TOMBILL MINES LIMITED

Report on exploration work carried out on claims in the Main Group, Ellis Group and Original Group, of the Tombill properties in the Geraldton area during 1982.

Summary

During 1982 linecutting, geophysical surveys and diamond drilling operations were carried on Tombill's Geraldton properties. Geophysical anomalies were located on the Main Group and Original Group. Diamond drilling operations were carried out on the anomalies located in the Main Group and on previously detected anomalies on the Ellis Group. Several diamond drill intersections returned low gold assays.

INTRODUCTION

Exploration has been carried out on Tombill's Geraldton properties intermittently over the past 40-50 years. Mining and milling were carried out by Tombill on the Original Group in Lindsley Township from 1938-1942. A total of 69,097 oz. of gold was recovered from 190,217 tons of ore.

Underground exploration was conducted on the Main Group in Errington Township during 1938-39 by Elmos Gold Mines, Limited and in 1947-48 by Talmora Longlac Gold Mines, Limited. Insufficient ore reserves were developed to sustain an ongoing operation.

In 1974 ground geophysical (EM-16 and magnetometer) surveys, soil geochemical surveys and geological surveys were carried out over portions of the Main Group and the Ellis Group in Errington Township. Several geophysical and geochemical anomalies were located but were not tested by diamond drilling.

In 1979 the area was flown by a joint venture comprised of Hudson Bay Exploration and Development Company Limited, Anglo American Corporation of Canada and Tombill Mines Limited. A magnetometer and EM-30 electromagnetic survey was completed. Five electromagnetic conductors were located, 3 on the Main Group in areas covered by extensive swamp and water not previously surveyed on the ground in 1974 and two on the Ellis Group which had been detected in 1974. An airborne electromagnetic survey carried out by this joint venture over the Geraldton area in 1971 had not revealed any conductors on the Tombill property and it was thought that the EM-30 may have responded to weak replacement sulphide zones, some of which contained gold at the MacLeod-Cockshutt and Hardrock Mines. It was decided to locate the airborne EM-30 conductors on the Main Group with a ground EM-16 survey. A magnetometer survey was also conducted, as a structural aid in delineating iron formation common to the area.

The airborne EM-30 survey did not locate any conductors on the Original Group in Lindsley Township. Since the EM-30 did not respond to all of the conductors located by the EM-16 ground survey carried out over the Main Group and the Ellis Group in 1974 it was decided to test the Original Group for conductivity and magnetism in order to locate iron formation and shear zones.

The results of the geophysical surveys which were carried out were used to lay out diamond drill holes which tested for the occurrence of gold bearing replacement sulphide lenses in iron formation.

LOCATION AND ACCESS

Geraldton is the nearest trading centre to the claim groups and it lies immediately to the north of the Ellis Group of 5 claims. Four and one half of the Ellis claims lie in Errington Township and one half of a claim lies in Ashmore Township. Highway 584 crosses the most eastern of the Ellis claims and old Highway 11 lies just to the north of the Ellis Claims.

The Main Group is a block of 58 claims which is nearly bisected by Highway 11 and centered about 3 miles south west of Geraldton. Numerous trails and secondary roads provide some access within the Main Group.

The Original Group of 6 claims lies about 500 feet north of Highway 11 about 6 miles west of Geraldton.

CLAIMS

All of the claims are held under patent by Tombill Mines Limited. The claims discussed in this report are:

ORIGINAL GROUP, LINDSLEY TOWNSHIP

TB 10643	TB 10646
TB 10644	TB 10647
TB 10645	TB 10648

MAIN GROUP, ERRINGTON TOWNSHIP

TB 1638	TB 10654
TB 1639	TB 10735
TB 1640	TB 10736
TB 10609	TB 10856
TB 10610	TB 10857
TB 10611	TB 11837
TB 10652	TB 11838
TB 10653	TB 12013

ELLIS GROUP, ERRINGTON TOWNSHIP

TB 10604	TB 10606
TB 10605	TB 10607

GENERAL GEOLOGY

All of the claim groups are underlain by a folded succession of clastic sediments, chiefly greywacke which is interbedded with iron formation composed of magnetite and hematite. In some areas the iron formation forms thick sequences in which greywacke is practically absent. Quartz-albite porphyry and diorite bodies have been mapped in the area. These bodies tend to follow the regional strike of the clastic sediments, i.e. nearly east-west. Cross cutting diabase dikes are also known. The geology has been described by Pye (1951) and Ferguson (1967). Since all of the records on previous exploration of the property consider the major host rocks to be clastic sediments, this convention has been adopted in the present report.

LINECUTTING

Linecutting operations were carried out in early January on the Main Group and the Original Group. A party of linecutters contracted from Northwest Geophysics of Thunder Bay did the work of cutting N-S picket lines at 400 foot intervals. Stations were established by chaining at 100 feet intervals along the picket lines.

On the Main Group, picket lines were tied to the 0+00 baseline of the 1974 grid. In March company personnel extended these lines to the northern property boundary. On the Original Group in Lindsley Township picket lines were tied to an east-west baseline cut across the centre of the property.

During late July/early August of 1982, Company personnel cut short N-S picket lines on 100 foot centres to cover, in detail, parts of the area bounded by 74E to 92E and 23W to 30N in the vicinity of diamond drill hole 82-4.

GEOPHYSICAL SURVEYS

VLF-EM and magnetometer surveys were carried out by Northwest Geophysics during January on the newly established lines. D. Boucher of Tombill Mines carried out check EM-16 surveys over prospective drill sites and along line extensions cuty by company personnel. During the month of August, 1982 VLF-EM and magnetometer surveys were carried out over the detailed grid on 25 foot centres.

(a) Electromagnetic Surveys

A Geonics EM-16 instrument was used for the survey. The instrument is a very low frequency receiver which makes use of radio signals transmitted by components of a communications network operated by the United States Navy. Signals transmitted from vertical antennae produce concentric horizontal magnetic fields (the primary field) around the antennae. Under the influence of this primary field, conductive bodies generate weak secondary fields which are detected by the instrument.

The EM-16 receiver consists of two receiving coils at 90° to each other and the inputs of these coils are used to measure the secondary field. When the instrument is properly oriented, the signal from the vertical coil is minimized by tilting and the percentage of tilt is recorded (in-phase reading). The remaining signal in this coil is balanced out by a measured percentage of the signal in the other coil (out-of-phase reading), after being shifted by 90° in phase. Normally this coil is parallel to the primary field. In field operation, section lines are cut perpendicular to the strike of the rock.

For example, on the Tombill claims, the strike is east-west, so the lines are cut north-south. The most appropriate stations for an east-west strike in the Geraldton area are Stations NAA in Cutler, Maine or NLK, Seattle. Signal strength from these stations are good and null points are readily determined. Readings for the survey carried out by Northwest Geophysics were taken at 50 foot centres using NAA. On line 84+00E D. Boucher repeated the survey using NAA on 25 foot centres to provide more detail of the conductors. The detailed survey in the vicinity of the Hole 82-4 was conducted by the author on 25 foot centres using station NLK.

The results of the EM-16 survey are shown on Figures 1 (Main Group), 2 (Original Group) and 3 (Ellis Group, surveyed in 1974). An interpretation showing the axes of the conductors is shown on these figures. Profiles of lines completed in detail during August are attached in Appendix I.

This instrument operates at a relatively high frequency so that features such as sheared contacts, breccia zones, faults and alteration haloes, as well as massive sulphide zones may be detected. Thus the EM-16 is a useful aid in geological interpretation.

MAGNETOMETER SURVEY

Northwest Geophysics carried out a total field magnetometer survey using an Exploranium/Geometrics G-816 instrument over the Original and Main Groups. Readings were taken on 50 foot centres and diurnal corrections were applied. The instrument is sensitive to ± 1 gamma. In 1974 a Sharpe MF-1 flux-gate magnatometer was used to survey the Ellis Group. Diurnal corrections were applied to the measured vertical magnetic field (in gammas). Figures 4, 5 and 6 show the results of the magnetic survey for the Main, Original and Ellis Groups, respectively.

Profiles of the detailed survey carried out in August are attached in Appendix II.

GEOPHYSICAL STATIONS

On the Main Group, a total of 858 EM-16 stations were established during the survey carried out in the winter of 1982 on 400 foot line centres. During August, 415 additional EM-16 stations were occupied in the vicinity of drill hole 82-4.

A total of 821 magnetometer stationswere established in the winter of 1982 and in the vicinity of drill hole 82-4 an additional 403 stations were established in August.

In the Original Group in Lindsley Township 583 magnetometer and EM-16 stations were established.

INTERPRETATION OF GEOPHYSICAL SURVEYS

MAIN GROUP (Figures 1 & 4)

Three lenses of conductive material (A,B,C) associated with magnetic anomalies strike approximately east-west across the property between lines 72 + 00E and 108 + 00E. The shape of the EM-16 profile shown in Figure 7 suggests that each anomaly is the result of two parallel conductive bodies or one wide body. The magnetic profile suggests a similar interpretation may be valid.

Conductors D, E and F in the vicinity of the Talmora shaft correlate well with the Elmos, No. 6 and No. 8 veins, respectively.

ORIGINAL (LINDSLEY) GROUP (Figures 2 & 5)

Two weak conductors were detected by the EM-16. Conductor "A" is located to the south of the old Tombill Mine shaft and is probably related to the contact between the porphyry and the metasediments. About 1700 feet to the north of this conductor another conductor, designated conductor "B", was detected. Conductor "B" is hosted by greywacke and no magnetic anomaly is associated with it. Probably this conductor is related to a fault or shear zone and warrants investigation.

The magnetometer survey shows a gradual increase in magnetic intensity to the north. In the northeast corner of the claim group the intensity increases rapidly and it is probably related to bands of iron formation.

ELLIS GROUP (Figures 3 & 6)

Conductors A and B correlate with magnetic anomalies and are related to bands of iron formations.

DIAMOND DRILLING

Two phases of diamond drilling were carried out in the Main and Ellis Groups for a total of 2,934.2 feet in fifteen holes. During February and March of 1982, five holes were drilled by Kenora Diamond Drilling to investigate EM-16 and magnetometer anomalies located on these groups. Hole 82-4 intersected an epidotized zone which returned low gold values.

During August, 1982, a J.K. Smit Winkie drill was mobilized to the Main Group and 898.2 feet was drilled in ten holes to investigate the silicified zones intersected in Hole 82-4. Drilling was carried out by students until the latter part of August and the programme was completed by drillers supplied by Northwest Geophysics. The epidotized zone was tested on 100 foot centres by holes generally less than 100 feet in depth.

Cross sections of diamond drill holes 82-1 to 82-4 on a scale of 100 feet = 1 inch are shown in Figure 7, along with EM-16 and magnetometer profiles. Iron formation interbedded with clastic sediments were intersected in all of these holes. The EM-16 conductors are related to the presence of bonded iron formation.

Cross sections of all of the drill holes at a scale of 50 feet = 1 inch are shown in Figures 8 (a) to 8 (l). Diamond drill Logs, Diamond Drill Sample Record Sheets and Assay Sheets are found in Appendix III. Table 1 shows the assays returned for each hole that are more than 0.005 oz/t gold.

Gold fire assays were carried out by Technical Service Laboratory using thin standard techniques. T.S.L. also carried out whole rock and iron assays from Hole 82-2 using their standard techniques.

The drill core is stored on the premises of Errington Limber, Arena Road, Geraldton, Ontario.

TABLE 1

Gold assays returned from diamond drilling, Geraldton project 1982.

HOLE NO.	FROM	TO	WIDTH	GOLD (OZ/TON)
82-1	253.0'	256.0'	3.0'	0.051
	256.0'	259.0'	3.0'	0.008
	267.5'	269.0'	2.5'	0.006
	289.0'	294.0'	5.0'	0.005
82-2	345.0'	350.0'	5.0'	0.007
82-3	98'3"	101'6½"	3'3½"	0.011
	157'9"	161'2"	3'5"	.005
82-4	57.0'	58.0'	1.0'	0.119
	58.0'	59'8"	1'8"	.014
	133.0'	134.0'	1.0'	0.036
	228'10"	229'6"	8"	0.065
	248'2"	248'5"	3"	1.67
	288.0'	289.0'	1.0'	0.015
	289.0'	294.0'	5.0'	0.018
	294.0'	299.0'	5.0'	0.011
	299.0'	304.0'	5.0'	<.005
	304.0'	306'10"	2'10"	0.014
	306'10"	308'9"	1'11"	0.076
	316'4"	316'8"	4"	0.005
	331.0'	336.0'	5.0'	0.005
	350.5'	355.5'	5.0'	0.008
	355.5'	356.25'	0.75'	0.007
	362.0'	363.0'	1.0'	0.005
82-5	310.0'	3.510'	5.0'	0.006

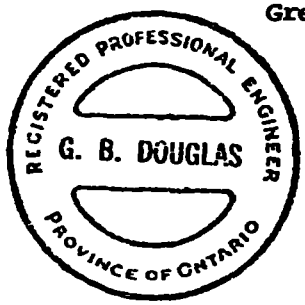
HOLE NO.	FROM	TO	WIDTH	ASSAY Au oz/t
82-6	27.3'	30.4'	3.1'	0.011
	30.4'	32.5'	2.1'	0.012
	32.5'	37.5'	5.0'	0.015
82-7	52.5'	54.25'	1.75'	0.007
	57.6'	59.1'	1.5'	0.032
	68.0'	73.0'	5.0'	0.024
82-8				
82-9	76.5'	81.5'	5.0'	0.005
82-10	3.0'	8.0'	5.0'	0.005
	43.0'	48.35'	5.35'	0.005
82-11	68.0'	72.5'	4.5'	0.062
	72.5'	73.0'	.5'	0.019
	73.0'	78.0'	5.0'	0.015
	78.0'	81.0	3.0'	0.012
82-12				
82-13				
82-14				
82-15	24.0'	29.0'	5.0'	0.014

CONCLUSIONS

No replacement sulphide deposits were located during the drilling. A weakly mineralized silicified, quartz stringer zone was intersected in Hole 82-4 on the Main Group and a further ten holes were drilled to evaluate this zone. Gold assays show a low grade zone extending from 83+00E to 86+00E in the vicinity of 27+50N.

Respectfully submitted

Greg Douglas



October 14, 1982
Toronto, Ontario

REFERENCES

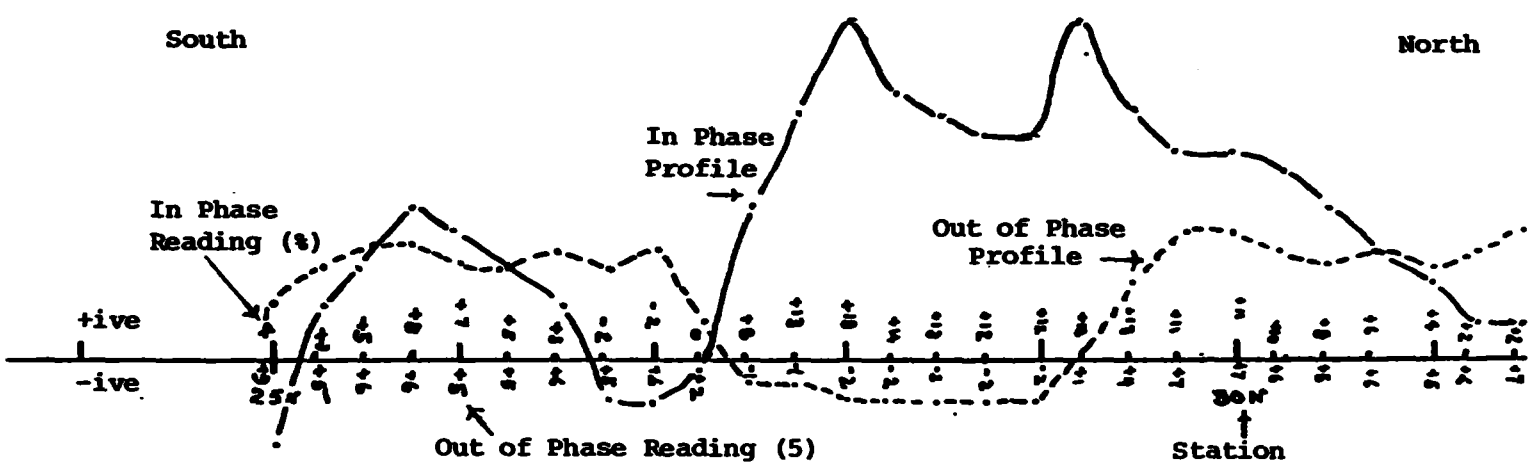
FERGUSON, S.A. 1967. MacLeod Mosher Gold Mines Ltd. Surface Geology, Parts of Errington and Ashmore Township, District of Thunder Bay, Ontario. ODM, Map p-436.

PYE, E.G. 1951. Geology of Errington Township, Little Long Lac Area, Thunder Bay District, Ontario. ODM Ann. Report 1951, Vol. 60, Pt.6.

APPENDIX I

DETAILED EM-16 SURVEY PROFILES
IN VICINITY OF DIAMOND DRILL HOLE 82-4

Legend for EM-16 Sections



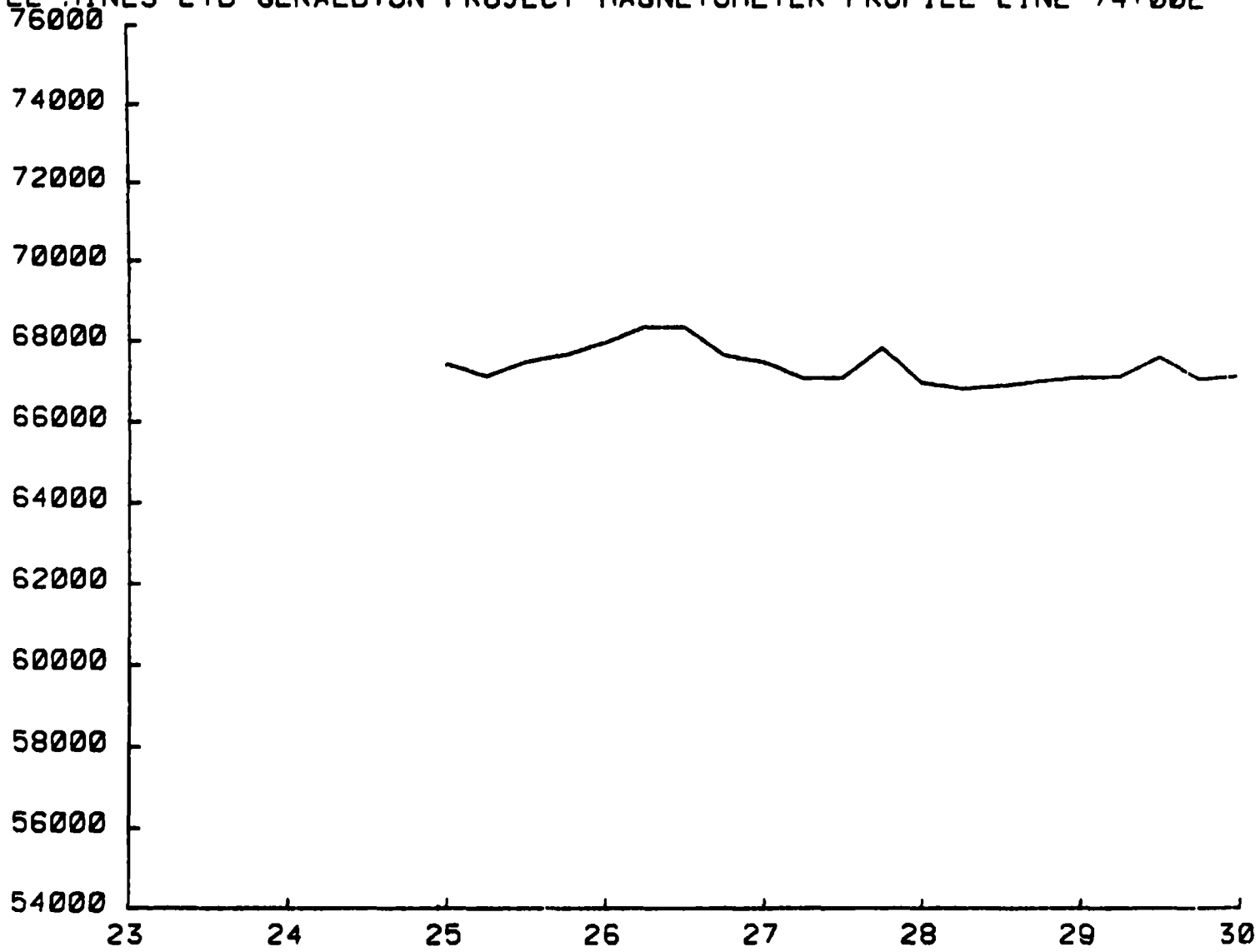
Profile Scale 1" = 10%

Map Scale 1" = 100 feet

APPENDIX II

DETAILLED MAGNETOMETER (EXPLORANIUM G-816)
SURVEY PROFILES IN VICINITY OF DIAMOND DRILL HOLE 82-4

TOMBILL MINES LTD GERALDTON PROJECT MAGNETOMETER PROFILE LINE 74+00E



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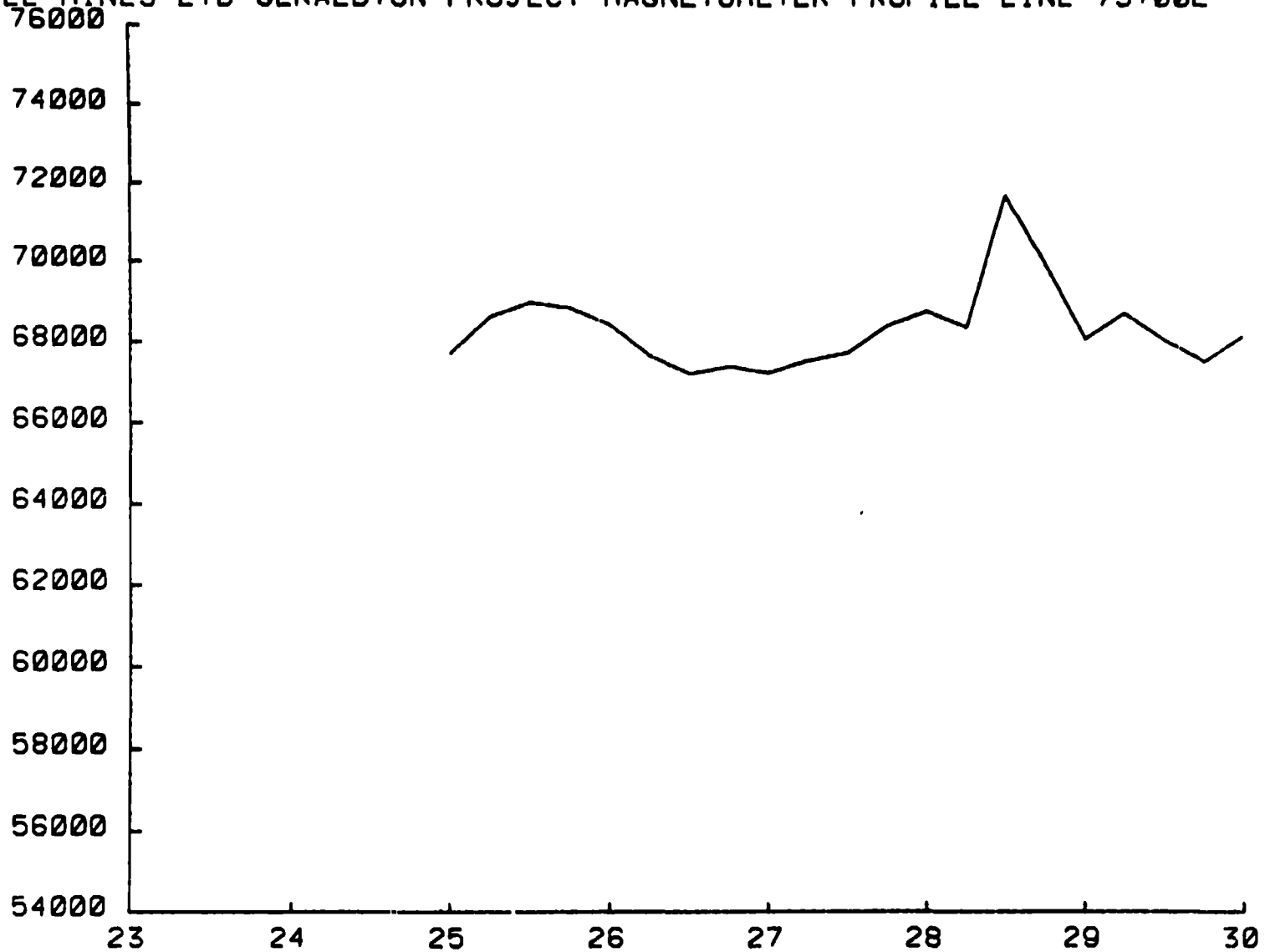

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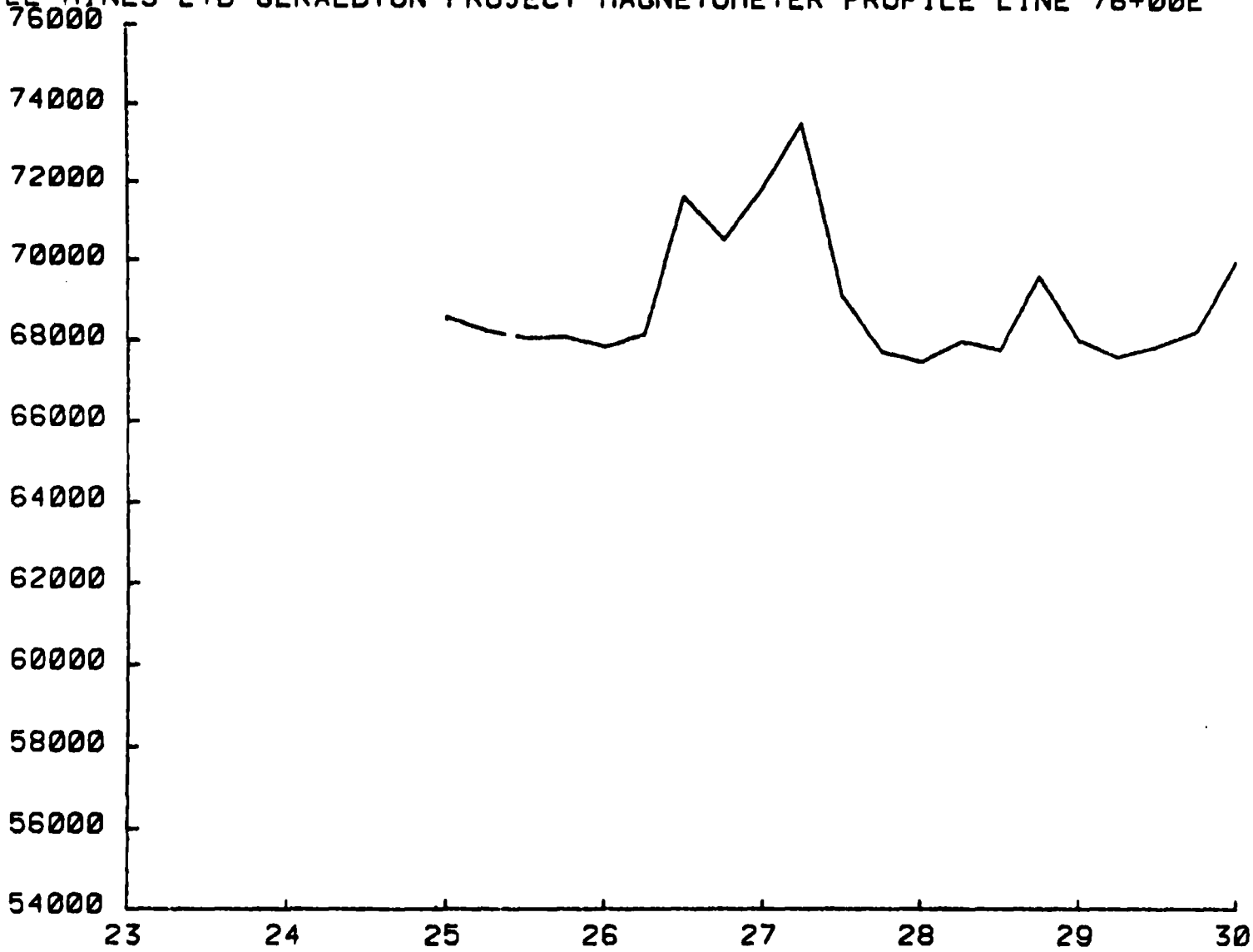

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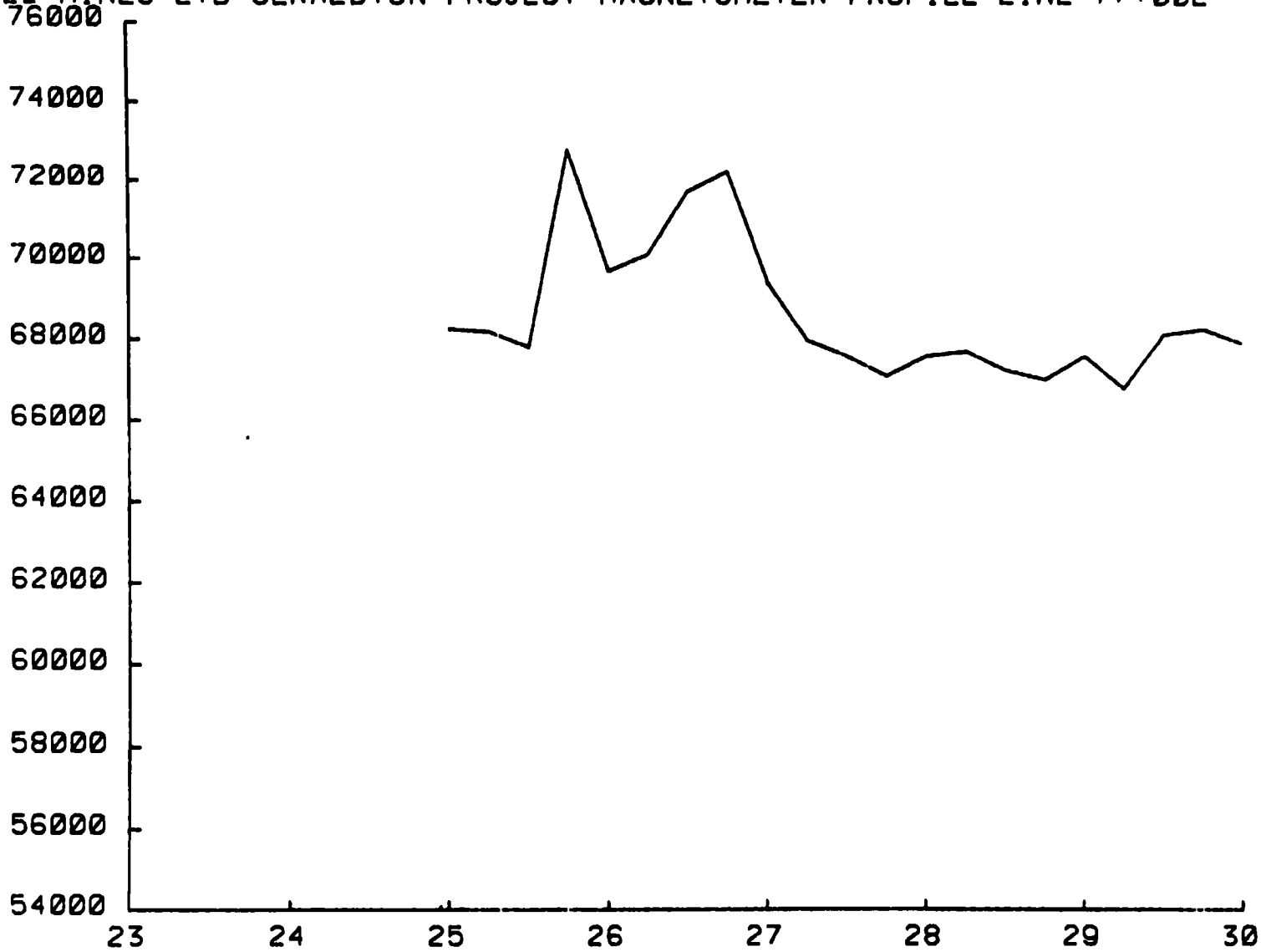

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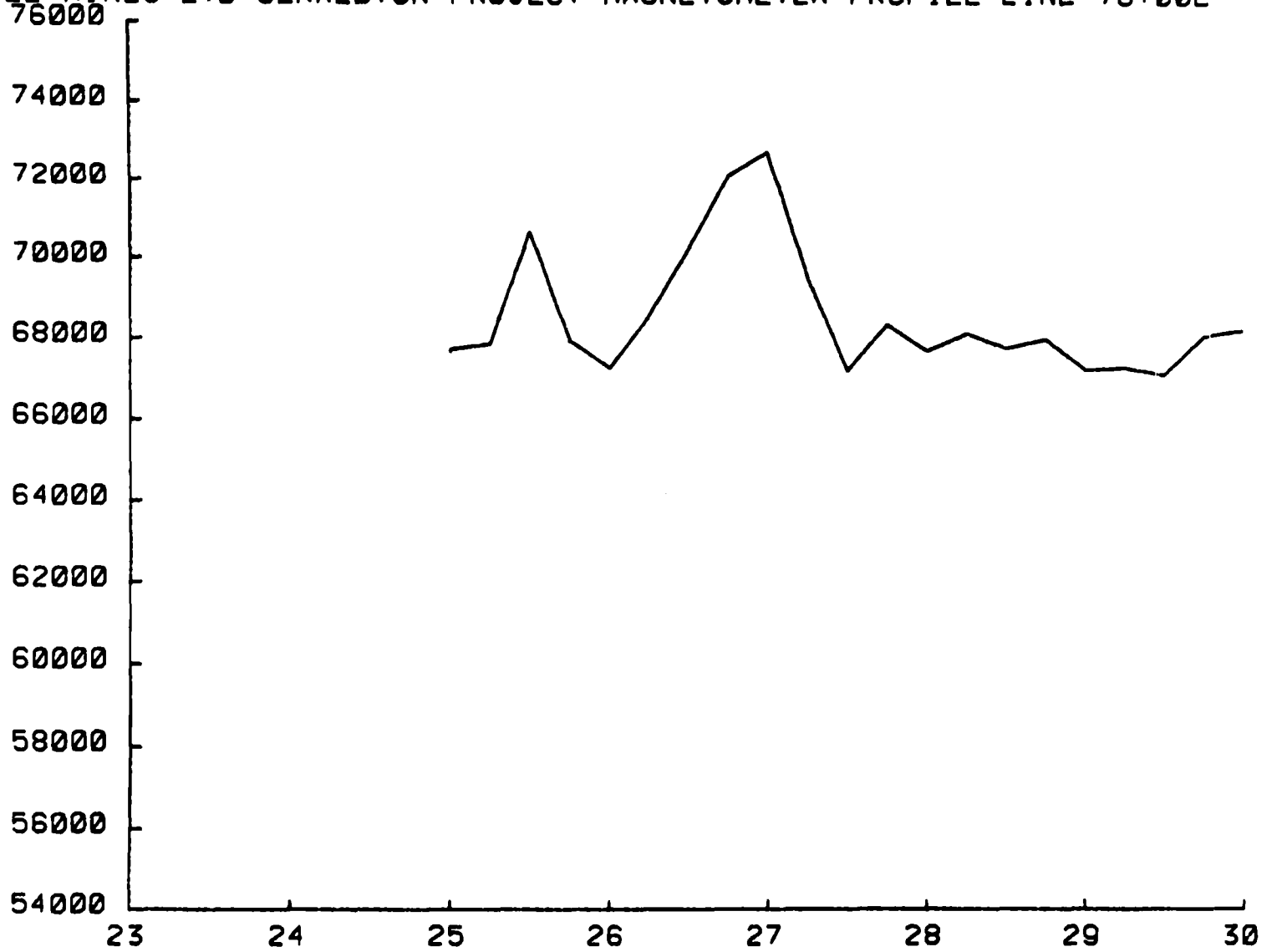

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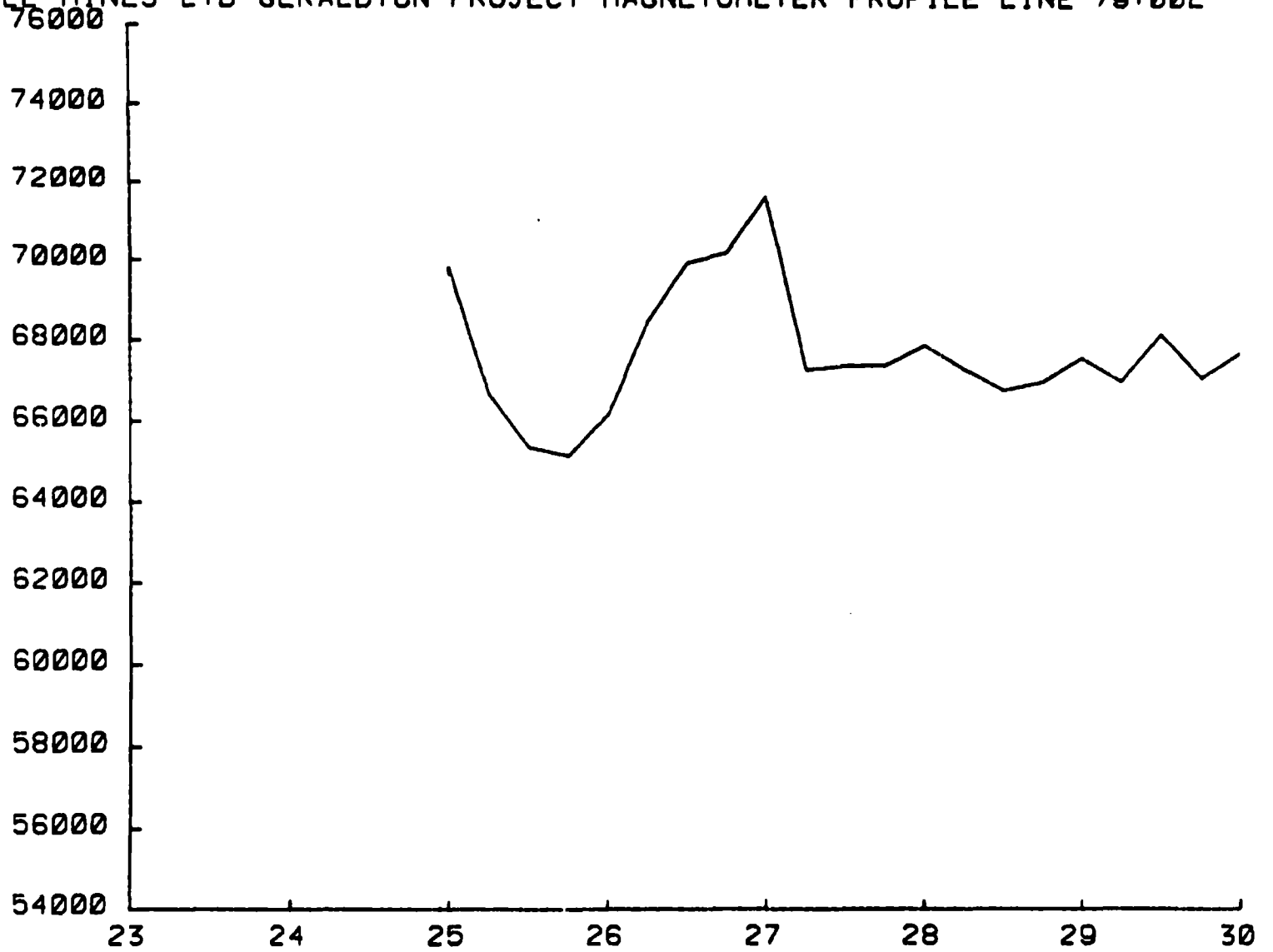

