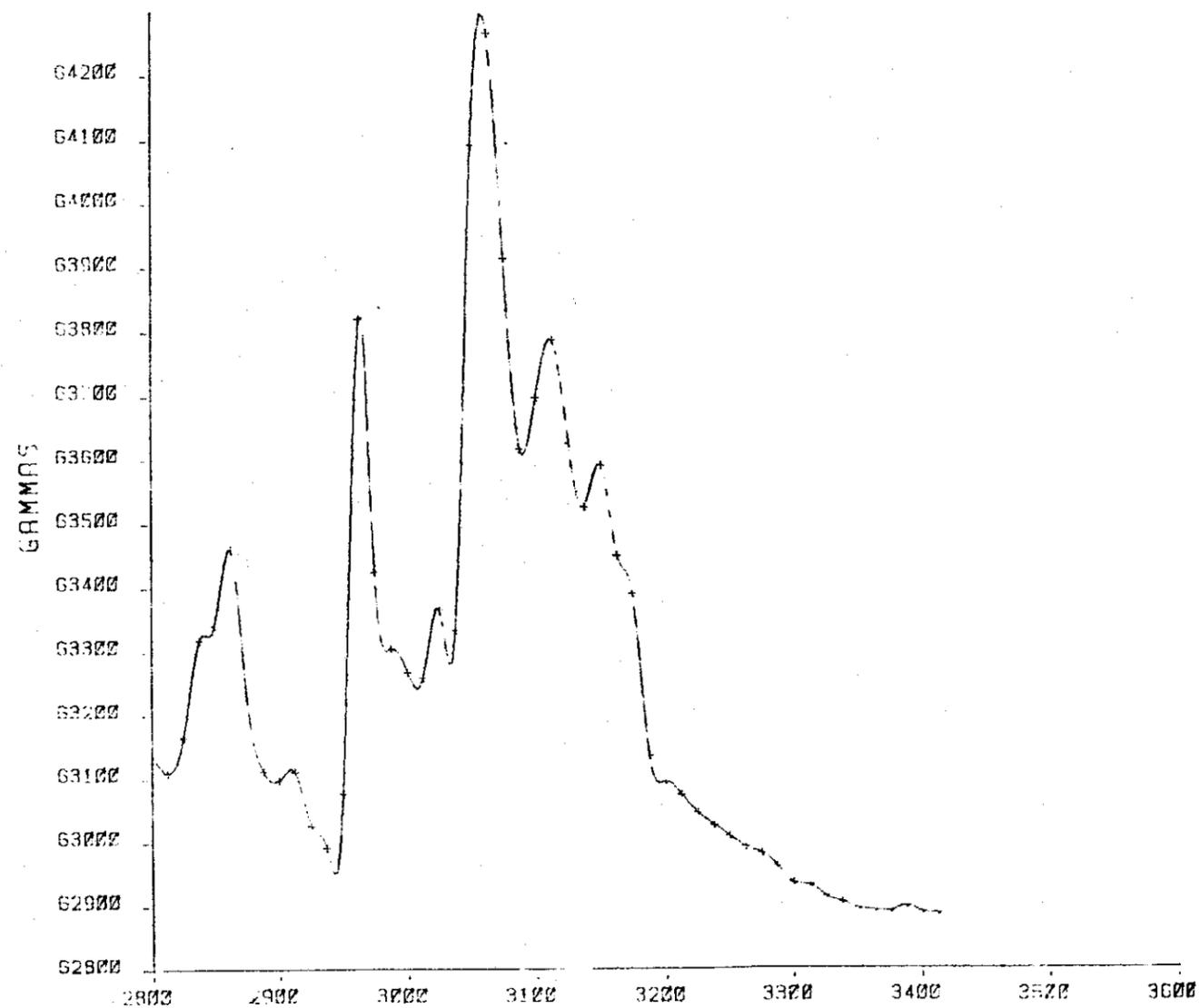
Results in ppm unless otherwise specified
 I = element present; but concentration too low to measure
 X = element concentration is below detection limit
 = element not determined