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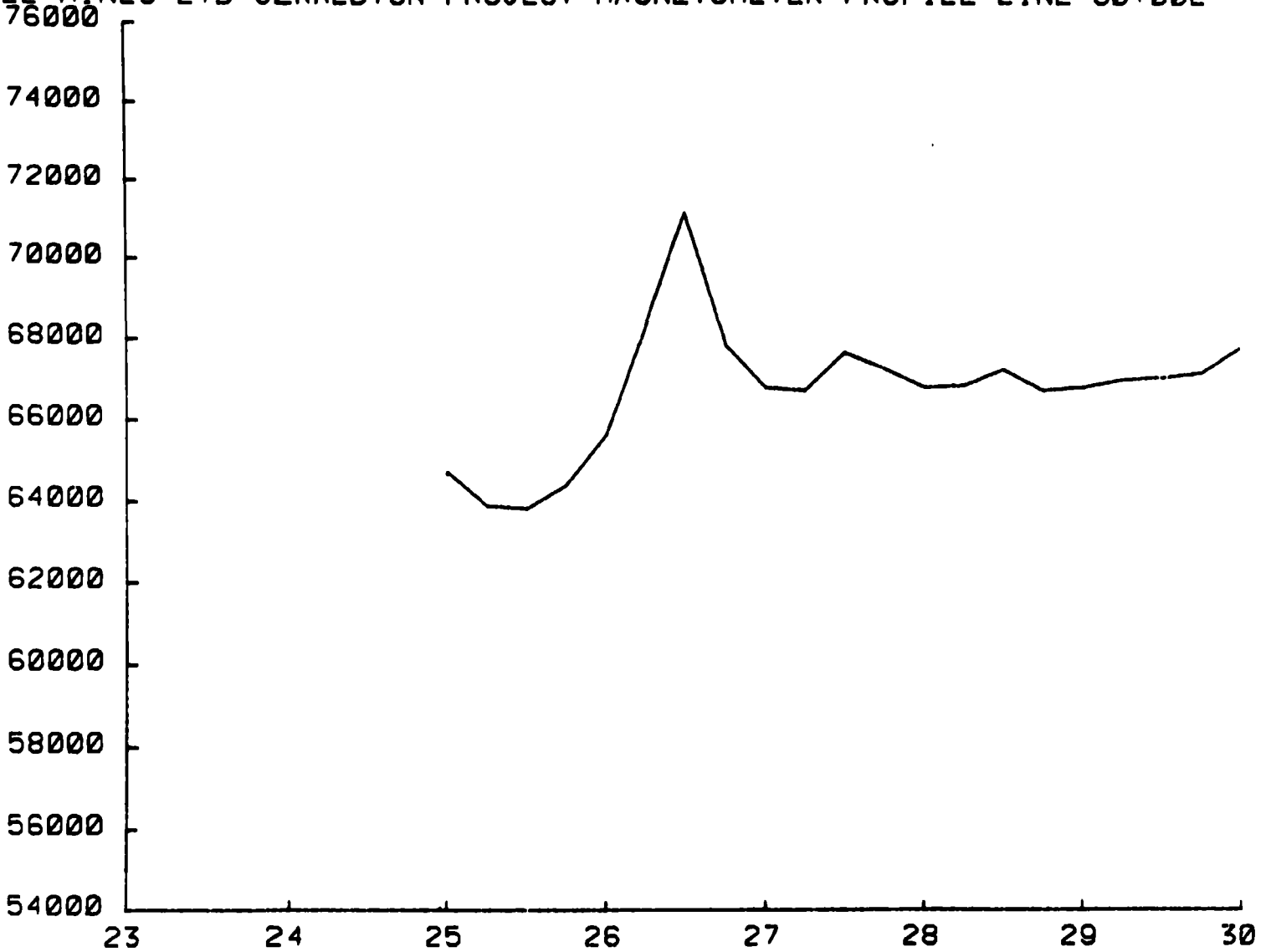

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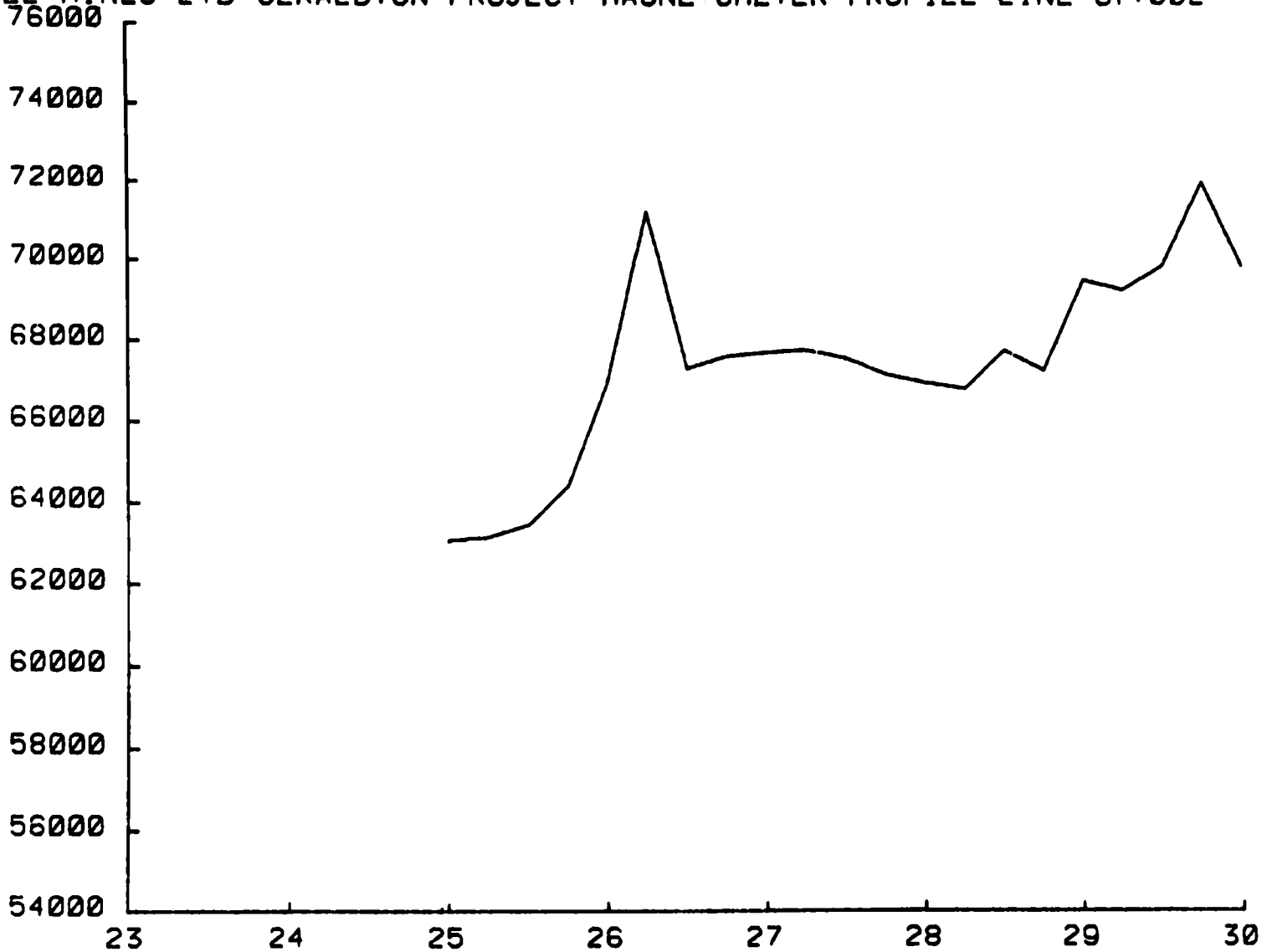

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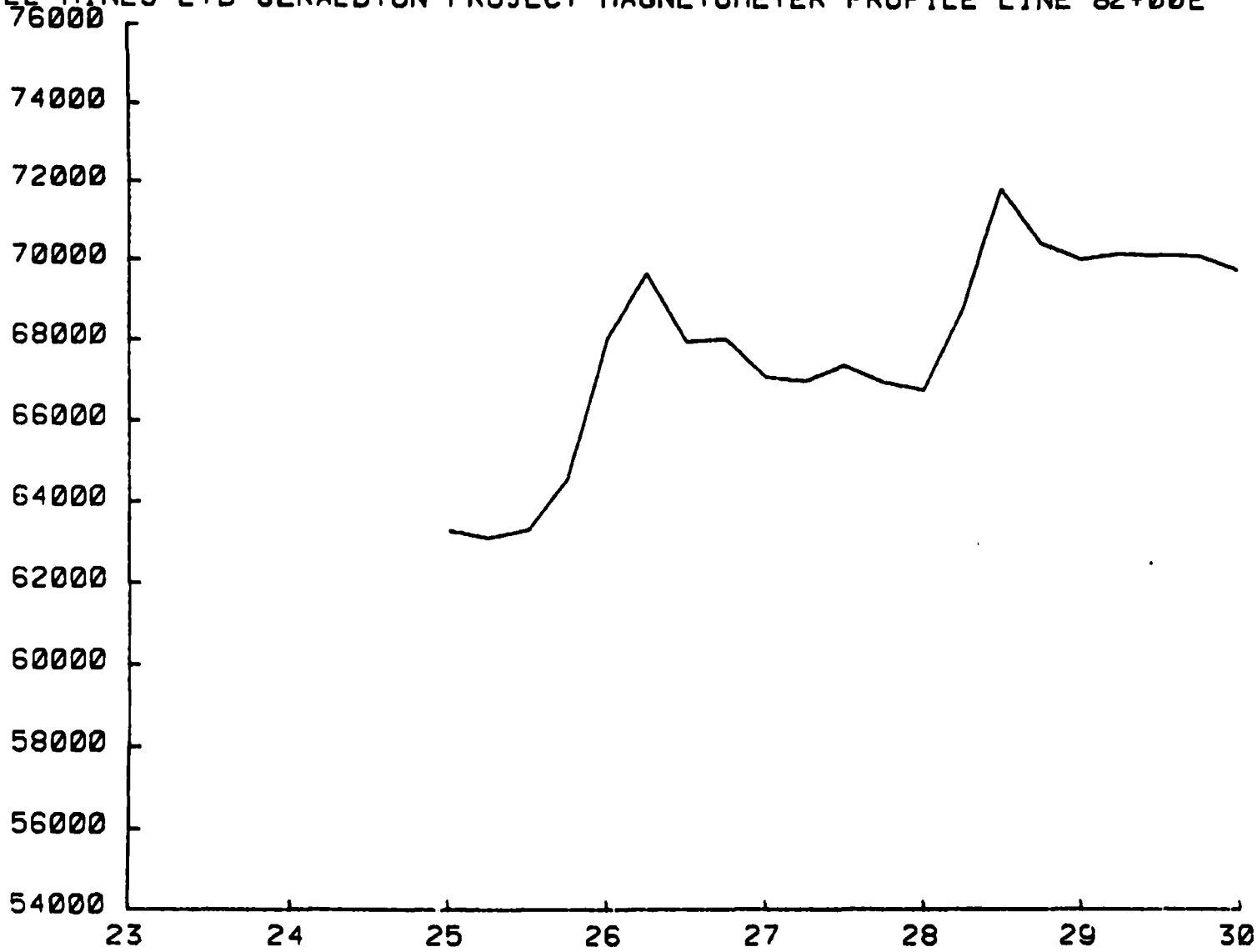

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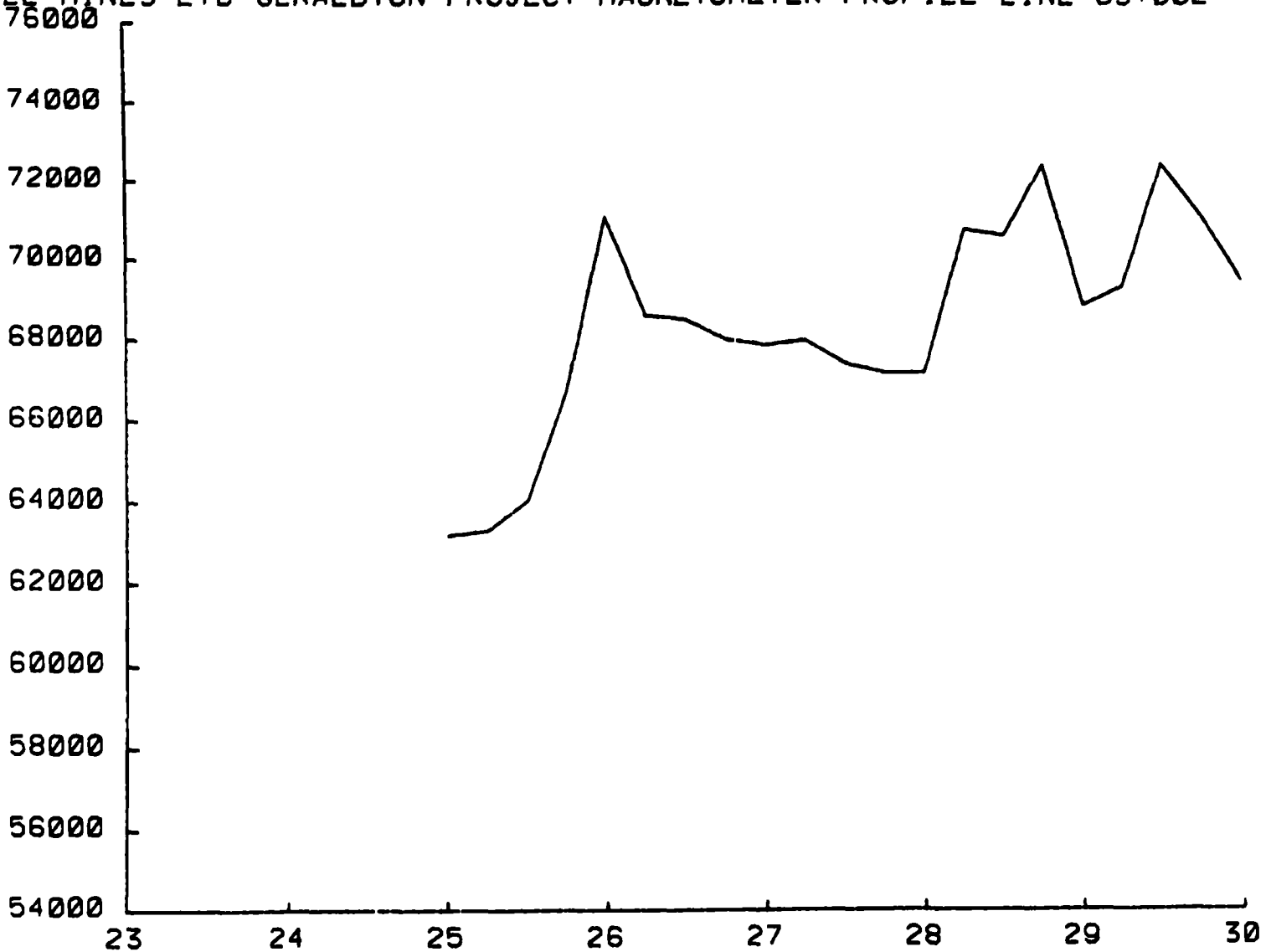

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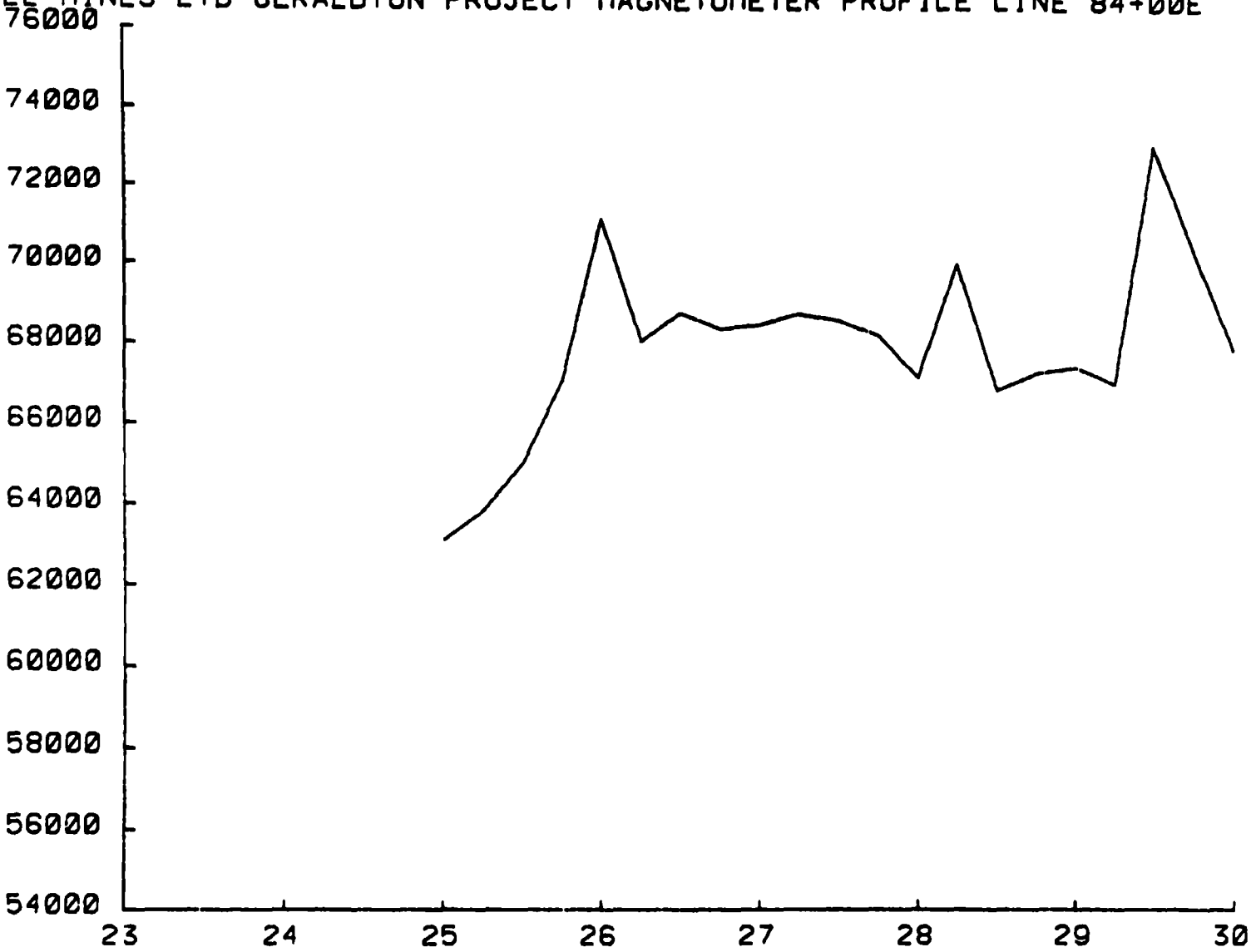

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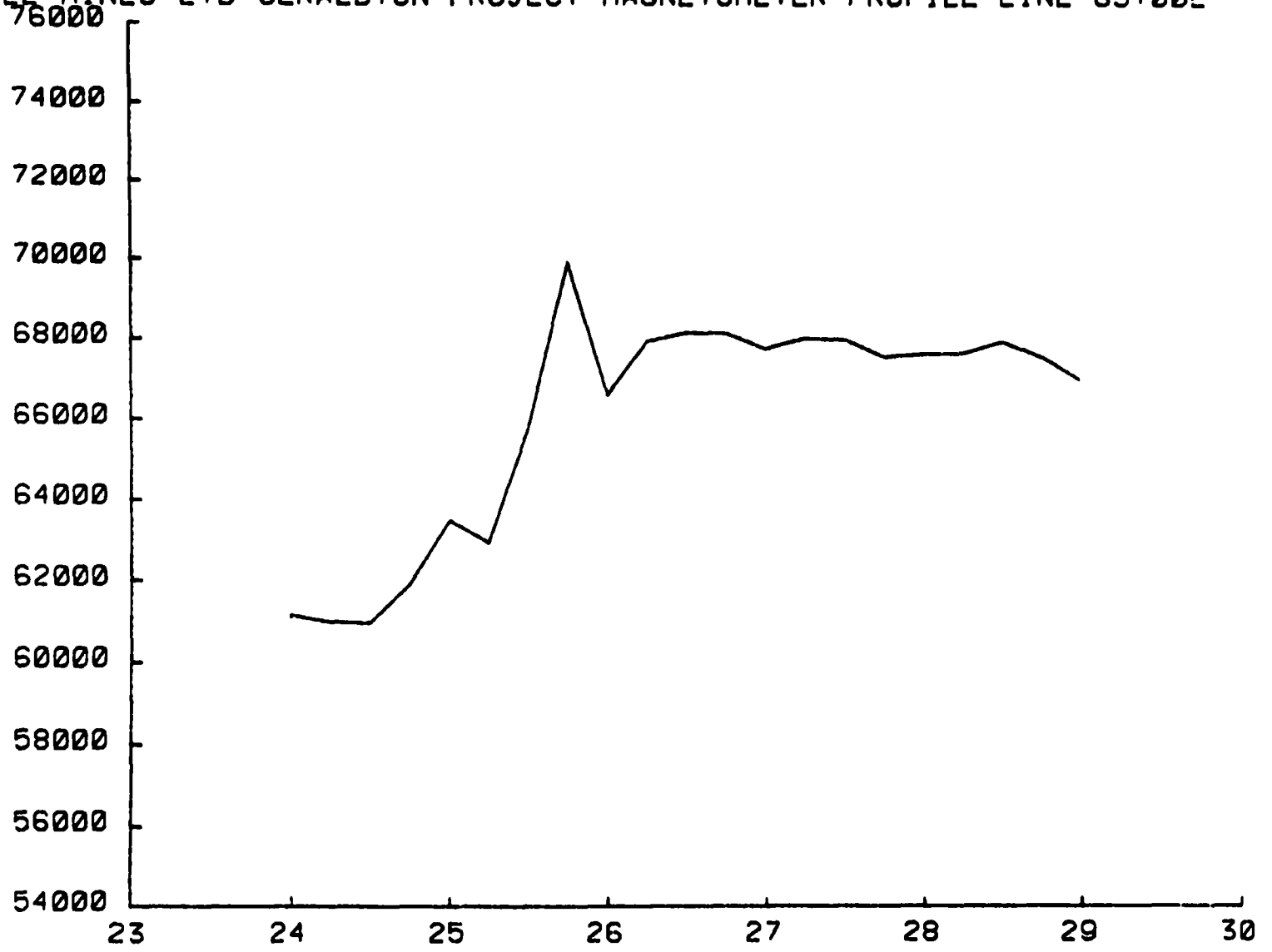

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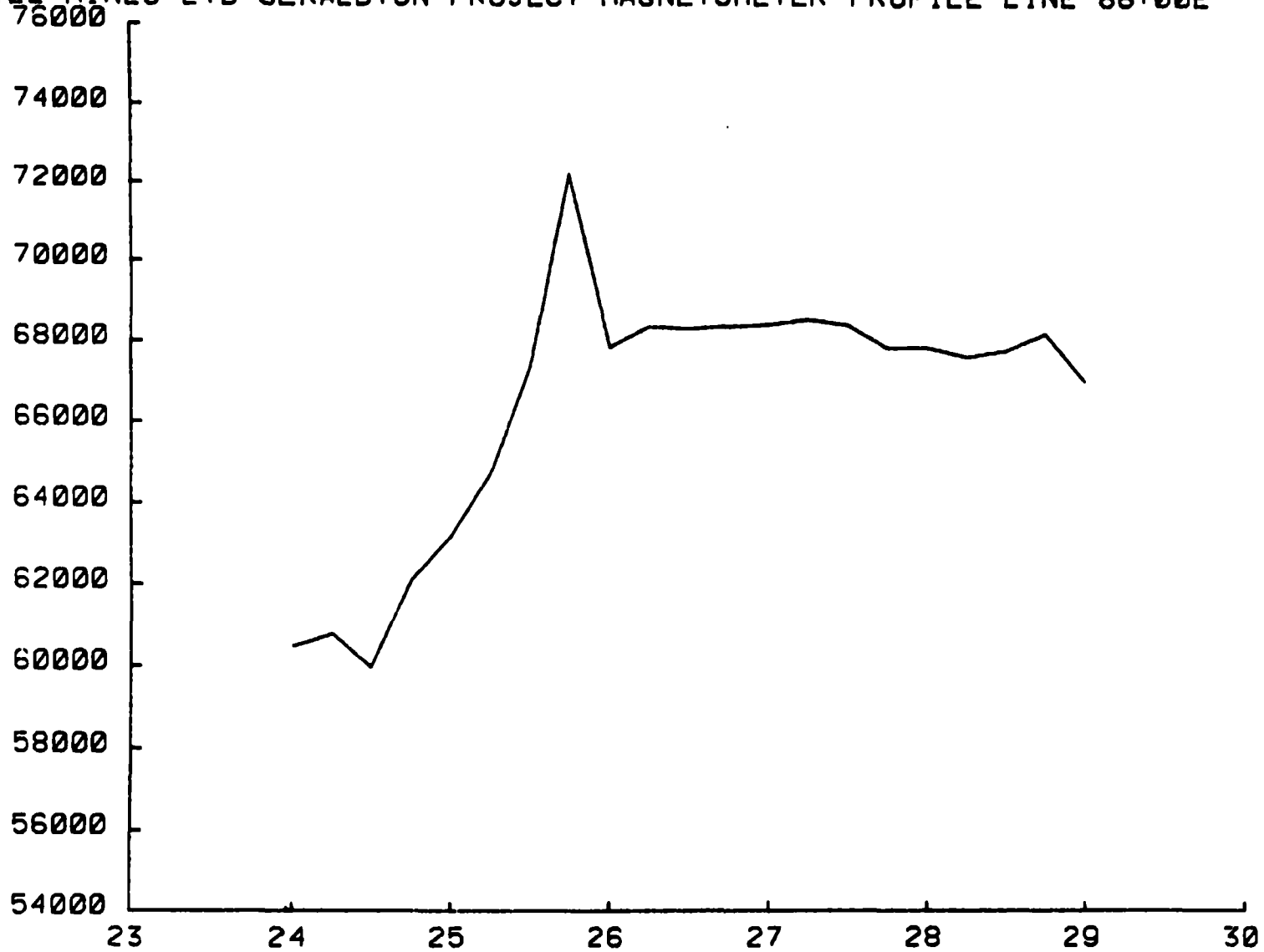

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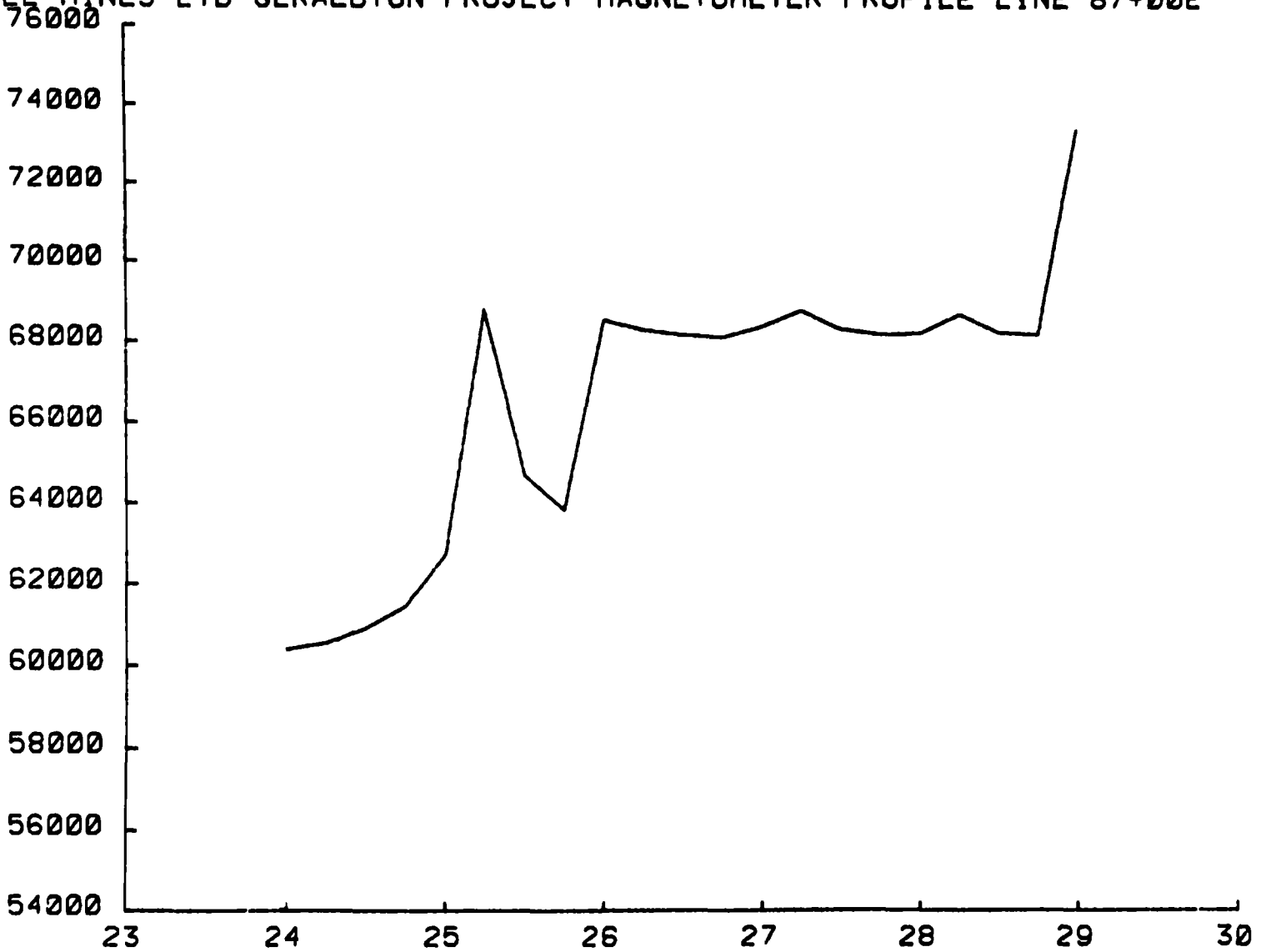

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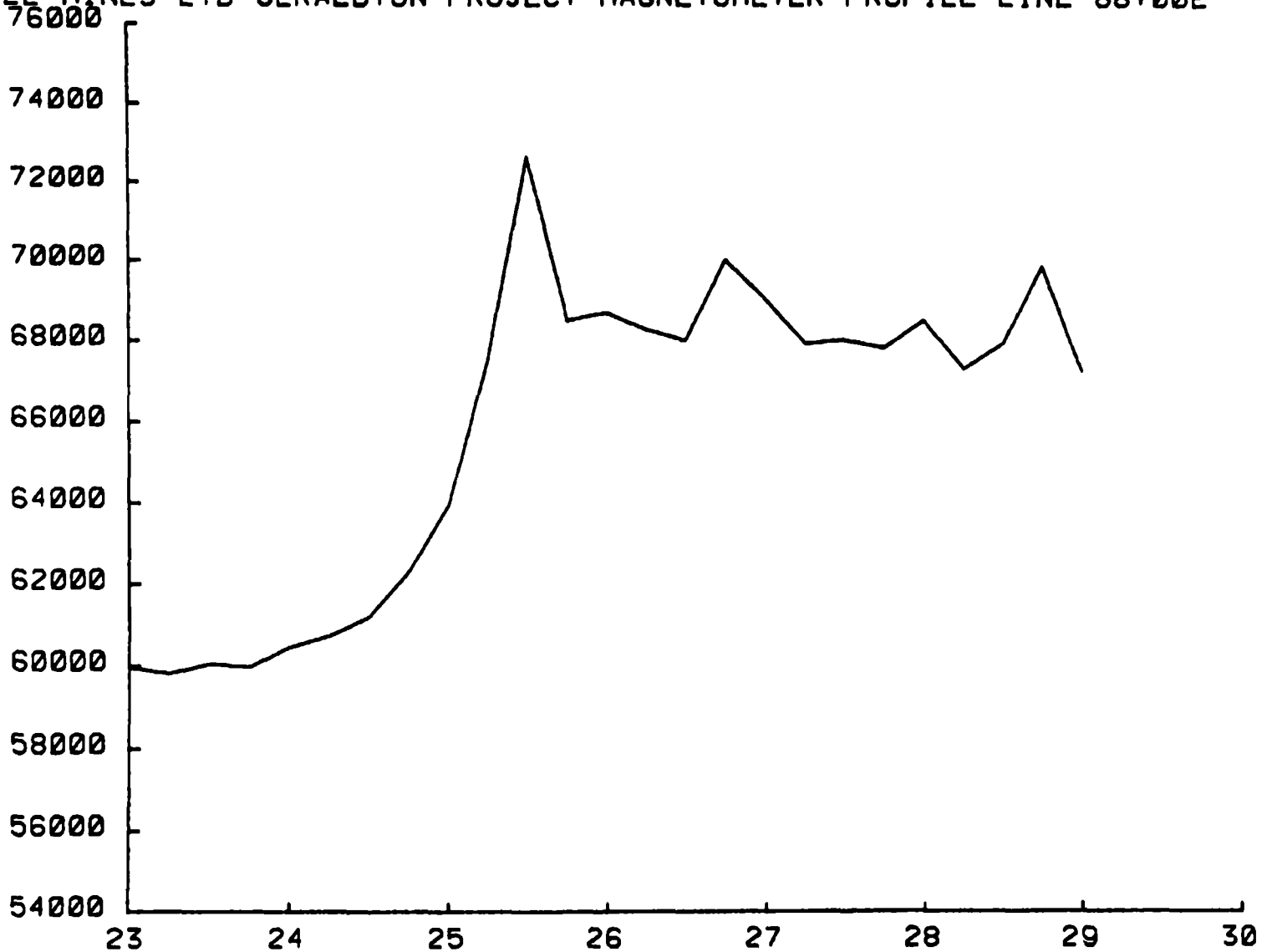

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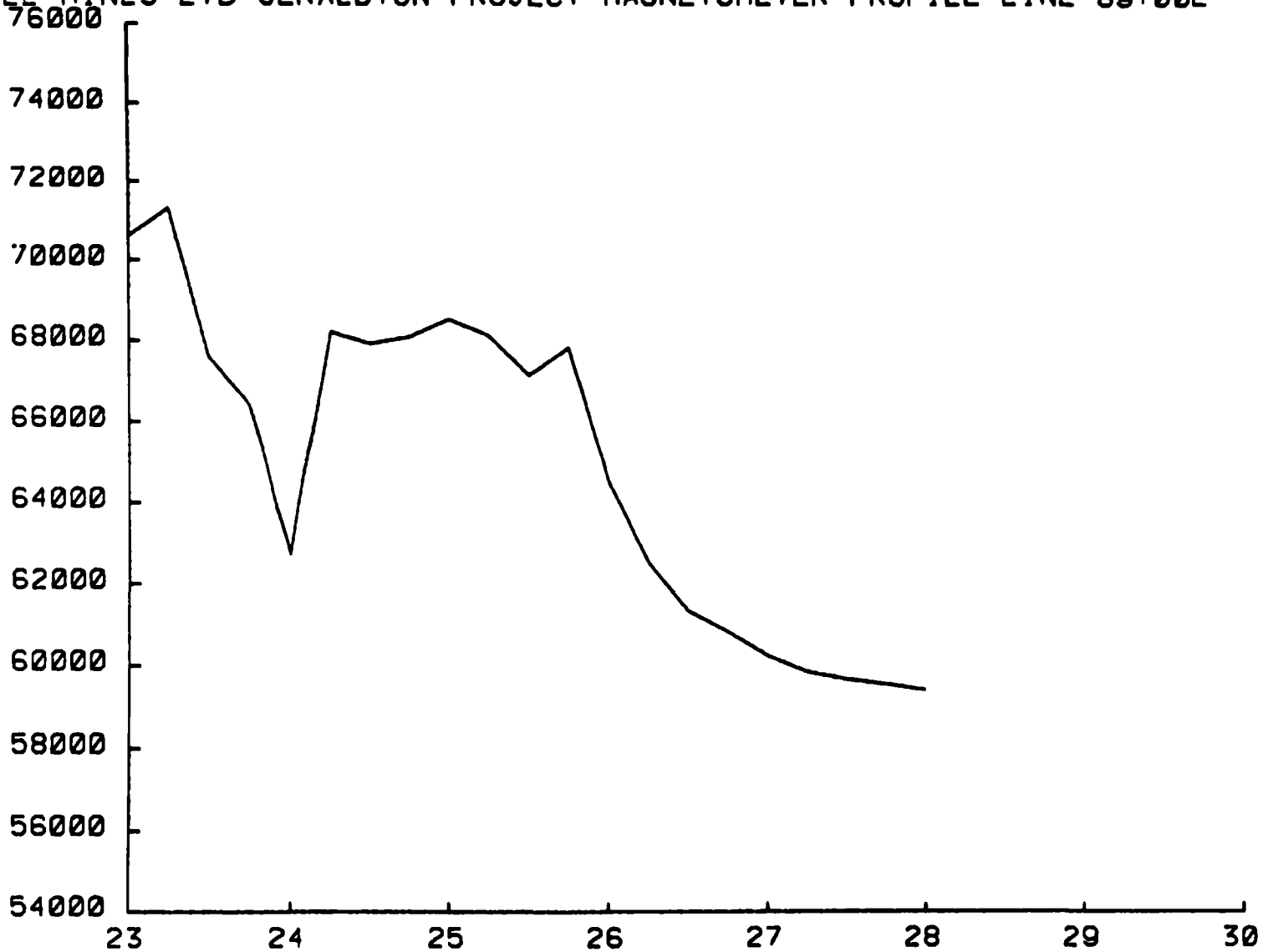

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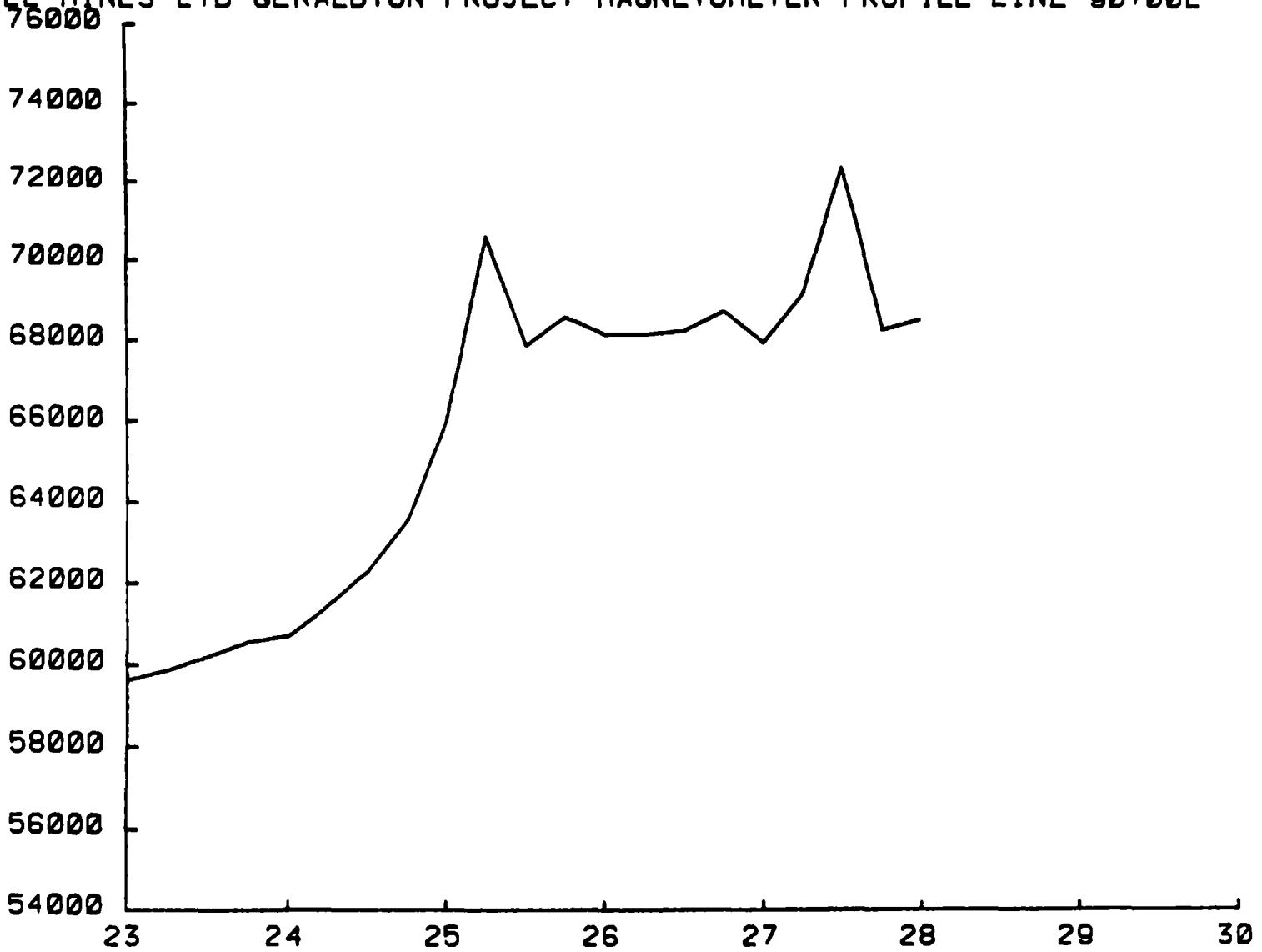

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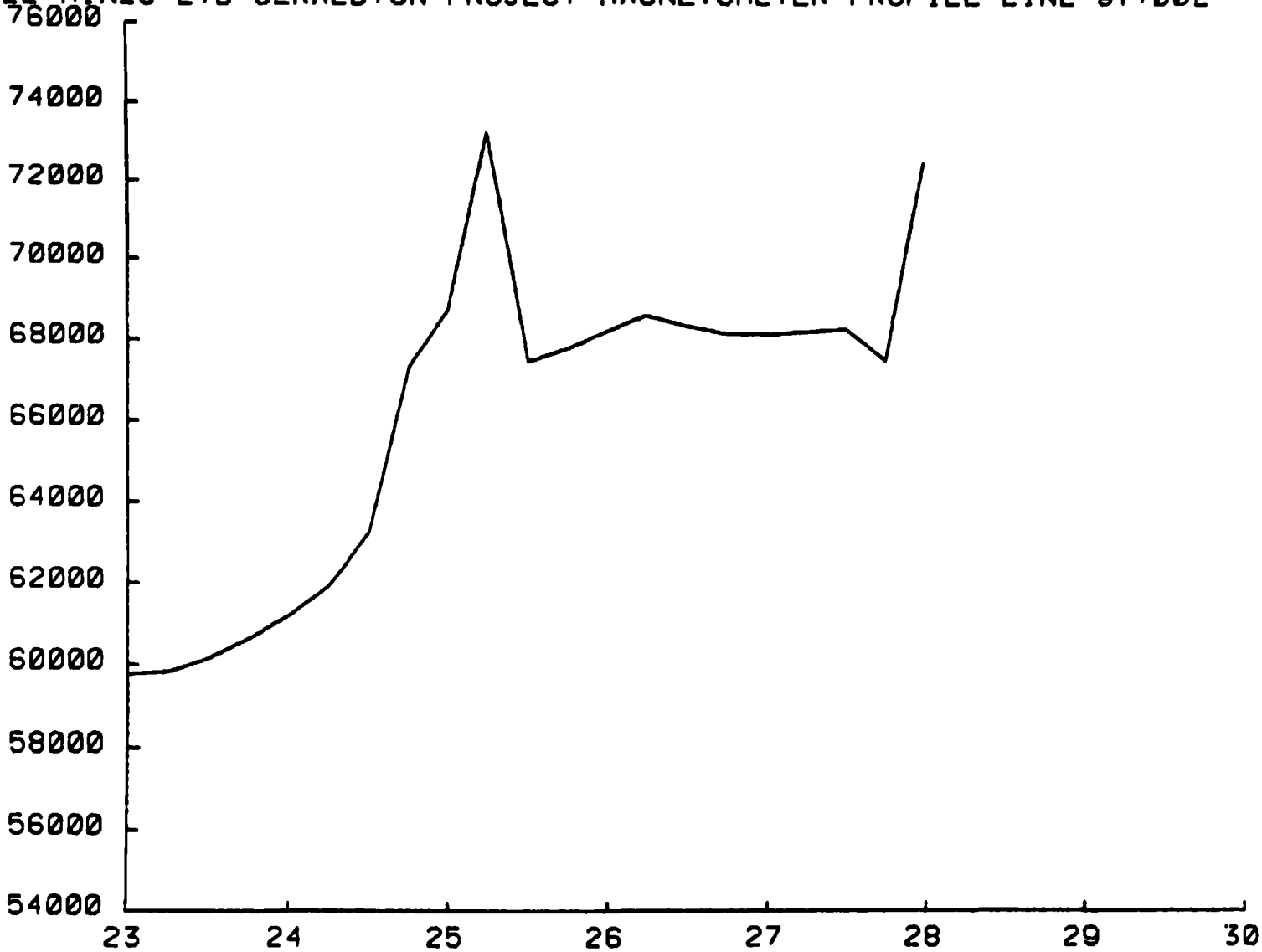

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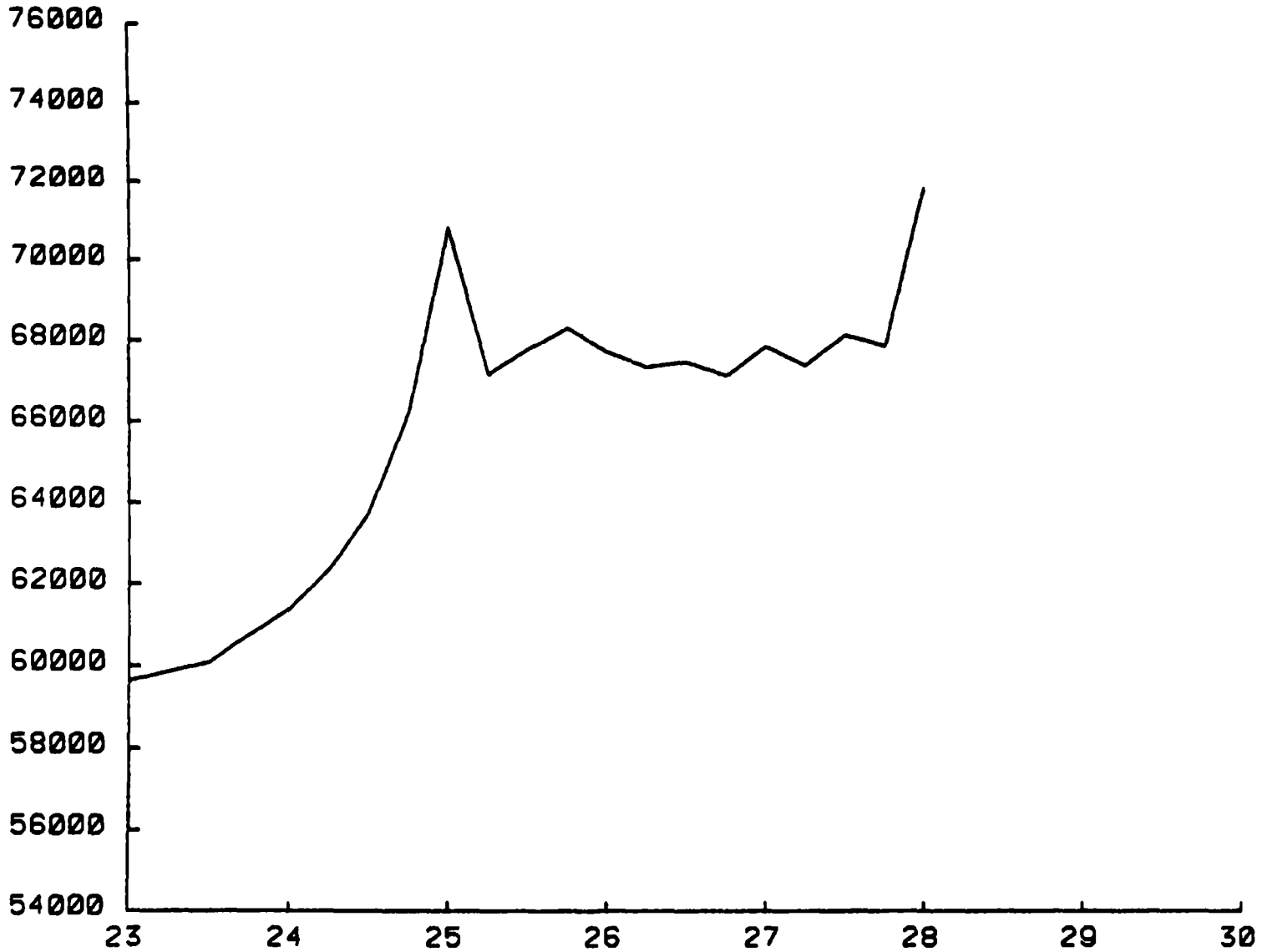

CORRECTED G-816 MAGNETOMETER READINGS

STATION TO	92E	91E	90E	89E	88E
23+00N	59661	59784	59638	70592	59973
23+25N	59873	59843	59864	71311	59839
23+50N	60093	60167	60200	67587	60062
23+75N	60775	60653	60542	66384	59992
24+00N	61385	61213	60721	62754	60470
24+25N	62358	61939	61478	68187	60759
24+50N	63764	63265	62289	67921	61217
24+75N	66222	67321	63521	68077	62319
25+00N	70838	68726	66010	68503	63952
25+25N	67167	73245	70577	68104	67547
25+50N	67791	67451	67875	67125	72629
25+75N	68309	67775	68569	67813	68486
26+00N	67741	68202	68138	64513	68676
26+25N	67358	68572	68145	62511	68273
26+50N	67472	68318	68233	61327	67998
26+75N	67138	68116	68725	60818	69996
27+00N	67863	68099	67949	60235	69012
27+25N	67396	68155	69144	59848	67929
27+50N	68157	68228	72371	59678	68002
27+75N	67907	67441	68259	59530	67813
28+00N	71906	72443	68512	59397	68464
28+25N					67278
28+50N					67897
28+75N					69814
29+00N					67166

CORRECTED G-816 MAGNETOMETER READINGS

STATION	87E	86E	85E	84E	83E
24+00N	60401	60485	61153		
24+25N	60551	60791	61000		
24+50N	60927	59973	60975		
24+75N	61458	62110	61920		
25+00N	62733	63175	63473	63097	63185
25+25N	68774	64715	62937	63806	63288
25+50N	64672	67372	65795	65001	64031
25+75N	63836	72181	69891	67065	66758
26+00N	68507	67829	66586	71087	71067
26+25N	68266	68328	67912	68017	68576
26+50N	68142	68294	68129	68698	68489
26+75N	68087	68350	68108	68327	67995
27+00N	68345	68388	67730	68421	67852
27+25N	68745	68502	67973	68683	67968
27+50N	68276	68367	67944	68525	67388
27+75N	68146	67805	67511	68146	67160
28+00N	68176	67816	67571	67105	67160
28+25N	68635	67571	67581	69934	70729
28+50N	68190	67727	67875	66802	70555
28+75N	68140	68143	67491	67208	72351
29+00N	73373	66951	66925	67350	68811
29+25N				66946	69264
29+50N				72961	72376
29+75N				70227	71028
30+00N				67759	69394

CORRECTED G-816 MAGNETOMETER READINGS

STATION	82E	81E	80E	79E	78E
25+00N	63286	63066	64718	69815	67727
25+25N	63112	63141	63881	66669	67846
25+50N	63312	63442	63816	65350	70641
25+75N	64582	64413	64383	65144	67924
26+00N	68012	66998	65611	66162	67270
26+25N	69635	71209	68287	68444	68539
26+50N	67959	67293	71138	69918	70232
26+75N	68017	67589	67833	70173	72082
27+00N	67076	67675	66788	71590	72688
27+25N	66984	67749	66716	67270	69495
27+50N	67361	67540	67630	67357	67207
27+75N	66951	67145	67245	67362	68330
28+00N	66782	66936	66791	67864	67673
28+25N	68782	66797	66836	67280	68113
28+50N	71807	67730	67224	66772	67760
28+75N	70431	67238	66716	66966	67971
29+00N	70026	69461	66790	67546	67234
29+25N	70163	69227	66962	66978	67274
29+50N	70132	69825	67017	68129	67098
29+75N	70102	71948	67126	67065	68046
30+00N	69750	69793	67758	67677	68185

CORRECTED G-816 MAGNETOMETER READINGS

STATION	77E	76E	75E	74E
25+00N	68238	68588	67727	67404
25+25N	68176	68260	68599	67120
25+50N	67790	68078	68968	67469
25+75N	72781	68108	68830	67640
26+00N	69667	67872	68399	67953
26+25N	70088	68166	67643	68334
26+50N	71691	71641	67218	68335
26+75N	72206	70542	67377	67616
27+00N	69383	71887	67231	67457
27+25N	67959	73526	67523	67065
27+50N	67566	69141	67724	67069
27+75N	67087	67750	68375	67812
28+00N	67567	67498	68741	66950
28+25N	67690	68010	68353	66810
28+50N	67231	67805	71647	66874
28+75N	66998	69624	69934	66982
29+00N	67560	68032	68063	67079
29+25N	66780	67617	68686	67097
29+50N	68106	67884	68030	67568
29+75N	68236	68261	67516	67032
30+00N	67881	70036	68166	67089

APPENDIX 111

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-1 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION 0° DEPTH 507.0'

CLAIM TB 10857 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION S. SHORE KENOGAMISIS L. 3 + 50N BLO + 00

STARTED March 5/1982 FINISHED March 10, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY G. DOUGLAS

G. Douglas

FROM	TO	DESCRIPTION
0.0'	5.0'	Casing
5.0'	55.0'	Greywacke, fine grained, medium to dark grey in colour, well foliated, traces disseminated pyrite, quartz and quartz-carbonate stringers. 19.4 - 19.5 quartz stringer @ C.A. 45° 26.25 - 26.40 quartz vein, limonite at L.C. 49.25 - 50.0 Augen gneiss, quartz augen envelopped by biotite, foliation at 55° quartz carbonite stringers
55'	276.5	Greywacke becomes slightly chloritic - light greyish green in colour - pyrite more abundant. 55 - 62 limonite alteration along planes of schistosity 73.4 - 73.65 3" quartz vein hosting bands and lenses of chlorite, sheared, trace disseminated pyrite and pyrrhotite 82.0 - 87.0 6 quartz stringers and veins almost barren of sulphides - occasional specks pyrite 82.0 - 0.75" quartz stringer @ 60° 82.5 - 82.75 quartz vein @ 60° 83.1 - 0.75" quartz vein @ 60° 83.3 - 2.0" quartz vein @ 60° 83.75 - 0.5" quartz stringer @ 60° 86.25 - 86.5 quartz vein UC @ 30° LC @ 55° 94.0 quartz vein 1" 115 - 146 occasional quartz-orthoclase stringers, <2 mm @ 40° - 60° 118.9 1" quartz vein - a few specks pyrrhotite @ U.C. 143.9 - 144.4 drag folded quartz veins, silicified quartz veins range from 1mm to 1 cm and are folded 164 - 169 traces disseminated pyrite, slightly drag folded 165.6- 5 mm quartz stringer, irregular contacts 165 - 175 medium grey green in colour 187, 187.5, 188.2 - 5 mm quartz stringers parallel to foliation (@ 35°) 197.1 - 197.6 silicified, trace disseminated pyrite

FROM	TO	DESCRIPTION
		198.25 - 198.5 silicified, trace disseminated pyrite 215.9 quartz stringer (5 mm) 217.1 quartzstringer (5 mm), speck chalcopyrite 217.9, 219.9, 220.4 — 5 mm quartz stringers parallel to foliation (20^{o} - 30^{o}) 223.4 5 mm quartz stringers @ C.A. 80^{o} 253.5 - 258.8 10% quartz veins and stringers, drag folded >1% pyrite in chloritic lenses and bands along contacts, silicified 268 2" banded chlorite - quartz vein, disseminated pyrite associated with chlorite
276.5	296	Greywacke, medium-dark grey in colour, fine grained, well foliated 286.0 - 295.5 10% quartz stringers, parallel to foliation (CA 60^{o}) disseminated pyrite associated with chloritic sections
296.0	346.0	slightly chloritized greywacke 309.6 0.5" quartz stringer @ 35^{o}, traces disseminated pyrite at contacts. 345.4 - 345.65 coarse grained quartz vein
346.0	507.0	Iron formation interbedded with chloritized greywacke, fine grained; greywacke is medium greenish black in colour. Quartz stringers and veins Iron formation of variable colour - magnetite bearing sections black, hematite occurs as very dusky red purple bands or as specularite 346.1 - 356.0 medium iron formation, not conductive, slightly magnetic, well foliated with quartz stringers and bands of chloritic greywacke. Trace disseminated pyrite, occasional cubes pyrite to 1 mm. 356.0 - 362.25 several quartz stringers, ll foliation, very siliceous 363.0 - 364.5 Lean iron formation 374.0 - 376.5 ∿ 10% quartz stringers 376 1.5 - 2.0 mm pyrite quartz stringer ~ 50% pyrite 384 - 417.5 heavy iron formation - mostly magnetite (<10% hematite) occasional jasper pebbles, conductive section, quartz stringers parallel to foliation (65%). Short sections chloritic greywacke @ 398.75 - 399.75 400.6 - 401.6 403.25 - 404.3 406.8 - 408.4 413.1 - 414.6 384 - 389 quartz stringers ll foliation 386.0 2" drag folded quartz vein 417.5 - 433.75 short sections of magnetite to 5 mm in chloritic greywacke. 426.5 1.5" quartz vein, trace pyrite & arsenopyrite

FROM	TO	DESCRIPTION
		432.2 - 433.7 25% quartz vein in silicified greywacke 433.7 - 444.5 medium iron formation, mostly magnetite 446.3 - 447.3 Quartz-orthoclase-chlorite zone, drag folded 450.75 - 452.25 massive quartzite or sugary quartz vein 452.25 - 454.0 medium iron formation, magnetite and hematite in roughly equal proportions 458.8 - 485.5 lean to heavy iron formation, generally magnetite predominates 460.3 - 461.1 ~ 30% quartz veins and stringers in chloritized zone 478.7 1" quartz vein 480.6 - 481.5 numerous quartz-chlorite veins and stringers. 485.5 - 507.0 occasional sections iron formation in chloritic greywacke. Iron formation at 487.1 - 487.35 491.0 - 491.2 501.0 - 501.1 503.1 - 503.2 504.0 - 504.1 505.2 - 505.4
507.0		END OF HOLE

CORE ANGLES

20.01'	55°
55.0'	55°
75.0'	60°
100.0'	54°
125.0'	56°
147.0'	52°
160.0'	40°
175.0'	35°
193.0'	40°
240.0'	40°
261.0'	45°
316.0'	55°
342.0'	50°
352.0'	55°
370.0'	50°
380.0'	55°
415.0'	55°
440.0'	60°
483.0'	60°
500.0'	65°

Form No. 804-R1-82/0-1

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

HOLE No. 82 - 1 DATE BEGAN March 5, 1982 DATE COMPLETED Mar.10.1982

AREA GERALDTON PROJECT No. MAIN GP. DEPTH 507'

CLAIM TB10857 CO-ORD 84 + OOE HORIZONTAL LENGTH

GRID 3 + 50N BLO+00 DIRECTION North

SHEET No. CORE SIZE AQ ELEVATION ANGLE -45°

CORRECTED DIP TESTS

165' 38°
255' 37°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			Oz/Ton									
19.0 - 20.0	12647	1.0	<.005									
26.0 - 27.0	48	1.0	<.005									
24.0 - 26.0	49	2.0	<.005									
27.0 - 29.0	12650	2.0	<.005									
49.0 - 50.0	51	1.0	<.005									
55.0 - 58.0	52	3.0	<.005									
58.0 - 62.0	53	4.0	<.005									
73.0 - 74.0	54	1.0	<.005									
82.0 - 87.0	55	5.0	<.005									
93.5 - 94.5	56	1.0	<.005									
117.5 - 119.35	57	1.85	<.005									
143.6 - 144.6	58	1.0	<.005									
164.0 - 169.0	59	5.0	<.005									
197.0 - 198.5	12660	1.5	<.005									
186.75- 188.75	61	2.0	<.005									
215.5 - 220.5	62	5.0	<.005									
221.5 - 224.0	63	2.5	<.005									
253.0 - 256.0	64	3.0	.051									
256.0 - 259.0	65	3.0	.008									
267.5 - 269.0	66	2.5	.006									
284.0 - 289.0	67	5.0	<.005									
289.0 - 294.0	68	5.0	.005									
294.0 - 297.5	69	3.5	<.005									
356.0 - 361.0	12670	5.0	<.005									
361.0 - 362.7	71	1.7	<.005									
374.0 - 377.0	72	3.0	<.005									
384.0 - 389.0	73	5.0	<.005									
402.0 - 403.0	74	1.0	<.005									
414.5 - 416.5	12675	2.0	<.005									
418.0 - 420.0	12676	2.0	<.005									
420.0 - 423.0	77	3.0	<.005									
423.0 - 427.0	78	4.0	<.005									

Form No. 804-R1-2500-11 78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82 - 1 DATE BEGAN ..... DATE COMPLETED .....

AREA GERALDTON PROJECT No. MAIN DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID .... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN		AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			Oz/Ton										
427.0 - 432.0	12679	5.0	<.005										
432.0 - 434.0	12680	2.0	<.005										
434.0 - 439.0	81	5.0	<.005										
442.25- 443.25	82	1.0	<.005										
443.25- 446.0	83	2.75	<.005										
446.0 - 447.5	84	1.5	<.005										
447.5 - 449.0	85	1.5	<.005										
449.0 - 452.25	86	3.25	<.005										
452.25- 453.5	87	1.25	<.005										
453.5 - 456.0	88	2.5	<.005										
460.0 - 461.25	89	1.25	<.005										
470.0 - 473.0	12690	3.0	<.005										
478.0 - 483.0	91	5.0	<.005										

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-2 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION 0° DEPTH 409.0'

CLAIM TB 10610 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS 17 + 37 N BLO + 00

STARTED Feb.19/1982 FINISHED Feb.21/1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY D. BOUCHER

M Dwyer for D. Boucher

FROM	TO	DESCRIPTION
0	11	Overburden
11	46.7	Gwke graded bedding from fine gr. to clay size, med. gray to medium dark grey, bedding cycle 1' to 2' trace deseminated pyrite occasional qtz. carb. @ 60° @ 34.5' 2" qtz. carb. vein UC (Upper contact) 45° LC (Lower contact) 60° @ 31' cleav. 63° From 31' to 32' ground core @ 32.5' 1½" qtz. carb. V. tr. pyrite UC & LC 45°
46.7	117	Fine Grain Facies of Above (Gwke) @ 40'6" qtz. V. From 46'6" to 47'6" chlorite schist with 5 qtz. carb. V. tr. pyrite From 51'4" to 52'4" same as above @ 57'10" 3" qtz. carb. V. @ 59' cleav. 75° From 60'7" to 61'6" chlorite schist small qtz. Carb. V. 1" to 3" trace pyrite @ 103' cleavage 58° From 62'3" to 63'5" chlorite schist 1" qtz. carb.V. tr. pyrite From 65'9" to 66'5" chlorite schist 1" qtz. carb. V. From 68'1" to 70'0" chlorite schist 2 - 1" qtz. carb. V. trace pyrite. From 71'5" to 75'5" chlorite schist total 12" qtz. - carb. V. 3V app. 3" minor magnetite. From 78'0" to 79'8" chlorite schist 2 ½" qtz. carb. V. From 81'0 to 86'0 chlorite schist with 3" qtz. carb. V. and small (.2") qtz. carb. V. with minor pyrite. From 86'8" to 90'0 ground core From 100'0 to 113'7" chlorite schist with a total of 24" qtz. carb. V. from 3" to ½" thick tr. pyrite (V. @ 45°).
117	145	Lean Iron Formation Interbedded Magnetite Rich gwke (1" to 12" thick) magnetic & conductive dark gray to black bands with light grey fine to V.F. grained gwke. Abundant small ¼" and minor 1" leococratic carb. Rich bands with minor sulphides < 20% magnetite rich bands, FeO @ 144' 1-2" + 2 - ½" qtz. carb. V.

FROM	TO	DESCRIPTION
145	155	Medium Iron Formation 1" to 2'0 sections of grey medium grained gwke and black magnetite rich gwke with minor purple grey jasper up to 40% magnetite very magnetic and conductive.
155	173	Lean Iron Formation @ 156' cleavage @ 71° @ 165' 3-½" qtz. carb. V.
173	183	Medium Iron Formation @ 173' 1-6" qtz. carb. V.
183	232	Lean Iron Formation @ 200' 1-1½" qtz. carb. V. @ 205' 1-1½" qtz. carb. V. @ 198' cleavage 57° From 189' to 195' massive gwke no mag. From 209' to 217' massive gwke with flaser texture no mag. @ 217' cleavage 62° From 223' to 224'6" 5-½" to 1" qtz. carb. V. tr. pyrite @ 226'6" 1'1½ qtz. carb. V. @ 227'6" 1-1½ qtz. carb. V. trace pyrite @ 230' 1-3" qtz. carb. V.
232	276	Heavy Iron Formation Magnetite rich band with purple red jasper Very magnetic and very conductive app. 60% to 80% mag. Z & S and ptygmatic folds found throughout I.F. Minor pyrite in some sections From 252' to 253'6" qtz. carb. vein. @ 232' cleavage 67° @ 263' 1-1" qtz. V. From 274' to 275'6" chlorite schist heavily sheared with qtz. carb. V. & minor pyrite @ 275'6" 1-3" qtz. carb. vein @ 262' cleavage 59°
276	285	Lean Iron Formation Heavily sheared and abundant small < 1" qtz. carb. V. tr. pyrite
285	366	Heavy Iron Formation @ 346'6" 1-1" qtz. carb. V. @ 317' cleavage 44° @ 336' cleavage 74° @ 316'6" 1-3" qtz. carb. V. @ 319' 1-3" qtz. carb. V. @ 364' 1-1" qtz. carb. V.

FROM	TO	DESCRIPTION
366	398	Medium Iron Formation @ 369'6" 1-1½" qtz. carb. V. minor pyrite @ 370' cleavage 81° @ 377' 1-3" qtz. carb. V. @ 378' 1-3" qtz. carb. V. @ 379' 2-1" qtz. carb. V. From 390'6" to 391'6" 4-1" to 1½" qtz. carb. V. From 392' to 393' 2-2" qtz. carb. V. minor pyrite.
398	409	Heavy Iron Formation @ 407' cleavage 81° @ 406' 1-2" qtz. carb. V. @ 407' 1-1" qtz. carb. V.
409		END OF HOLE

Form No. 804-R1-2500-11-[illegible]GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

409' - 32°

HOLE No. 82-2 DATE BEGAN Feb.19,1982 DATE COMPLETED Feb. 21,1982

AREA GERALDTON PROJECT No. DEPTH 409.0'

CLAIM TB 10610 CO-ORD 84 + 00E HORIZONTAL LENGTH

GRID MAIN 17+37N BLO+00 DIRECTION O

SHEET No. CORE SIZE AQ ELEVATION ANGLE -45°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
11.0 - 16.0	12501	5.0	<.005									
16.0 - 21.0	02	5.0	<.005									
21.0 - 26.0	03	5.0	<.005									
26.0 - 31.0	04	5.0	<.005									
32.0 - 36.0	05	4.0	<.005									31 - 32 1' ground
36.0 - 41.0	06	5.0	<.005									
41.0 - 46.0	07	5.0	<.005									
46.0 - 51.0	08	5.0	<.005									
51.0 - 56.0	09	5.0	<.005									
56.0 - 61.0	12510	5.0	<.005									
61.0-63.0+68.0-												
71.0	11	5.0	<.005									
63.0 - 68.0	12	5.0	<.005									
71.0 - 76.0	13	5.0	<.005									
76.0 - 81.0	14	5.0	<.005									
81.0 - 86.0	15	5.0	<.005									
90.0 - 95.0	16	5.0	<.005									86.0 - 90.0 4' ground
95.0 - 100.0	17	5.0	<.005									
100.0 - 105.0	18	5.0	<.005									
105.0 - 110.0	19	5.0	<.005									
110.0 - 115.0	12520	5.0	<.005									
115.0 - 120.0	21	5.0	<.005									
120.0 - 125.0	22	5.0	<.005									
125.0 - 130.0	23	5.0	<.005									
130.0 - 135.0	24	5.0	<.005									
135.0 - 140.0	25	5.0	<.005									
140.0 - 145.0	26	5.0	<.005									
145.0 - 150.0	27	5.0	<.005									
150.0 - 155.0	28	5.0	<.005									
155.0 - 160.0	29	5.0	<.005									
160.0 - 165.0	12530	5.0	<.005									
165.0 - 170.0	31	5.0	<.005									

Form No. 804-R1-2500-11 (P

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-2 DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID ..... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
170.0 - 175.0	12532	5.0	<.005									
175.0 - 180.0	33	5.0	<.005									
180.0 - 185.0	34	5.0	<.005									
185.0 - 190.0	35	5.0	<.005									
190.0 - 195.0	36	5.0	<.005									
195.0 - 200.0	37	5.0	<.005									
200.0 - 205.0	38	5.0	<.005									
205.0 - 210.0	39	5.0	<.005									
210.0 - 215.0	12540	5.0	<.005									
215.0 - 220.0	41	5.0	<.005									
220.0 - 225.0	42	5.0	<.005									
225.0 - 230.0	43	5.0	<.005									
230.0 - 235.0	44	5.0	<.005									
235.0 - 240.0	45	5.0	<.005									
240.0 - 245.0	46	5.0	<.005									
245.0 - 250.0	47	5.0	<.005									
250.0 - 255.0	48	5.0	<.005									
255.0 - 260.0	49	5.0	<.005									
260.0 - 265.0	12550	5.0	<.005									
265.0 - 270.0	51	5.0	<.005									
270.0 - 275.0	52	5.0	<.005									
275.0 - 280.0	53	5.0	<.005									
280.0 - 285.0	54	5.0	<.005									
285.0 - 290.0	55	5.0	<.005									
290.0 - 295.0	56	5.0	<.005									
295.0 - 300.0	57	5.0	<.005									
300.0 - 305.0	58	5.0	<.005									
305.0 - 310.0	59	5.0	<.005									
310.0 - 315.0	12560	5.0	<.005									
315.0 - 320.0	61	5.0	<.005									
320.0 - 325.0	62	5.0	<.005									
325.0 - 330.0	63	5.0	<.005									

Form No. 804-R1-2500-1

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-2 DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID ..... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
330.0 - 335.0	12564	5.0	<.005									
335.0 - 340.0	65	5.0	<.005									
340.0 - 345.0	66	5.0	<.005									
345.0 - 350.0	67	5.0	.007									
350.0 - 355.0	68	5.0	<.005									
355.0 - 360.0	69	5.0	<.005									
360.0 - 365.0	12570	5.0	<.005									
365.0 - 370.0	71	5.0	<.005									
370.0 - 375.0	72	5.0	<.005									
375.0 - 380.0	73	5.0	<.005									
380.0 - 385.0	74	5.0	<.005									
385.0 - 390.0	75	5.0	<.005									
390.0 - 395.0	76	5.0	<.005									
395.0 - 400.0	77	5.0	<.005									
400.0 - 405.0	78	5.0	<.005									
405.0 - 409.0	79	4.0	<.005									

IRON ANALYSES FROM DIAMOND DRILL HOLE 82-2

Composite	Sample #1	12521 - 12543	From 117 feet to 232 feet
		95 feet lean and 20 feet medium iron formation.	
Composite	Sample #2	12544 - 12570	From 232 feet to 366 feet
		9 feet lean and 125 feet heavy iron formation.	
Composite	Sample #3	12571 - 12577	From 366 feet to 398 feet
		32 feet medium iron formation.	
Composite	Sample #4	12578 - 12579	From 398 feet to 409 feet
		11 Feet heavy iron formation	

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
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TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M5K 1B8

Attn: Greg Douglas

REPORT No. T 10429

Inv.#19852

SAMPLE(S) OF: CORE

MAJOR OXIDES IN %

Samples	SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	Na_2O	K_2O	TiO_2	MnO	P_2O_5	BaO	LOI	Tota
1	55.57	13.96	16.06	2.43	2.88	1.96	0.33	0.53	0.08	0.09	0.07	4.46	98.4
2	46.61	6.88	37.68	2.07	1.82	0.43	0.85	0.24	0.06	0.13	0.06	4.07	100.9
3	50.02	10.66	24.64	2.99	2.79	1.24	0.12	0.42	0.08	0.08	0.05	5.63	98.7
4	39.93	5.01	45.08	2.89	1.82	0.32	0.36	0.20	0.06	0.09	0.07	3.95	99.7

Note: Sample #1 - 12521-12543 T9004-21 to 25 T8997-1 to 18
Sample #2 - 12544-12570 T8997-20 to 38 T9004-26 to 32
Sample #3 - 12571-12577 T9004-33 to 39
Sample #4 - 12578-12579 T9004-40 to 41

amples, Pulps and Rejects discarded after two months

DATE June 29th, 1982 SIGNED Paul E Burger

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M5K 1B8 Attn: Greg Douglas

REPORT No. T 10429

Inv.#19852

SAMPLE(S) OF: CORE

Samples	Ferrous Iron %	Sulphur (S) %
12521-12543 T 9004-21 to 25 T8997-1 to 18	4.56	0.16
12544-12570 T8997-20 to 38 T9004-26 to 32	5.76	0.08
12571-12577 T9004-33 to 39	6.62	0.09
12578-12579 T9004-40 & 41	6.64	0.07

amples, Pulps and Rejects discarded after two months

DATE June 29th, 1982 SIGNED Robert Burger

CTA

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82 - 3 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION 0° DEPTH 406.0'

CLAIM TB 1638 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS 20 + 00N BLO + 00

STARTED Feb. 22/1982 FINISHED Feb. 25/1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY D. BOUCHER

Mdaughs for D. Boucher

FROM	TO	DESCRIPTION
0	51'	Overburden
51'	111'	Heavy Iron Formation
		@ 53' 1-1" qtz. carb. V. @ 54' 1-1" qtz. carb. V. From 60' to 61' 2-1"qtz. carb. V. @ 66' 75.0° cleavage @ 68' 2-1/2" qtz. carb. V. @ 76' tan brown quartzite speckled with mag. some light grey gravelly units. From 83' to 85' chlorite schist with 1-5" qtz. carb. Some specular hematite and abundant small, <½" qtz. carb. stgs. @ 92' 1-½' qtz. carb. V. @ 96' 66.5° cleavage @ 98' 1-6" qtz. carb. V. with chlorite @ 99'4 UC (4") fine grain chlorite schist with deseminated chalcopyrite @ 100' 1-7" quartz V. with Fe and Tr of pyrite. @ 105' LC (4') heavy iron with Tr pyrite @ 110' 1" qtz. vein with Tr. pyrite
111'	151'	Medium Iron Formation
		@ 118' 61.5° cleavage @ 118' 8"-1-6" qtz. V. with Tr pyrite and few blebs of pyrite (3) in with V. chlorite schist. @ 123'8" .75" - 1" qtz. V. with minor pyrite grains. @ 129' 1-1½" Heavy Fe band with (2 major) V. qtz. which contain Tr. pyrite within the V. @ 131' LC (2") heavy Fe band with thin V. quartz containing Tr. pyrite within the V. few pyrite crystals as specks are evident. @ 132'8" quartz carb. V. with Tr. pyrite and 1" possible calcite vein containing few small pyrite crystals perfectly shaped. @ 135'5" 1-1.75" qtz. carb. V. with Tr. pyrite. @ 138' 67° cleavage. @ 144'9" qtz. carb. V. with Tr. pyrite and ½" heavy Fe band.