AUTHORISED OFFICER

APPENDIX 2

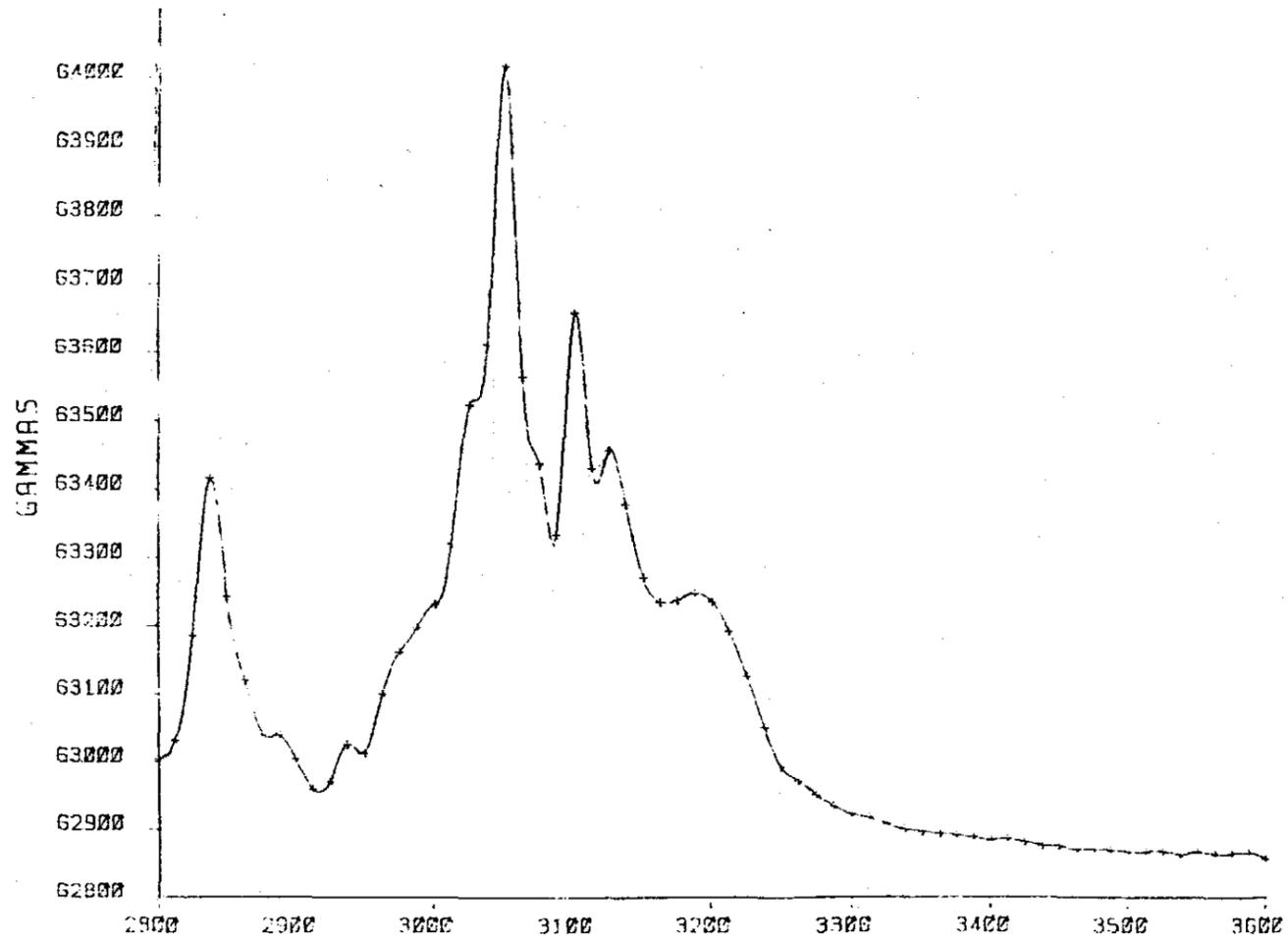
Ground Magnetic Profiles

For lines 9,600mN to 5,200mN plotted at 1:5,000 scale

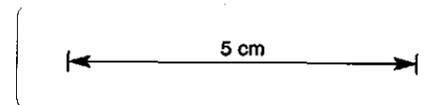


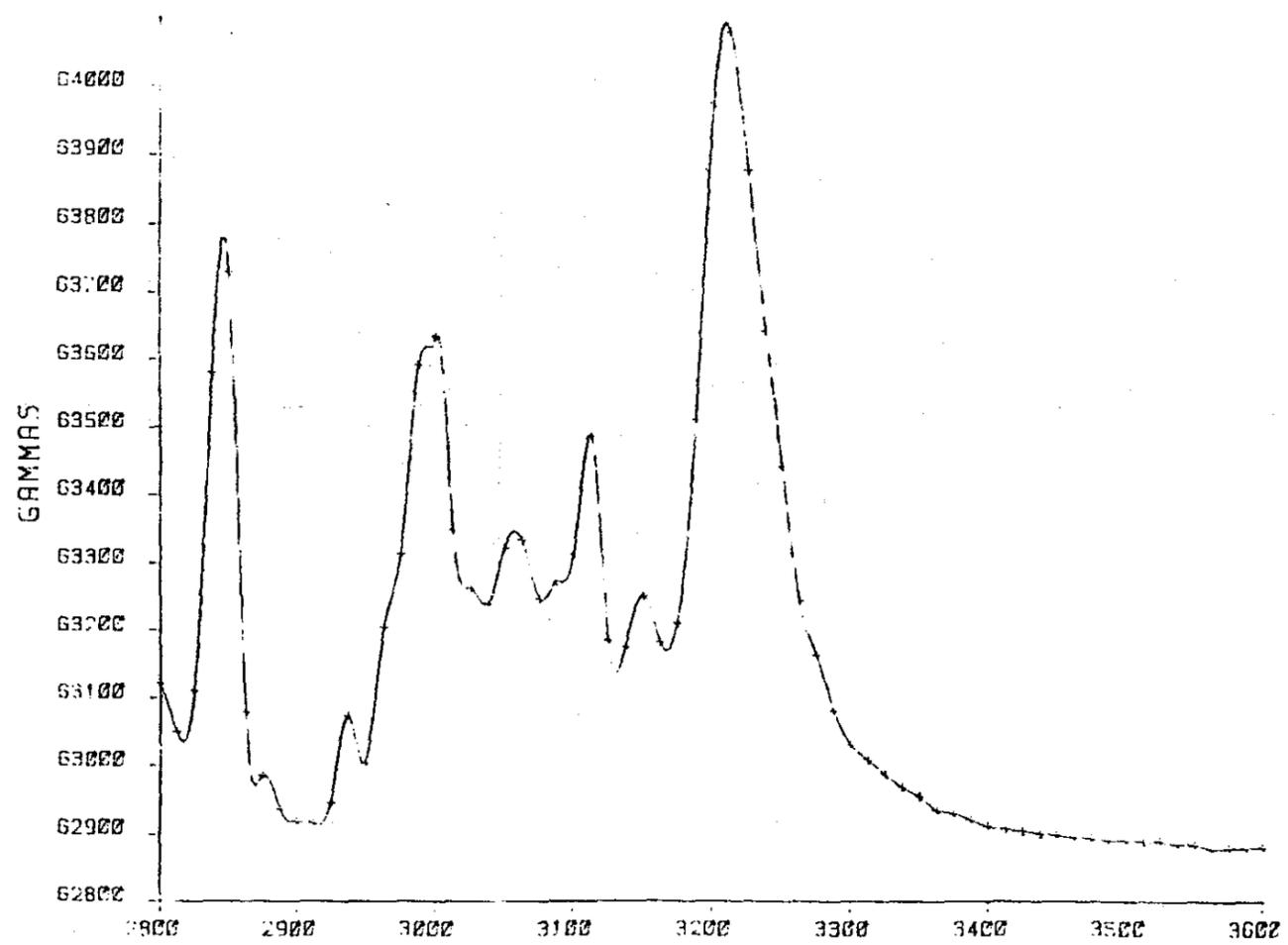
LINE 9800.0 SCALE 1: 5000.0

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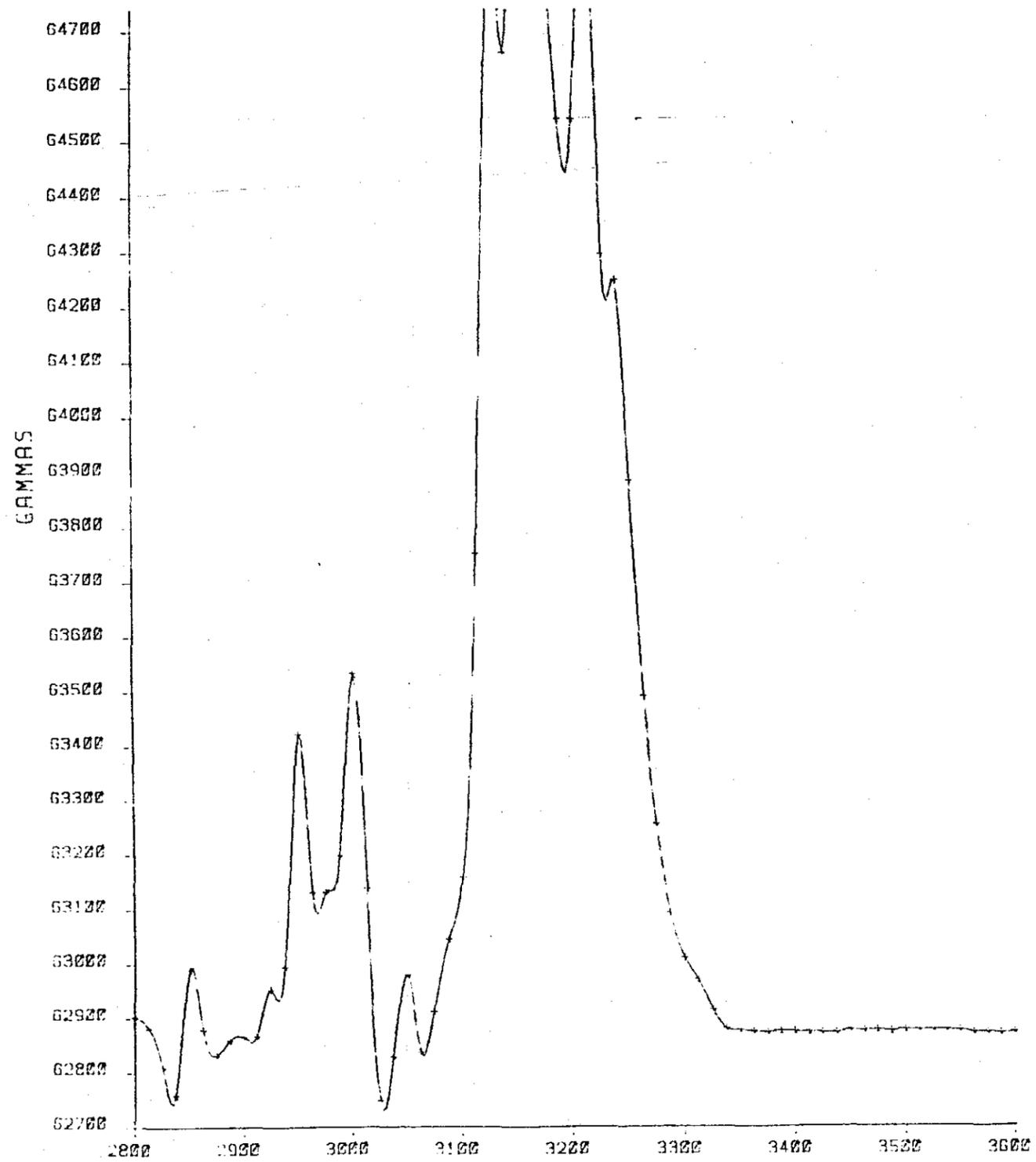
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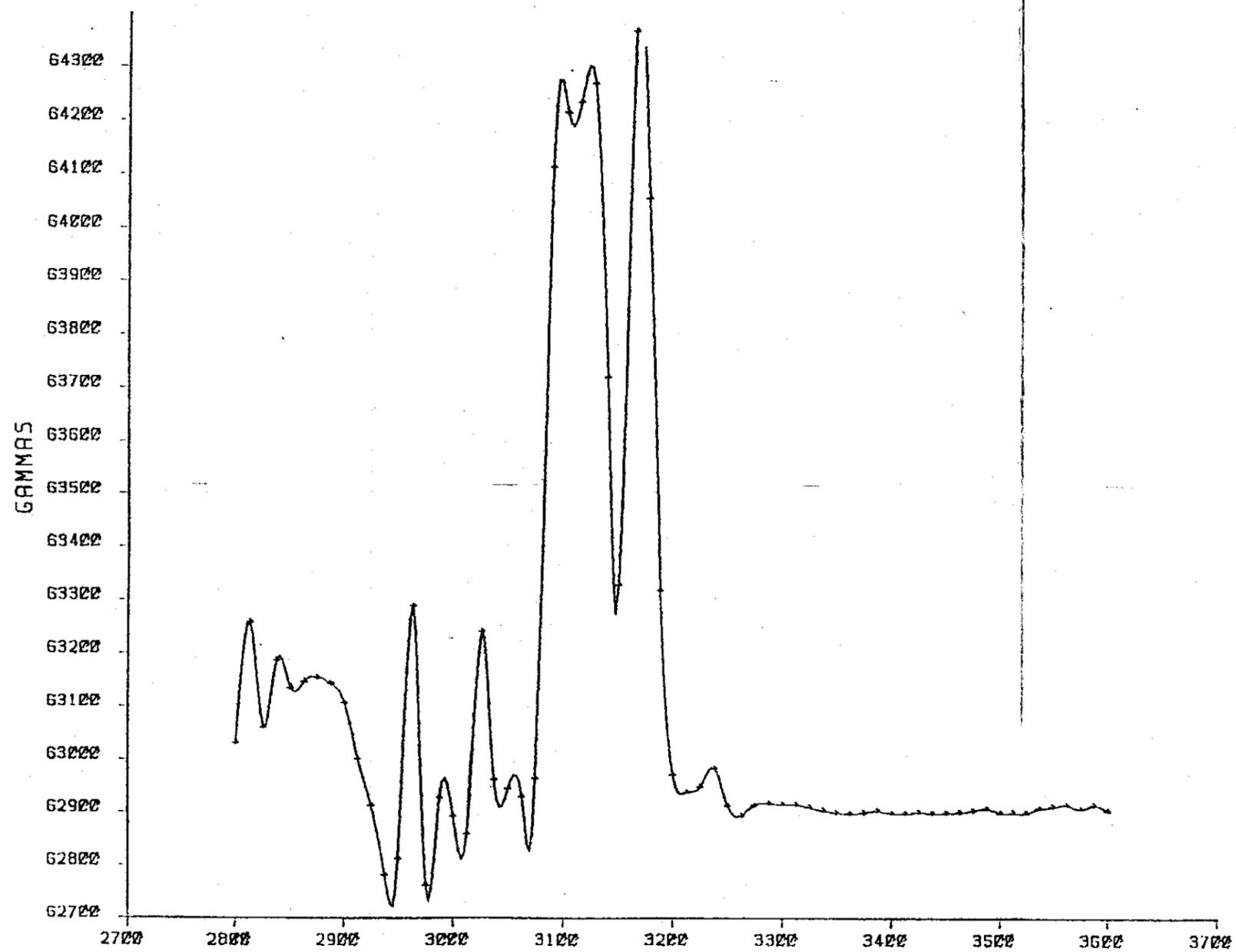
LINE 9400.0 SCALE 1: 5000.0 UNIT REF 101191