FROM	TO	DESCRIPTION
151'	158'	Heavy Iron Formation 151'8" to 156'9" heavy iron banded with some carb and quartz (Red to purplish color characters the core). 157'9" heavy to medium Fe bands with qtz. carb. V. containing abundant blebs and specs of pyrite @ 154' 69° cleavage @ 158' thin < 1/8" band of pyrite.
158'	183'	Lean to Medium Iron Formation @ 158' to 161'2" UC (9") qtz. carb. V. with abundant pyrite LC (1.0') qtz. carb. V. Tr. pyrite and banded Heavy Fe. 159'8" qtz. carb. V. minor pyrite. @ 166'0 to 171'0 qtz. carb. V. with Tr. pyrite and 5-3" (appr.) bands heavy iron containing Tr. pyrite. From 174' to 179' 6 - ½" qtz. carb. V. abundant < 1/8" V.
183'	231'	Heavy Iron Formation @ 184' 71.5° cleavage @ 190' 1-3" qtz. carb. V. @ 193' 2-2" qtz. carb. V. with chlorite schist @ 196' 1/2" qtz. carb. V. @ 196'6" 1/2" qtz. carb. V. @ 193' same as above @ 205' 63° cleavage @ 214' 1-1" qtz. carb. V. @ 214'5" 2-1/2" qtz. carb. V. @ 220'7" 1-1" qtz. carb. V. @ 221' 79° cleavage
231'	275'	Medium Iron Formation @ 239'2" 1-1" qtz. carb. V. and chlorite schist @ 241'6" 1-2" qtz. carb. V. Tr. pyrite and chalcopyrite. @ 245'8" massive mag. Tr. pyrite @ 247' 3 < 1/8" pyrite band @ 249' 69° cleavage @ 250' small pyrite nodule From 251' to 253' 2-6" qtz. carb. V. @ 254' minor deseminated pyrite From 255' to 257' 2-3" qtz. carb. V. and massive mag. with minor pyrite. From 263' to 268' Tr. pyrite along bedding planes of massive mag. and 6 - 1/2" to 6" qtz. carb veins and chlorite schist Tr. arseno. From 269'6" to 271' 2-1/2" and 1-3" qtz. carb. V. @ 271' deseminated pyrite in 1/8" qtz. V.
275'	282'	Lean Iron Formation Thin bedded greenish grey medium-fine grained gwke. grading to argillite, minor magnetite sections

FROM	TO	DESCRIPTION
		@ 285' medium-coarse gr. gwke med. light grey striped. Streaked core with fine grain gwke units are cyclic.
		@ 275' 1-2" qtz. carb. V. in chlorite schist
		@ 277' 2-1/2" qtz. carb. V.
		@ 281' cleavage 71°
282'	322'	Medium-Dark Grey Gwke.
		@ 306' cleavage .70°
332'	396'	Massive Fine Grain Gwke with some sections with varved-like texture minor qtz. carb. stringers not mineralized.
396'	406'	Medium Grey Gwke with white streaks
		Lower section - lighter grey color with thin dark streaks.
		@ 356' cleavage 68°
		@ 386' cleavage 76°
		@ 402' cleavage 68°
406'		END OF HOLE

Form No. 504-R1-2500-11 [illegible] GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-3 DATE BEGAN Feb.22/1982 DATE COMPLETED Feb.25/1982

AREA GERALDTON PROJECT No. DEPTH 406.0'

CLAIM TB 1638 CO-ORD 84 + 00E HORIZONTAL LENGTH

GRID MAIN 20 + 00 N BLO + 00 DIRECTION 0°

SHEET No. CORE SIZE AQ ELEVATION ANGLE - 45°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
51'10"- 54.0	12580	2'2"	<.005									
59'10"-61'8.5	81	1'10½"	<.005									
67'6"- 68'11"	82	1'5"	<.005									
82'9"- 85'1"	83	2'4"	<.005									
90'5½"- 91'9"	84	1'3½"	<.005									
98'3"-101'6½"	85	3'3½"	.011									
109'10"-111'0	86	1'2"	<.005									
115'9"-116'3"	87	6"	<.005									
119.0'-120'3"	88	1'3"	.033									
123'10"-126'10	89	3.0	<.005									
127'9"-131'4"	12590	3'7"	<.005									
132.0'-132'8"	91	8"	<.005									
133.5 -138.5	12755	5.0	<.005									
144.0 - 144'9"	12592	9"	<.005									
151.5 -154.0	12710	2.5	<.005									
154.0 -157.75	12711	3.75	<.005									
157'9"-161'2"	12593	3'5"	.005									
166.0 -171.0	12594	5.0	<.005									
175.0 -176'6"	12595	1'6"	<.005									
180.0 -181'9"	12596	1'9"	<.005									
183.0 -189.0	12712	6.0	<.005									
189.0 -190.0	12597	1.0	<.005									
190.0 -196.0	12713	5.5	<.005									- excluding 192'10" - 193'4"
192'10"-193'4"	12598	6"	<.005									
196' -196'8"	12599	8"	<.005									
196'8"-202.0	12714	5'4"	<.005									
202.0-207.0	12715	5.0	<.005									
207.0 -212.0	12716	5.0	<.005									
212.0 -213'8"	12717	1'8"	<.005									
213'8"-214'3"	12600	7"	<.005									
214.25-220.0	12718	5.75	<.005									
220.0-221.0	12601	1.0	<.005									

Form No. 804-R1-25M-11-[illegible] GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-3 DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID ..... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
221.0 -226.0	12719	5.0	<.005									
226.0 - 228.5	12720	2.5	<.005									
228.5 -233.75	12721	5.25	<.005									
239.0 -240.0	12602	1.0	<.005									
241.0 -242.0	12603	1.0	<.005									
245.0 -245'8"	12604	8"	<.005									
251.0 -253.0	12605	2.0	<.005									
255.0 -257.0	12606	2.0	<.005									
263.0 -268.0	12607	5.0	<.005									
269'6"-271.0	12608	1'6"	<.005									
275.0 -276.0	12609	1.0	<.005									
277.0 -278.0	12610	1.0	<.005									
312'6"-313.0'	12611	6"	<.005									
325'0-327'4"	12612	2'4"	<.005									
329.0 -331.0	12613	2.0'	<.005									
332.0 -332'8"	12614	8"	<.005									

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-4 PROJECT NAME GERALDTON MAP NO

ANGLE -45° DIRECTION 0° DEPTH 365.0'

CLAIM TB 1638 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS 25 + 50N BLO + 00

STARTED Feb. 28, 1982 FINISHED March 2, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY D. BOUCHER

FROM	TO	DESCRIPTION
0	13'	Overburden
13'	36'	Medium to fine grain greenish grey massive gwke, trace pyrite From 14'4" to 15'4" minor pyrite in gwke and chlorite From 19' to 20' trace pyrite, qtz. V. ¼" thick parallel to core 24' cleavage 43° From 32' to 33' trace pyrite in gwke and chlorite
36'	64'	Medium grained, medium to light grey gwke with white streaks, massive beds speckled with coarse magnetite crystals (weakly magnetic). From 57' to 58' 1-3" qtz. V. plus many small< 1/8" qtz. stringers, minor small bands of fine grain pyrite – conductive from 59'8 to 61'8" massive white qtz. (barren) at or near upper contact @ 43' cleavage 50°.
64'	72'	Very Lean Iron Formation Very fine grain gwke with purplish grey magnetic sections from 67' to 69' and from 70' to 72' abundant qtz V. at all angles with chloritic sections. From 65' to 66' 1-6" qtz. V. trace pyrite at or near contact. @ 70' cleavage 69°. From 67' to 68' purplish grey magnetic sections with coarse magnetite crystals and deseminated pyrite.
72'	101'	Medium grain gwke with graded bedding From 72' to 78' abundant qtz V. at all angles 60% qtz. carb with chloritic sections, tr. pyrite. From 95' to 97' bands of coarse magnetite crystals, deseminated pyrite parallel to core. @ 97' cleavage 32°.
101'	126'	Medium iron formation 6" - 3" bands of purplish grey magnetite rich gwke, some cross-bedding from iron formation interbedded with fine grain Gwke, tr. pyrite along some bedding planes minor very small < 1/8" qtz. V. @ 130' cleavage 48°.

FROM	TO	DESCRIPTION
126'	137'	Lean Iron Formation Fine to very fine grain gwke with 1" to 12" bands of magnetite rich gwke-some magnetite rich bands were folded and were subjected to brittle deformation e.g. @ 144' From 133' to 134' 1-1" qtz. V. and magnetite band with ¼" pyrite band and deseminated pyrite very conductive. From 135'8" to 136'8" 3 purplish grey magnetite bands with disseminated pyrite. From 137' to 144' massive fine grain gwke @ 144' 1-1/8" pyrite band. From 144' to 148' 4 magnetite rich bands. From 148' to 157' fine grain gwke with small (approx.) 1" magnetite bands @ 150' cleavage 42°.
157'	190'	Medium Iron Formation 6" to 2' magnetite rich bands in medium to fine grain gwke tr. pyrite along some bedding planes. From 171' to 172' magnetite band with minor pyrite at top. @ 182' 3" pink medium grain qtz. speckled with coarse magnetite crystals;@ 163' cleavage 57°.
190'	249'	Heavy Iron Formation Massive purplish grey magnetite rich bands and purple red jasper,minor dark grey very fine grain gwke-very magnetic and conductive,intensely folded minor brittle deformation. From 228' 10" to 229' 6" 3-½"to ¼" qtz . stringers with 25% pyrite-@ 196' cleavage 53°, @ 212' cleavage 43° @ 248' minor pyrite stringers and qtz. V. with 60% pyrite Minor hematite along fractures
249'	289'	Medium Iron Formation 6" - 2' magnetite bands interbedded with fine grain gwke to medium grain gwke. @ 251'9" qtz V. with fragments of heavy iron formation in qtz. @ 254'3" qtz. V. tr. pyrite @ 262' 6" coarse grain gwke V. section flaser texture @ 265' 9" deformed qtz. V. parallel to core trace pyrite @ 267' 10" 1-½" qtz. carb. V. @ 278' 7" intensely folded vasper bands minor pyrite along bedding planes. @ 284' 2-½" qtz. V. (Barren) From 287' 10" to 289' minor deseminated pyrite and thin bands along bedding planes and small blebs.2" in diameter.
289'	307'	Interbed coarse grain gwke with larger light colored clasts flattened out. The more silicious sections are fine grained with small 2" of emerald green chlorite or serpentine clasts abundant small stringers < 2" total of (approx.) 25% qtz. Deseminated pyrite in some sections containing up to 1% sulphide.

FROM	TO	DESCRIPTION
307'	313'	Medium Iron Formation Thinly bedded < ½" bands of purple bed hematite and magnetite rich bands interbedded with medium grained gwke and very fine grey gwke to argillite beds with whitish grey silicious beds-top 18" contains deseminated pyrite 1-6" Section contains up to 5% sulphide.
317'	358'	Coarse grain gwke gravelly texture, large clasts are flattened, minor black magnetite bands top part contain 3-½" qtz. stringer < section interbedded medium grain gwke and medium iron formation. From 317' to 319'6" coarse grain greenish grey gwke 5 <½" qtz. stringers tr. pyrite. From 319' 6" to 322' 4" fine to medium grey gwke tr. of pyrite 6 < 1" qtz. stringer barren. From 322' 4" to 349' medium to coarse grain gwke light to medium grey tr. pyrite 8 ≤ ½" barren qtz. stringer. From 349' to 356' 3" light grey green coarse grain gwke green speckles are flattened and stretched. From 356' to 358' medium and coarse grain gwke, medium grey.
358'	365'	Dark green grey chloritic unit with white calcareous flaser bands, minor pyrite in one section in a few small bands.
365'		END OF HOLE

Form No. 804-R1-85/03-11-[illegible] GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

HOLE No. 82-4 DATE BEGAN Feb. 28/1982 DATE COMPLETED Mar.2/1982

AREA GERALDTON PROJECT No. DEPTH 365.0'

CLAIM TB 1638 CO-ORD 84+00E HORIZONTAL LENGTH

GRID MAIN 25+50N BLO+00 DIRECTION 0°

SHEET No. CORE SIZE AQ ELEVATION ANGLE - 45°

CORRECTED DIP TESTS

325' - 36°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
14'4"- 15'4"	12615	1.0	<.005									
19.0 - 20.0	12616	1.0	<.005									
32.0 - 33.0	12617	1.0	<.005									
54.0 - 57.0	12692	3.0	<.005									
57.0 - 58.0	12618	1.0	.119									
58.0 - 59'8"	12632	1'8"	.014									
59'8"- 61'8"	12619	2.0	<.005									
61'8"- 65.0	12693	3'4"	<.005									
65.0 - 66.0	12620	1.0	<.005									
67.0 - 68.0	12621	1.0	.005									
71.0 - 75.0	12622	4.0	<.005									
75.0 - 78.0	12623	3.0	<.005									
95.0 - 97.0	12624	2.0	<.005									
131.0 -133.0	12694	2.0	<.005									
133.0 -134.0	12625	1.0	.036									
134.0 -135'8"	12695	1'8"	<.005									
135'8"-136'6"	12626	10"	<.005									
171.0 -172.0	12627	1.0	<.005									
208.0 -211.0	12696	3.0	<.005									
228'10"-229'6"	12628	8"	.065									
245'6"-247'6"	12633	2.0	<.005									
247'6"-248'2"	12629	8"	<.005									
248'2"-248'5"	12630	3"	1.67									
248'5"-250'6"	12634	2'1"	<.005									
250.5'-253.0	12697	2.5	<.005									
265.5'-270.5	12698	5.0	<.005									
278.0'-278'6"	12631	6"	<.005									
283.0 -288.0	12635	5.0	<.005									
288.0 -289.0	12636	1.0	.015									
289.0 -294.0	12637	5.0	.018									
294.0 -299.0	12638	5.0	.011									
299.0 -304.0	12639	5.0	<.005									

Form No. 804-R1-2800-11 [illegible]GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

82-4

HOLE No. ..... DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID ..... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

CORRECTED DIP TESTS

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
04.0 -306'10"	12640	2'10"	.014									
06'10"-308'9"	12641	1'11"	.076									
08'9"-314.0	12642	5'3"	<.005									
14.0 -316'4"	12699	2'4"	<.005									
16'4"-316'8"	12643	4"	.005									
16'8"-321.0	12700	4'4"	<.005									
21.0 -326.0	12701	5.0	<.005									
26.0 -331.0	12702	5.0	<.005									
31.0 -336.0	12703	5.0	.005									
36.0 -341.0	12704	5.0	<.005									
41.0 -346.0	12705	5.0	<.005									
46.0 -350.5	12706	5.0	<.005									
50.5 -355.5	12644	5.0	.008									
55.5 -356.25	12645	0.75	.007									
56.25-360.0	12707	3.75	<.005									
60.0 -362.0	12708	2.0	<.005									
62.0 -363.0	12646	1.0	.005									
63.0 -365.0	12709	2.0	<.005									

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-5 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION .0° DEPTH 349.0'

CLAIM TB 10606 GRID ELLIS CO-ORDINATES 160 + 00E

LOCATION SOUTH OF OLD ARENA 9 + 00S T.L. 25 + 00N

STARTED March 12, 1982 FINISHED March 15, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY G. DOUGLAS

G Douglas

FROM	TO	DESCRIPTION
0	106.0'	Casing-fine sand, boulders.
106.0'	112.1'	Diorite, chloritized, sheared, med-crs grained, dark greenish black in color ~10% quartz stringers.
112.1	349.0	Fine grained chlorite schist, well foliated, medium to dark greenish black in colour, occasional quartz stringers and silicified zones. Banded iron formation 200.0- 316.3 in varying proportions.
		123.1 0.5" quartz stringer @ CA 80°
		126.3 1.0" quartz vein @ CA 35°, chlorite stringers, trace disseminated pyrite
		133.5 - 142.5 10-15% sheared and drag folded quartz-chlorite veins, trace disseminated pyrite
		136.5 - 139.5 core tube not locked, 1.0' ground.
		152.0 - 152.9 quartz vein, chlorite stringers.
		156.0 - 166.0 7.0' ground core - tube not locked
		166.3 - 183.0 10-15% sheared and drag folded quartz stringers, silicified, traces pyrite
		180.5 5" barren quartz vein @ CA 10° makes up 75% of the core
		186.0 - 198.0 15% quartz stringers, sheared, drag folded, trace disseminated pyrite
		198.0 - 199.0 ground core
		199.0 - 200.0 mud seam - no core
		200.0 - 205.4 medium to heavy banded iron formation (heavy 203.4 - 205.4)
		207.25 - 208.5 15% quartz stringers, sheared, drag folded, trace disseminated pyrite
		208.5 - 210.0 heavy banded iron formation - mostly magnetite
		210.0 - 230.3 occasional magnetite bands to 4" in thickness
		220.4 - 221.6 10% quartz stringers with chlorite stringers, trace disseminated pyrite
		225.75 - 229.0 silicified
		230.3 - 238.1 heavy banded iron formation, magnetite and hematite
		238.1 - 239.7 chlorite schist

FROM	TO	DESCRIPTION
		239.7 - 246.5 heavy banded iron formation, magnetite and hematite
		246.5 - 248.0 some quartz veins in banded iron formations
		248.0 - 249.5 chlorite schist
		252.0 - 256.0 core tube did not lock, 3.5' ground core
		252.0 - 259.7. heavy banded iron formation, magnetite and hematite
		259.7 - 260.25 chlorite schist
		260.25 - 266.25 heavy banded iron formation, magnetite and hematite
		266.25 - 268.3 chlorite schist
		268.3 - 275.0 heavy banded iron formation, magnetite and hematite
		270.3 quartz vein, 2", trace pyrite
		275.0 - 349.0 short sections of iron formation in chlorite schist with weak quartz veins
		305.75 - 306.0 quartz vein
		311.5 - 316.3 heavy banded iron formation, magnetite and hematite
		323.4 - 325.7 sheared, quartz veins and lenses in chlorite schist
		331.0 - 336.0 1.0' ground core
349.0		END OF HOLE

CORE ANGLES

111.0'	30°
128.0'	35°
153.0'	40°
185.0'	40°
210.25'	45°
261.0'	45°
285.0'	42°
308.0'	40°
332.0'	38°

Form No. 804-R1-2500-11

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-5 DATE BEGAN Mar. 12,1982 DATE COMPLETED Mar.15,1982

AREA GERALDTON PROJECT No. DEPTH 349'

CLAIM TB 10606 CO-ORD 160_00E HORIZONTAL LENGTH

GRID ELLIS 9+005 T.L.25N DIRECTION North

SHEET No. CORE SIZE AQ ELEVATION ANGLE -45°

349' - 39.5°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
122.5 - 127.5	12722	5.0	<.005									
133.5 - 138.5	23	5.0	<.005									
139.5 - 142.5	24	3.0	<.005									
152.0 - 153.0	25	1.0	<.005									
166.3 - 170.0	26	3.7	<.005									
170.0 - 173.0	27	3.0	<.005									
173.0 - 178.0	28	5.0	<.005									
178.0 - 183.0	29	5.0	<.005									
183.0 - 186.0	12730	3.0	<.005									
186.0 - 191.0	31	5.0	<.005									
191.0 - 196.0	32	5.0	<.005									
196.0 - 198.0	33	2.0	<.005									
205.5 - 209.0	34	3.5	<.005									
220.0 - 223.0	35	3.0	<.005									
223.0 - 228.0	36	5.0	<.005									
246.5 - 248.0	37	1.5	<.005									
270.0 - 271.0	38	1.0	<.005									
275.0 - 280.0	39	5.0	<.005									
280.0 - 285.0	12740	5.0	<.005									
285.0 - 290.0	41	5.0	<.005									
290.0 - 295.0	42	5.0	<.005									
295.0 - 300.0	43	5.0	<.005									
300.0 - 305.0	44	5.0	<.005									
305.0 - 310.0	45	5.0	<.005									
310.0 - 315.0	46	5.0	.006									
315.0 - 320.0	47	5.0	<.005									
320.0 - 323.4	48	3.4	<.005									
323.4 - 326.0	49	2.6	<.005									
326.0 - 331.0	12750	5.0	<.005									
331.0 - 336.0	51	5.0	<.005									
336.0 - 341.0	52	5.0	<.005									
341.0 - 346.0	53	5.0	<.005									

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-6 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 88.5 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 84+00E CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS 27+75N BL 0+00

STARTED: AUGUST 10, 1982 FINISHED: AUGUST 13, 1982

DRILLED BY: WARREN WADE LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	8.0	CASING - PEAT, SILTY SAND.
8.0	15.0	CHLORITIC SCHIST/GREYWACKE INTERBEDDED WITH MEDIUM IRON FORMATION BANDS. DARK GREENISH GREY IN COLOUR (5GY 4/2). UNIT IS FINE GRAINED, WELL BANDED. LIMONITE ALONG JOINT SURFACES. OCCASIONAL DISSEMINATED CRYSTALS PYRITE - ESPECIALLY ASSOCIATED WITH CARBONATE STRINGERS. IRON FORMATION IS FINE GRAINED AND BANDED PARALLEL TO FOLIATION AND IS DRAG FOLDED IN SOME SECTIONS.
15.0	22.4	GREYWACKE INTERBEDDED WITH OCCASIONAL SECTIONS CHLORITE SCHIST. NARROW QUARTZ CARBONATE STRINGERS ABUNDANT - 16.0-17.0 APPROXIMATELY 20% 20.0-23.5 APPROXIMATELY 35% 21.5-22.4 QUARTZ CARBONATE STRINGERS, BRECCIATED AND CONTAINS CHLORITE BANDS TO 5 mm, 1% DISSEMINATED FINE GRAINED PYRITE WITH OCCASIONAL BLEBS TO 5 mm.
22.4	40.25	MAGNETITE BEARING GREYWACKE INTERBEDDED WITH CHLORITE SCHIST. 5% FINE GRAINED MAGNETITE 25.6-27.3 BANDS AND DISSEMINATED FINE GRAINED MAGNETITE IN CHLORITE SCHIST. 26.25-26.5 QUARTZ CARBONATE VEIN. CHLORITE BANDS FROM 26.25-26.5 HOSTING LARGE BLEBS OF PYRITE TO 1 cm. PYRITE 1% IN DISSEMINATED CRYSTALS TO 2 mm GENERALLY ASSOCIATED WITH QUARTZ STRINGERS AS AT 23.25-23.35, 26.25 26.5, 30.9-32.5, 39.75-40.25
34.0	63	EPIDOTIZED GREYWACKE
40.25	82.0	SILICEOUS GREYWACKE, 20% QUARTZ CARBONATE STRINGERS PARALLEL FOLIATION, APPROXIMATELY 2% DISSEMINATED MAGNETITE. 51.0-51.5 DRAG FOLDED; 5 mm QUARTZ-CARBONATE VEIN 53.25-53.65 EPIDOTIZED QUARTZ CARBONATE VEIN LENSES AND BANDS OF CHLORITE EPIDOTE, TRACES FINE GRAINED PYRITE. 56.5-57.0 30% DRAG FOLDED QUARTZ CARBONATE STRINGERS TRACE 1% PYRITE. 60.2-63.25 50% DRAG FOLDED QUARTZ CARBONATE STRINGERS AND VEINS. 3% DISSEMINATED PYRITE CRYSTALS TO 1 mm. SOME EPIDOTE PRESENT 66.1-68.25 30% SHEARED AND EPIDOTIZED QUARTZ CARBONATE

FROM	TO	DESCRIPTION
		STRINGERS AND VEINS, 1% PYRITE.
82.0	88.5	CHLORITE SCHIST 100% QUARTZ CARBONATE STRINGERS.
88.5		END OF HOLE
		CORE ANGLES
		12.0 - 62°
		75.0 - 64°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12756	8	11.5	3.5	Tr
57	11.5	15.0	3.5	Tr
58	15.0	20.0	5.0	Tr
59	20.0	21.5	1.5	Tr
60	21.5	22.4	0.9	Tr
61	22.4	25.6	3.2	Tr
62	25.6	27.3	1.7	Tr
63	27.3	30.4	3.1	0.011
64	30.4	32.5	2.1	0.012
65	32.5	37.5	5.0	0.015
66	37.5	42.5	5.0	Tr
67	42.5	47.5	5.0	Tr
68	47.5	52.5	5.0	Tr
69	52.5	57.5	5.0	Tr
70	57.5	60.2	2.7	Tr
71	60.2	63.25	3.05	Tr
72	63.25	68.25	5.0	Tr
73	68.25	73.5	5.25	Tr
74	73.5	78.5	5.0	Tr
75	78.5	83.5	5.0	Tr
76	83.5	88.5	5.0	Tr

Tr indicates
less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-7 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 94.0 FEET

CLAIM: CO-ORDINATES: 83+00E CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS 27+75N BL 0+00

STARTED: AUGUST 14, 1982 FINISHED: AUGUST 16, 1982

DRILLED BY: WARREN WADE LOGGED BY: GREG DOUGLAS

G Douglas

FROM	TO	DESCRIPTION
0	27.0	CASING. PEAT/SILTY CLAY.
27.0	38.5	MEDIUM BANDED IRON FORMATION. WELL FOLIATED. BANDED, DRAG FOLDED IN SOME SECTIONS. MAGNETITE CRYSTALS LESS THAN 0.5 mm DISSEMINATED IN SILICEOUS GREYWACKE. MAGNETITE BANDS GENERALLY 22 mm.
38.5	54.25	EPIDOTIZED AND CHLORITIZED GREYWACKE. WEAKLY BANDED, 10% QUARTZ CARBONATE STRINGERS. SOME HEAVILY EPIDOTIZED SECTIONS CARRY UP TO 5% PYRITE AND EXTENSIVE QUARTZ VEINING AS AT: 39.35-40.75, 43.5-44.5, 57.25-48.0, 49.5-50.25, 52.0-52.5 GREENISH GREY IN COLOUR 5GY 6/1.
54.25	94.0	CHLORITE SCHIST AND CHLORITIZED GREYWACKE FINE GRAINED. DARK GREENISH GREY. TRACES OF DISSEMINATED PYRITE. A FEW QUARTZ AND QUARTZ CARBONATE STRINGERS. 54.25-55.1 LEAN BANDED IRON FORMATION. 56.8-57.6 LEAN BANDED IRON FORMATION 57.6-59.1 THREE SECTIONS OF QUARTZ VEIN TOTALLING 4 INCHES CARRY APPROXIMATELY 20% PYRITE CRYSTALS, TO 1 mm.
94.0		END OF HOLE.

CORE ANGLES

30 FEET - 60°
68 FEET - 60°
89 FEET - 55°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12777	27.0	33.0	6.0	Tr
78	33.0	38.5	5.5	Tr
79	38.5	43.5	5.5	Tr
12780	43.5	48.5	5.0	Tr
81	48.5	52.5	4.0	Tr
82	52.5	54.25	1.75	0.007
83	54.25	57.6	3.35	Tr
84	57.6	59.1	1.5	0.032
85	59.1	63.1	4.0	Tr
86	63.1	68.0	4.9	Tr
87	68.0	73.0	5.0	0.024
88	73.0	78.0	5.0	Tr
89	78.0	83.0	5.0	Tr
12790	83.0	88.0	5.0	Tr
91	88.0	94.0	6.0	Tr

Tr indicates
less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-8 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 100.5 FEET

CLAIM: CO-ORDINATES: 82+00E CORE SIZE: IEX
27+90N BL 0+00

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 18, 1982 FINISHED: AUGUST 21, 1982

DRILLED BY: WARREN WADE LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	45.0	CASING, PEAT/SILTY CLAY.
45.0	50.5	LEAN BANDED IRON FORMATION INTERBEDDED WITH CHLORITIZED GREYWACKE. GREENISH BLACK(5GY 2/1) WELL BANDED, 10% QUARTZ CARBONATE AND QUARTZ STRINGERS.
50.5	58.25	EPIDOTIZED AND CHLORITIZED GREYWACKE. GREENISH GREY IN COLOUR (5GY 6/1). VERY FINE GRAINED, SLIGHTLY CARBONATIZED. OCCASIONAL BANDS CHLORITE. TRACES DISSEMINATED FINE GRAINED (LESS THAN 1 mm) PYRITE. OCCASIONAL BANDS AND LAMINAE OF IRON FORMATION.
58.25	78.0	CHLORITE SCHIST. SILICIFIED SECTIONS AS AT 70 FEET - 75 FEET. APPROXIMATELY 5% DISSEMINATED FINE GRAINED MAGNETITE PLUS A FEW BANDS OF VERY LEAN IRON FORMATION. QUARTZ-CARBONATE AND QUARTZ STRINGERS APPROXIMATELY 15% OF UNIT. 60.3 - 60.75 QUARTZ CARBONATE VEIN. SOME CHLORITE BANDS - A FEW DISSEMINATED PYRITE CRYSTALS TO 2 mm AT UPPER AND LOWER CONTACTS. 69.6-70.75 SHEARED AND BRECCIATED QUARTZ VEIN. HIGH CHLORITE PERCENTAGE.
78.0	96.5	SILICIFIED CHLORITIC GREYWACKE. ALMOST MASSIVE SINCE BANDING NOT WELL DEVELOPED. INFREQUENT VERY NARROW QUARTZ-CARBONATE STRINGERS-PTYGMATIC FOLDS. OCCASIONAL CRYSTALS DISSEMINATED PYRITE AND BANDS OF MAGNETITE.
96.5	100.5	CHLORITIC GREYWACKE WITH SHEARED GRITS TO 2 cm.
100.5		END OF HOLE.

CORE ANGLES.

50 FEET - 50°
75 FEET - 45°
100 FEET - 57°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12792	45.0	50.5	5.5	Tr
93	50.5	55.0	4.5	Tr
94	55.0	58.75	3.75	Tr
95	58.75	61.5	2.75	Tr
96	61.5	66.5	5.0	Tr
97	66.5	69.6	3.1	Tr
98	69.6	70.75	1.15	Tr
99	70.75	75.75	5.0	Tr
12800	75.75	80.75	5.0	Tr
01	80.75	85.75	5.0	Tr
02	85.75	90.75	5.0	Tr
03	90.75	95.75	5.0	Tr
04	95.75	100.5	4.75	Tr

Tr indicates
less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-9 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 96.0 FEET

CLAIM: CO-ORDINATES: 81+00E 28+25N CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 22, 1982 FINISHED: AUGUST 26, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	33.0	CASING PEAT/SILTY CLAY
33.0	39.0	LEAN BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE. 38.7-39.0 DRAG FOLDED BANDED IRON FORMATION WHICH CONTAINS 2% DISSEMINATED CRYSTALS OF PYRITE TO 3 mm. 38.9-39.0 QUARTZ VEIN.
39.0	69.5	CHLORITE SCHIST-ALMOST MASSIVE APPEARANCE DUE TO POORLY DEVELOPED BANDING. 5% QUARTZ-CARBONATE STRINGERS PARALLEL TO FOLIATION WITH SLIGHT TO HEAVY DRAG FOLDING. 49.0-49.5 BANDED IRON FORMATION, MEDIUM 58.5-58.7 BANDED IRON FORMATION, MEDIUM 66.5-69.5 BANDED IRON FORMATION, LEAN
69.5	71.25	CHLORITIZED GREYWACKE WITH SHEARED GRITS & SMALL PEBBLES.
71.25	83.0	CHLORITIZED GREYWACKE, OCCASIONAL BANDS AND LAMINAE OF BANDED IRON FORMATION, DRAG FOLDED.
83.0	92.5	CHLORITIZED GREYWACKE, FINE GRAINED. 10% QUARTZ CARBONATE STRINGERS LESS THAN 1 cm. OCCASIONALLY BRECCIATED AND GENERALLY DRAG FOLDED. TRACE DISSEMINATED PYRITE. 83.5-84.0 BRECCIATED QUARTZ-CARBONATE VEIN/SCHIST.
92.5	96.0	CHLORITE SCHIST, TRACE DISSEMINATED PYRITE.
96.0		END OF HOLE.

CORE ANGLES

34 FEET 60°

58.6 FEET 90°

69 FEET 70°

95 FEET 63°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12805	33.0	38.0	5.0	Tr
06	38.0	39.0	1.0	Tr
07	39.0	44.0	5.0	Tr
08	44.0	49.0	5.0	Tr
09	49.0	54.0	5.0	Tr
10	54.0	59.0	5.0	Tr
11	59.0	66.5	7.5	Tr
12	66.5	71.5	5.0	Tr
13	71.5	76.5	5.0	Tr
14	76.5	81.5	5.0	0.005
15	81.5	83.0	1.5	Tr
16	83.0	88.0	5.0	Tr
17	88.0	92.5	4.5	Tr
18	92.5	96.0	3.5	Tr

Tr indicates
less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-10 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 83.0 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 85+00E CORE SIZE: IEX
27+65N BL 0+00

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 26, 1982 FINISHED: AUGUST 27, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	3.0	CASING - SAND.
3.0	36.0	BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE 14.5-20.75 HEAVY IRON FORMATION 27.0-29.0 MEDIUM TO HEAVY IRON FORMATION
36.0	38.0	CHLORITIC GREYWACKE WITH SHEARED GRITS AND PEBBLES.
38.0	48.35	EPIDOTIZED AND SILICIFIED CHLORITIC GREYWACKE, DRAG FOLDED, STRONG SHEARING GREENISH GREY IN COLOUR 5GY 6/1. CHLORITE AND EPIDOTE CHLORITE BANDS. OCCASIONAL SPECKS OF DISSEMINATED PYRITE LESS THAN 1 mm. 45.5-46.0 DRAG FOLDED BANDED IRON FORMATION. 46.5 TRACE CHALCOPYRITE
48.35	54.25	CHLORITIC GREYWACKE WELL BANDED WITH 10-15% QUARTZ STRINGERS. OCCASIONAL BANDS OF DISSEMINATED PYRITE. SLIGHTLY EPIDOTIZED.
54.25	69.8	CHLORITE SCHIST. QUARTZ-CARBONATE STRINGERS TO 2 mm.
69.8	76.0	EPIDOTIZED AND SILICIFIED CHLORITE SCHIST. 69.8 - 70.4 60% QUARTZ-POTASH FELDSPAR VEIN. CHLORITE BOOK (40%) WHICH HAS BEEN EPIDOTIZED ALONG CONTACTS WITH QUARTZ-POTASSIUM FELDSPAR 73.6-74.5 QUARTZ VEIN WITH BANDS AND INCLUSIONS OF EPIDOTE-CHLORITE. FRACTURES IN QUARTZ ARE SOMETIMES COATED WITH PYRITE.
76.0	83.0	VERY LEAN IRON FORMATION IN CHLORITIZED GREYWACKE. FAIRLY SILICEOUS WITH VERY FINE GRAINED MAGNETITE CRYSTALS BEING ABUNDANT IN CORE GIVING A GREYISH COLOUR. CORE ANGLES 29 FEET -53° 37 FEET -53° 49 FEET -50° 57 FEET -60° 75 FEET -45°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12832	3.0	8.0	5.0	0.005
33	8.0	14.5	6.5	Tr
34	14.5	20.75	5.26	Tr
35	20.75	27.0	6.25	Tr
12819	27.0	32.0	5.0	Tr
12820	32.0	36.0	4.0	Tr
21	36.0	38.0	2.0	Tr
22	38.0	43.0	5.0	Tr
23	43.0	48.35	5.35	0.005
24	48.35	50.5	2.15	Tr
25	50.5	55.25	4.75	Tr
26	55.25	60.0	4.75	Tr
27	60.0	65.0	5.0	Tr
28	65.0	69.7	4.7	Tr
29	69.7	72.8	3.1	Tr
12830	72.8	76.0	3.2	Tr
31	76.0	83.0	7.0	Tr

Tr indicates
less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-11 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 81.0 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 86+00E 27+45N BL 0+00 CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 28, 1982 FINISHED: AUGUST 28, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	18.0	CASING PEAT/SILTY CLAY.
18.0	61.0	BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE. GREENISH GREY IN COLOUR 5GY 6/1. GENERALLY IRON FORMATION IS LEAN BUT SECTIONS OF MEDIUM-HEAVY IRON FORMATION PRESENT AS AT: 22.2-23.25 49.0-50.0 53.5-54.5 OCCASIONAL CRYSTALS OF PYRITE TO 3 mm DISSEMINATED IN IRON FORMATION.
61.0	72.5	EPIDOTIZED AND SILICIFIED CHLORITIC GREYWACKE. GENERALLY EPIDOTIZATION IS OVER SHORT SECTIONS AND NOT AS WELL DEVELOPED AS IN HOLES TO THE WEST. 61.0-62.6 HEAVY SILICIFICATION. BOOKS OF EPIDOTIZED CHLORITE 5% DISSEMINATED PYRITE IN CHLORITE. 62.6-72.5 40-50% QUARTZ-CARBONATE STRINGERS PARALLEL TO FOLIATION AND BANDING. SOME STRINGERS CROSS CUT FOLIATION. STRINGERS MAY BE DRAG FOLDED.
72.5	81.0	MAGNETITE BEARING CHLORITIZED GREYWACKE. VERY FINE GRAINED MAGNETITE DISSEMINATED IN CORE. WELL BANDED, TRACES DISSEMINATED PYRITE. 72.75 1 INCH QUARTZ VEIN CONTAINS 40% PYRITE CORE ANGLES 25 FEET -55° 50 FEET -60° 65 FEET -70° 78 FEET -65°

HOLE NO. 82-11 CORE ASSAYS

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12836	18.0	23.0	5.0	Tr
37	23.0	28.0	5.0	Tr
38	28.0	33.0	5.0	Tr
39	33.0	38.0	5.0	Tr
12840	38.0	43.0	5.0	Tr
41	43.0	48.0	5.0	Tr
42	48.0	53.0	5.0	Tr
43	53.0	58.0	5.0	Tr
44	58.0	61.0	3.0	Tr
45	61.0	64.0	3.0	Tr
46	64.0	68.0	4.0	Tr
47	68.0	72.5	4.5	0.062
48	72.5	73.0	0.5	0.019
49	73.0	78.0	5.0	0.015
50	78.0	81.0	3.0	0.012

Tr indicates less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-12 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 84.1 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 87+00E CORE SIZE: IEX
27+40N BL 0+00

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 30, 1982 FINISHED: AUGUST 30, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

FROM	TO	DESCRIPTION
0	16.0	CASING - PEATY/SILTY CLAY.
16.0	62.0	CHLORITIC GREYWACKE INTERBEDDED WITH BANDED IRON FORMATION, OCCASIONAL CRYSTALS PYRITE ASSOCIATED WITH IRON FORMATION. A FEW QUARTZ CARBONATE STRINGERS PARALLEL TO FOLIATION. COLOUR RANGES FROM 5GY 2/1 to 5GY 4/1. HEAVY IRON FORMATION AT 18.4-18.7, 30.7-31, 34.3-34.6, 37.8-38.4. MEDIUM IRON FORMATION AT 22.6-23.9. 33.0-33.3 SHEARED QUARTZ CARBONATE VEIN, BANDS CHLORITE ARE SLIGHTLY EPIDOTIZED ALONG CONTRACTS WITH QUARTZ. 42.1-44.6 MEDIUM IRON FORMATION, DISSEMINATED PYRITE CRYSTALS TO 2 mm. 50.6-51.5 MEDIUM IRON FORMATION DISSEMINATED PYRITE CRYSTALS LESS THAN 1 mm. 59.25-59.75 HEAVY IRON FORMATION. DRAG FOLDED AT UPPER CONTACT; THIN DISCONTINUOUS LAMINAE OF PYRITE. LESS THAN 1 mm THICK PARALLEL TO DRAG FOLD. 58.5-62 SILICIFIED. (IRON FORMATION GENERALLY NOT DRAG FOLDED).
62.0	69.5	EPIDOTIZED AND SILICIFIED INTERBEDDED WITH CHLORITIC GREYWACKE. - MEDIUM YELLOW GREEN (5GY 7/4) TO GREENISH GREY (5GY 6/1). EPIDOTIZED SECTIONS - 62.0-64.5 68.5-69.5 (5-10% DISSEMINATED PYRITE) 64.5-68.5 SILICIFIED GREYWACKE, 25% QUARTZ-CARBONATE STRINGERS PARALLEL TO FOLIATION.
69.5	84.9	CHLORITIC GREYWACKE 70.4-74.5 SHEARED PEBBLES AND GRITS 75.0-79.5 SILICIFIED, 15% QUARTZ-CARBONATE STRINGERS. 77.2-77.5 SHEARED QUARTZ VEIN, SLIGHTLY EPIDOTIZED BOOKS OF CHLORITE SCHIST. 78.6 1 INCH QUARTZ VEIN. 79.179.3 3 INCH EPIDOTIZED QUARTZ-CARBONATE VEIN. 79.1-84.1 CHLORITIC GREYWACKE, GREENISH BLACK, 5% QUARTZ-CARBONATE STRINGERS PARALLEL FOLIATION.
84.9		END OF HOLE.

CORE ANGLES 23.5 FEET - 52° 73 FEET - 56°
47 FEET - 60° 80 FEET - 52°
60 FEET - 51°

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12851	16.0	21.0	5.0	Tr
52	21.0	26.0	5.0	Tr
53	26.0	31.0	5.0	Tr
54	31.0	32.9	1.9	Tr
55	32.9	33.5	0.6	Tr
56	33.5	38.5	5.0	Tr
57	38.5	43.5	5.0	Tr
58	43.5	48.5	5.0	Tr
59	48.5	53.5	5.0	Tr
12860	53.5	58.5	5.0	Tr
61	58.5	62.0	3.5	Tr
62	62.0	64.5	2.5	Tr
63	64.5	69.5	5.0	Tr
64	69.5	74.5	5.0	Tr
65	74.5	79.5	5.0	Tr
66	79.5	84.9	5.4	Tr

Tr indicates less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-13 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 82.3 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 88+00E CORE SIZE: IEX
27+35N BL 0+00

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: AUGUST 31, 1982 FINISHED: SEPTEMBER 1, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

G Douglas

FROM	TO	DESCRIPTION
0	8.0	CASING. PEAT/ SILTY CLAY.
8.0	50.8	BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GRAYWACKE. GREENISH BLACK IN COLOUR (5GY 2/1). LESS THAN 5% DRAG FOLDED QUARTZ CARBONATE STRINGERS. IRON FORMATION IS LEAN TO MEDIUM AND MAKES UP TO APPROXIMATELY 10% OF THE UNIT IN SHORT SECTIONS. TRACE TO 1% DISSEMINATED PYRITE (CRYSTALS TO 3 mm) IN IRON FORMATION. 11.3 - 11.75 EPIDOTIZED QUARTZ-CHLORITE VEIN.
50.8	63.75	EPIDOTIZED CHLORITIC GREYWACKE. MEDIUM GREENISH GREY (5GY 5/1) IN COLOUR. ALTERATION INCREASES FROM 50.8 - 54.0, THEN CONSTANT TO 63.75 BUT WEAKER THAN IN HOLES TO THE WEST. EPIDOTIZATION ONLY DEVELOPED ON CHLORITE INCLUSIONS AND CONTACTS WITH QUARTZ. 8-10% QUARTZ CHLORITE STRINGERS.
63.75	82.5	CHLORITIC GREYWACKE. A FEW LAMINAE AND THIN BANDS OF LEAN IRON FORMATION PRESENT, 5% DRAG FOLDED QUARTZ-CARBONATE STRINGERS. WELL BANDED. GREENISH BLACK (5GY 2/1) IN COLOUR.
82.5		END OF HOLE.

CORE ANGLES

20 FEET -57°
29 FEET -58°
47 FEET -58°
58 FEET -15°
64 FEET -60°
80 FEET -65°

DRILL HOLE NO. 82-13 CORE SAMPLES

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12867	8.0	13.0	5.0	Tr
68	13.0	18.0	5.0	Tr
69	18.0	23.0	5.0	Tr
12870	23.0	28.0	5.0	Tr
71	28.0	33.0	5.0	Tr
72	33.0	38.0	5.0	Tr
73	38.0	43.0	5.0	Tr
74	43.0	48.0	5.0	Tr
75	48.0	50.8	2.8	Tr
76	50.8	54.0	3.2	Tr
77	54.0	59.0	5.0	Tr
78	59.0	64.0	5.0	Tr
79	64.0	69.0	5.0	Tr
12880	69.0	74.0	5.0	Tr
81	74.0	79.0	5.0	Tr
82	79.0	82.3	3.3	Tr

Tr indicates less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-14 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 81.8 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 89+00E 27+25N BL 0+00 CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS

STARTED: SEPTEMBER 1, 1982 FINISHED: SEPTEMBER 2, 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

GDouglas

FROM	TO	DESCRIPTION
0	18.0	CASING. PEAT/SILTY CLAY.
18.0	33.9	MEDIUM BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE. IRON FORMATION COMPOSED PREDOMINANTLY OF MAGNETITE.
33.9	45.3	CHLORITIC GREYWACKE. SILICIFIED. DARK GREENISH GREY IN COLOUR (5G 4/1) APPROXIMATELY 10% QUARTZ CARBONATE STRINGERS. 44.0 - 45.0 BANDED MEDIUM IRON FORMATION.
45.3	50.2	SLIGHTLY EPIDOTIZED CHLORITIC GREYWACKE - EPIDOTIZATION ONLY ALONG QUARTZ-CHLORITE CONTACTS.
50.2	78.25	MEDIUM BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE (DARK GREENISH GREY). VERY FINE GRAINED DISSEMINATED MAGNETITE THROUGHOUT SECTION. BANDED SECTIONS OF IRON FORMATION AVERAGE 50% MAGNETITE/50% HEMATITE. 51.8-51.9 20% PYRITE IN THIS BAND OF MEDIUM IRON FORMATION (BAND IS FROM 51.75-52.75). 69.25-69.75 80% QUARTZ - 10% CARBONATE - 10% CHLORITE VEIN CONTAINING A FEW CRYSTALS PYRITE TO 4 mm.
78.25	81.8	CHLORITIC GREYWACKE WITH SHEARED GRITS AND PEBBLES.
81.8		END OF HOLE.

CORE ANGLES

21 FEET	46°
35 FEET	60°
50 FEET	55°
55 FEET	30°
59 FEET	45°
80 FEET	50°

L. .E. NO.: 82-14

CORE SAMPLES

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12883	18.0	24.0	6.0	Tr
84	24.0	29.0	5.0	Tr
85	29.0	34.0	5.0	Tr
86	34.0	39.0	5.0	Tr
87	39.0	44.0	5.0	Tr
88	44.0	45.3	1.3	Tr
89	45.3	50.2	4.9	Tr
90	50.2	54.5	4.3	Tr
91	54.5	59.5	5.0	Tr
92	59.5	64.5	5.0	Tr
93	64.5	69.25	4.75	Tr
94	69.25	70.0	0.75	Tr
95	70.0	74.75	4.75	Tr
96	74.75	79.25	4.50	Tr
97	79.25	81.8	2.55	Tr

Tr indicates less than 0.005 oz/t

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO.: 82-15 PROJECT NAME: GERALDTON GRID: MAIN

ANGLE: -45° DIRECTION: 0° DEPTH: 107.0 FEET

CLAIM: T.B. 1638 CO-ORDINATES: 89+00E CORE SIZE: IEX

LOCATION: NORTH SHORE, LAKE KENOGAMISIS 26+75N

STARTED: SEPTEMBER 2 , 1982 FINISHED: SEPTEMBER 3 , 1982

DRILLED BY: A. LAMBERT LOGGED BY: GREG DOUGLAS

Douglas

FROM	TO	DESCRIPTION
0	14.0	CASING. PEAT/SILTY CLAY
14.0	107.0	LEAN TO MEDIUM BANDED IRON FORMATION INTERBEDDED WITH CHLORITIC GREYWACKE. VERY FINE GRAINED MAGNETITE DISSEMINATED THROUGHOUT CORE. 24.3-26.9 HEAVY IRON FORMATION 84.5-88.8 VERY BLOCKY SECTION - SHEAR ZONE? 2.0 FEET LOST OR GROUND CORE.
107.0		END OF HOLE.
		CORE ANGLES 30 FEET - 45° 50 FEET - 45° 75 FEET - 43°

HOLE. NO.: 82-15 CORE SAMPLES

NUMBER	FROM	TO	LENGTH	ASSAY AU oz/t
12898	14.0	19.0	5.0	Tr
99	19.0	24.0	5.0	Tr
12900	24.0	29.0	5.0	0.014
01	29.0	34.0	5.0	Tr
02	34.0	39.0	5.0	Tr
03	39.0	44.0	5.0	Tr
04	44.0	49.0	5.0	Tr
05	49.0	54.0	5.0	Tr
06	54.0	59.0	5.0	Tr
07	59.0	64.0	5.0	Tr
08	64.0	69.0	5.0	Tr
09	69.0	74.0	5.0	Tr
12910	74.0	79.0	5.0	Tr
11	79.0	84.0	5.0	Tr
12	84.0	88.8	4.8	Tr
13	88.8	93.0	4.2	Tr
14	93.0	98.0	5.0	Tr
15	98.0	103.0	5.0	Tr
16	103.0	107.0	4.0	Tr

Tr indicates less than 0.005 oz/t

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombil Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.

REPORT No. T 8997

Inv.#18945

SAMPLE(S) OF: DRILL CORE

Samples	Gold (Au)oz/ton	Samples	Gold (Au)oz/ton
12526	<0.005	12546	<0.005
12527	<0.005	12547	<0.005
12528	<0.005	12548	<0.005
12529	<0.005	12549	<0.005
12530	<0.005	12550	<0.005
12531	<0.005	12551	<0.005
12532	<0.005	12552	<0.005
12533	<0.005	12553	<0.005
12534	<0.005	12554	<0.005
12535	<0.005	12555	<0.005
12536	<0.005	12556	<0.005
12537	<0.005	12557	<0.005
12538	<0.005	12558	<0.005
12539	<0.005	12559	<0.005
12540	<0.005	12560	<0.005
12541	<0.005	12561	<0.005
12542	<0.005	12562	<0.005
12543	<0.005	12563	<0.005
12544	<0.005		
12545	<0.005		

16.3.82

nples, Pulps and Rejects discarded after two months

DATE March 10th, 1982 SIGNED R. E. Burgener

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• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Minws,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

Attn: Donald Boucher

REPORT No. T 9004

Inv. #18968

SAMPLE(S) OF: CORE

Samples	Fire Assay Gold (Au) oz/ton	Samples	Fire Assay Gold (Au) oz/ton	Samples	Fire Assay Gold (Au) oz/ton
12501	<0.005	12521	<0.005	12579	<0.005
12502	<0.005	12522	<0.005	12580	<0.005
12503	<0.005	12523	<0.005	12581	<0.005
12504	<0.005	12524	<0.005	12582	<0.005
12505	<0.005	12525	<0.005	12583	<0.005
12506	<0.005	12564	<0.005	12584	<0.005
12507	<0.005	12565	<0.005	12585	0.011
12508	<0.005	12566	<0.005	12586	<0.005
12509	<0.005	12567	0.007	12587	<0.005
12510	<0.005	12568	<0.005	12588	0.033
12511	<0.005	12569	<0.005	12589	<0.005
12512	<0.005	12570	<0.005	12590	<0.005
12513	<0.005	12571	<0.005	12591	<0.005
12514	<0.005	12572	<0.005	12592	<0.005
12515	<0.005	12573	<0.005	12593	0.005
12516	<0.005	12574	<0.005	12594	<0.005
12517	<0.005	12575	<0.005	12595	<0.005
12518	<0.005	12576	<0.005	12596	<0.005
12519	<0.005	12577	<0.005	12597	<0.005
12520	<0.005	12578	<0.005	12598	<0.005

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nples, Pulps and Rejects discarded after two months

DATE March 15th, 1982 SIGNED J. E Burgener

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

Attn: Donald Bouchur

REPORT No. T 9004

Inv.#18968

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12599	<0.005	12619	<0.005	12639	<0.005
12600	<0.005	12620	<0.005	12640	0.014
12601	<0.005	12621	0.005	12641	0.076
12602	<0.005	12622	<0.005	12642	<0.005
12603	<0.005	12623	<0.005	12643	0.005
12604	<0.005	12624	<0.005	12644	0.008
12605	<0.005	12625	0.036	12645	0.007
12606	<0.005	12626	<0.005	12646	0.005
12607	<0.005	12627	<0.005		
12608	<0.005	12628	0.065		
12609	<0.005	12629	<0.005		
12610	<0.005	12630	1.67		
12611	<0.005	12631	<0.005		
12612	<0.005	12632	0.014		
12613	<0.005	12633	<0.005		
12614	<0.005	12634	<0.005		
12615	<0.005	12635	<0.005		
12616	<0.005	12636	0.015		
12617	<0.005	12637	0.018		
12618	0.119	12638	0.011		

nples, Pulps and Rejects discarded after two months

DATE March 15th, 1982 SIGNED W. E. Burgener

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE. (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No.
T 9680-1

Inv.#19070

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12647	<0.005	12667	<0.005
12648	<0.005	12668	0.005
12649	<0.005	12669	<0.005
12650	<0.005	12670	<0.005
12651	<0.005	12671	<0.005
12652	<0.005	12672	<0.005
12653	<0.005	12673	<0.005
12654	<0.005	12674	<0.005
12655	<0.005	12675	<0.005
12656	<0.005	12676	<0.005
12657	<0.005	12677	<0.005
12658	<0.005	12678	<0.005
12659	<0.005	12679	<0.005
12660	<0.005	12680	<0.005
12661	<0.005	12681	<0.005
12662	<0.005	12682	<0.005
12663	<0.005	12683	<0.005
12664	0.051	12684	<0.005
12665	0.008	12685	<0.005
12666	0.006	12686	<0.005

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DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No. T 9680-2

SAMPLE(S) OF: CORE

Inv.#19070

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12687	<0.005	12707	<0.005
12688	<0.005	12708	<0.005
12689	<0.005	12709	<0.005
12690	<0.005	12710	<0.005
12691	<0.005	12711	<0.005
12692	<0.005	12712	<0.005
12692	<0.005	12713	<0.005
12694	<0.005	12714	<0.005
12695	<0.005	12715	<0.005
12696	<0.005	12716	<0.005
12697	<0.005	12717	<0.005
12698	<0.005	12718	<0.005
12699	<0.005	12719	<0.005
12700	<0.005	12720	<0.005
12701	<0.005	12721	<0.005
12702	<0.005	12722	<0.005
12703	0.005	12723	<0.005
12704	<0.005	12724	<0.005
12705	<0.005	12725	<0.005
12706	<0.005	12726	<0.005

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ples. Pulps and Rejects discarded after two months

FILE:

DATE March 26th, 1982 SIGNED

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No. T 9580-3

Inv.#19070

SAMPLE(S) OF: CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12727	<0.005	12748	<0.005
12728	<0.005	12749	<0.005
12729	<0.005	12750	<0.005
12730	<0.005	12751	<0.005
12731	<0.005	12752	<0.005
12732	<0.005	12753	<0.005
12733	<0.005	12754	<0.005
12734	<0.005	12755	<0.005
12735	<0.005		
12736	<0.005		
12737	<0.005		
12738	<0.005		
12739	<0.005		
12740	<0.005		
12741	<0.005		
12742	<0.005		
12743	<0.005		
12744	<0.005		
12745	<0.005		
12746	0.006		
12747	<0.005		

Samples, Pulps and Rejects discarded after two months

DATE March 26th, 1982 SIGNED

T S L

② cracker

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DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX: 06-960215

CERTIFICATE OF ANALYSIS

REPORT No. T 11034

FILE:

SAMPLE(S) FROM Tombill Mines,
Hudson Bay Mining & Smelting,
P.O. Box 28, Toronto-Dominion Centre,
Toronto, Ont.
M5K 1B8

Attn: R. Davies/Greg Douglas

Inv. #20281

SAMPLE(S) OF DRILL CORE AND ROCK

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12756	<0.005	12777	<0.005
12757	<0.005	12778	<0.005
12758	<0.005	12779	<0.005
12759	<0.005	12780	<0.005
12760	<0.005	12781	<0.005
12761	<0.005	12782	0.007
12762	<0.005	12783	<0.005
12763	0.011	12784	0.032
12764	0.012	12785	0.005
12765	0.015	12786	<0.005
12766	<0.005	12787	0.024
12767	<0.005	12788	<0.005
12768	<0.005	12789	<0.005
12769	<0.005	12790	<0.005
12770	<0.005	12791	<0.005
12771	<0.005		
12772	<0.005		
12773	<0.005		
12774	<0.005		
12775	<0.005		
12776	<0.005		

mples, Pulps and Rejects discarded after two months

DATE August 27th, 1982 SIGNED Gail E Burgener

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TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-980215
→ TSL: Geraldton

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines Ltd.
P.O. Box 28, Toronto Dominion Centre
Toronto, Ont.
M5K 1B8

REPORT No. T 11137

Inv.#20386

SAMPLE(S) OF: DRILL CORE

Samples	Fire Assay Gold (Au) oz/ton	Samples	Fire Assay Gold (Au) oz/ton	Samples	Fire Assay Gold (Au) oz/ton
12792	<0.005	12812	<0.005	12832	0.005
12793	<0.005	12813	<0.005	12833	<0.005
12794	<0.005	12814	0.005	12834	<0.005
12795	<0.005	12815	<0.005	12835	<0.005
12796	<0.005	12816	<0.005	12836	<0.005
12797	<0.005	12817	<0.005	12837	<0.005
12798	<0.005	12818	<0.005	12838	<0.005
12799	<0.005	12819	<0.005	12839	<0.005
12800	<0.005	12820	<0.005	12840	<0.005
12801	<0.005	12821	<0.005	12841	<0.005
12802	<0.005	12822	<0.005	12842	<0.005
12803	<0.005	12823	0.005	12843	<0.005
12804	<0.005	12824	<0.005	12844	<0.005
12805	<0.005	12825	<0.005	12845	<0.005
12806	<0.005	12826	<0.005	12846	<0.005
12807	<0.005	12827	<0.005	12847	0.062
12808	<0.005	12828	<0.005	12848	0.019
12809	<0.005	12829	<0.005	12849	0.015
12810	<0.005	12830	<0.005	12850	0.012
12811	<0.005	12831	<0.005		

nples, Pulps and Rejects discarded after two months

DATE September 14, 1982 SIGNED Paul E Burgoyne

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines
P.O. Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M5K 1B8

REPORT No. T 10952

SEP 1982

Inv.#20408

SAMPLE(S) OF: DRILL CORE

Samples	Fire Assay Gold (Au) oz/t	Samples	Fire Assay Gold (Au) oz/t
12851	<0.005	12871	<0.005
12852	<0.005	12872	<0.005
12853	<0.005	12873	<0.005
12854	<0.005	12874	<0.005
12855	<0.005	12875	<0.005
12856	<0.005	12876	<0.005
12857	<0.005	12877	<0.005
12858	<0.005	12878	<0.005
12859	<0.005	12879	<0.005
12860	<0.005	12880	<0.005
12861	<0.005	12881	<0.005
12862	<0.005	12882	<0.005
12863	<0.005	12883	<0.005
12864	<0.005	12884	<0.005
12865	<0.005	12885	<0.005
12866	<0.005	12886	<0.005
12867	<0.005	12887	<0.005
12868	<0.005	12888	<0.005
12869	<0.005	12889	<0.005
12870	<0.005	12890	<0.005

nples, Pulps and Rejects discarded after two months

DATE September 15, 1982 SIGNED Paul E Burgener

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombill Mines
P.O. Box 28, Toronto Dominion Centre
Toronto, Ont.
M5K 1B8

REPORT No. T 10952

Inv.#20408

SAMPLE(S) OF: DRILL CORE

Samples	Fire Assay Gold (Au) oz/t	Samples	Fire Assay Gold (Au) oz/t
12891	<0.005	12911	<0.005
12892	<0.005	12912	<0.005
12893	<0.005	12913	<0.005
12894	<0.005	12914	<0.005
12895	<0.005	12915	<0.005
12896	<0.005	12916	<0.005
12897	<0.005		
12898	<0.005		
12899	<0.005		
12900	0.014		
12901	<0.005		
12902	<0.005		
12903	<0.005		
12904	<0.005		
12905	<0.005		
12906	<0.005		
12907	<0.005		
12908	<0.005		
12909	<0.005		
12910	<0.005		

SEP 21 1982

mples, Pulps and Rejects discarded after two months

DATE September 15, 1982 SIGNED Paul E Burgener

CTA

THE FIRST 11 PAGES ARE THE SAME AS THE FIRST REPORT.

CONCLUSIONS

Further drilling along EM anomaly "A" in the Main Group is warranted to test for higher grade gold occurrences in the structures penetrated by diamond drill hole 82 - 4. A program of Winkie drilling is recommended for the summer field season of 1982.

A geochemical program is recommended to be carried out over the Original Group.

Respectfully submitted

Greg Douglas

2/6/82

APPENDIX 1

rm No. 804-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

OLE No. 82 - 1 DATE BEGAN ..... DATE COMPLETED .....

REA GERALDTON PROJECT No. MAIN DEPTH .....

AIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

RID ..... DIRECTION .....

HEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			Oz/Ton									
7.0 - 432.0	12679	5.0	<.005									
2.0 - 434.0	12680	2.0	<.005									
4.0 - 439.0	81	5.0	<.005									
2.25- 443.25	82	1.0	<.005									
3.25- 446.0	83	2.75	<.005									
6.0 - 447.5	84	1.5	<.005									
7.5 - 449.0	85	1.5	<.005									
9.0 - 452.25	86	3.25	<.005									
2.25- 453.5	87	1.25	<.005									
3.5 - 456.0	88	2.5	<.005									
0.0 - 461.25	89	1.25	<.005									
0.0 - 473.0	12690	3.0	<.005									
8.0 - 483.0	91	5.0	<.005									

rm No. 804-R1-25M-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

165' 38°
255' 37°

)LE No. 82 - 1 DATE BEGAN March 5, 1982 DATE COMPLETED Mar.10,1982

EA GERALDTON PROJECT No. MAIN GP. DEPTH 507'

AIM TB10857 CO-ORD 84 + OOE HORIZONTAL LENGTH

LID 3 + 50N BLO+OO DIRECTION North

EET No. CORE SIZE AQ ELEVATION ANGLE -45°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			Oz/Ton									
9.0 - 20.0	12647	1.0	<.005									
6.0 - 27.0	48	1.0	<.005									
4.0 - 26.0	49	2.0	<.005									
7.0 - 29.0	12650	2.0	<.005									
9.0 - 50.0	51	1.0	<.005									
5.0 - 58.0	52	3.0	<.005									
8.0 - 62.0	53	4.0	<.005									
3.0 - 74.0	54	1.0	<.005									
2.0 - 87.0	55	5.0	<.005									
3.5 - 94.5	56	1.0	<.005									
7.5 - 119.35	57	1.85	<.005									
3.6 - 144.6	58	1.0	<.005									
4.0 - 169.0	59	5.0	<.005									
7.0 - 198.5	12660	1.5	<.005									
6.75- 188.75	61	2.0	<.005									
5.5 - 220.5	62	5.0	<.005									
1.5 - 224.0	63	2.5	<.005									
3.0 - 256.0	64	3.0	.051									
6.0 - 259.0	65	3.0	.008									
7.5 - 269.0	66	2.5	.006									
4.0 - 289.0	67	5.0	<.005									
9.0 - 294.0	68	5.0	.005									
4.0 - 297.5	69	3.5	<.005									
6.0 - 361.0	12670	5.0	<.005									
1.0 - 362.7	71	1.7	<.005									
4.0 - 377.0	72	3.0	<.005									
4.0 - 389.0	73	5.0	<.005									
2.0 - 403.0	74	1.0	<.005									
4.5 - 416.5	12675	2.0	<.005									
8.0 - 420.0	12676	2.0	<.005									
0.0 - 423.0	77	3.0	<.005									
3.0 - 427.0	78	4.0	<.005									

rm No. 604-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

409' - 32°

HOLE No. 82-2 DATE BEGAN Feb.19,1982 DATE COMPLETED Feb. 21,1982

AREA GERALDTON PROJECT No. DEPTH 409.0'

CLAIM TB 10610 CO-ORD 84 + 00E HORIZONTAL LENGTH

GRID MAIN 17+37N BLO+00 DIRECTION O

SHEET No. CORE SIZE AQ ELEVATION ANGLE -45°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
11.0 - 16.0	12501	5.0	<.005									
16.0 - 21.0	02	5.0	<.005									
21.0 - 26.0	03	5.0	<.005									
26.0 - 31.0	04	5.0	<.005									
32.0 - 36.0	05	4.0	<.005									31 - 32 1' ground
36.0 - 41.0	06	5.0	<.005									
41.0 - 46.0	07	5.0	<.005									
46.0 - 51.0	08	5.0	<.005									
51.0 - 56.0	09	5.0	<.005									
56.0 - 61.0	12510	5.0	<.005									
.0-63.0+68.0-												
71.0	11	5.0	<.005									
63.0 - 68.0	12	5.0	<.005									
71.0 - 76.0	13	5.0	<.005									
76.0 - 81.0	14	5.0	<.005									
81.0 - 86.0	15	5.0	<.005									86.0 - 90.0 4' ground
90.0 - 95.0	16	5.0	<.005									
95.0 - 100.0	17	5.0	<.005									
00.0 - 105.0	18	5.0	<.005									
05.0 - 110.0	19	5.0	<.005									
10.0 - 115.0	12520	5.0	<.005									
15.0 - 120.0	21	5.0	<.005									
20.0 - 125.0	22	5.0	<.005									
25.0 - 130.0	23	5.0	<.005									
30.0 - 135.0	24	5.0	<.005									
35.0 - 140.0	25	5.0	<.005									
40.0 - 145.0	26	5.0	<.005									
45.0 - 150.0	27	5.0	<.005									
50.0 - 155.0	28	5.0	<.005									
55.0 - 160.0	29	5.0	<.005									
60.0 - 165.0	12530	5.0	<.005									
65.0 - 170.0	31	5.0	<.005									

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

OLE No. 82-2 DATE BEGAN ..... DATE COMPLETED .....

REA ..... PROJECT No. ..... DEPTH .....

AIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

RID ..... DIRECTION .....

HEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
70.0 - 175.0	12532	5.0	<.005									
75.0 - 180.0	33	5.0	<.005									
80.0 - 185.0	34	5.0	<.005									
85.0 - 190.0	35	5.0	<.005									
90.0 - 195.0	36	5.0	<.005									
95.0 - 200.0	37	5.0	<.005									
00.0 - 205.0	38	5.0	<.005									
05.0 - 210.0	39	5.0	<.005									
10.0 - 215.0	12540	5.0	<.005									
15.0 - 220.0	41	5.0	<.005									
20.0 - 225.0	42	5.0	<.005									
25.0 - 230.0	43	5.0	<.005									
30.0 - 235.0	44	5.0	<.005									
35.0 - 240.0	45	5.0	<.005									
40.0 - 245.0	46	5.0	<.005									
45.0 - 250.0	47	5.0	<.005									
50.0 - 255.0	48	5.0	<.005									
55.0 - 260.0	49	5.0	<.005									
60.0 - 265.0	12550	5.0	<.005									
65.0 - 270.0	51	5.0	<.005									
70.0 - 275.0	52	5.0	<.005									
75.0 - 280.0	53	5.0	<.005									
80.0 - 285.0	54	5.0	<.005									
85.0 - 290.0	55	5.0	<.005									
90.0 - 295.0	56	5.0	<.005									
95.0 - 300.0	57	5.0	<.005									
00.0 - 305.0	58	5.0	<.005									
05.0 - 310.0	59	5.0	<.005									
10.0 - 315.0	12560	5.0	<.005									
15.0 - 320.0	61	5.0	<.005									
20.0 - 325.0	62	5.0	<.005									
25.0 - 330.0	63	5.0	<.005									

rm No. 604-R1-2500-11-79-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

OLE No. 82-2 DATE BEGAN ..... DATE COMPLETED .....

REA ..... PROJECT No. ..... DEPTH .....

AIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

UD ..... DIRECTION .....

EET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
30.0 - 335.0	12564	5.0	<.005									
35.0 - 340.0	65	5.0	<.005									
40.0 - 345.0	66	5.0	<.005									
45.0 - 350.0	67	5.0	.007									
50.0 - 355.0	68	5.0	<.005									
55.0 - 360.0	69	5.0	<.005									
60.0 - 365.0	12570	5.0	<.005									
65.0 - 370.0	71	5.0	<.005									
70.0 - 375.0	72	5.0	<.005									
75.0 - 380.0	73	5.0	<.005									
80.0 - 385.0	74	5.0	<.005									
85.0 - 390.0	75	5.0	<.005									
90.0 - 395.0	76	5.0	<.005									
95.0 - 400.0	77	5.0	<.005									
00.0 - 405.0	78	5.0	<.005									
05.0 - 409.0	79	4.0	<.005									

rm No. 804-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

OLE No. 82-3 DATE BEGAN Feb.22/1982 DATE COMPLETED Feb.25/1982

REA GERALDTON PROJECT No. DEPTH 406.0'

AIM TB 1638 CO-ORD 84 + OOE HORIZONTAL LENGTH

RID MAIN 20 + OO N BLO + OO DIRECTION O°

HEET No. CORE SIZE AQ ELEVATION ANGLE - 45°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
1'10"- 54.0	12580	2'2"	<.005									
9'10"-61'8.5	81	1'10½"	<.005									
7'6"- 68'11"	82	1'5"	<.005									
2'9"- 85'1"	83	2'4"	<.005									
'5½"- 91'9"	84	1'3½"	<.005									
'3"-101'6½"	85	3'3½"	.011									
9'10"-111'0	86	1'2"	<.005									
5'9"-116'3"	87	6"	<.005									
9.0'-120'3"	88	1'3"	.033									
3'10"-126'10"	89	3.0	<.005									
7'9"-131'4"	12590	3'7"	<.005									
2.0'-132'8"	91	8"	<.005									
3.5 -138.5	12755	5.0	<.005									
4.0 - 144'9"	12592	9"	<.005									
1.5 -154.0	12710	2.5	<.005									
4.0 -157.75	12711	3.75	<.005									
7'9"-161'2"	12593	3'5"	.005									
6.0 -171.0	12594	5.0	<.005									
5.0 -176'6"	12595	1'6"	<.005									
0.0 -181'9"	12596	1'9"	<.005									
3.0 -189.0	12712	6.0	<.005									
9.0 -190.0	12597	1.0	<.005									
0.0 -196.0	12713	5.5	<.005									- excluding 192'10" - 193'4"
2'10"-193'4"	12598	6"	<.005									
6' -196'8"	12599	8"	<.005									
6'8"-202.0	12714	5'4"	<.005									
2.0-207.0	12715	5.0	<.005									
7.0 -212.0	12716	5.0	<.005									
2.0 -213'8"	12717	1'8"	<.005									
3'8"-214'3"	12600	7"	<.005									
4.25-220.0	12718	5.75	<.005									
0.0-221.0	12601	1.0	<.005									

rm No. 804-R1-2500-11-79-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

OLE No. 82-4 DATE BEGAN Feb. 28/1982 DATE COMPLETED Mar.2/1982

REA GERALDTON PROJECT No. DEPTH 365.0'

AIM TB 1638 CO-ORD 84+00E HORIZONTAL LENGTH

ID MAIN 25+50N BLO+00 DIRECTION 0°

HEET No. CORE SIZE AQ ELEVATION ANGLE - 45°

CORRECTED DIP TESTS

325' - 36°

)

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
4'4"- 15'4"	12615	1.0	<.005									
9.0 - 20.0	12616	1.0	<.005									
2.0 - 33.0	12617	1.0	<.005									
4.0 - 57.0	12692	3.0	<.005									
7.0 - 58.0	12618	1.0	.119									
8.0 - 59'8"	12632	1'8"	.014									
9'8"- 61'8"	12619	2.0	<.005									
1'8"- 65.0	12693	3'4"	<.005									
5.0 - 66.0	12620	1.0	<.005									
7.0 - 68.0	12621	1.0	.005									
1.0 - 75.0	12622	4.0	<.005									
5.0 - 78.0	12623	3.0	<.005									
5.0 - 97.0	12624	2.0	<.005									
1.0 -133.0	12694	2.0	<.005									
3.0 -134.0	12625	1.0	.036									
4.0 -135'8"	12695	1'8"	<.005									
5'8"-136'6"	12626	10"	<.005									
1.0 -172.0	12627	1.0	<.005									
8.0 -211.0	12696	3.0	<.005									
8'10"-229'6"	12628	8"	.065									
5'6"-247'6"	12633	2.0	<.005									
7'6"-248'2"	12629	8"	<.005									
8'2"-248'5"	12630	3"	1.67									
8'5"-250'6"	12634	2'1"	<.005									
0.5'-253.0	12697	2.5	<.005									
5.5'-270.5	12698	5.0	<.005									
8.0'-278'6"	12631	6"	<.005									
3.0 -288.0	12635	5.0	<.005									
8.0 -289.0	12636	1.0	.015									
9.0 -294.0	12637	5.0	.018									
4.0 -299.0	12638	5.0	.011									
9.0 -304.0	12639	5.0	<.005									

rm No. 804-R1-2500-11-78-RP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

)LE No. 82-3 DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

AIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GID ..... DIRECTION .....

HEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
1.0 -226.0	12719	5.0	<.005									
6.0 - 228.5	12720	2.5	<.005									
8.5 -233.75	12721	5.25	<.005									
9.0 -240.0	12602	1.0	<.005									
1.0 -242.0	12603	1.0	<.005									
5.0 -245'8"	12604	8"	<.005									
1.0 -253.0	12605	2.0	<.005									
5.0 -257.0	12606	2.0	<.005									
3.0 -268.0	12607	5.0	<.005									
9'6"-271.0	12608	1'6"	<.005									
5.0 -276.0	12609	1.0	<.005									
7.0 -278.0	12610	1.0	<.005									
2'6"-313.0'	12611	6"	<.005									
5'0-327'4"	12612	2'4"	<.005									
9.0 -331.0	12613	2.0'	<.005									
2.0 -332'8"	12614	8"	<.005									

rm No. 504-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

82-4

OLE No. ..... DATE BEGAN ..... DATE COMPLETED .....

REA ..... PROJECT No. ..... DEPTH .....

AIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

RID ..... DIRECTION .....

HEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
4.0 -306'10"	12640	2'10"	.014									
6'10"-308'9"	12641	1'11"	.076									
8'9"-314.0	12642	5'3"	<.005									
4.0 -316'4"	12699	2'4"	<.005									
6'4"-316'8"	12643	4"	.005									
6'8"-321.0	12700	4'4"	<.005									
1.0 -326.0	12701	5.0	<.005									
6.0 -331.0	12702	5.0	<.005									
1.0 -336.0	12703	5.0	.005									
6.0 -341.0	12704	5.0	<.005									
1.0 -346.0	12705	5.0	<.005									
6.0 -350.5	12706	5.0	<.005									
0.5 -355.5	12644	5.0	.008									
5.5 -356.25	12645	0.75	.007									
6.25-360.0	12707	3.75	<.005									
0.0 -362.0	12708	2.0	<.005									
2.0 -363.0	12646	1.0	.005									
3.0 -365.0	12709	2.0	<.005									

rm No. 804-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

HOLE No. 82-5 DATE BEGAN Mar. 12,1982 DATE COMPLETED Mar.15,1982

AREA GERALDTON PROJECT No. DEPTH 349'

CLAIM TB 10606 CO-ORD 160_00E HORIZONTAL LENGTH

GRID ELLIS 9+005 T.L.25N DIRECTION North

SHEET No. CORE SIZE AQ ELEVATION ANGLE -45°

349' - 39.5°

Resident Geologist.

DEPTH	NUMBER	WIDTH	ASSAY AU	AG	CU	ZN	AVERAGES WIDTH	AU	AG	CU	ZN	REMARKS
			oz/ton									
2.5 - 127.5	12722	5.0	<.005									
3.5 - 138.5	23	5.0	<.005									
9.5 - 142.5	24	3.0	<.005									
2.0 - 153.0	25	1.0	<.005									
6.3 - 170.0	26	3.7	<.005									
0.0 - 173.0	27	3.0	<.005									
3.0 - 178.0	28	5.0	<.005									
8.0 - 183.0	29	5.0	<.005									
3.0 - 186.0	12730	3.0	<.005									
6.0 - 191.0	31	5.0	<.005									
1.0 - 196.0	32	5.0	<.005									
6.0 - 198.0	33	2.0	<.005									
5.5 - 209.0	34	3.5	<.005									
0.0 - 223.0	35	3.0	<.005									
3.0 - 228.0	36	5.0	<.005									
6.5 - 248.0	37	1.5	<.005									
0.0 - 271.0	38	1.0	<.005									
5.0 - 280.0	39	5.0	<.005									
0.0 - 285.0	12740	5.0	<.005									
5.0 - 290.0	41	5.0	<.005									
0.0 - 295.0	42	5.0	<.005									
5.0 - 300.0	43	5.0	<.005									
0.0 - 305.0	44	5.0	<.005									
5.0 - 310.0	45	5.0	<.005									
0.0 - 315.0	46	5.0	.006									
5.0 - 320.0	47	5.0	<.005									
0.0 - 323.4	48	3.4	<.005									
3.4 - 326.0	49	2.6	<.005									
6.0 - 331.0	12750	5.0	<.005									
1.0 - 336.0	51	5.0	<.005									
6.0 - 341.0	52	5.0	<.005									
1.0 - 346.0	53	5.0	<.005									

Form No. 804-R1-2500-11-78-GP

TOMBILL MINES LIMITED

DIAMOND DRILL RECORD

CORRECTED DIP TESTS

82-5

HOLE No. ..... DATE BEGAN ..... DATE COMPLETED .....

AREA ..... PROJECT No. ..... DEPTH .....

CLAIM ..... CO-ORD ..... HORIZONTAL LENGTH .....

GRID ..... DIRECTION .....

SHEET No. ..... CORE SIZE ..... ELEVATION ..... ANGLE .....

Resident Geologist.

DEPTH	NUMBER	ASSAY WIDTH	ASSAY AU	ASSAY AG	ASSAY CU	ASSAY ZN	AVERAGES WIDTH	AVERAGES AU	AVERAGES AG	AVERAGES CU	AVERAGES ZN	REMARKS
			oz/ton									
6.0 - 349.0	12754	3.0	<.005									

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-1 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION 0° DEPTH 507.0'

CLAIM TB 10857 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION S. SHORE KENOGAMISIS L. 3 + 50N BLO + 00

STARTED March 5/1982 FINISHED March 10, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY G. DOUGLAS

FROM	TO	DESCRIPTION
0.0'	5.0'	Casing
5.0'	55.0'	Greywacke, fine grained, medium to dark grey in colour, well foliated, traces disseminated pyrite, quartz and quartz-carbonate stringers. 19.4 - 19.5 quartz stringer @ C.A. 45° 26.25 - 26.40 quartz vein, limonite at L.C. 49.25 - 50.0 Augen gneiss, quartz augen envelopped by biotite, foliation at 55° quartz carbonite stringers
55'	276.5	Greywacke becomes slightly chloritic - light greyish green in colour - pyrite more abundant. 55 - 62 limonite alteration along planes of schistosity 73.4 - 73.65 3" quartz vein hosting bands and lenses of chlorite, sheared, trace disseminated pyrite and pyrrhotite 82.0 - 87.0 6 quartz stringers and veins almost barren of sulphides - occasional specks pyrite 82.0 - 0.75" quartz stringer @ 60° 82.5 - 82.75 quartz vein @ 60° 83.1 - 0.75" quartz vein @ 60° 83.3 - 2.0" quartz vein @ 60° 83.75 - 0.5" quartz stringer @ 60° 86.25 - 86.5 quartz vein UC @ 30° LC @ 55° 94.0 quartz vein 1" 115 - 146 occasional quartz-orthoclase stringers, < 2 mm @ 40° - 60° 118.9 1" quartz vein - a few specks pyrrhotite @ U.C. 143.9 - 144.4 drag folded quartz veins, silicified quartz veins range from 1mm to 1 cm and are folded 164 - 169 traces disseminated pyrite, slightly drag folded 165.6- 5 mm quartz stringer, irregular contacts 165 - 175 medium grey green in colour 187, 187.5, 188.2 - 5 mm quartz stringers parallel to foliation (@ 35°) 197.1 - 197.6 silicified, trace disseminated pyrite

FROM	TO	DESCRIPTION
		198.25 - 198.5 silicified, trace disseminated pyrite 215.9 quartz stringer (5 mm) 217.1 quartzstringer (5 mm), speck chalcopyrite 217.9, 219.9, 220.4 -5 mm quartz stringers parallel to foliation (20° - 30°) 223.4 5 mm quartz stringers @ C.A. 80° 253.5 - 258.8 10% quartz veins and stringers, drag folded >1% pyrite in chloritic lenses and bands along contacts, silicified 268 2" banded chlorite - quartz vein, disseminated pyrite associated with chlorite
276.5	296	Greywacke, medium-dark grey in colour, fine grained, well foliated 286.0 - 295.5 10% quartz stringers, parallel to foliation (CA 60°) disseminated pyrite associated with chloritic sections
296.0	346.0	slightly chloritized greywacke 309.6 0.5" quartz stringer @ 35°, traces disseminated pyrite at contacts. 345.4 - 345.65 coarse grained quartz vein
346.0	507.0	Iron formation interbedded with chloritized greywacke, fine grained; greywacke is medium greenish black in colour. Quartz stringers and veins Iron formation of variable colour - magnetite bearing sections black, hematite occursnas. very dusky red purple bands or as specularite 346.1 - 356.0 medium iron formation, not conductive, slightly magnetic, well foliated with quartz stringers and bands of chloritic greywacke. Trace disseminated pyrite, occasional cubes pyrite to 1 mm. 356.0 - 362.25 several quartz stringers, ll foliation, very siliceous 363.0 - 364.5 Lean iron formation 374.0 - 376.5 ~ 10% quartz stringers 376 1.5 - 2.0 mm pyrite quartz stringer ~ 50% pyrite 384 - 417.5 heavy iron formation - mostly magnetite (< 10% hematite) occasional jasper pebbles, conductive section, quartz stringers parallel to foliation (65%). Short sections chloritic greywacke @ 398.75 - 399.75 400.6 - 401.6 403.25 - 404.3 406.8 - 408.4 413.1 - 414.6 384 - 389 quartz stringers ll foliation 386.0 2" drag folded quartz vein 417.5 - 433.75 short sections of magnetite to 5 mm in chloritic greywacke. 426.5 1.5" quartz vein, trace pyrite & arsenopyrite

FROM	TO	DESCRIPTION
		432.2 - 433.7 25% quartz vein in silicified greywacke 433.7 - 444.5 medium iron formation, mostly magnetite 446.3 - 447.3 Quartz-orthoclase-chlorite zone, drag folded 450.75 - 452.25 massive quartzite or sugary quartz vein 452.25 - 454.0 medium iron formation, magnetite and hematite in roughly equal proportions 458.8 - 485.5 lean to heavy iron formation, generally magnetite predominates 460.3 - 461.1 ± 30% quartz veins and stringers in chloritized zone 478.7 1" quartz vein 480.6 - 481.5 numerous quartz-chlorite veins and stringers. 485.5 - 507.0 occasional sections iron formation in chloritic greywacke. Iron formation at 487.1 - 487.35 491.0 - 491.2 501.0 - 501.1 503.1 - 503.2 504.0 - 504.1 505.2 - 505.4
507.0		END OF HOLE

CORE ANGLES

20.01'	55°
55.0'	55°
75.0'	60°
100.0'	54°
125.0'	56°
147.0'	52°
160.0'	40°
175.0'	35°
193.0'	40°
240.0'	40°
261.0'	45°
316.0'	55°
342.0'	50°
352.0'	55°
370.0'	50°
380.0'	55°
415.0'	55°
440.0'	60°
483.0'	60°
500.0'	65°

ACME MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-2 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION 0° DEPTH 409.0'

CLAIM TB 10610 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS 17 + 37 N BLO + 00

STARTED Feb.19/1982 FINISHED Feb.21/1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY D. BOUCHER

FROM	TO	DESCRIPTION
0	11	Overburden
11	46.7	Gwke graded bedding from fine gr. to clay size, med. gray to medium dark grey, bedding cycle 1' to 2' trace deseminated pyrite occasional qtz. carb. @ 60° @ 34.5' 2" qtz. carb. vein UC (Upper contact) 45° LC (Lower contact) 60° @ 31' cleav. 63° From 31' to 32' ground core @ 32.5' 1½" qtz. carb. V. tr. pyrite UC & LC 45°
46.7	117	Fine Grain Facies of Above (Gwke) @ 40'6" qtz. V. From 46'6" to 47'6" chlorite schist with 5 qtz. carb. V. tr. pyrite From 51'4" to 52'4" same as above @ 57'10" 3" qtz. carb. V. @ 59' cleav. 75° From 60'7" to 61'6" chlorite schist small qtz. Carb. V. 1" to 3" trace pyrite @ 103' cleavage 58° From 62'3" to 63'5" chlorite schist 1" qtz. carb.V. tr. pyrite From 65'9" to 66'5" chlorite schist 1" qtz. carb. V. From 68'1" to 70'0" chlorite schist 2 - 1" qtz. carb. V. trace pyrite. From 71'5" to 75'5" chlorite schist total 12" qtz. - carb. V. 3V app. 3" minor magnetite. From 78'0" to 79'8" chlorite schist 2 ½" qtz. carb. V. From 81'0 to 86'0 chlorite schist with 3" qtz. carb. V. and small (.2") qtz. carb. V. with minor pyrite. From 86'8" to 90'0 ground core From 100'0 to 113'7" chlorite schist with a total of 24" qtz. carb. V. from 3" to ¼" thick tr. pyrite (V. @ 45°).
117	145	Lean Iron Formation Interbedded Magnetite Rich gwke (1" to 12" thick) magnetic & conductive dark gray to black bands with light grey fine to V.F. grained gwke. Abundant small ¼" and minor 1" leococratic carb. Rich bands with minor sulphides < 20% magnetite rich bands FeO @ 144' 1-2" + 2 - ½" qtz. carb. V.