5 cm



LINE 9200.0 SCALE 1: 5000.0

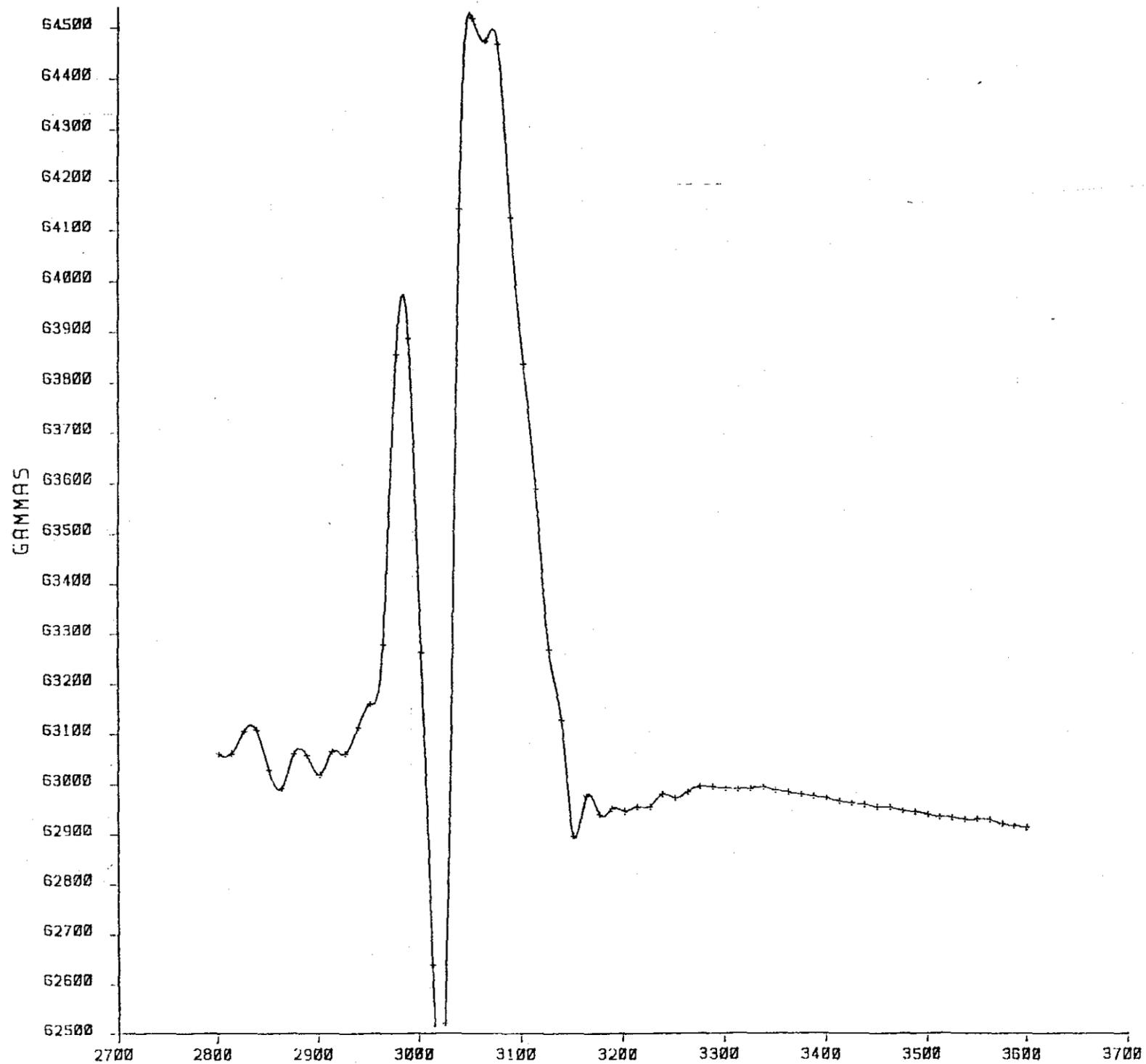
5 cm



HUSKISSON RIVER MAGNETICS

LINE 9000.0 SCALE 1: 5000.0

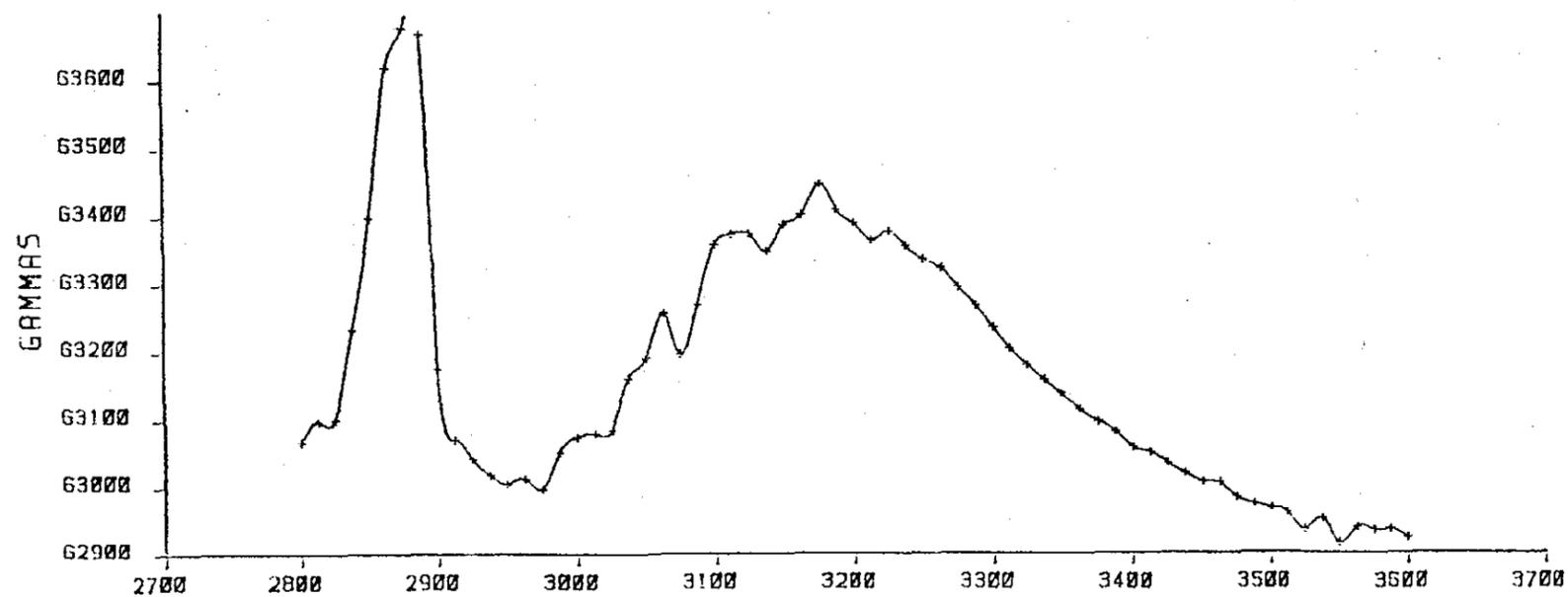
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HUSKISSON RIVER MAGNETICS

LINE 8800.0 SCALE 1: 5000.0 GETTY TRS 141181

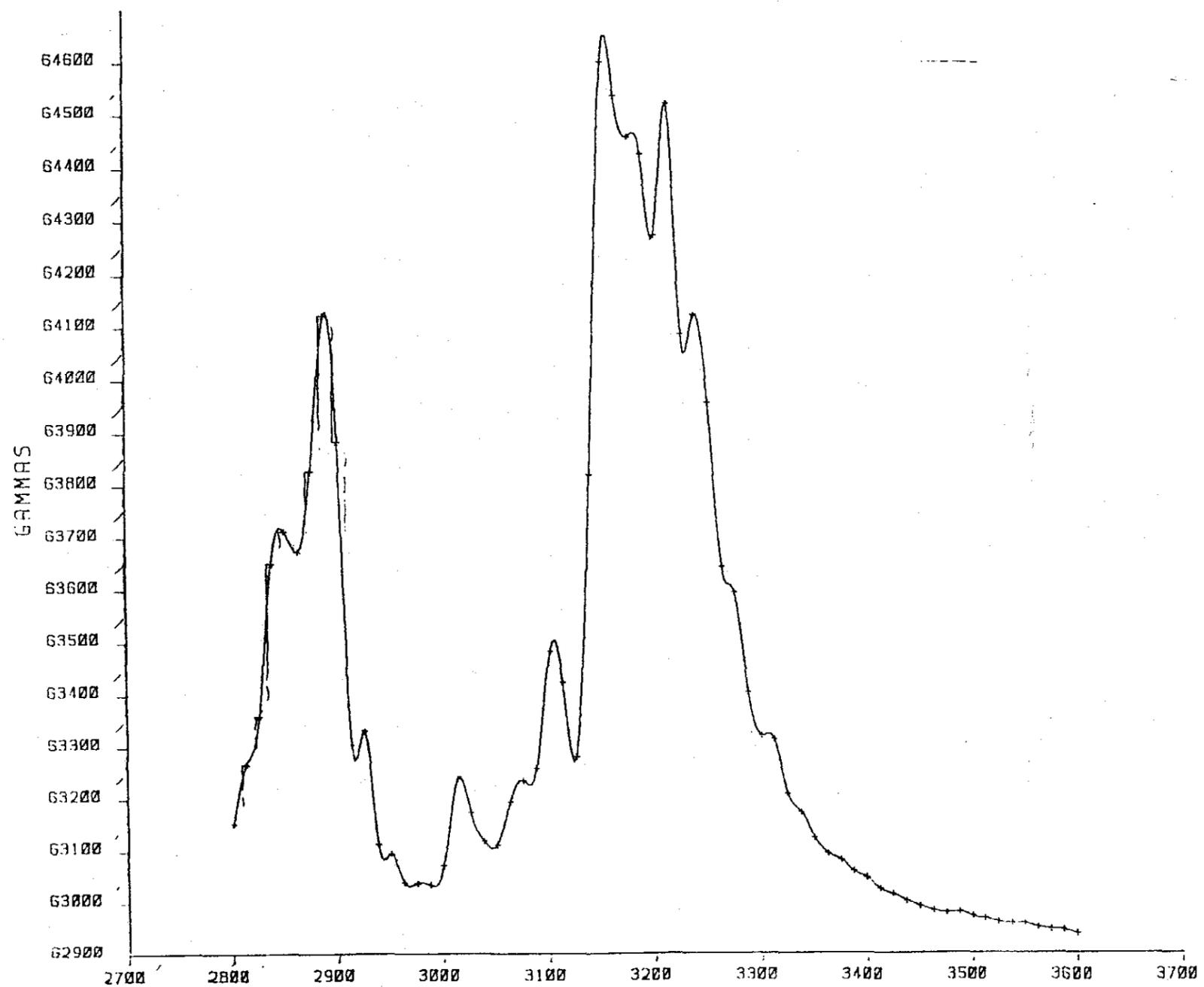
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HUSKISSON RIVER MAGNETICS