FROM	TO	DESCRIPTION
145	155	Medium Iron Formation 1" to 2'0 sections of grey medium grained gwke and black magnetite rich gwke with minor purple grey jasper up to 40% magnetite very magnetic and conductive.
155	173	Lean Iron Formation @ 156' cleavage @ 71° @ 165' 3-½" qtz. carb. V.
173	183	Medium Iron Formation @ 173' 1-6" qtz. carb. V.
183	232	Lean Iron Formation @ 200' 1-1½" qtz. carb. V. @ 205' 1-1½" qtz. carb. V. @ 198' cleavage 57° From 189' to 195' massive gwke no mag. From 209' to 217' massive gwke with flaser texture no mag. @ 217' cleavage 62° From 223' to 224'6" 5-½" to 1" qtz. carb. V. tr. pyrite @ 226'6" 1'1½ qtz. carb. V. @ 227'6" 1-1½ qtz. carb. V. trace pyrite @ 230' 1-3" qtz. carb. V.
232	276	Heavy Iron Formation Magnetite rich band with purple red jasper Very magnetic and very conductive app. 60% to 80% mag. Z & S and ptygmatic folds found throughout I.F. Minor pyrite in some sections From 252' to 253'6" qtz. carb. vein. @ 232' cleavage 67° @ 263' 1-1" qtz. V. From 274' to 275'6" chlorite schist heavily sheared with qtz. carb. V. & minor pyrite @ 275'6" 1-3" qtz. carb. vein @ 262' cleavage 59°
276	285	Lean Iron Formation Heavily sheared and abundant small ∠ 1" qtz. carb. V. tr. pyrite
285	366	Heavy Iron Formation @ 346'6" 1-1" qtz. carb. V. @ 317' cleavage 44° @ 336' cleavage 74° @ 316'6" 1-3" qtz. carb. V. @ 319' 1-3" qtz. carb. V. @ 364' 1-1" qtz. carb. V.

FROM	TO	DESCRIPTION
366	398	Medium Iron Formation @ 369'6" 1-1½" qtz. carb. V. minor pyrite @ 370' cleavage 81° @ 377' 1-3" qtz. carb. V. @ 378' 1-3" qtz. carb. V. @ 379' 2-1" qtz. carb. V. From 390'6" to 391'6" 4-1" to 1½" qtz. carb. V. From 392' to 393' 2-2" qtz. carb. V. minor pyrite.
398	409	Heavy Iron Formation @ 407' cleavage 81° @ 406' 1-2" qtz. carb. V. @ 407' 1-1" qtz. carb. V.
409		END OF HOLE

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82 - 3 | PROJECT NAME GERALDTON | MAP NO

ANGLE - 45° | DIRECTION 0° | DEPTH 406.0'

CLAIM TB 1638 | GRID MAIN | CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS | 20 + 00N BLO + 00

STARTED Feb. 22/1982 | FINISHED Feb. 25/1982 | CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING | LOGGED BY D. BOUCHER

FROM	TO	DESCRIPTION
0	51'	Overburden
51'	111'	Heavy Iron Formation @ 53' 1-1" qtz. carb. V. @ 54' 1-1" qtz. carb. V. From 60' to 61' 2-1"qtz. carb. V. @ 66' 75.0° cleavage @ 68' 2-1/2" qtz. carb. V. @ 76' tan brown quartzite speckled with mag. some light grey gravelly units. From 83' to 85' chlorite schist with 1-5" qtz. carb. Some specular hematite and abundant small < ¼" qtz. carb. stgs. @ 92' 1-½' qtz. carb. V. @ 96' 66.5° cleavage @ 98' 1-6" qtz. carb. V. with chlorite @ 99'4 UC (4") fine grain chlorite schist with deseminated chalco pyrite. @ 100' 1-7" quartz V. with Fe and Tr of pyrite. @ 105' LC (4') heavy iron with Tr pyrite @ 110' 1" qtz. vein with Tr. pyrite
111'	151'	Medium Iron Formation @ 118' 61.5° cleavage @ 118' 8"-1-6" qtz. V. with Tr pyrite and few blebs of pyrite (3) in with V. chlorite schist. @ 123'8" .75" - 1" qtz. V. with minor pyrite grains. @ 129' 1-1½" Heavy Fe band with (2 major) V. qtz. which contain Tr. pyrite within the V. @ 131' LC (2") heavy Fe band with thin V. quartz containing Tr. pyrite within the V. few pyrite crystals as specks are evident. @ 132'8" quartz carb. V. with Tr. pyrite and 1" possible calcite vein containing few small pyrite crystals perfectly shaped. @ 135'5" 1-1.75" qtz. carb. V. with Tr. pyrite. @ 138' 67° cleavage. @ 144'9" qtz. carb. V. with Tr. pyrite and ½" heavy Fe band.

FROM	TO	DESCRIPTION
151'	158'	Heavy Iron Formation 151'8" to 156'9" heavy iron banded with some carb and quartz (Red to purplish color characters the core). 157'9" heavy to medium Fe bands with qtz. carb. V. containing abundant blebs and specs of pyrite @ 154' 69° cleavage @ 158' thin < 1/8" band of pyrite.
158'	183'	Lean to Medium Iron Formation @ 158' to 161'2" UC (9") qtz. carb. V. with abundant pyrite LC (1.0') qtz. carb. V. Tr. pyrite and banded Heavy Fe. 159'8" qtz. carb. V. minor pyrite. @ 166'0 to 171'0 qtz. carb. V. with Tr. pyrite and 5-3" (appr.) bands heavy iron containing Tr. pyrite. From 174' to 179' 6 - ½" qtz. carb. V. abundant < 1/8" V.
183'	231'	Heavy Iron Formation @ 184' 71.5° cleavage @ 190' 1-3" qtz. carb. V. @ 193' 2-2" qtz. carb. V. with chlorite schist @ 196' 1/2" qtz. carb. V. @ 196'6" 1/2" qtz. carb. V. @ 193' same as above @ 205' 63° cleavage @ 214' 1-1" qtz. carb. V. @ 214'5" 2-1/2" qtz. carb. V. @ 220'7" 1-1" qtz. carb. V. @ 221' 79° cleavage
231'	275'	Medium Iron Formation @ 239'2" 1-1" qtz. carb. V. and chlorite schist @ 241'6" 1-2" qtz. carb. V. Tr. pyrite and chalcopyrite. @ 245'8" massive mag. Tr. pyrite @ 247' 3 < 1/8" pyrite band @ 249' 69° cleavage @ 250' small pyrite nodule From 251' to 253' 2-6" qtz. carb. V. @ 254' minor deseminated pyrite From 255' to 257' 2-3" qtz. carb. V. and massive mag. with minor pyrite. From 263' to 268' Tr. pyrite along bedding planes of massive mag. and 6 - 1/2" to 6" qtz. carb veins and ch lorite schist Tr. arseno. From 269'6" to 271' 2-1/2" and 1-3" qtz. carb. V. @ 271' deseminated pyrite in 1/8" qtz. V.
275'	282'	Lean Iron Formation Thin bedded greenish grey medium-fine grained gwke. grading to argillite minor magnetite sections

FROM	TO	DESCRIPTION
		@ 285' medium-coarse gr. gwke med. light grey striped. Streaked core with fine grain gwke units are cyclic.
		@ 275' 1-2" qtz. carb. V. in chlorite schist
		@ 277' 2-1/2" qtz. carb. V.
		@ 281' cleavage 71°
282'	322'	Medium-Dark Grey Gwke.
		@ 306' cleavage .70°
332'	396'	Massive Fine Grain Gwke with some sections with varved-like texture minor qtz. carb. stringers not mineralized.
396'	406'	Medium Grey Gwke with white streaks
		Lower section - lighter grey color with thin dark streaks.
		@ 356' cleavage 68°
		@ 386' cleavage 76°
		@ 402' cleavage 68°
406'		END OF HOLE

TOMBILL MINES LIMITED

DIAMOND DRILL LOG

HOLE NO 82-4 PROJECT NAME GERALDTON MAP NO

ANGLE -45° DIRECTION 0° DEPTH 365.0'

CLAIM TB 1638 GRID MAIN CO-ORDINATES 84 + 00E

LOCATION L. KENOGAMISIS 25 + 50N BLO + 00

STARTED Feb. 28, 1982 FINISHED March 2, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY D. BOUCHER

FROM	TO	DESCRIPTION
0	13'	Overburden
13'	36'	Medium to fine grain greenish grey massive gwke, trace pyrite From 14'4" to 15'4" minor pyrite in gwke and chlorite From 19' to 20' trace pyrite, qtz. V. ½" thick parallel to core 24' cleavage 43° From 32' to 33' trace pyrite in gwke and chlorite
36'	64'	Medium grained, medium to light grey gwke with white streaks, massive beds speckled with coarse magnetite crystals (weakly magnetic). From 57' to 58' 1-3" qtz. V. plus many small < 1/8" qtz. stringers, minor small bands of fine grain pyrite — conductive from 59'8" to 61'8" massive white qtz. (barren) at or near upper contact @ 43' cleavage 50°.
64'	72'	Very Lean Iron Formation Very fine grain gwke with purplish grey magnetic sections from 67' to 69' and from 70' to 72' abundant qtz V. at all angles with chloritic sections. From 65' to 66' 1-6" qtz. V. trace pyrite at or near contact. @ 70' cleavage 69°. From 67' to 68' purplish grey magnetic sections with coarse magnetite crystals and deseminated pyrite.
72'	101'	Medium grain gwke with graded bedding From 72' to 78' abundant qtz V. at all angles 60% qtz. carb with chloritic sections, tr. pyrite. From 95' to 97' bands of coarse magnetite crystals, deseminated pyrite parallel to core. @ 97' cleavage 32°.
101'	126'	Medium iron formation 6" - 3" bands of purplish grey magnetite rich gwke, some cross-bedding from iron formation interbedded with fine grain Gwke, tr. pyrite along some bedding planes minor very small < 1/8" qtz. V. @ 130' cleavage 48°.

FROM	TO	DESCRIPTION
126'	137'	Lean Iron Formation Fine to very fine grain gwke with 1" to 12" bands of magnetite rich gwke-some magnetite rich bands were folded and were subjected to brittle deformation e.g. @ 144' From 133' to 134' 1-1" qtz. V. and magnetite band with ¼" pyrite band and deseminated pyrite very conductive. From 135'8" to 136'8" 3 purplish grey magnetite bands with deseminated pyrite. From 137' to 144' massive fine grain gwke @ 144' 1-1/8" pyrite band. From 144' to 148' 4 magnetite rich bands. From 148' to 157' fine grain gwke with small (approx.) 1" magnetite bands @ 150' cleavage 42°.
157'	190'	Medium Iron Formation 6" to 2' magnetite rich bands in medium to fine grain gwke tr. pyrite along some bedding planes. From 171' to 172' magnetite band with minor pyrite at top. @ 182' 3" pink medium grain qtz. speckled with coarse magnetite crystals, @ 163' cleavage 57°.
190'	249'	Heavy Iron Formation Massive purplish grey magnetite rich bands and purple red jasper, minor dark grey very fine grain gwke-very magnetic and conductive, intensely folded minor brittle deformation From 228' 10" to 229' 6" 3-½"to ¼" qtz . stringers with 25% pyrite-@ 196' cleavage 53°, @ 212' cleavage 43° @ 248' minor pyrite stringers and qtz. V. with 60% pyrite Minor hematite along fractures
249'	289'	Medium Iron Formation 6" - 2' magnetite bands interbedded with fine grain gwke to medium grain gwke. @ 251'9" qtz V. with fragments of heavy iron formation in qtz. @ 254'3" qtz. V. tr. pyrite @ 262' 6" coarse grain gwke V. section flaser texture @ 265' 9" deformed qtz. V. parallel to core tr. pyrite @ 267' 10" 1-½" qtz. carb. V. @ 278' 7" intensely folded vasper bands minor pyrite along bedding planes. @ 284' 2-½" qtz. V. (Barren) From 287' 10" to 289' minor deseminated pyrite and thin bands along bedding planes and small blebs.2" in diameter.
289'	307'	Interbed coarse grain gwke with larger light colored clasts flattened out. The more silicious sections are fine grained with small 2" of emerald green chlorite or serpentine, abundant, small stringers < 2" total of (approx.) 25% qtz. Deseminated pyrite in some sections containing up to 1% sulphide.

FROM	TO	DESCRIPTION
307'	313'	Medium Iron Formation Thinly bedded < ½" bands of purple bed hematite and magnetite rich bands interbedded medium grained gwke and very fine grey gwke to argillite beds with whitish grey silicious beds-top 18" contains deseminated pyrite 1-6" Section contains up to 5% sulphide.
317'	358'	Coarse grain gwke gravelly texture, large clasts are flattened, minor black magnetite bands top part contain 3-½" qtz. stringer ∠ section interbedded medium grain gwke and medium iron formation. From 317' to 319'6" coarse grain greenish grey gwke 5 ∠ ¼" qtz. stringers tr. pyrite. From 319' 6" to 322' 4" fine to medium grey gwke tr. of pyrite 6 < 1" qtz. stringer barren. From 322' 4" to 349' medium to coarse grain gwke light to medium grey tr. pyrite 8 ∠ ½" barren qtz. stringer. From 349' to 356' 3" light grey green coarse grain gwke green speckles are flattened and stretched. From 356' to 358' medium and coarse grain gwke, medium grey.
358'	365'	Dark green grey chloritic unit with white calcareous flaser bands, minor pyrite in one section in a few small bands.
365'		END OF HOLE

DIAMOND DRILL LOG

HOLE NO 82-5 PROJECT NAME GERALDTON MAP NO

ANGLE - 45° DIRECTION .0° DEPTH 349.0'

CLAIM TB 10606 GRID ELLIS CO-ORDINATES 160 + 00E

LOCATION SOUTH OF OLD ARENA 9 + 00S T.L. 25 + 00N

STARTED March 12, 1982 FINISHED March 15, 1982 CORE SIZE AQ

DRILLED BY KENORA DIAMOND DRILLING LOGGED BY G. DOUGLAS

FROM	TO	DESCRIPTION
0	106.0'	Casing-fine sand, boulders.
106.0'	112.1'	Diorite, chloritized, sheared, med-crs grained, dark greenish black in color ~ 10% quartz stringers.
112.1	349.0	Fine grained chlorite schist, well foliated, medium to dark greenish black in colour, occasional quartz stringers and silicified zones. Banded iron formation 200.0- 316.3 in varying proportions.

123.1 0.5" quartz stringer @ CA 80°
126.3 1.0" quartz vein @ CA 35°, chlorite stringers, trace disseminated pyrite

133.5 - 142.5 10-15% sheared and drag folded quartz-chlorite veins, trace disseminated pyrite
136.5 - 139.5 core tube not locked, 1.0' ground.

152.0 - 152.9 quartz vein, chlorite stringers.
156.0 - 166.0 7.0' ground core - tube not locked
166.3 - 183.0 10-15% sheared and drag folded quartz stringers, silicified, traces pyrite
180.5 5" barren quartz vein @ CA 10° makes up 75% of the core
186.0 - 198.0 15% quartz stringers, sheared, drag folded, trace disseminated pyrite
198.0 - 199.0 ground core
199.0 - 200.0 mud seam - no core
200.0 - 205.4 medium to heavy banded iron formation (heavy 203.4 - 205.4)
207.25 - 208.5 15% quartz stringers, sheared, drag folded, trace disseminated pyrite
208.5 - 210.0 heavy banded iron formation - mostly magnetite
210.0 - 230.3 occasional magnetite bands to 4" in thickness
220.4 - 221.6 10% quartz stringers with chlorite stringers, trace disseminated pyrite
225.75 - 229.0 silicified
230.3 - 238.1 heavy banded iron formation, magnetite and hematite
238.1 - 239.7 chlorite schist

FROM	TO	DESCRIPTION
		239.7 - 246.5 heavy banded iron formation, magnetite and hematite
		246.5 - 248.0 some quartz veins in banded iron formations
		248.0 - 249.5 chlorite schist
		252.0 - 256.0 core tube did not lock, 3.5' ground core
		252.0 - 259.7. heavy banded iron formation, magnetite and hematite
		259.7 - 260.25 chlorite schist
		260.25 - 266.25 heavy banded iron formation, magnetite and hematite
		266.25 - 268.3 chlorite schist
		268.3 - 275.0 heavy banded iron formation, magnetite and hematite
		270.3 quartz vein, 2", trace pyrite
		275.0 - 349.0 short sections of iron formation in chlorite schist with weak quartz veins
		305.75 - 306.0 quartz vein
		311.5 - 316.3 heavy banded iron formation, magnetite and hematite
		323.4 - 325.7 sheared, quartz veins and lenses in chlorite schist
		331.0 - 336.0 1.0' ground core
349.0		END OF HOLE

CORE ANGLES

111.0'	30°
128.0'	35°
153.0'	40°
185.0'	40°
210.25'	45°
261.0'	45°
285.0'	42°
308.0'	40°
332.0'	38°

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

Attn: Donald Bouchur

REPORT No. T 9004

Inv.#18968

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12599	<0.005	12619	<0.005	12639	<0.005
12600	<0.005	12620	<0.005	12640	0.014
12601	<0.005	12621	0.005	12641	0.076
12602	<0.005	12622	<0.005	12642	<0.005
12603	<0.005	12623	<0.005	12643	0.005
12604	<0.005	12624	<0.005	12644	0.008
12605	<0.005	12625	0.036	12645	0.007
12606	<0.005	12626	<0.005	12646	0.005
12607	<0.005	12627	<0.005		
12608	<0.005	12628	0.065		
12609	<0.005	12629	<0.005		
12610	<0.005	12630	1.67		
12611	<0.005	12631	<0.005		
12612	<0.005	12632	0.014		
12613	<0.005	12633	<0.005		
12614	<0.005	12634	<0.005		
12615	<0.005	12635	<0.005		
12616	<0.005	12636	0.015		
12617	<0.005	12637	0.018		
12618	0.119	12638	0.011		

Samples, Pulps and Rejects discarded after two months

DATE March 15th, 1982 SIGNED _____

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Tombill Minws,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

Attn: Donald Boucher

REPORT No. T 9004

Inv.#18968

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12501	<0.005	12521	<0.005	12579	<0.005
12502	<0.005	12522	<0.005	12580	<0.005
12503	<0.005	12523	<0.005	12581	<0.005
12504	<0.005	12524	<0.005	12582	<0.005
12505	<0.005	12525	<0.005	12583	<0.005
12506	<0.005	12564	<0.005	12584	<0.005
12507	<0.005	12565	<0.005	12585	0.011
12508	<0.005	12566	<0.005	12586	<0.005
12509	<0.005	12567	0.007	12587	<0.005
12510	<0.005	12568	<0.005	12588	0.033
12511	<0.005	12569	<0.005	12589	<0.005
12512	<0.005	12570	<0.005	12590	<0.005
12513	<0.005	12571	<0.005	12591	<0.005
12514	<0.005	12572	<0.005	12592	<0.005
12515	<0.005	12573	<0.005	12593	0.005
12516	<0.005	12574	<0.005	12594	<0.005
12517	<0.005	12575	<0.005	12595	<0.005
12518	<0.005	12576	<0.005	12596	<0.005
12519	<0.005	12577	<0.005	12597	<0.005
12520	<0.005	12578	<0.005	12598	<0.005

RECEIVED
CORPORATE GEOLOGY
MAR 22 1982

FILE: .....

Samples. Pulps and Rejects discarded after two months

DATE March 15th, 1982 SIGNED .....

CTA

• CHEMICAL RESEARCH AND ANALYSIS
• CONTRACT LABORATORIES

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE: (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM: Tombil Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.

REPORT No. T 8997

Inv.#18945

SAMPLE(S) OF: DRILL CORE

Samples	Gold (Au)oz/ton	Samples	Gold (Au)oz/ton
12526	<0.005	12546	<0.005
12527	<0.005	12547	<0.005
12528	<0.005	12548	<0.005
12529	<0.005	12549	<0.005
12530	<0.005	12550	<0.005
12531	<0.005	12551	<0.005
12532	<0.005	12552	<0.005
12533	<0.005	12553	<0.005
12534	<0.005	12554	<0.005
12535	<0.005	12555	<0.005
12536	<0.005	12556	<0.005
12537	<0.005	12557	<0.005
12538	<0.005	12558	<0.005
12539	<0.005	12559	<0.005
12540	<0.005	12560	<0.005
12541	<0.005	12561	<0.005
12542	<0.005	12562	<0.005
12543	<0.005	12563	<0.005
12544	<0.005		
12545	<0.005		

18.3.82

Samples. Pulps and Rejects discarded after two months

DATE March 10th, 1982 SIGNED _____

CTA

TECHNICAL SERVICE LABORATORIES
DIVISION OF BONDAR TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No.
T 9680-1

Inv. #19070

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12647	<0.005	12667	<0.005
12648	<0.005	12668	0.005
12649	<0.005	12669	<0.005
12650	<0.005	12670	<0.005
12651	<0.005	12671	<0.005
12652	<0.005	12672	<0.005
12653	<0.005	12673	<0.005
12654	<0.005	12674	<0.005
12655	<0.005	12675	<0.005
12656	<0.005	12676	<0.005
12657	<0.005	12677	<0.005
12658	<0.005	12678	<0.005
12659	<0.005	12679	<0.005
12660	<0.005	12680	<0.005
12661	<0.005	12681	<0.005
12662	<0.005	12682	<0.005
12663	<0.005	12683	<0.005
12664	0.051	12684	<0.005
12665	0.008	12685	<0.005
12666	0.006	12686	<0.005

Sample Pulps and Rejects discarded after two months

FILE:

DATE March 26th, 1982 SIGNED

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No. T 9680-2

Inv. #19070

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12687	<0.005	12707	<0.005
12688	<0.005	12708	<0.005
12689	<0.005	12709	<0.005
12690	<0.005	12710	<0.005
12691	<0.005	12711	<0.005
12692	<0.005	12712	<0.005
12692	<0.005	12713	<0.005
12694	<0.005	12714	<0.005
12695	<0.005	12715	<0.005
12696	<0.005	12716	<0.005
12697	<0.005	12717	<0.005
12698	<0.005	12718	<0.005
12699	<0.005	12719	<0.005
12700	<0.005	12720	<0.005
12701	<0.005	12721	<0.005
12702	<0.005	12722	<0.005
12703	0.005	12723	<0.005
12704	<0.005	12724	<0.005
12705	<0.005	12725	<0.005
12706	<0.005	12726	<0.005

Samples Pulps and Rejects discarded after two months

FILE:

DATE March 26th, 1982 SIGNED

CTA

TECHNICAL SERVICE LABORATORIES
DIVISION OF BURGENER TECHNICAL ENTERPRISES LIMITED
1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2
TELEPHONE (416) 625-1544
TELEX 06-960215

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Tombill Mines,
Box 28,
Toronto Dominion Centre,
Toronto, Ont.
M4K 1B8

REPORT No. T 9580-3

Inv.#19070

SAMPLE(S) OF CORE

Samples	Fire Assay Gold (Au)oz/ton	Samples	Fire Assay Gold (Au)oz/ton
12727	<0.005	12748	<0.005
12728	<0.005	12749	<0.005
12729	<0.005	12750	<0.005
12730	<0.005	12751	<0.005
12731	<0.005	12752	<0.005
12732	<0.005	12753	<0.005
12733	<0.005	12754	<0.005
12734	<0.005	12755	<0.005
12735	<0.005		
12736	<0.005		
12737	<0.005		
12738	<0.005		
12739	<0.005		
12740	<0.005		
12741	<0.005		
12742	<0.005		
12743	<0.005		
12744	<0.005		
12745	<0.005		
12746	0.006		
12747	<0.005		

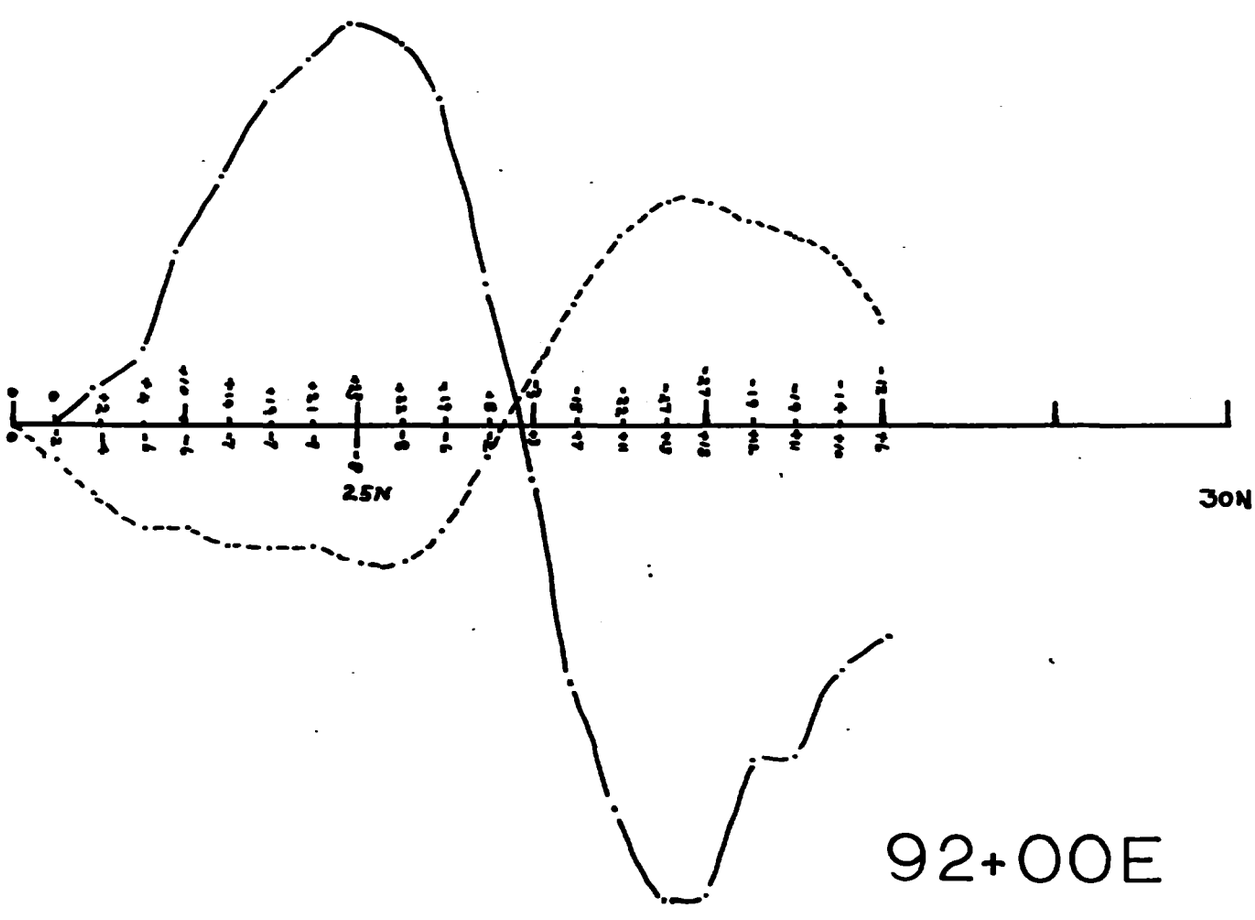
Samples, Pulps and Rejects discarded after two months

DATE March 25th, 1982 SIGNED

REPORT NO. GEL090 TIME 18124 STATEMENT NO. 55 NAME TOWBILL GOLD EXPLORATION JUL 12 1982 PAGE 87

HUSKY CORPORATE GEOLOGY EXPLORATIONS FOR THE PERIOD JUN 30 82

DESCRIPTION	THIS MONTH ACTUAL	THIS MONTH BUDGET	THIS MONTH VARIANCE	THIS MONTH % BUD	YEAR TO DATE ACTUAL	YEAR TO DATE BUDGET	YEAR TO DATE VARIANCE	YEAR TO DATE % BUD	LAST YTD ACTUAL
SALARIES	1,269	885	384	143.0	18,975	5,310	13,665	357.0	0
FRINGE BENEFITS	0	156	156-		0	936	936-		0
AUTOMOBILE GAS & OIL	0	0	0		0	0	0		0
AUTO MAINTENANCE	0	0	0		0	0	0		0
AUTOMOBILE PARKING	0	0	0		0	0	0		0
AUTO INSURANCE	0	0	0		0	0	0		0
AUTO LEASE	0	0	0		0	0	0		0
AUTO EMPLOYEE DEDUCTION	0	0	0		0	0	0		0
CONFERENCES	0	0	0		0	0	0		0
CONTINUING EDUCATION	0	0	0		0	0	0		0
LOCAL ENTERTAINMENT	0	50	50-		0	250	250-		0
LONG DISTANCE TELEPHONE	0	40	40-		439	250	189	175.0	0
MEMBERSHIPS	0	0	0		0	0	0		0
OFFICE SUPPLIES	0	0	0		14	250	235-	5.0	0
PUBLICATIONS	0	0	0		0	0	0		0
RECRUITING	0	0	0		0	0	0		0
TEMPORARY STAFF	0	250	250-		146	1,500	1,353-	9.0	0
TRAVELLING	0	300	300-		5,478	1,800	3,678	304.0	0
COMPUTER SERVICE	0	0	0		0	0	0		0
EQUIPMENT PURCHASE	0	0	0		203	0	203		0
EQUIPMENT RENTAL	0	90	90-		440	520	80-	84.0	0
GROUND PROSPECTING	0	290	290-		0	1,760	1,760-		0
AIRBORNE SURVEYS	0	0	0		0	0	0		0
CLAIM STAKING,PERMITS,ETC	0	0	0		10	0	10		0
DRILLING	0	580	580-		38,760	3,520	35,240	101.0	0
GROUND GEOPHYSICS	0	0	0		2,600	0	2,600		0
LINE CUTTING	0	400	400-		3,480	2,400	1,080	145.0	0
LAND SURVEYING	0	0	0		0	0	0		0
GEOCHEMICAL SURVEY	0	0	0		0	0	0		0
ASSAYING	659	125	534	527.0	671	750	79-	89.0	0
ANALYSES	0	125	125-		2,307	750	1,557	307.0	0
TRANSPORT-HELICOPTER	0	0	0		0	0	0		0
TRANSPORT-FUEL	0	0	0		0	0	0		0
TRANSPORT-FIXED WING	0	0	0		0	0	0		0
TRANSPORT-VEHICLE	0	165	165-		0	990	990-		0
TRANSPORT-AIR FREIGHT	12	0	12		122	0	122		0
CAMP COSTS	0	350	350-		200	1,900	1,700-	10.0	0
MISCELLANEOUS DIRECT	0	0	0		0	0	0		0
	1,941	3,796	1,855-	51.0	73,855	22,886	50,969	322.0	0
CORPORATE OFFICE SERVICE	0	0	0		0	0	0		0
COMPUTER IN-HOUSE	0	0	0		0	0	0		0
DEPARTMENT RESPONSIBILITY	1,941	3,796	1,855-	51.0	73,855	22,886	50,969	322.0	0



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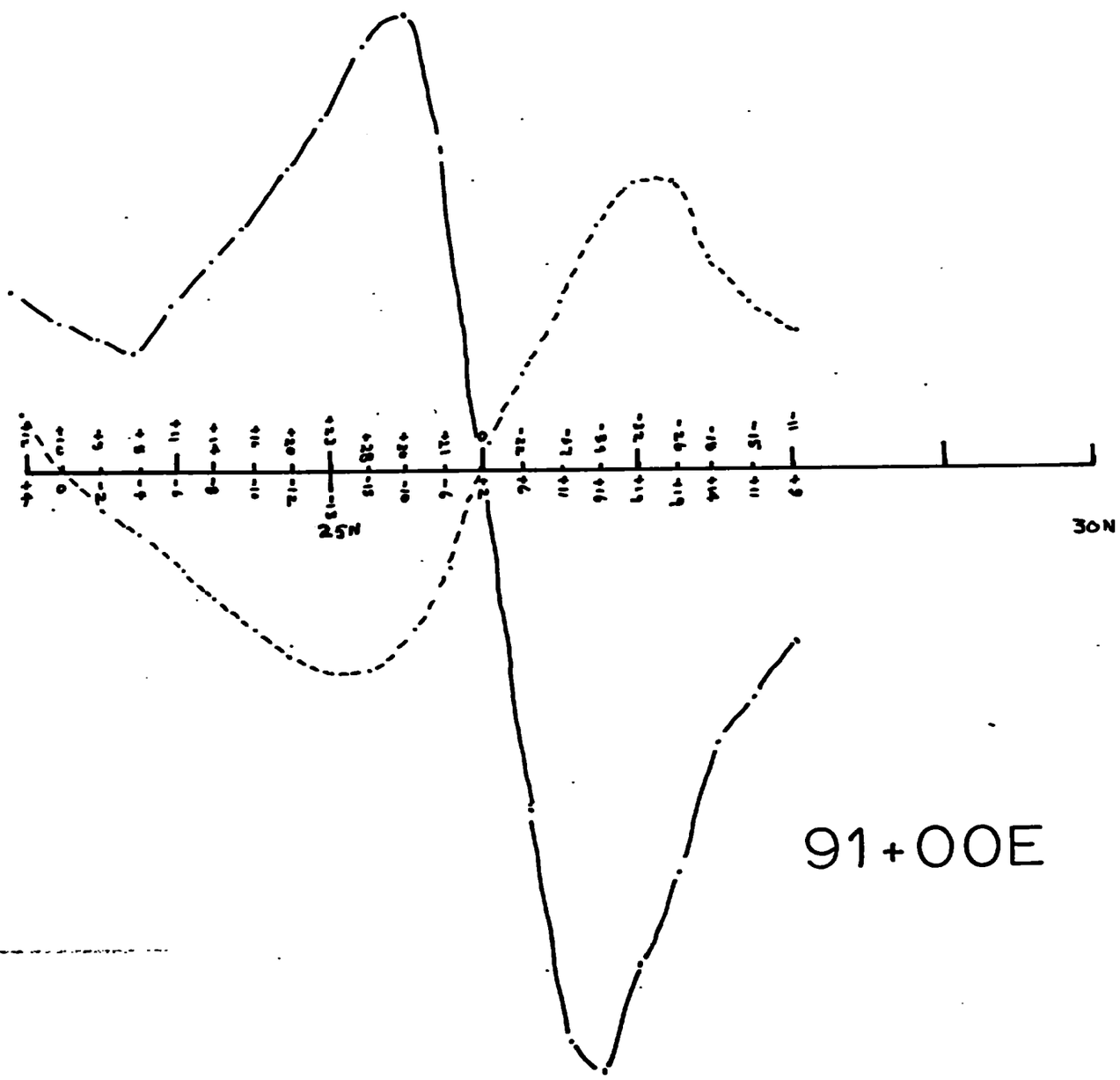

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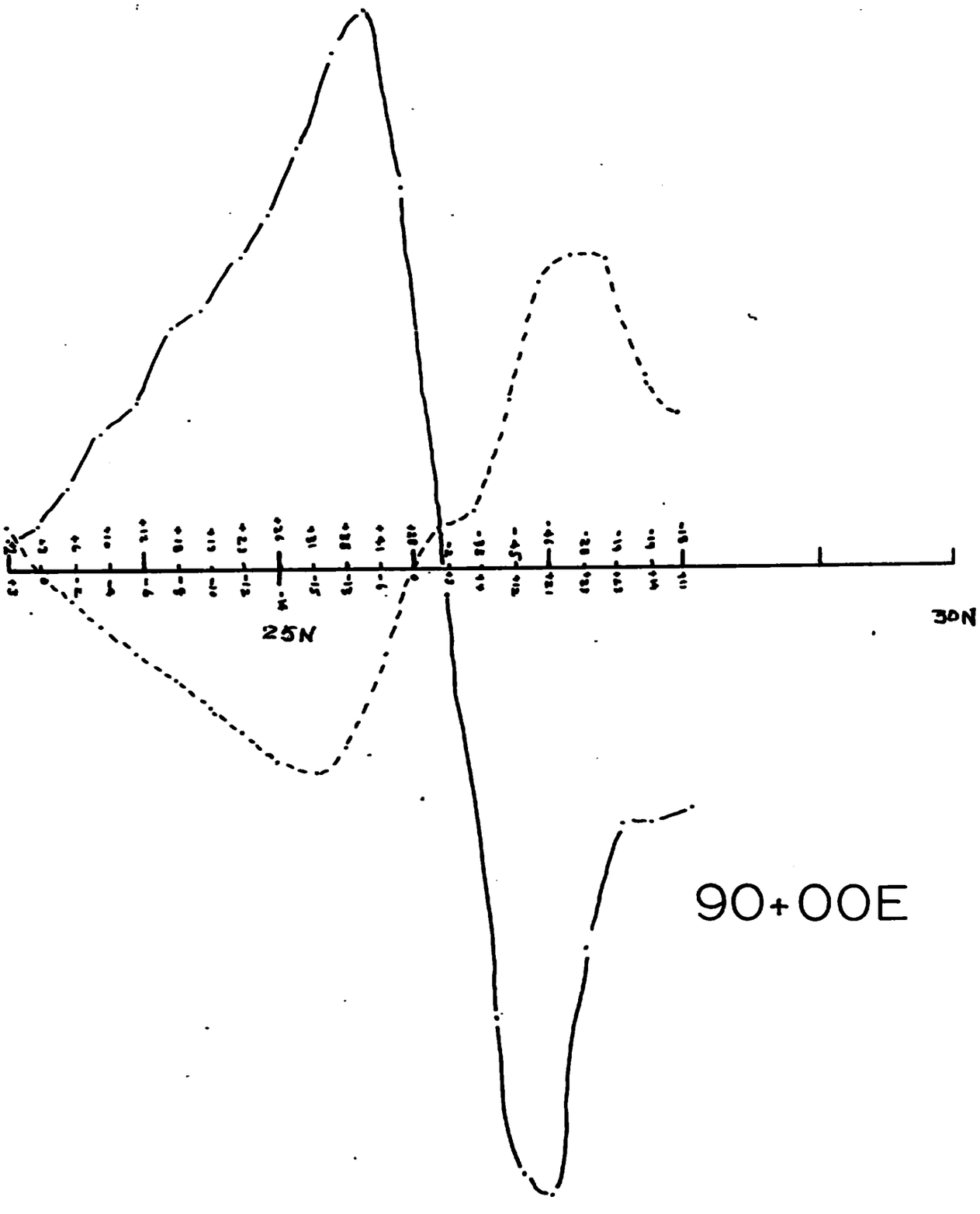
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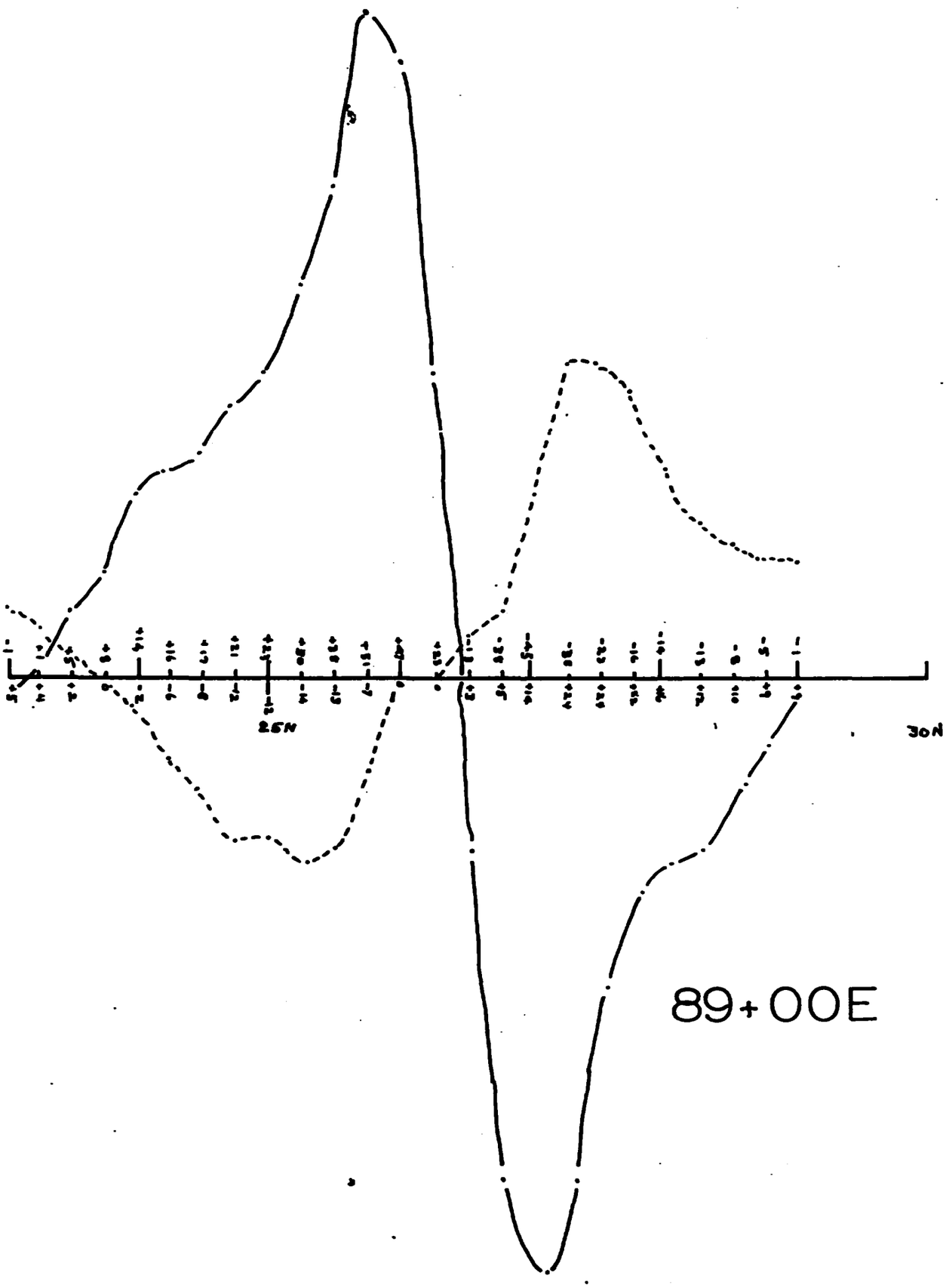
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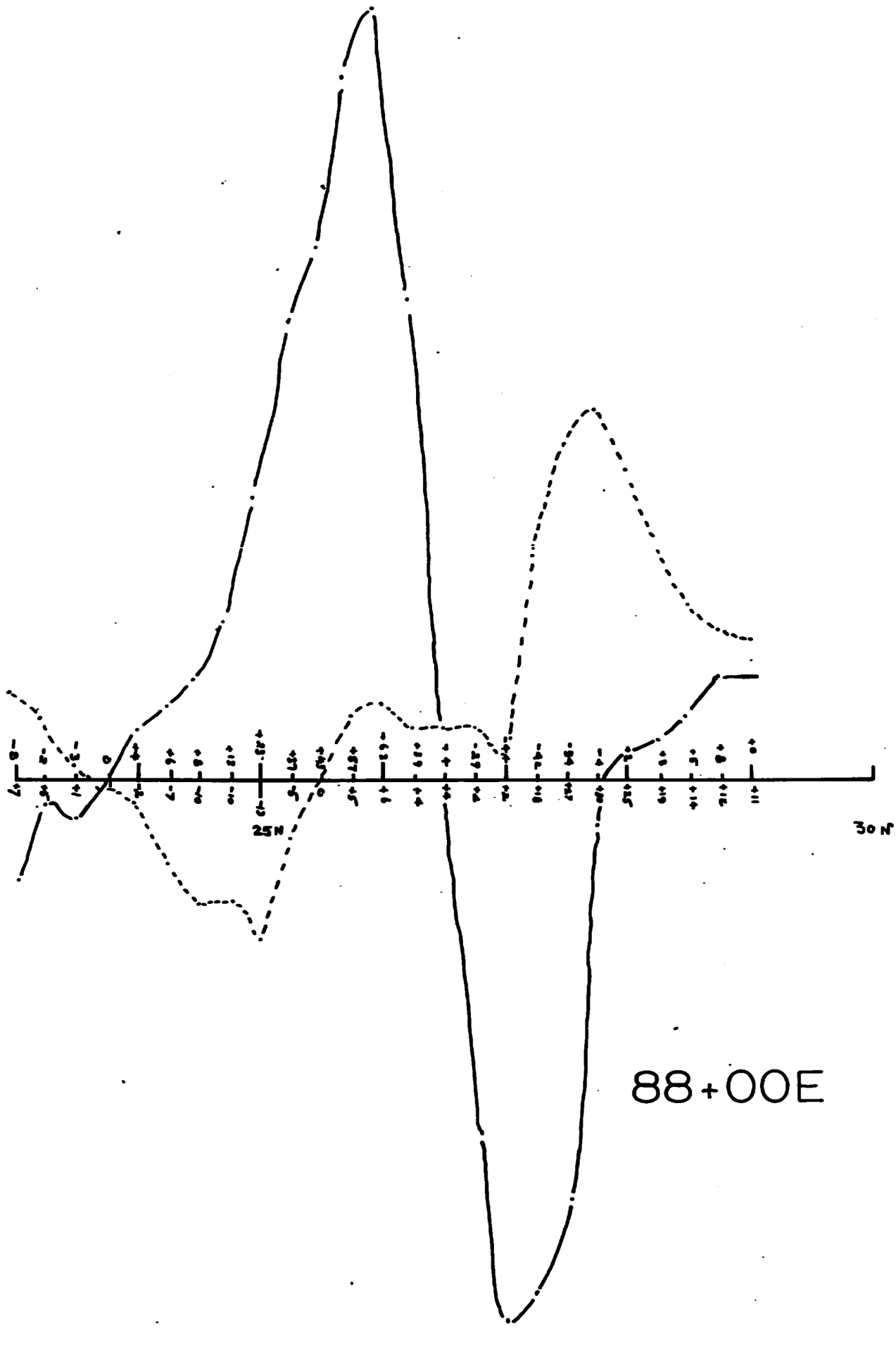
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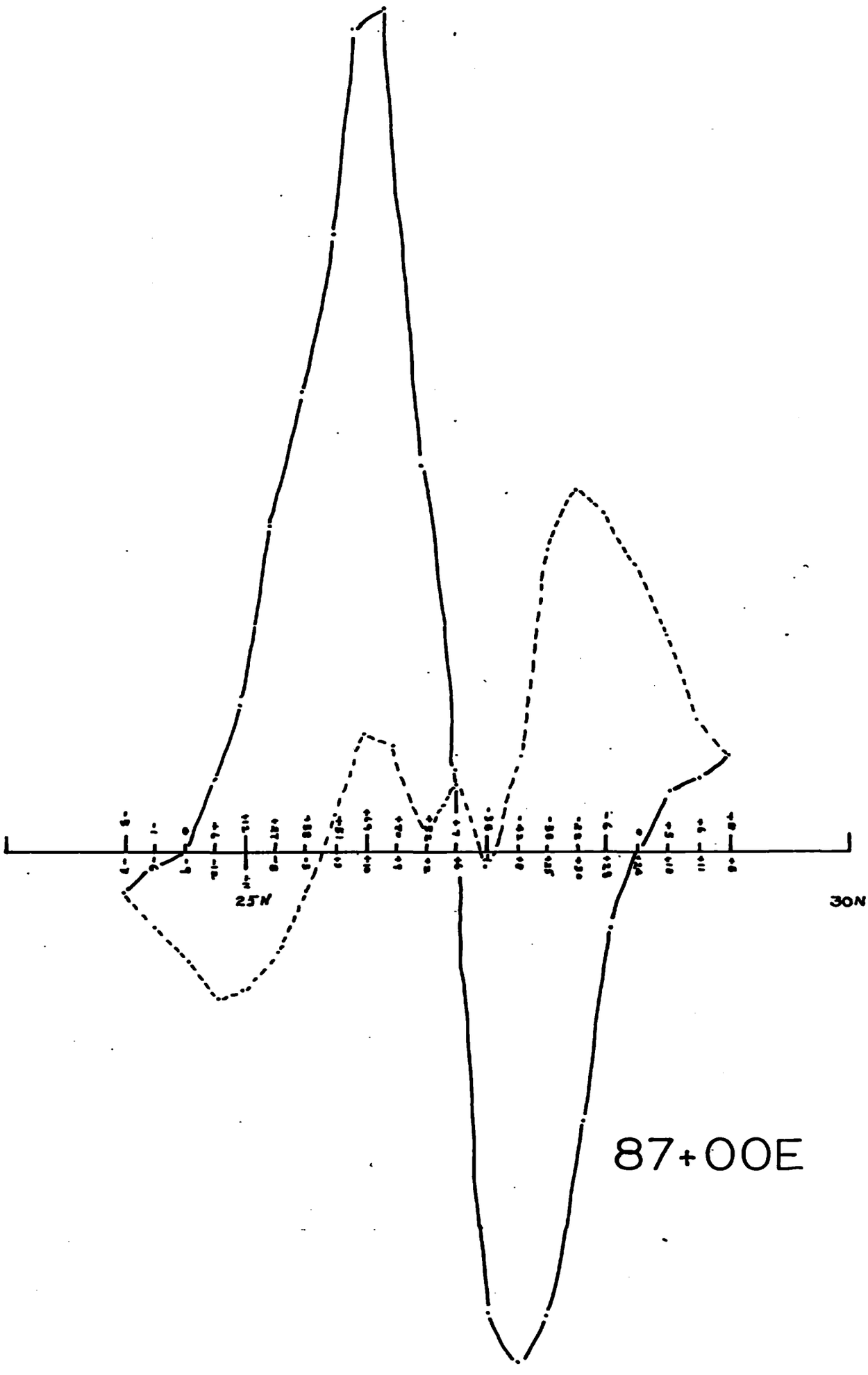
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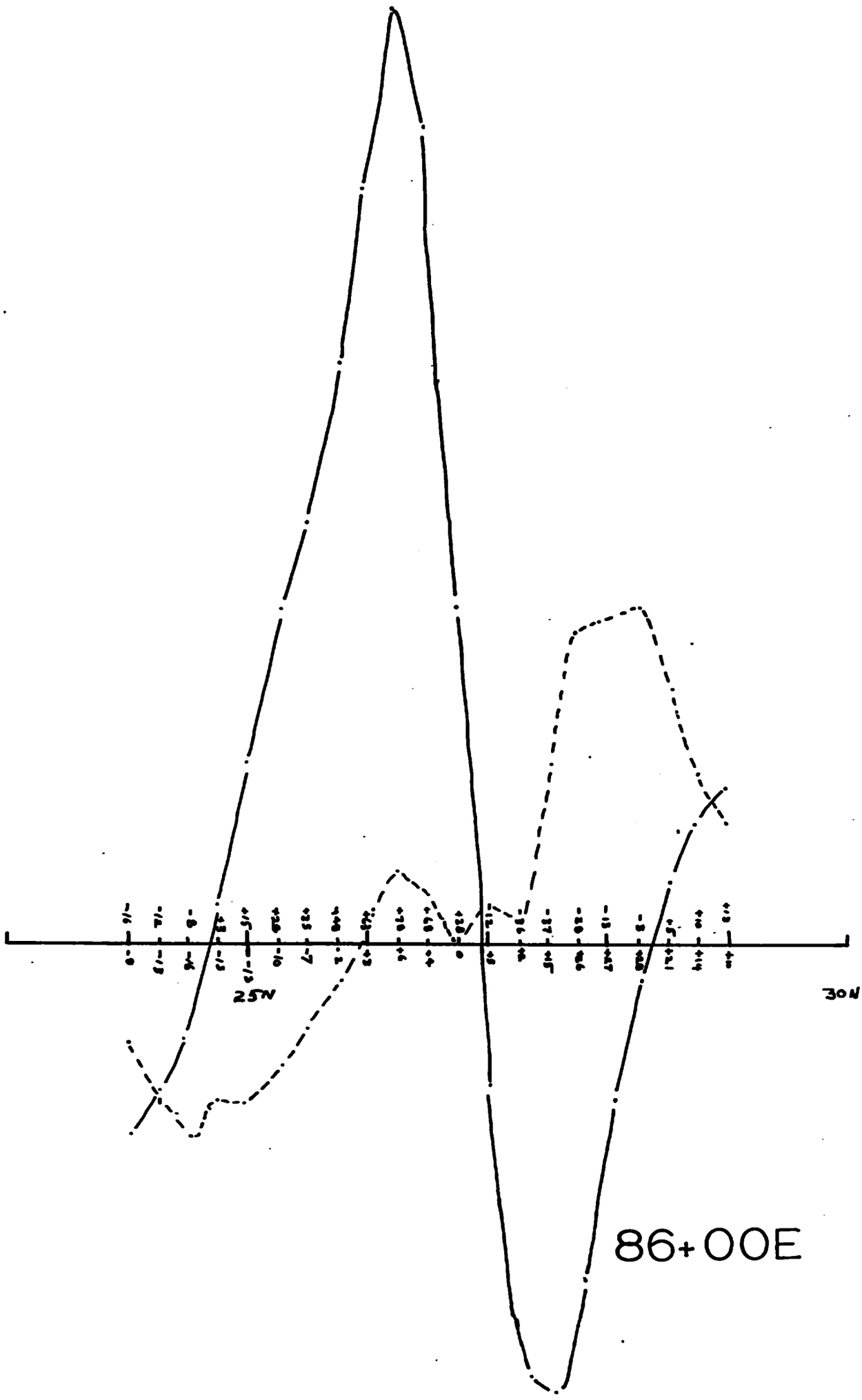
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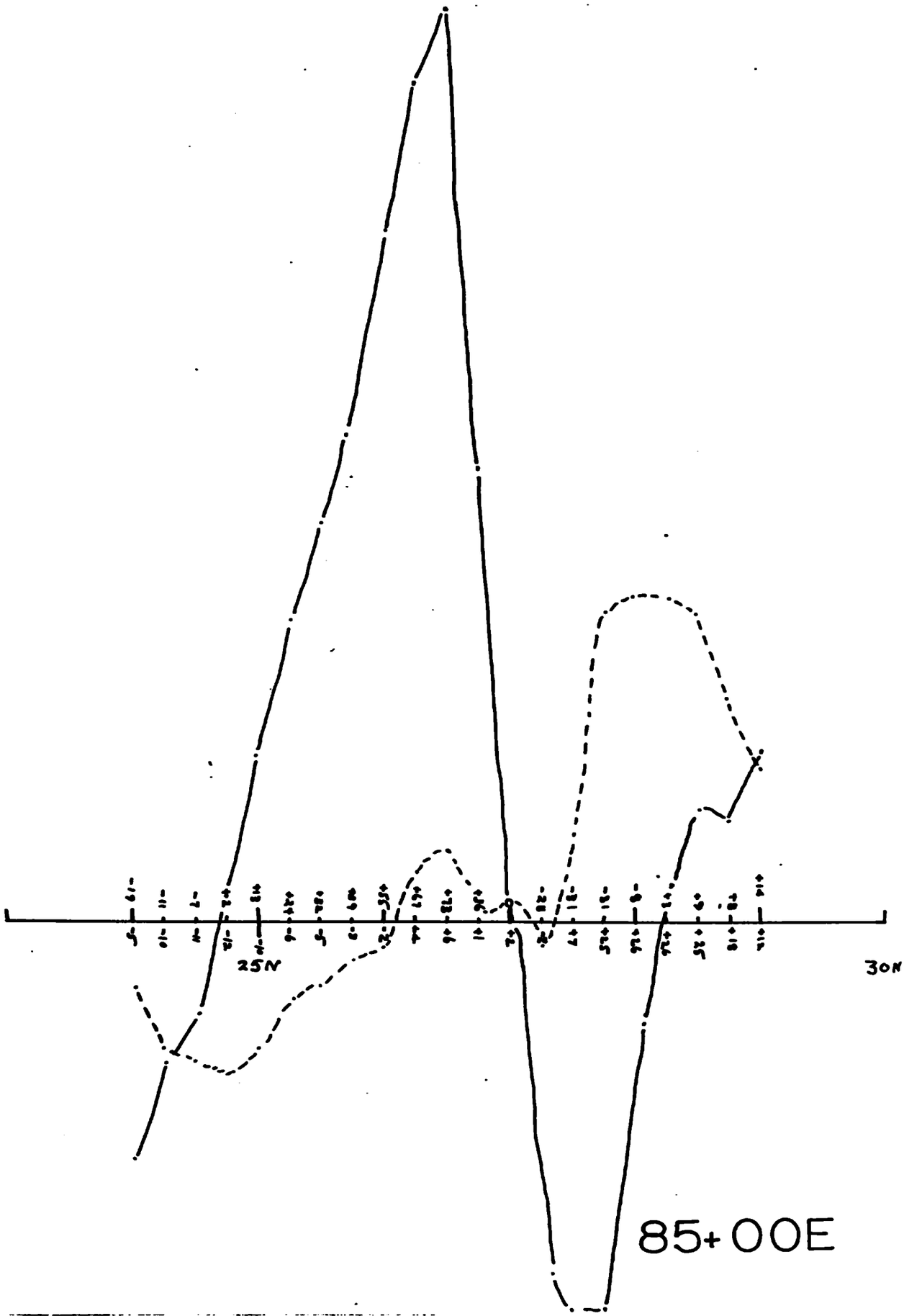
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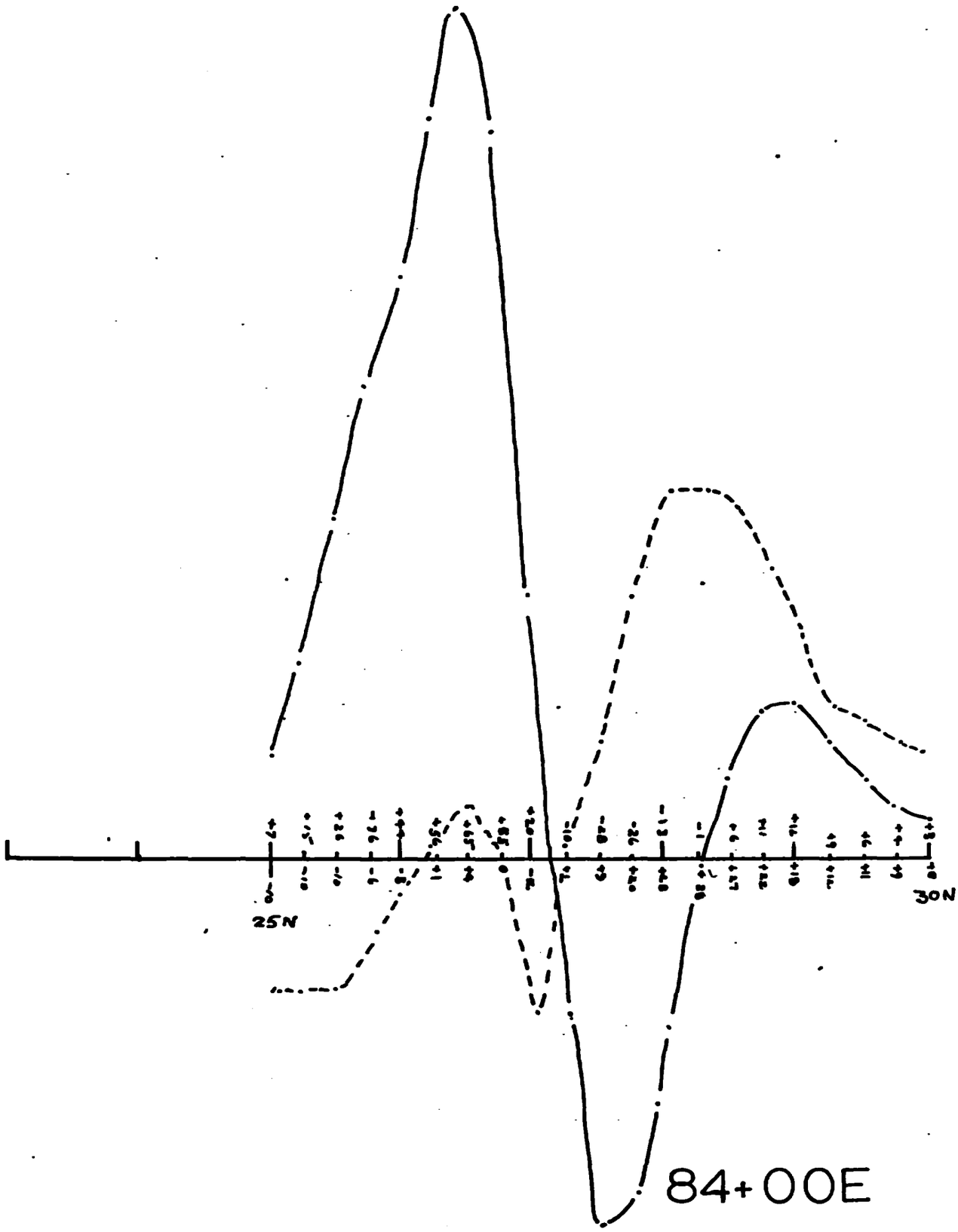
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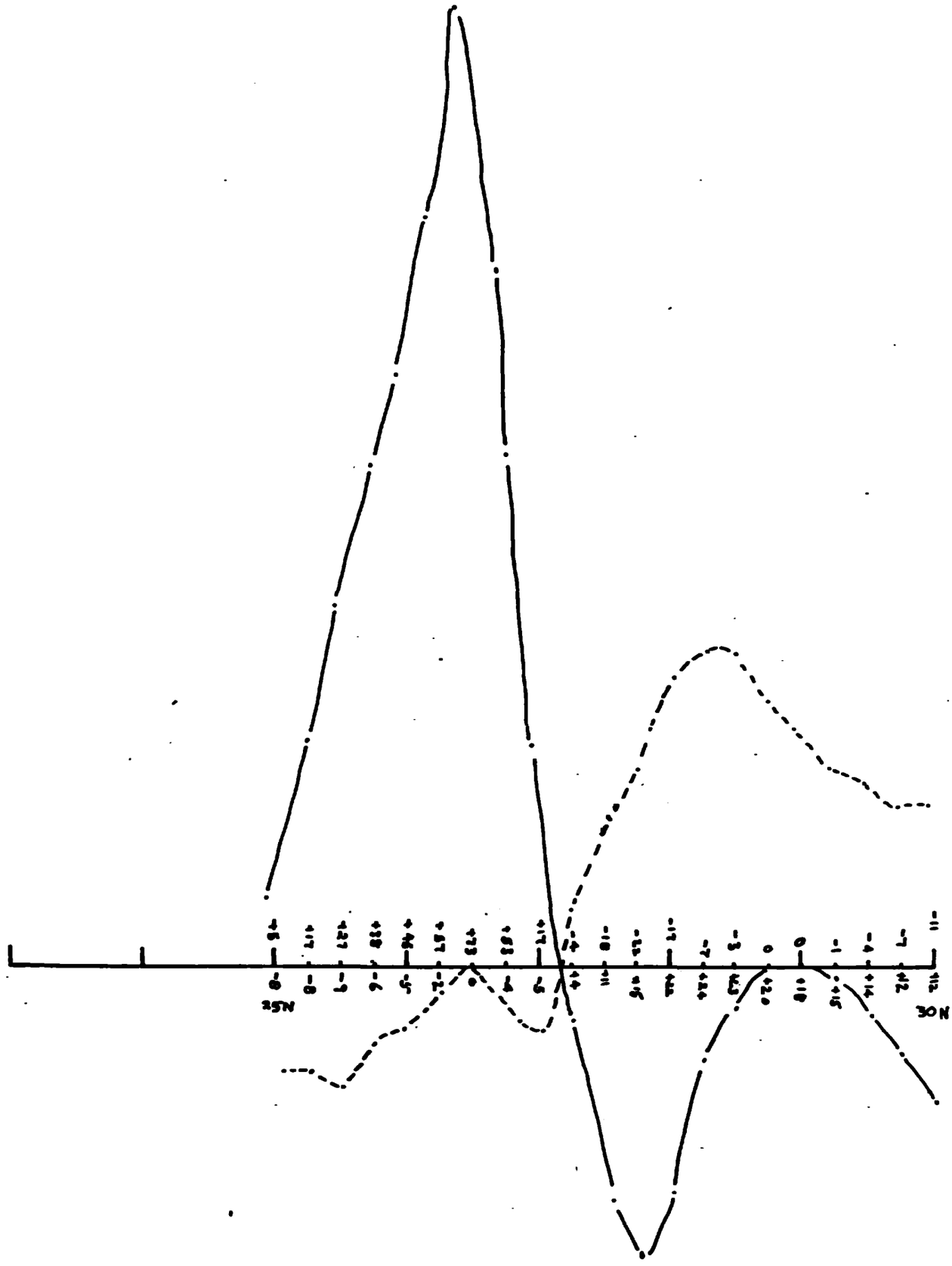

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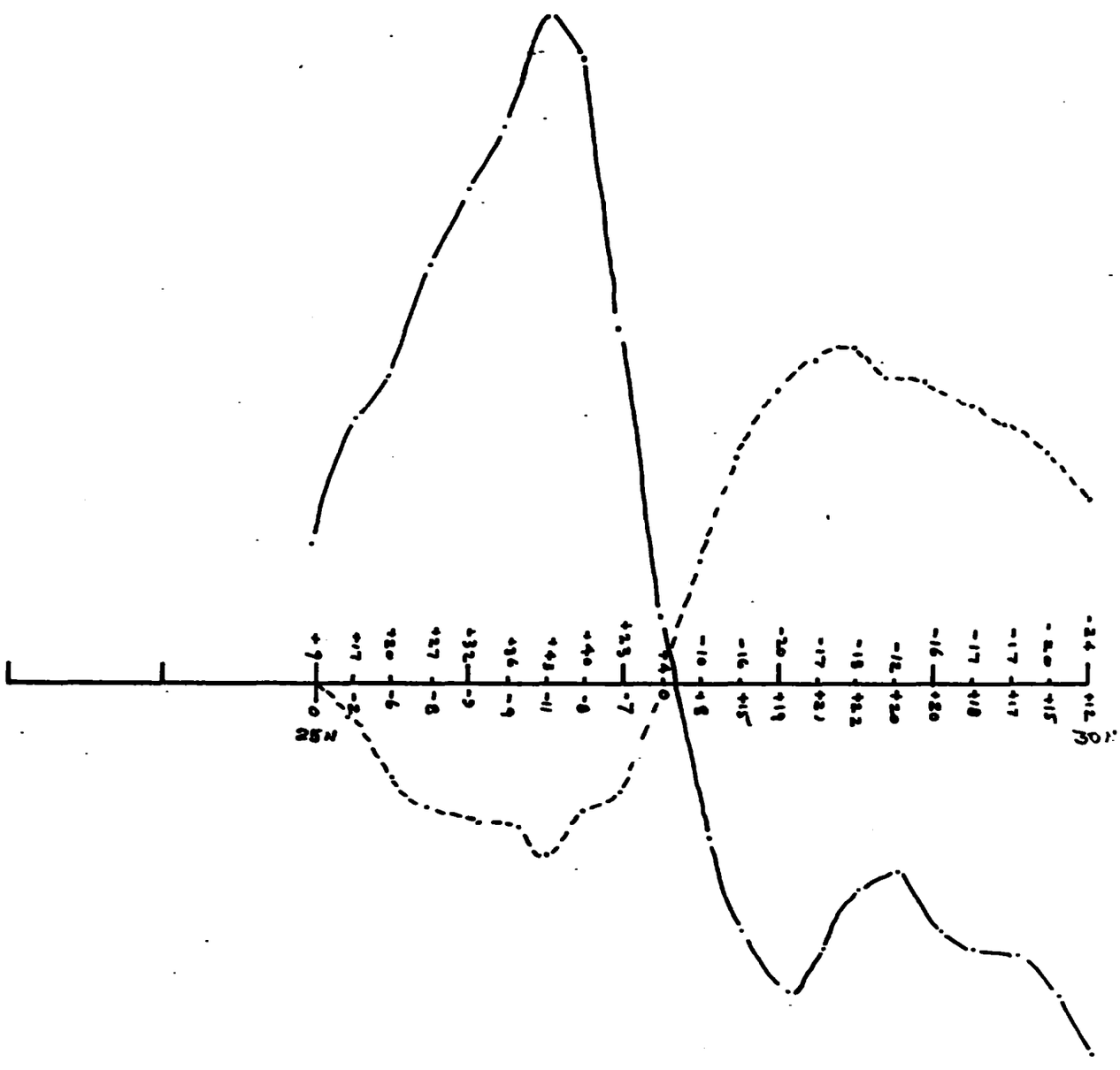

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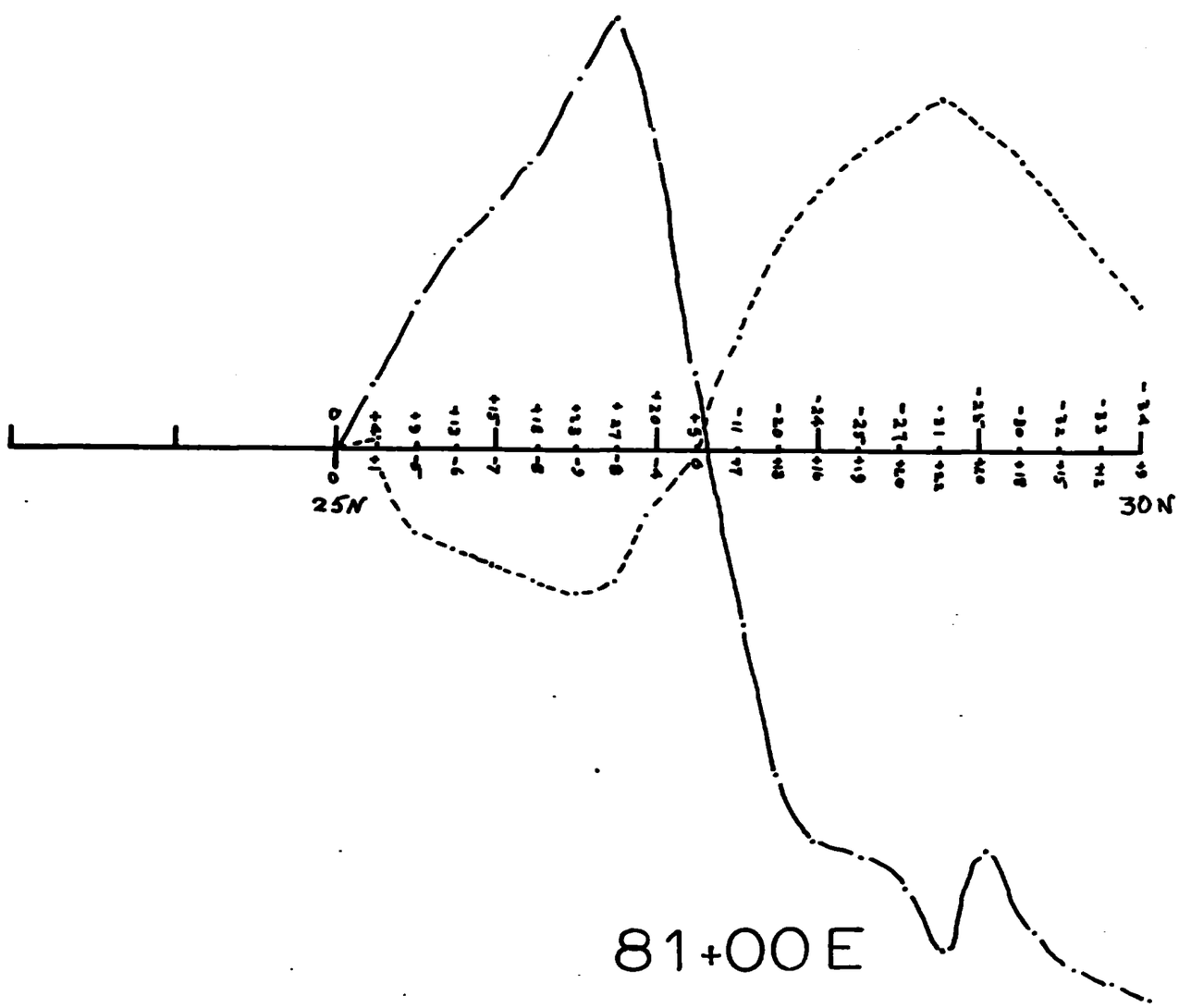
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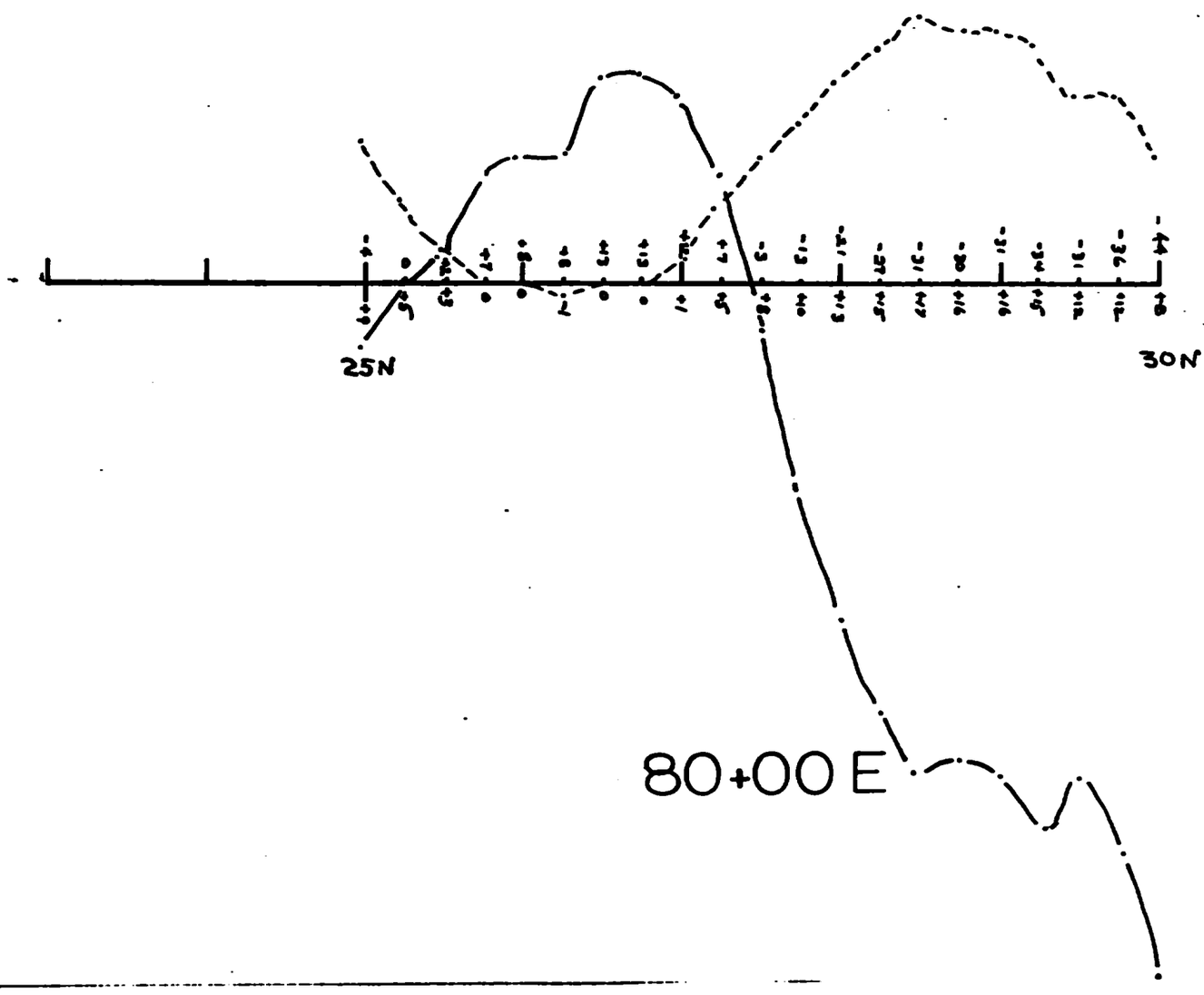
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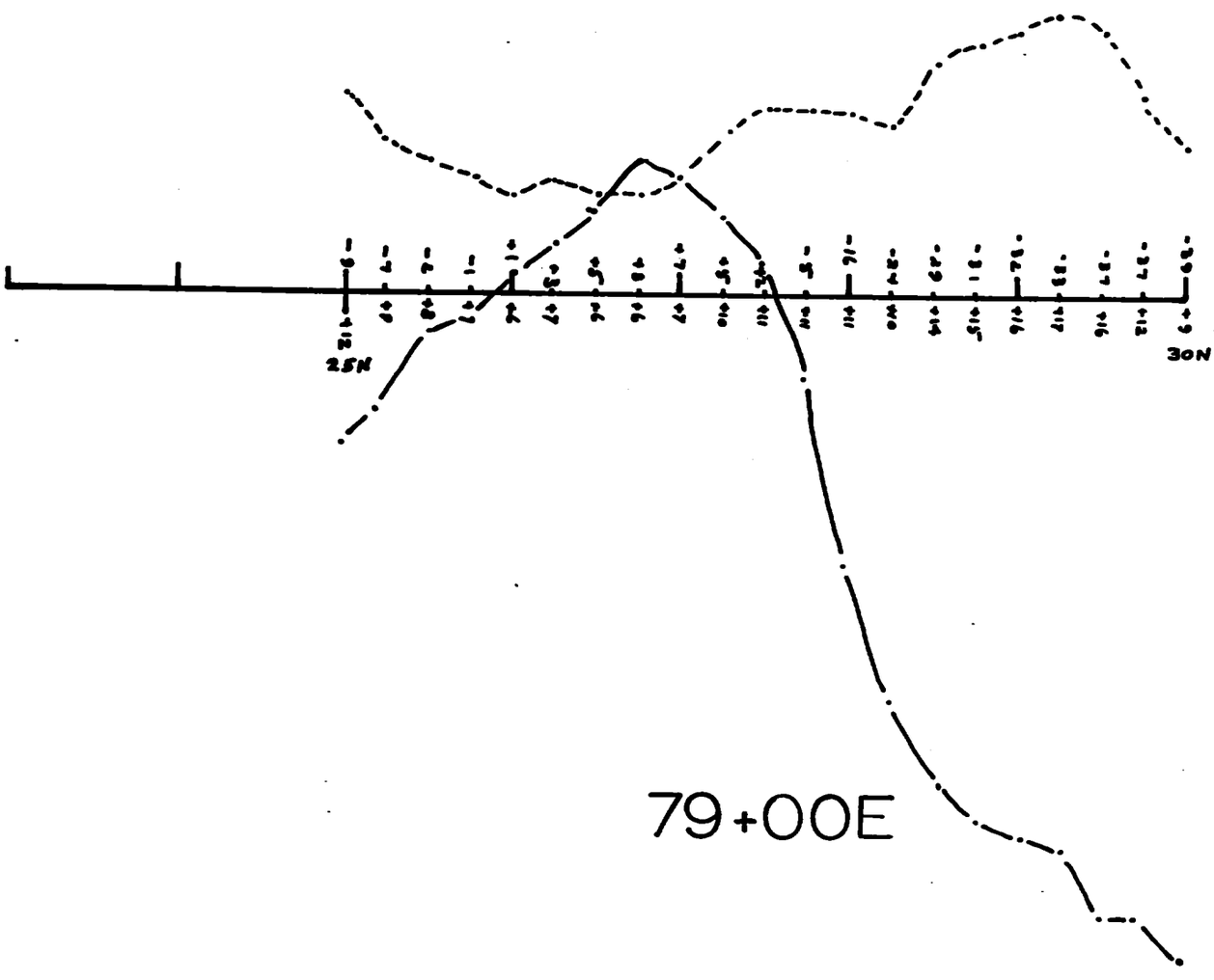