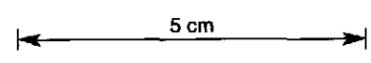
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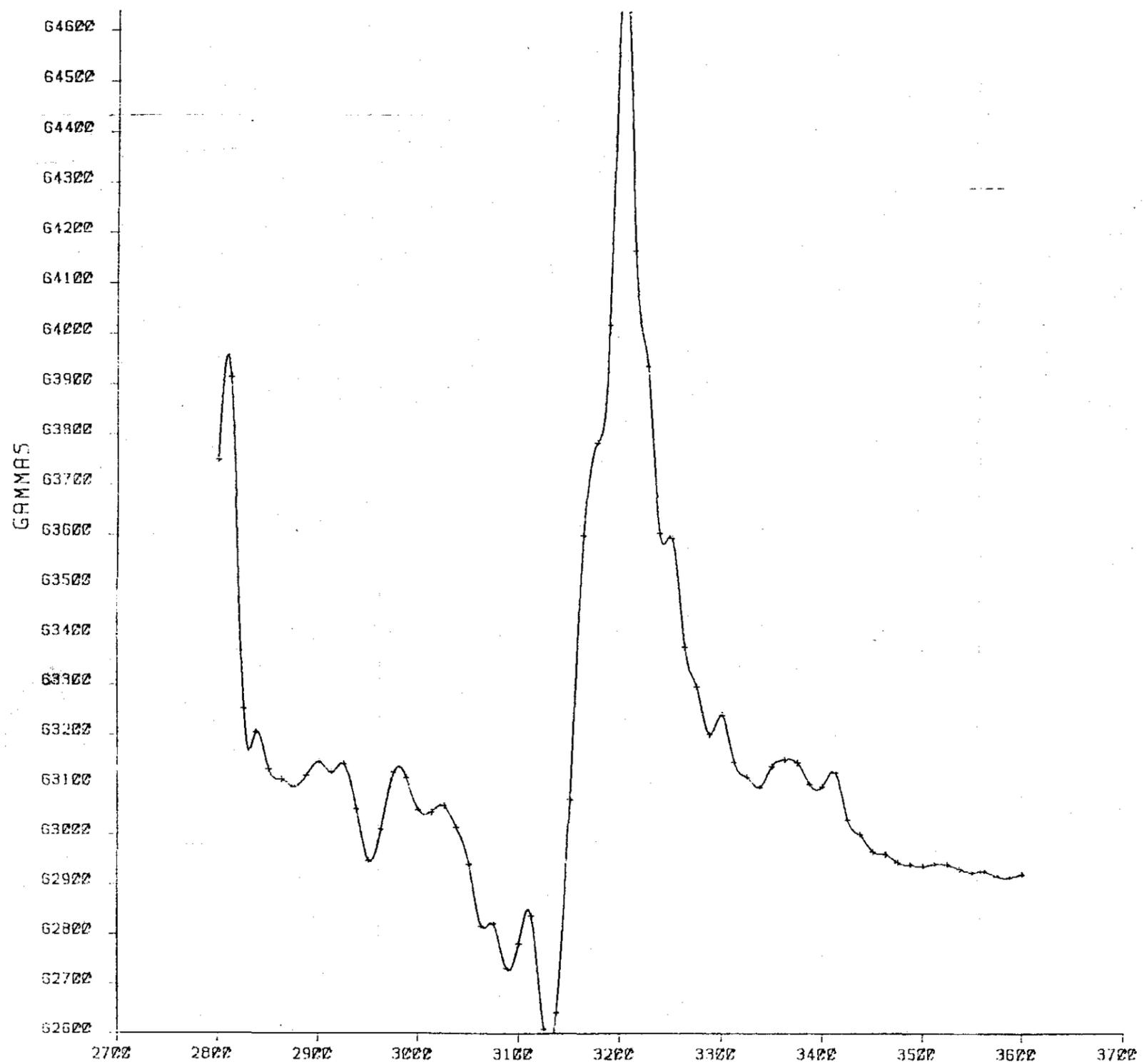
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HUSKISSON RIVER MAGNETICS

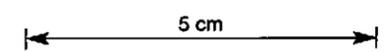
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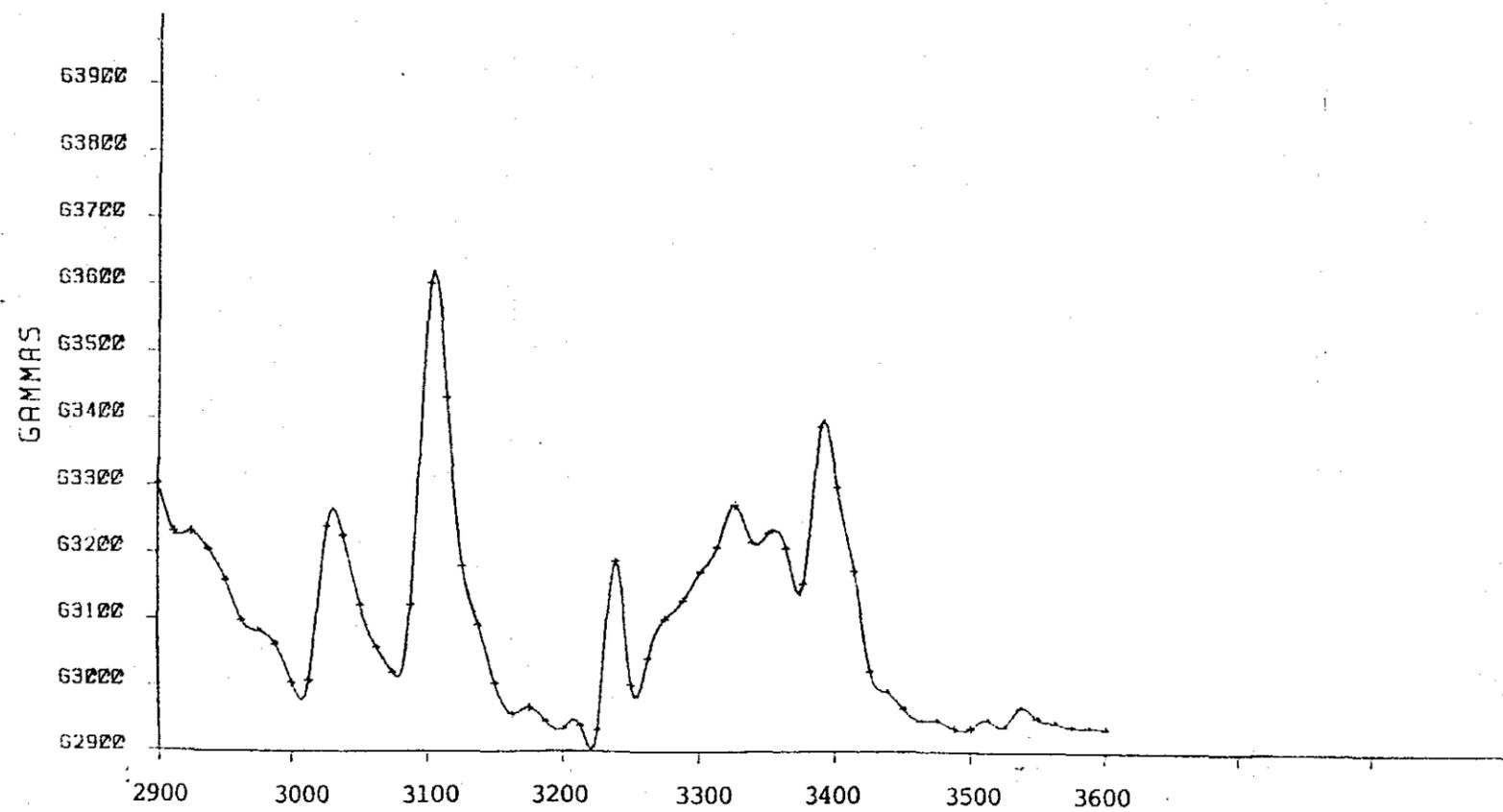




HUSKISSON RIVER MAGNETICS

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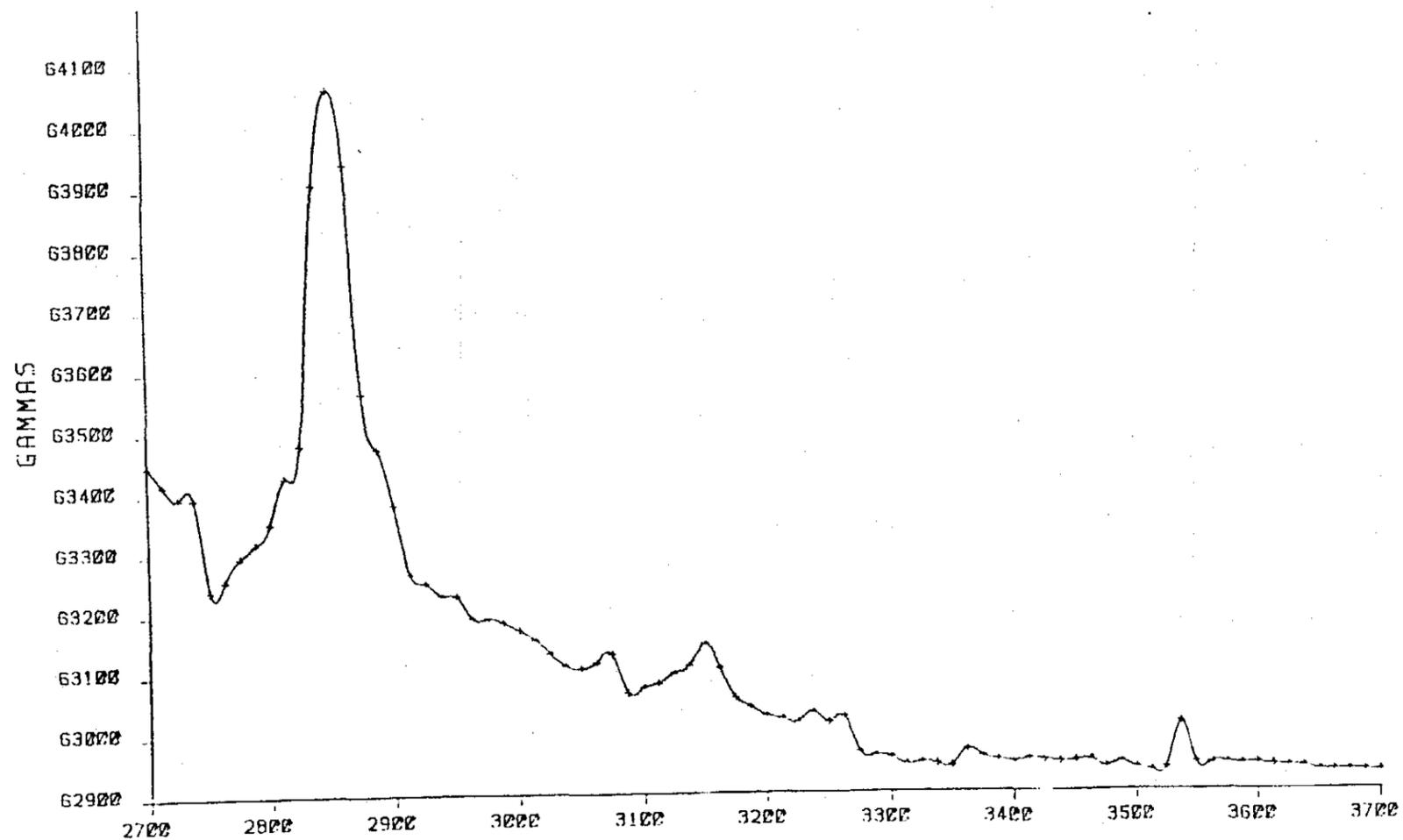




HUSKISSON RIVER MAGNETICS

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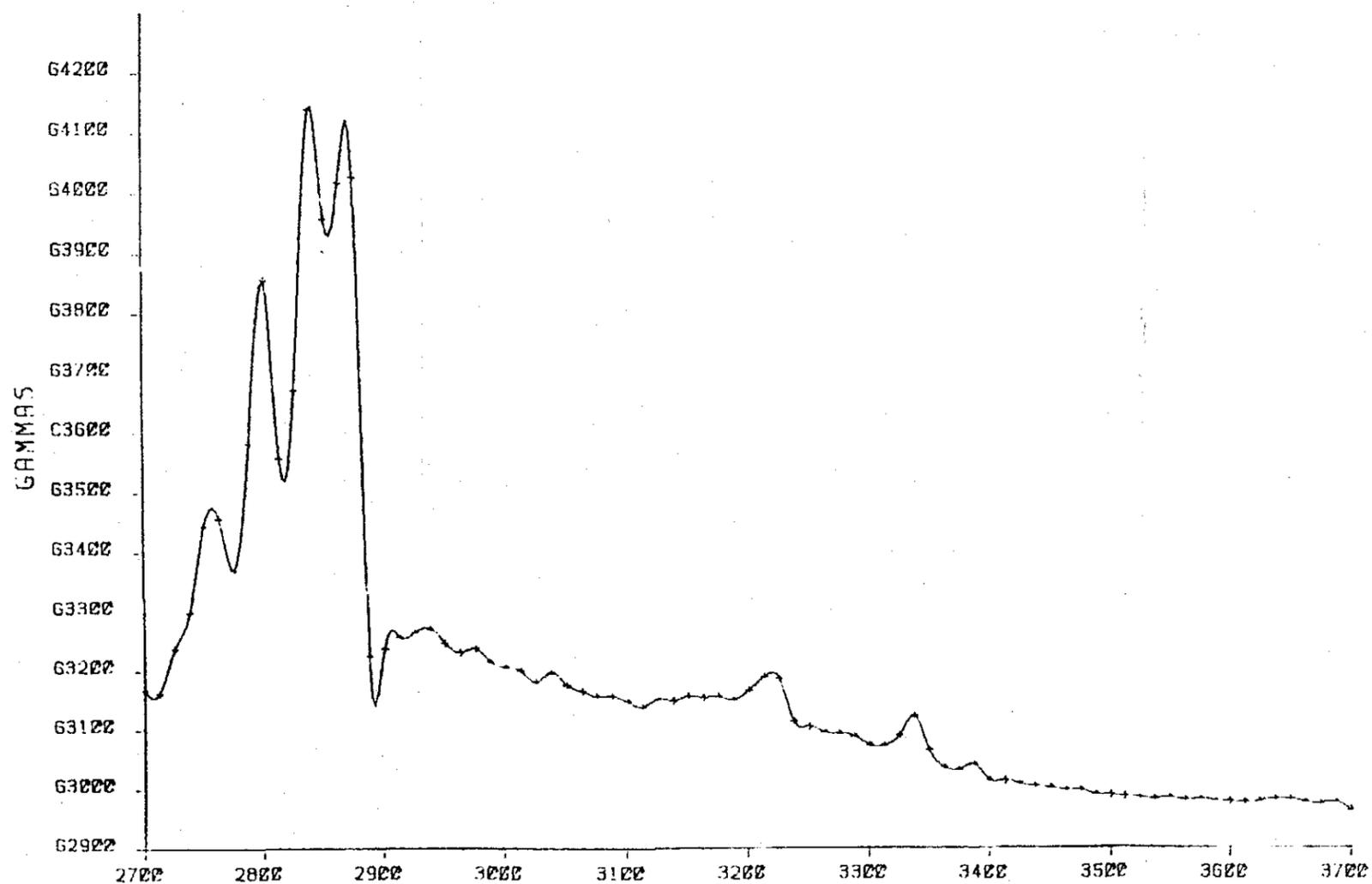
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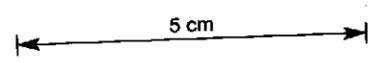
HUSKISSON RIVER MAGNETICS

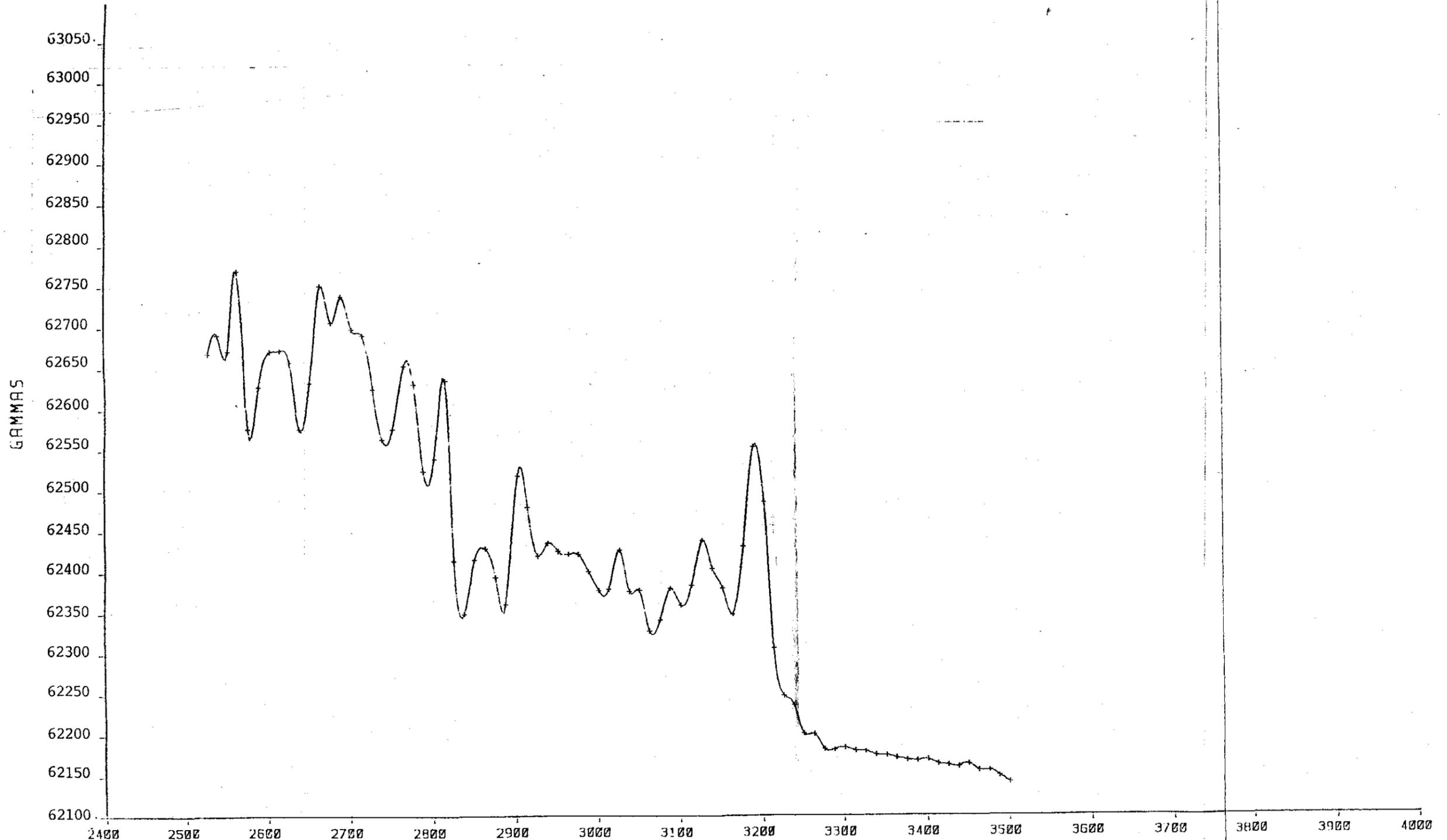
LINE 7800.0 SCALE 1: 5000.0

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HUSKISSON RIVER MAGNETICS
LINE 7600.0 SCALE 1: 5000.0 NETS: 785 141183

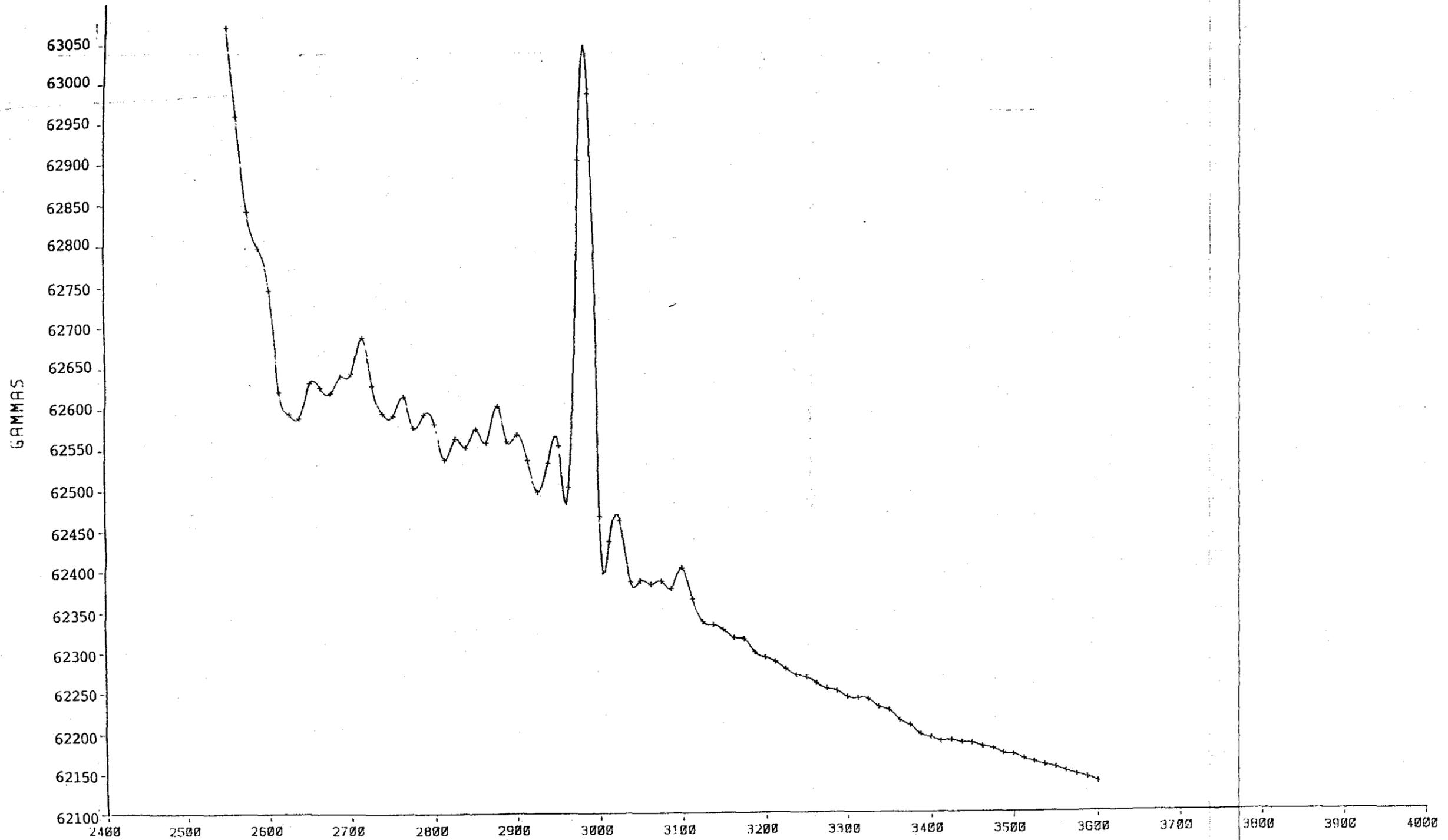




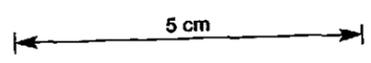
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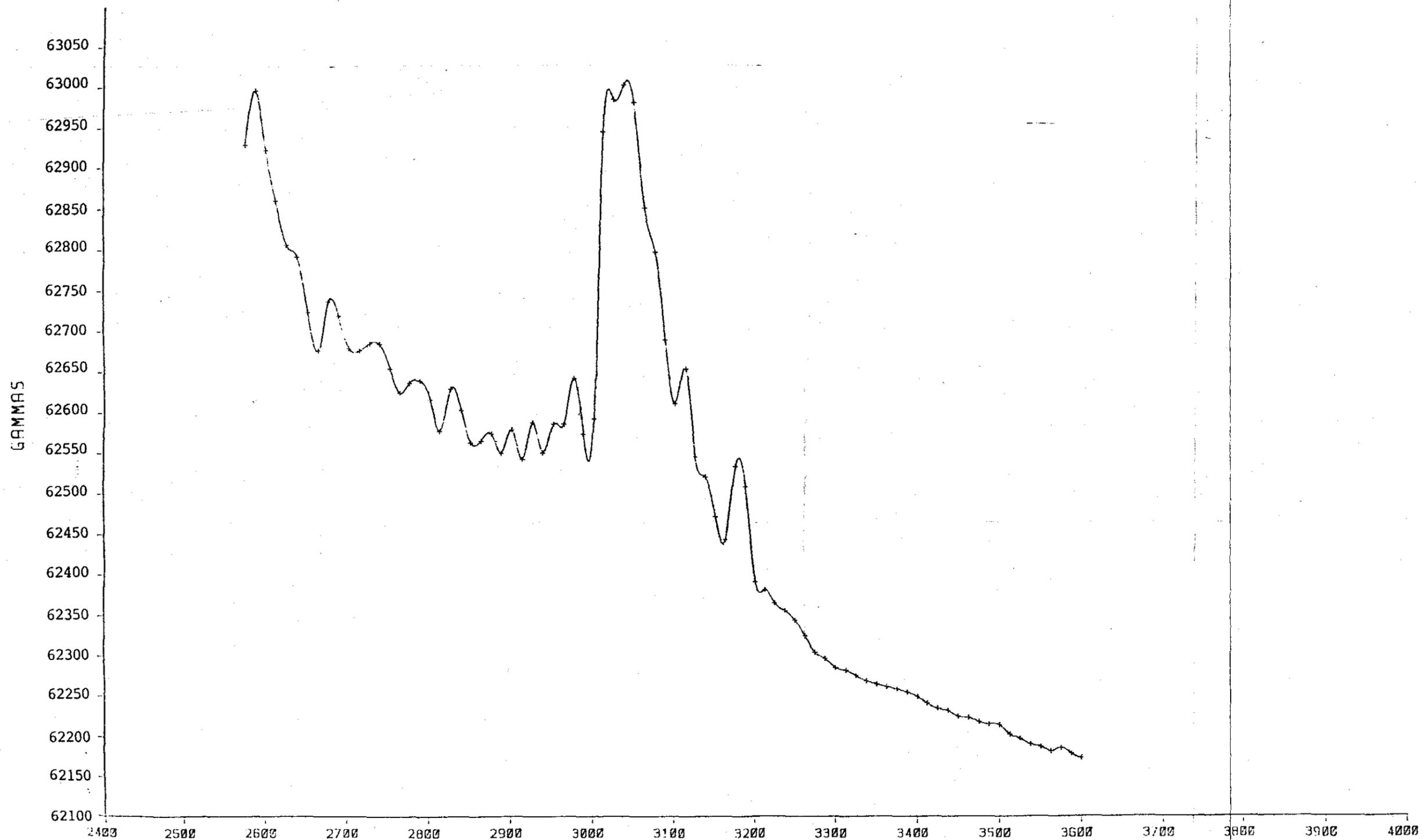
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HUSKISSON RIVER MAGNETICS
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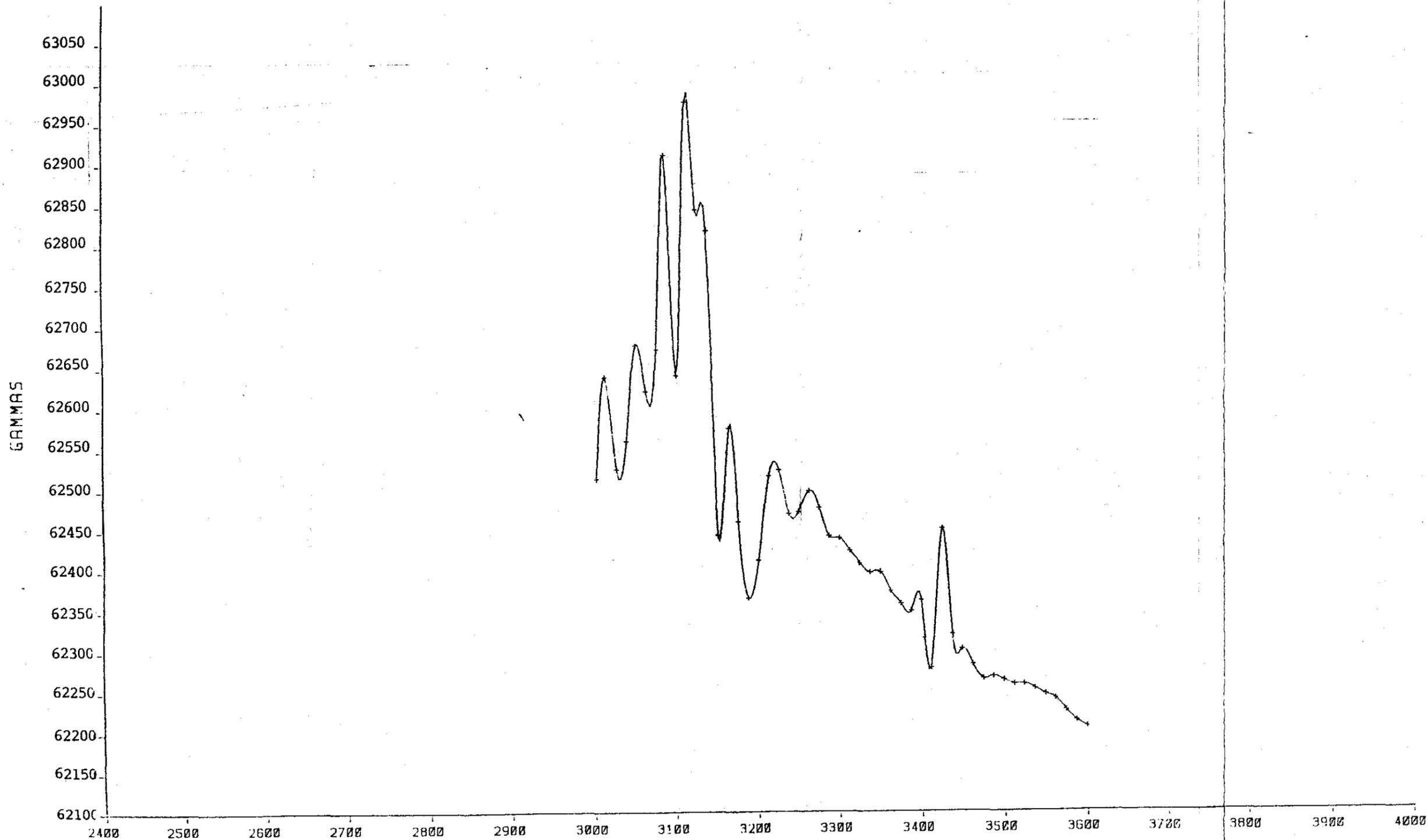




HUSKISSON RIVER MAGNETICS

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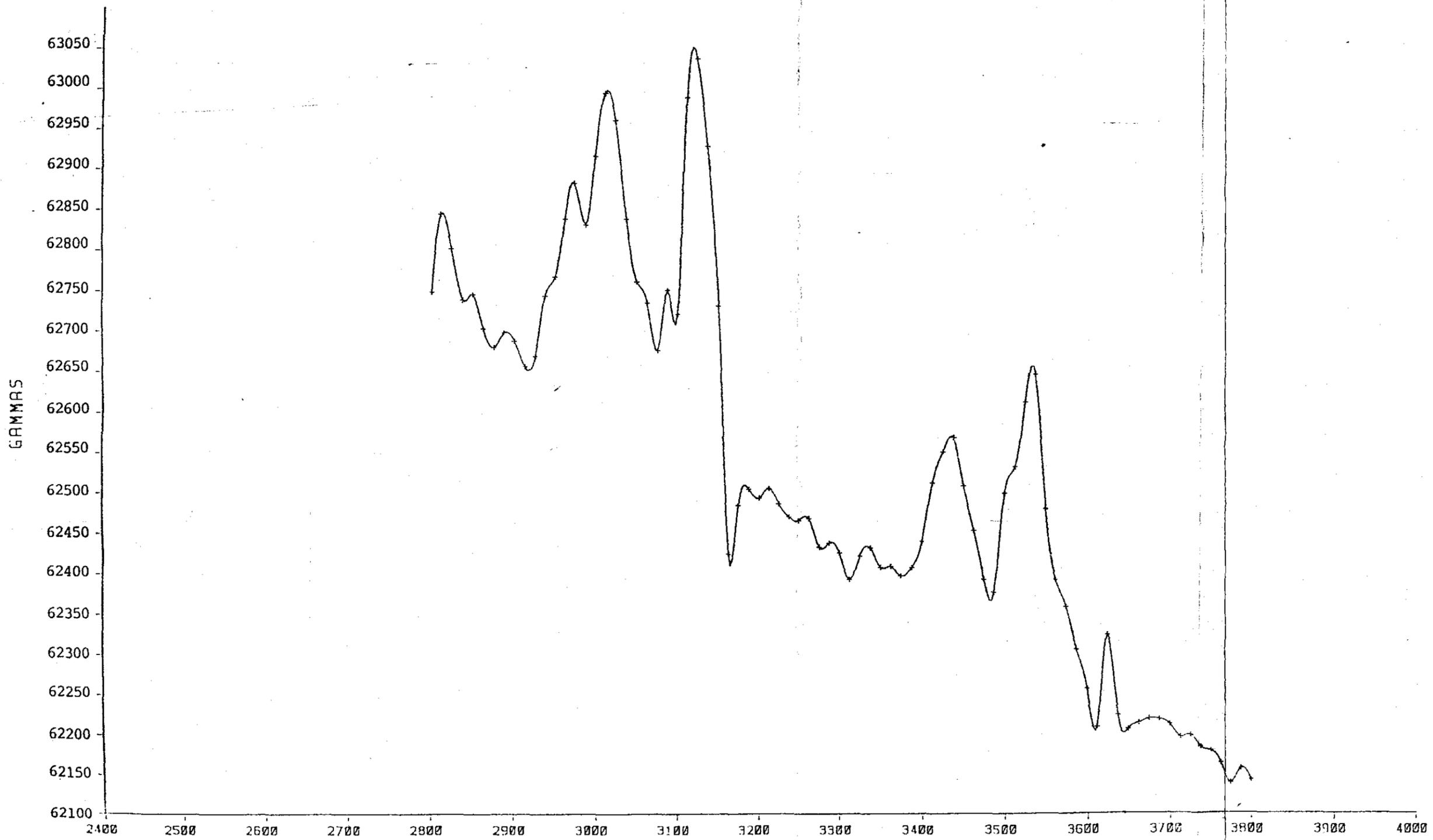
5 cm



HUSKISSON RIVER MAGNETICS

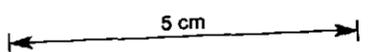
LINE 6200.0 SCALE 1: 5000.0 GETTY TRS 141183

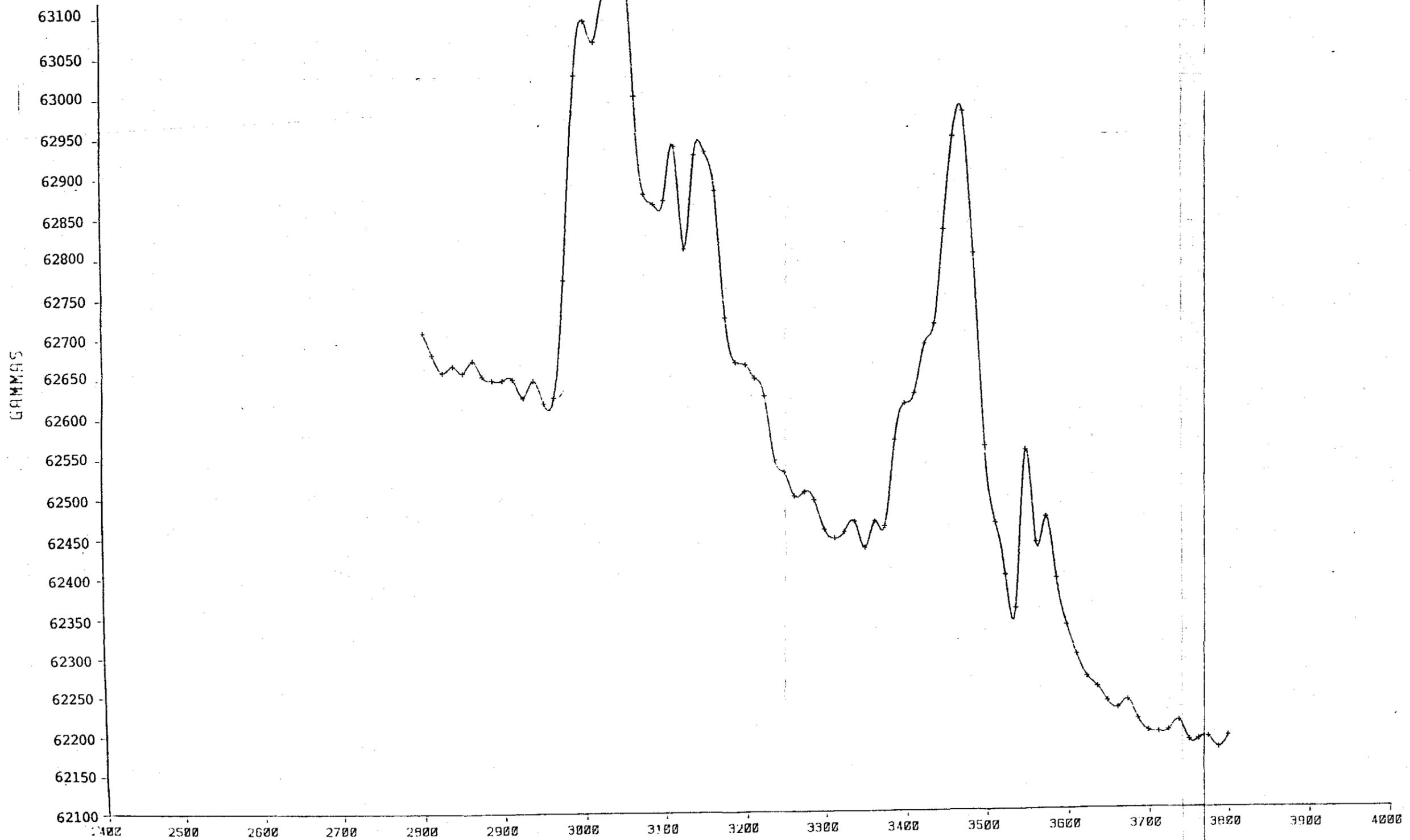
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HUSKISSON RIVER MAGNETICS

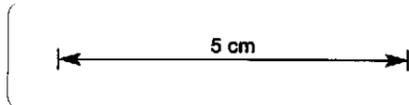
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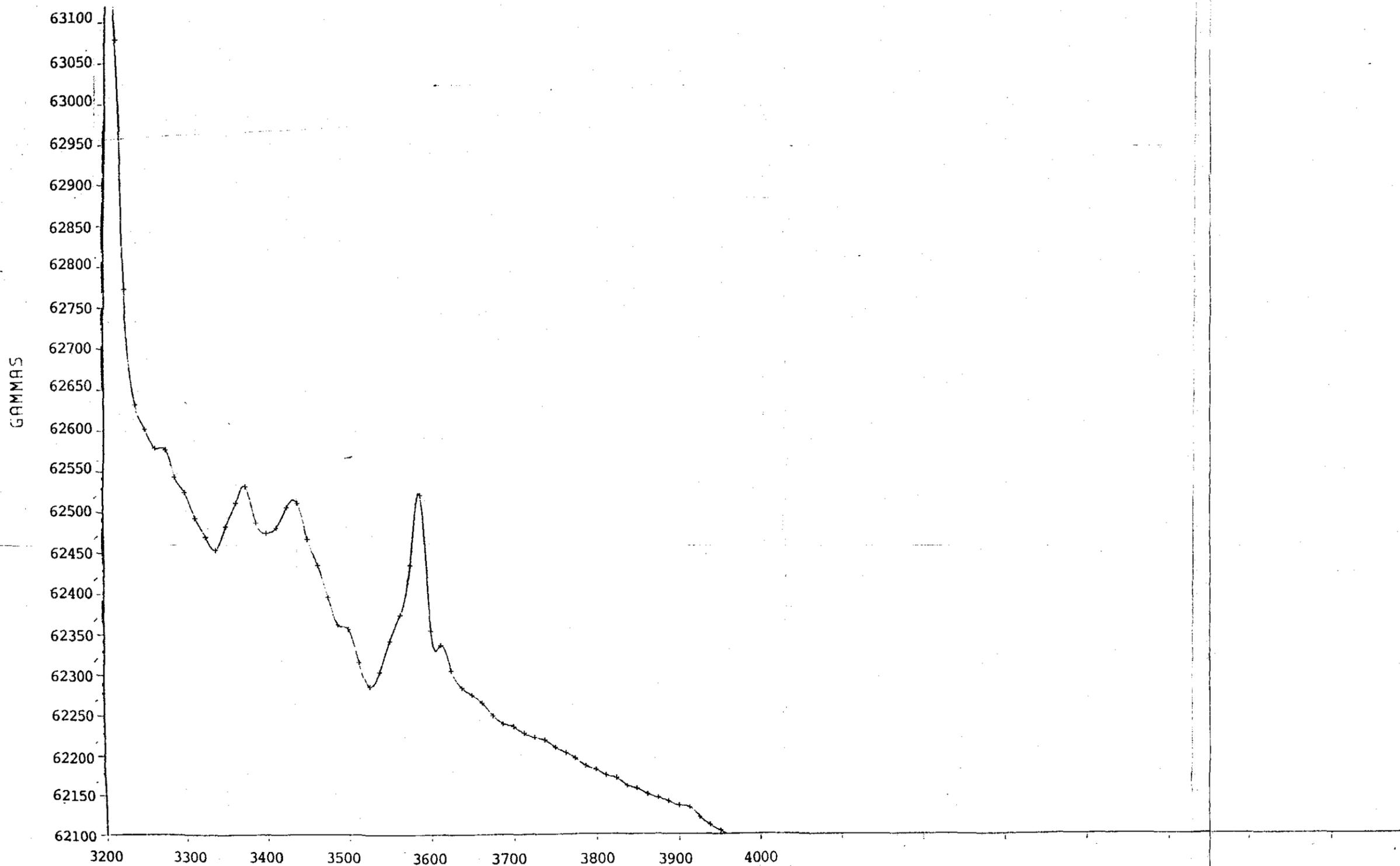




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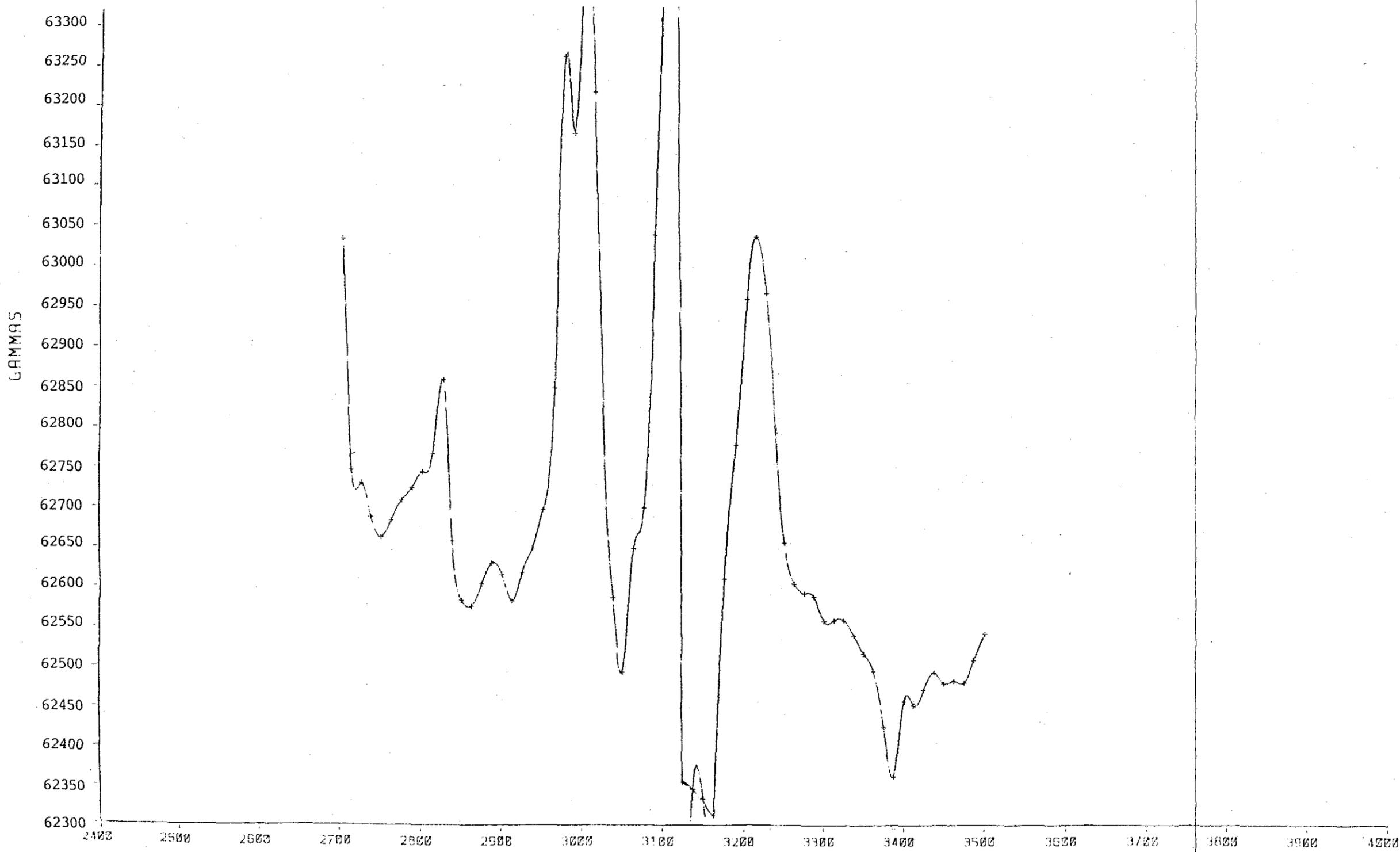
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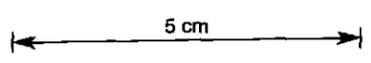


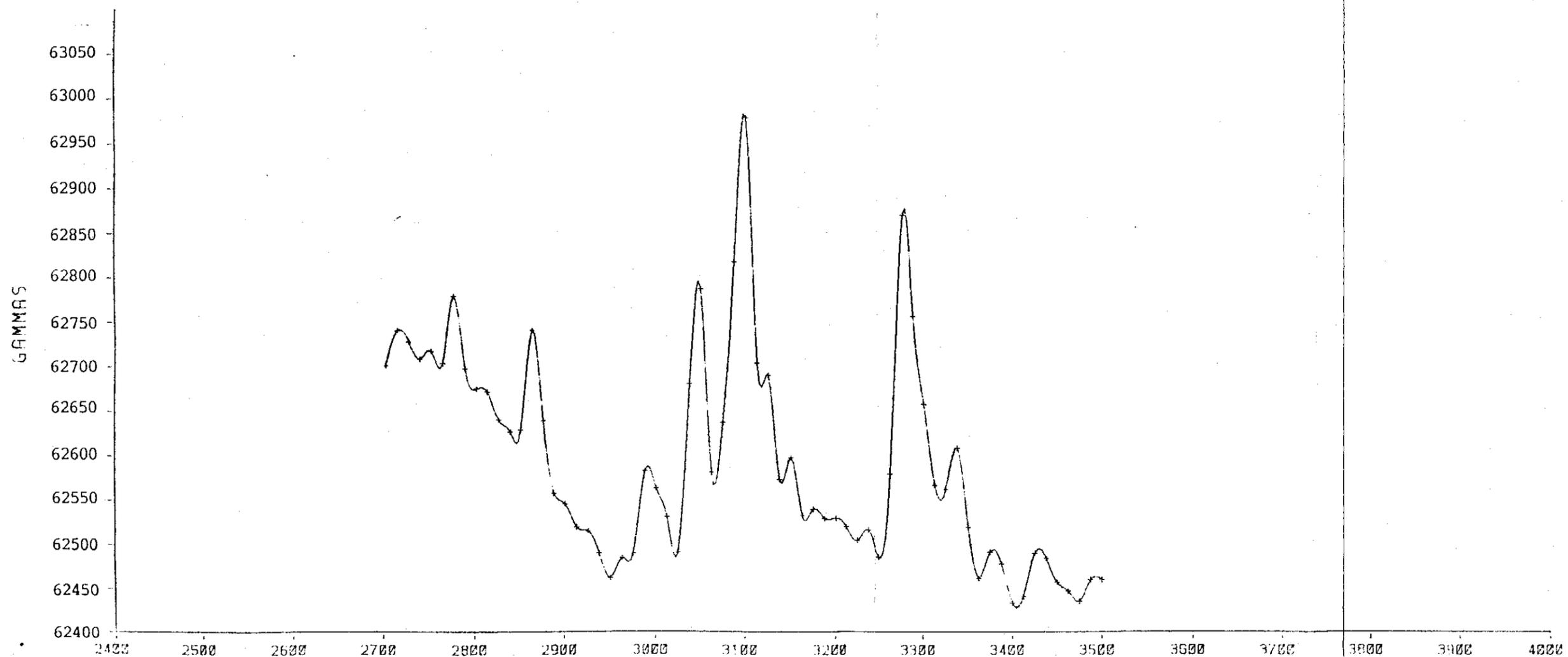
HUSKISSON RIVER MAGNETICS
LINE 5600.0 SCALE 1: 5000.0

5 cm



HUSKISSON RIVER MAGNETICS
LINE 5400.0 SCALE 1. 5000.0





HUSKISSON RIVER MAGNETICS

LINE 5200.0 SCALE 1: 5000.0