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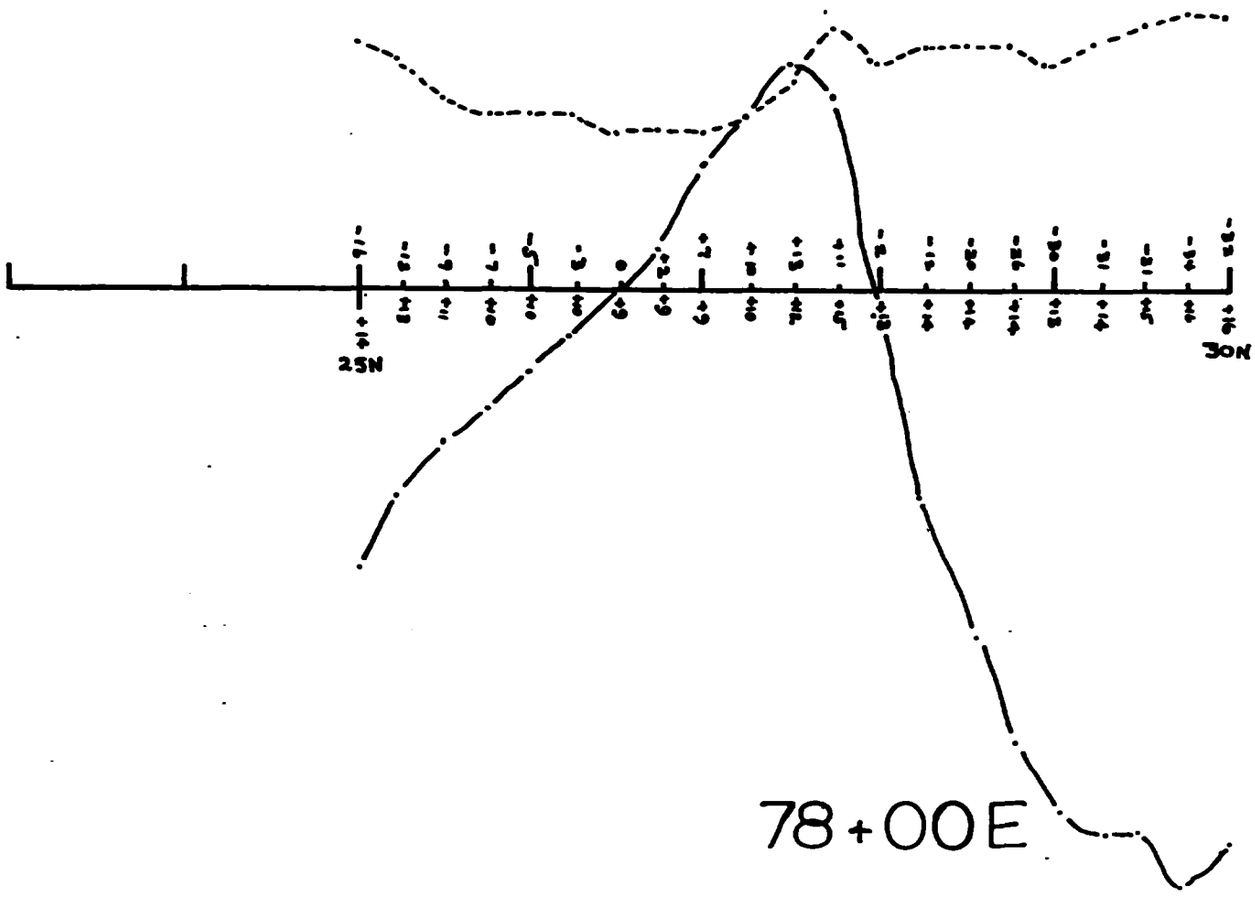
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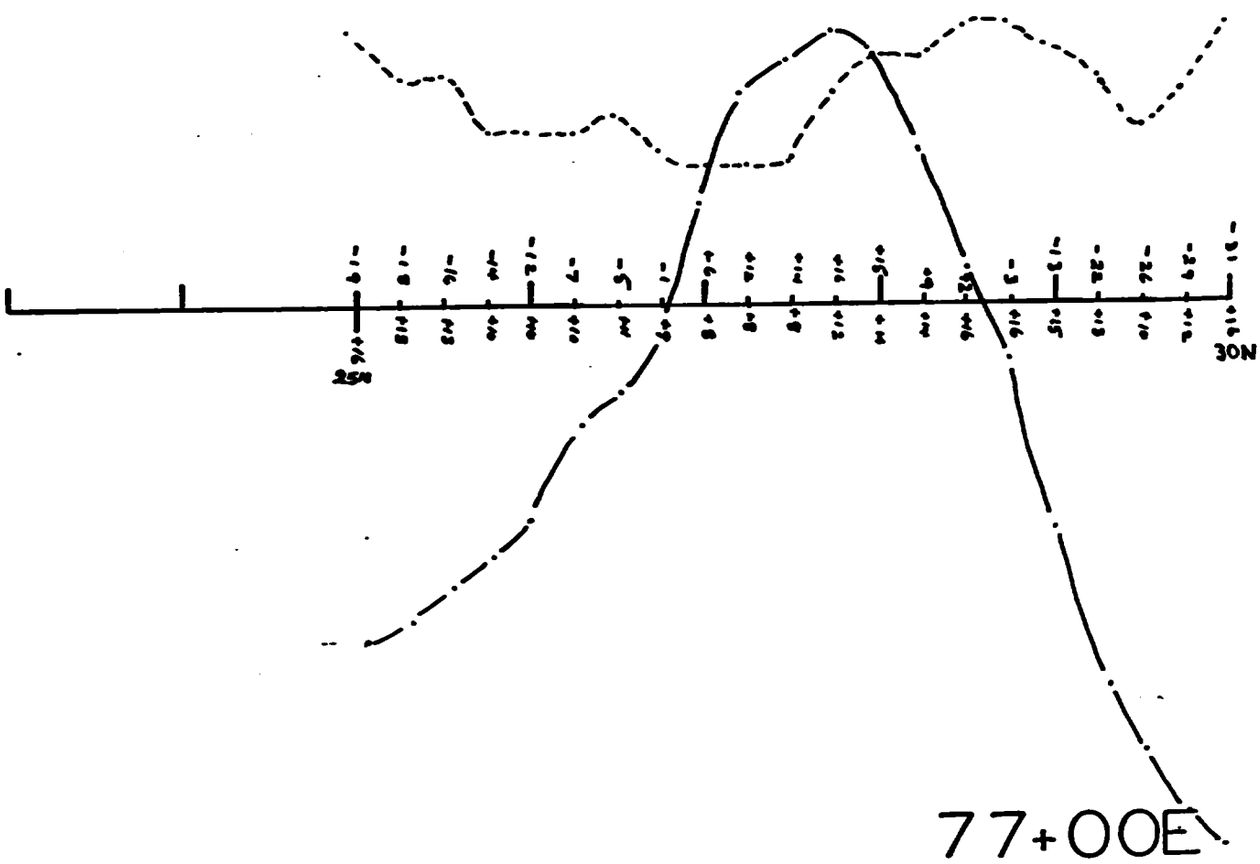
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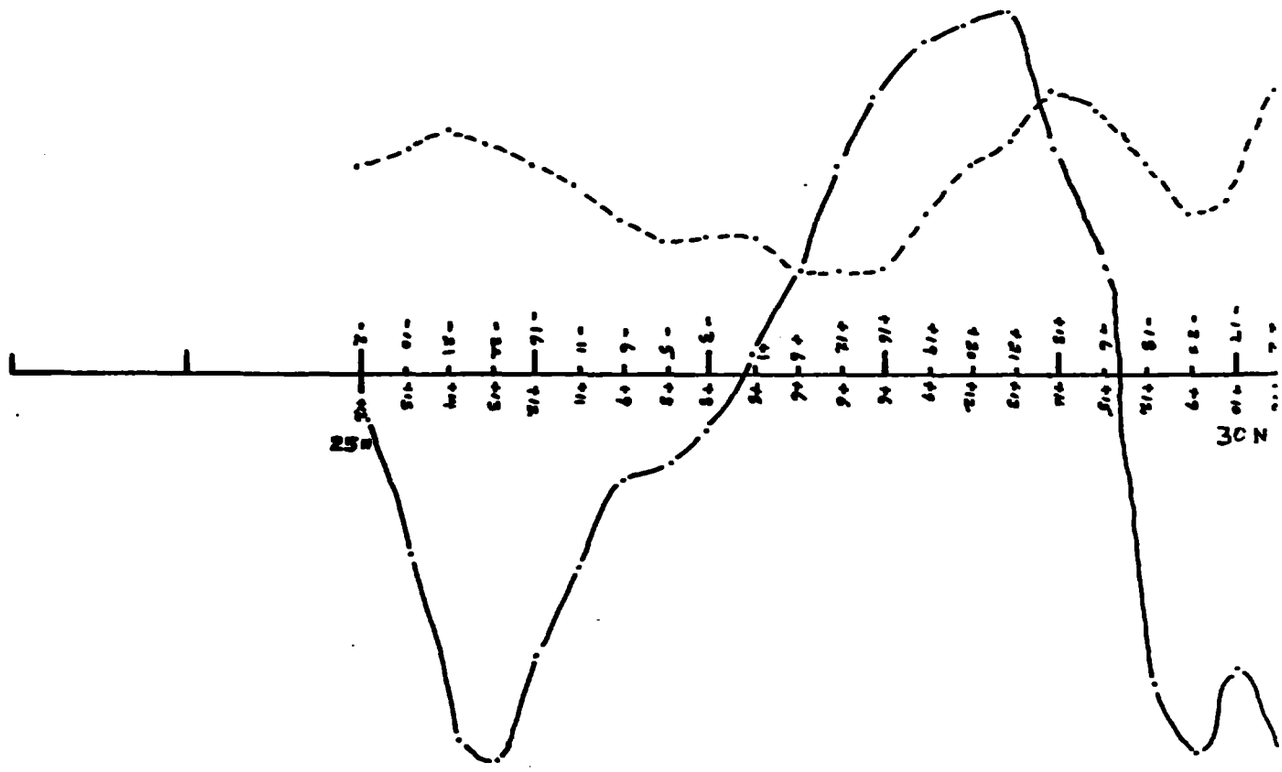
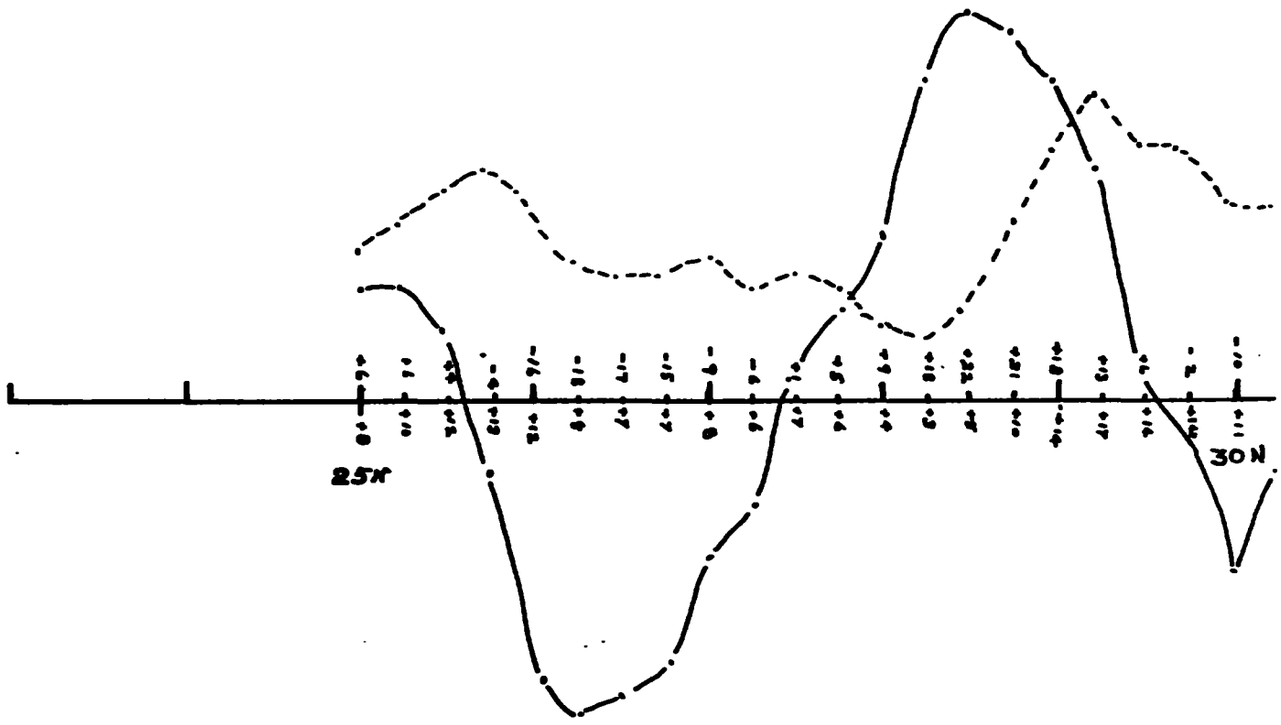
77+00E



76+00E



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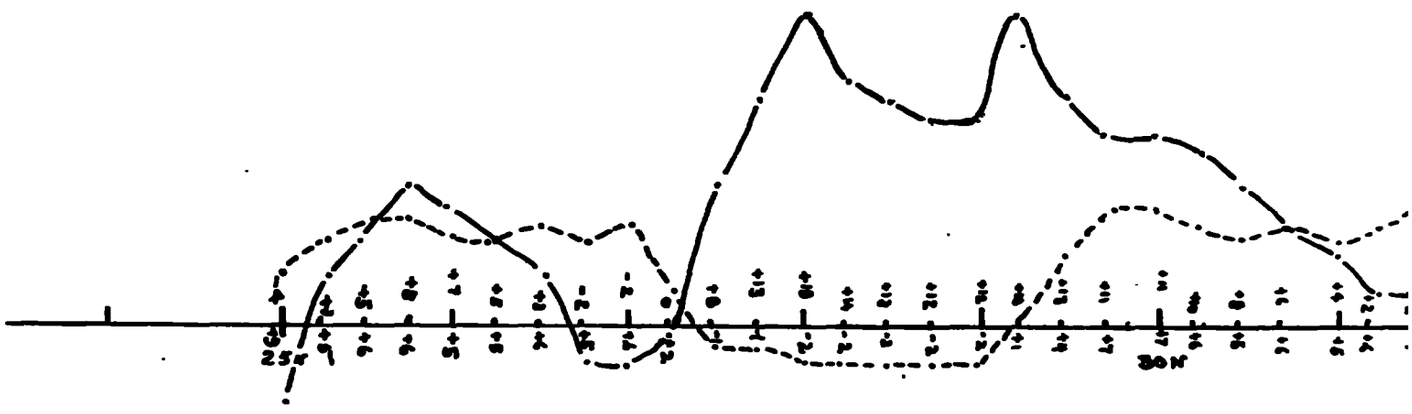

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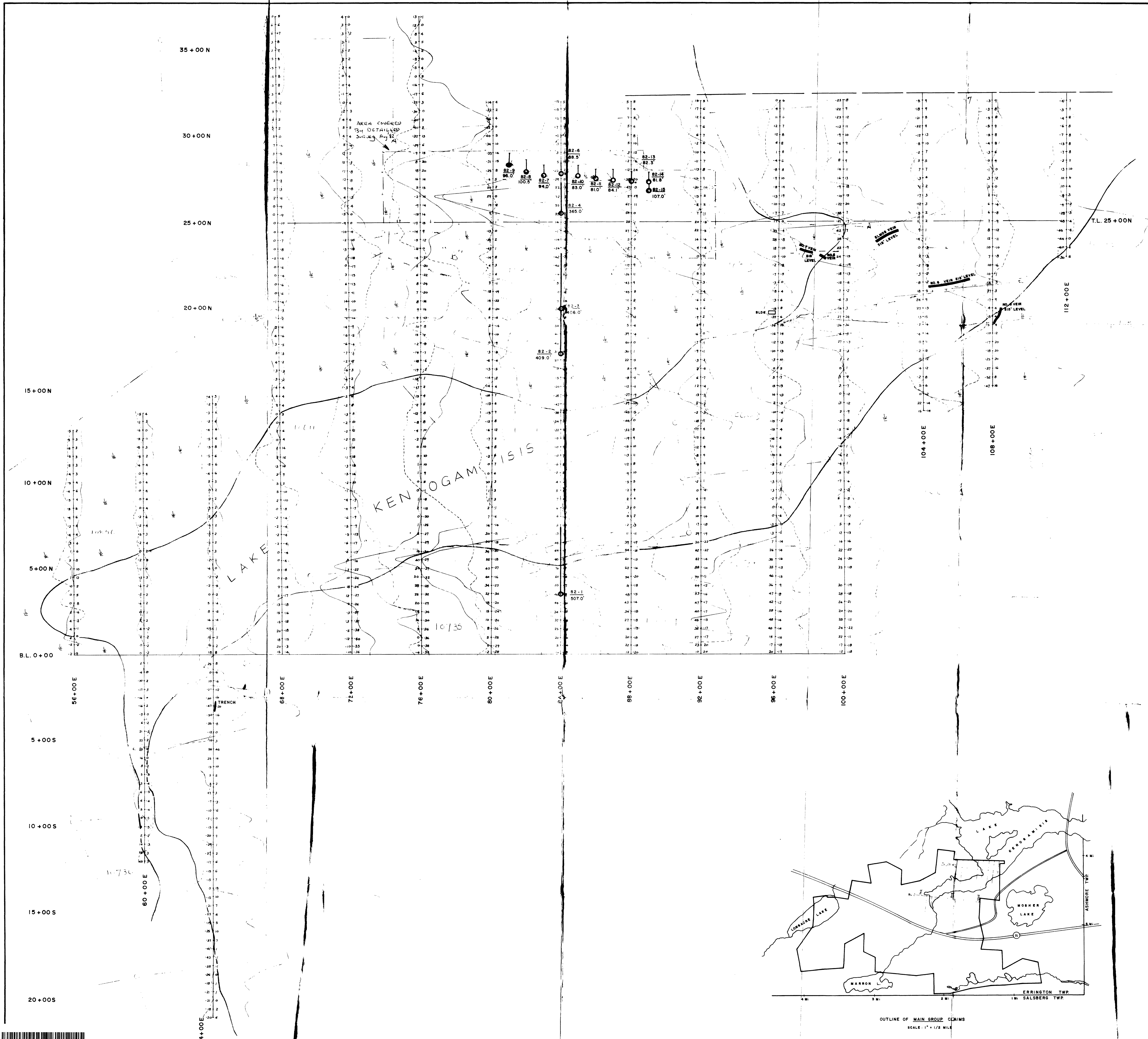
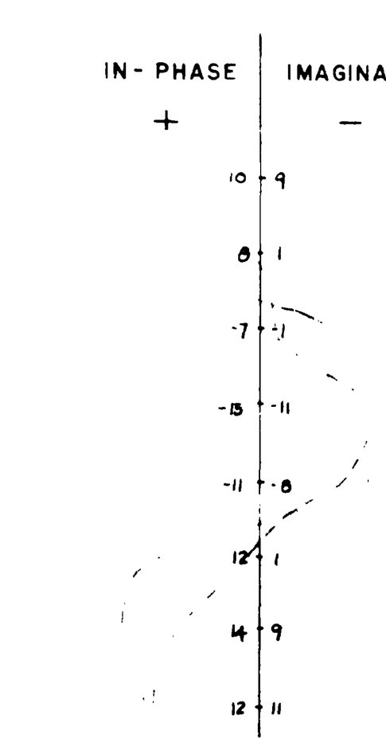




PROFILE SCALE: 1" = 20%
INSTRUMENT: GEONICS EM-16
STATION CUTLER, MAINE, FACING NORTH

SURVEYED BY: NORTHWEST GEOPHYSICS LTD.,
THUNDER BAY, ONT.

63.4136

TOMBILL MINES LIMITED

MAIN GROUP - GERALDTON AREA, ONTARIO

GEOPHYSICAL SURVEY
EM-16

SCALE: 1" = 200'	DATE: JANUARY, 1982	N.T.S.: 42 E/11
AUTHOR: G. DOUGLAS	DRAWN BY: I. SCHMITT	FIGURE: 1

200

144 + 00 E | 148 + 00 E | 152 + 00 E | 156 + 00 E | 160 + 00E | 164 + 00 E | 168 + 00 E

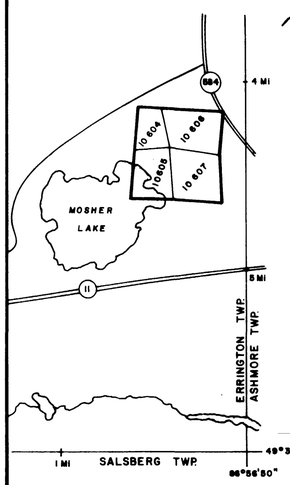
T.L. 25 + 00 N

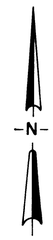
10 604 | 10 605 | 10606 | 10 607

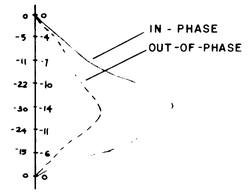
82-5
345.0

"A"

MOSHER LAKE







PROFILE SCALE : 1 inch = 20%
INSTRUMENT: GEONICS EM-16
STATION: NAA, FACING NORTH

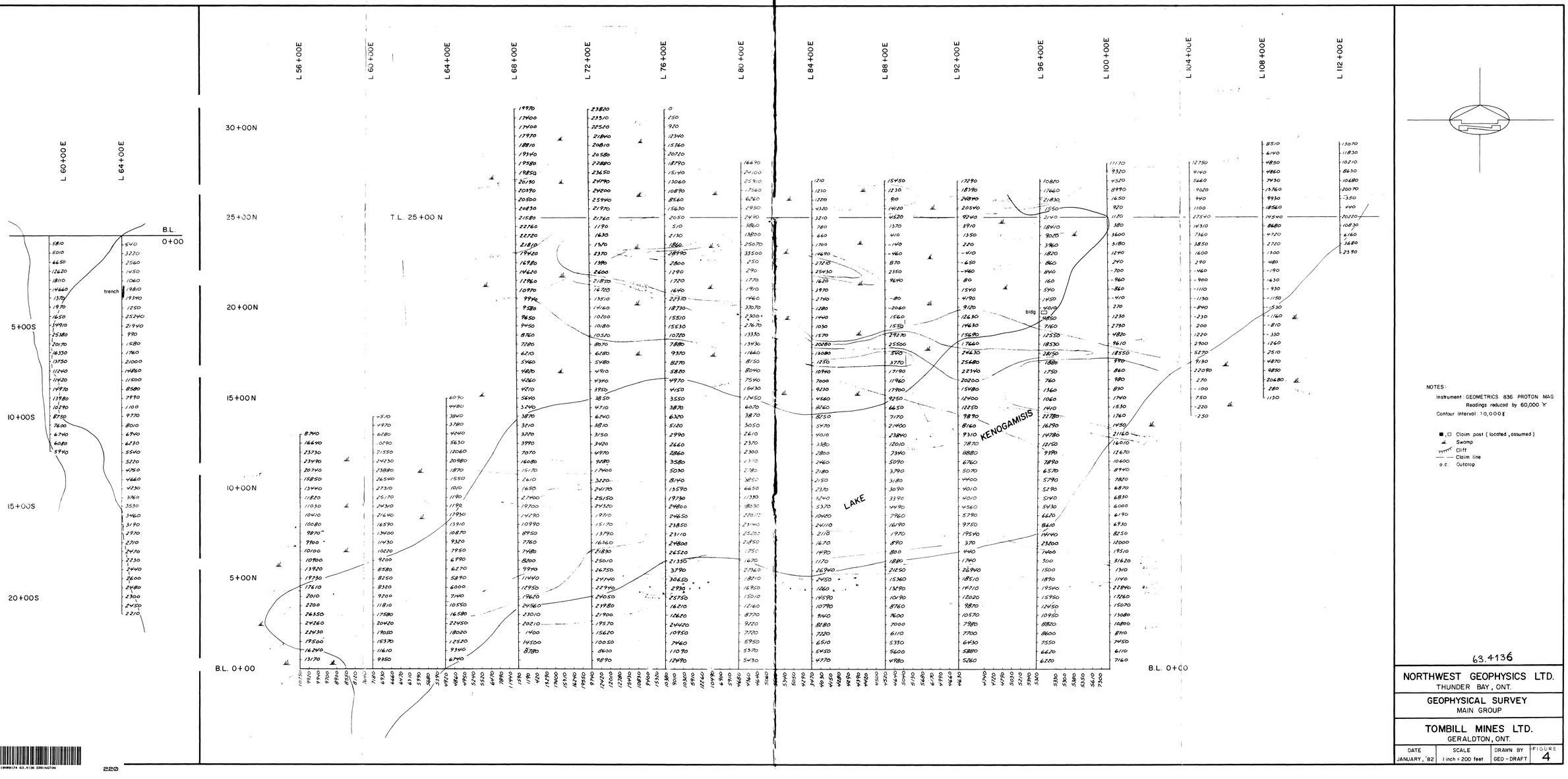
63.4136

TOMBILL MINES LIMITED

ELLIS GROUP - GERALDTON AREA, ONTARIO

GEOPHYSICAL SURVEY

SCALE: 1" = 200'	DATE: JUNE 30, 1982	N.T.S.: 42E/11
AUTHOR: G. DOUGLAS, 1974	DRAWN BY: I. SCHMITT	FIGURE: 3



NOTES:

Instrument: GEOMETRICS 836 PROTON MAG
Readings reduced by 60,000 γ
Contour interval: 10,000 g

■,□ Claim post (located , assumed)
Swamp
Cliff
— — Claim line
o.c. Outcrop

63.4136

NORTHWEST GEOPHYSICS LTD.
THUNDER BAY, ONT.

GEOPHYSICAL SURVEY
MAIN GROUP

TOMBILL MINES LTD.
GERALDTON, ONT.

DATE	SCALE	DRAWN BY	FIGURE
JANUARY, '82	1 inch = 200 feet	GEO-DRAFT	4

220

L 32+00 W | L 28+00 W | L 24+00W | L 20+00W | L 16+00 W | L 12+00W | L 8+00W | L 4+00W | L 0+00

20+00N

15+00N

10+00N

5+00N

B.L. 0+00

5+00S

10+00S

15+00S

20+00S

#2 - 613534
#3 - 613523

#2 - 613525

Shaft

Clear area
mine workings
(metal objects)

B.L. 0+00

NOTES:

Instrument GEOMETRICS 836 PROTON MAG.
Readings reduced by 60,000 γ
Contour Interval: 1000 γ

■,□ Claim post (located, assumed)
Swamp
Cliff
— — Claim line
o.c. Outcrop

63.4135

NORTHWEST GEOPHYSICS LTD.
THUNDER BAY, ONT.

GEOPHYSICAL SURVEY
LINDSLEY GROUP

TOMBILL MINES LTD.
GERALDTON, ONT.

DATE	SCALE	DRAWN BY:	FIGURE
JANUARY, '82	1 inch = 200 feet	GEO-DRAFT	5

32 + 00 W | 28 + 00 W | 24 + 00 W | 20 + 00 W | 16 + 00 W | 12 + 00 W | 8 + 00 W | 4 + 00 W | 0 + 00

CLAIM LINE

2 - 613534
3 - 613523

2 - 613525

15 + 00 N

10 + 00 N

5 + 00 N

B.L. 0 + 00

5 + 00 S

10 + 00 S

15 + 00 S

20 + 00 S

SHAFT

CLEAR AREA
MINE WORKINGS
(METAL OBJECTS)

"A"

N

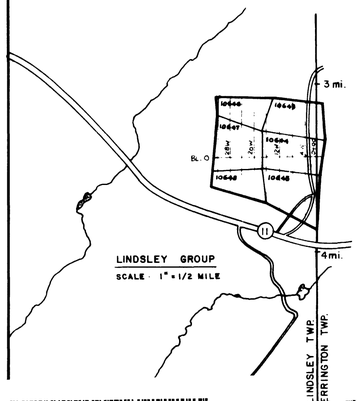
IN - PHASE | IMAGINARY
+ | −

PROFILE SCALE : 1" = 20%

INSTRUMENT : GEONICS EM-16

STATION CUTLER, MAINE, FACING NORTH

SURVEYED BY: NORTHWEST GEOPHYSICS LTD.,
THUNDER BAY, ONT.



63.4136

TOMBILL MINES LIMITED		
LINDSLEY GROUP - GERALDTON AREA, ONTARIO		
GEOPHYSICAL SURVEY EM-16		
SCALE: 1" = 200'	DATE: JANUARY, 1982	N.T.S.: 42E/11
AUTHOR: G. DOUGLAS	DRAWN BY: I. SCHMITT	FIGURE: 2

144 + 00 E
148 + 00 E
152 + 00 E
156 + 00 E
160 + 00 E
164 + 00 E
168 + 00 E

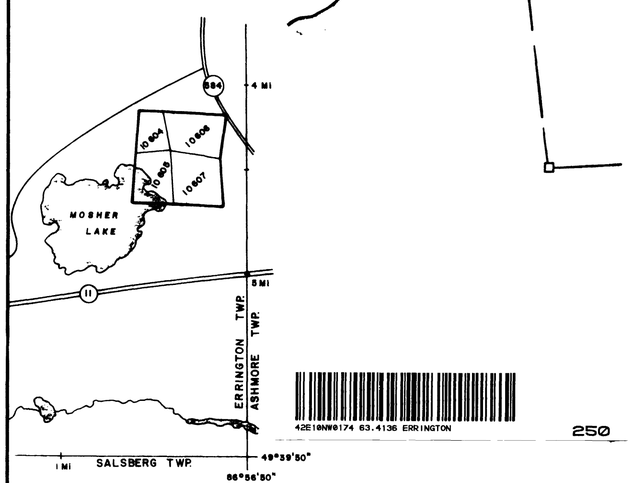
T.L. 25 + 00 N

10 604
10 605
10606
10607

MOSHER LAKE

10,000
20,000
30,000
40,000
50,000
60,000
70,000
80,000

N



42E10NW0174 63.4136 ERRINGTON 250

INSTRUMENT: SHARPE MF-1
CONTOUR INTERVAL: 10,000 γ

63.4126

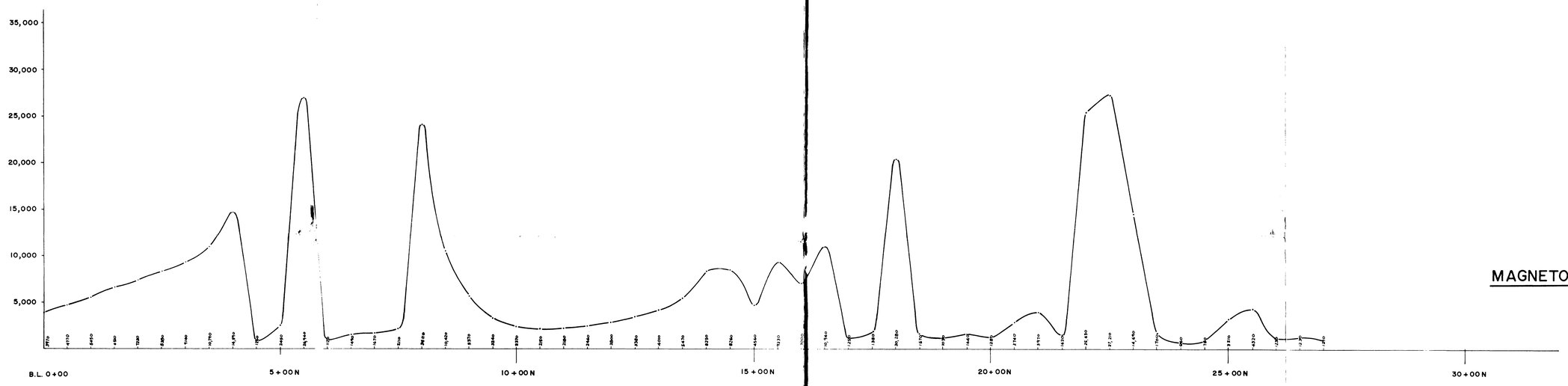
TOMBILL MINES LIMITED

ELLIS GROUP - GERALDTON AREA, ONTARIO

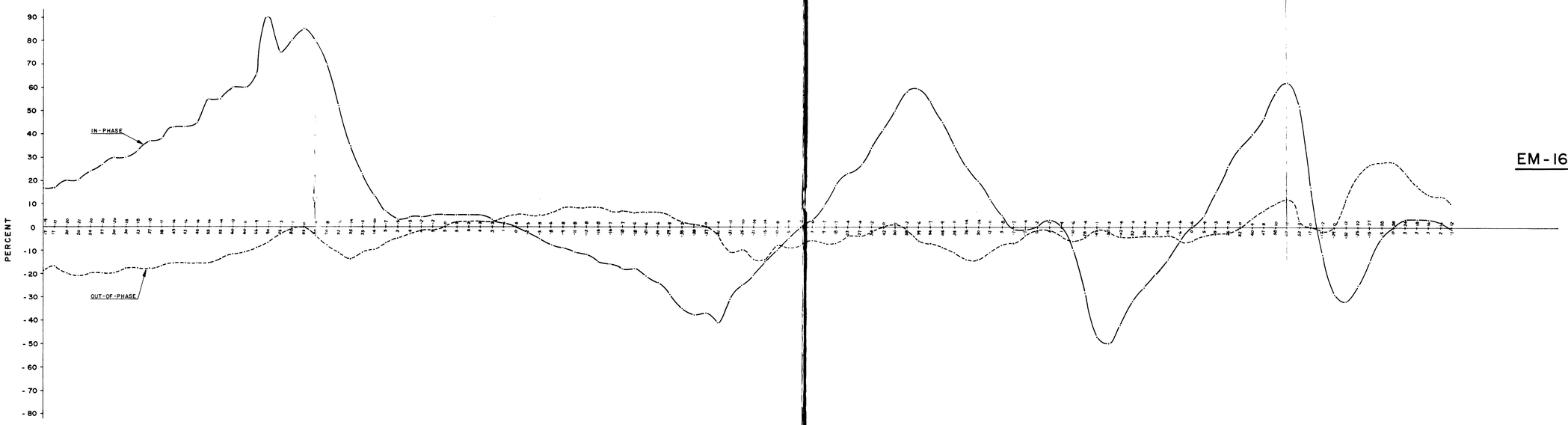
MAGNETOMETER SURVEY

SCALE: 1" = 200'	DATE: JUNE 30, 1982	N.T.S.: 42 E/11
AUTHOR: G. DOUGLAS, 1974	DRAWN BY: I. SCHMITT	FIGURE: 6

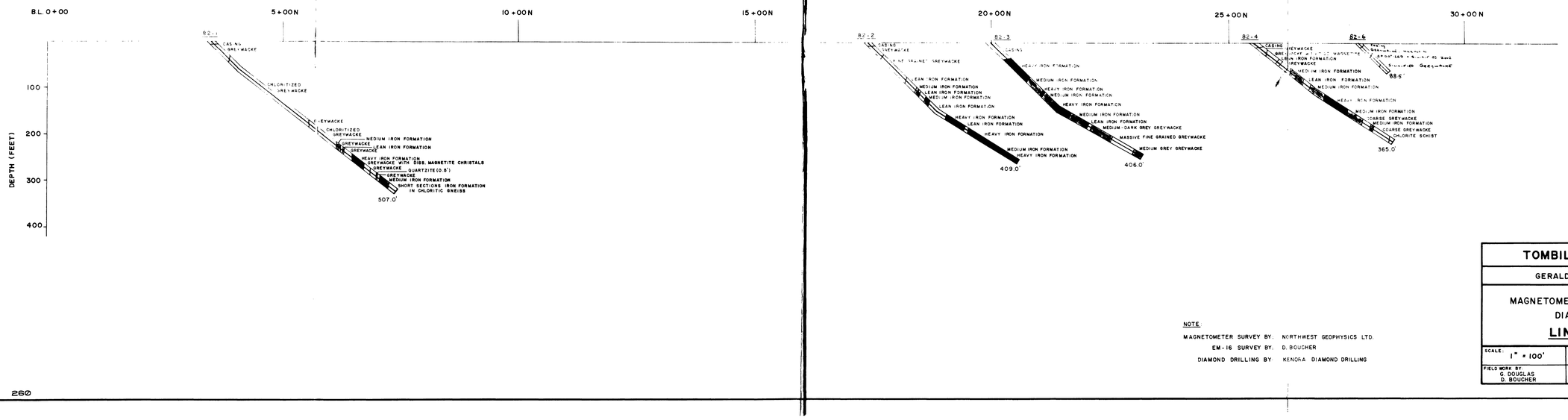
MAGNETOMETER SURVEY



EM-16 SURVEY



DIAMOND DRILLING



NOTE.

MAGNETOMETER SURVEY BY: NORTHWEST GEOPHYSICS LTD.

EM-16 SURVEY BY: D. BOUCHER

DIAMOND DRILLING BY: KENORA DIAMOND DRILLING

63.4136

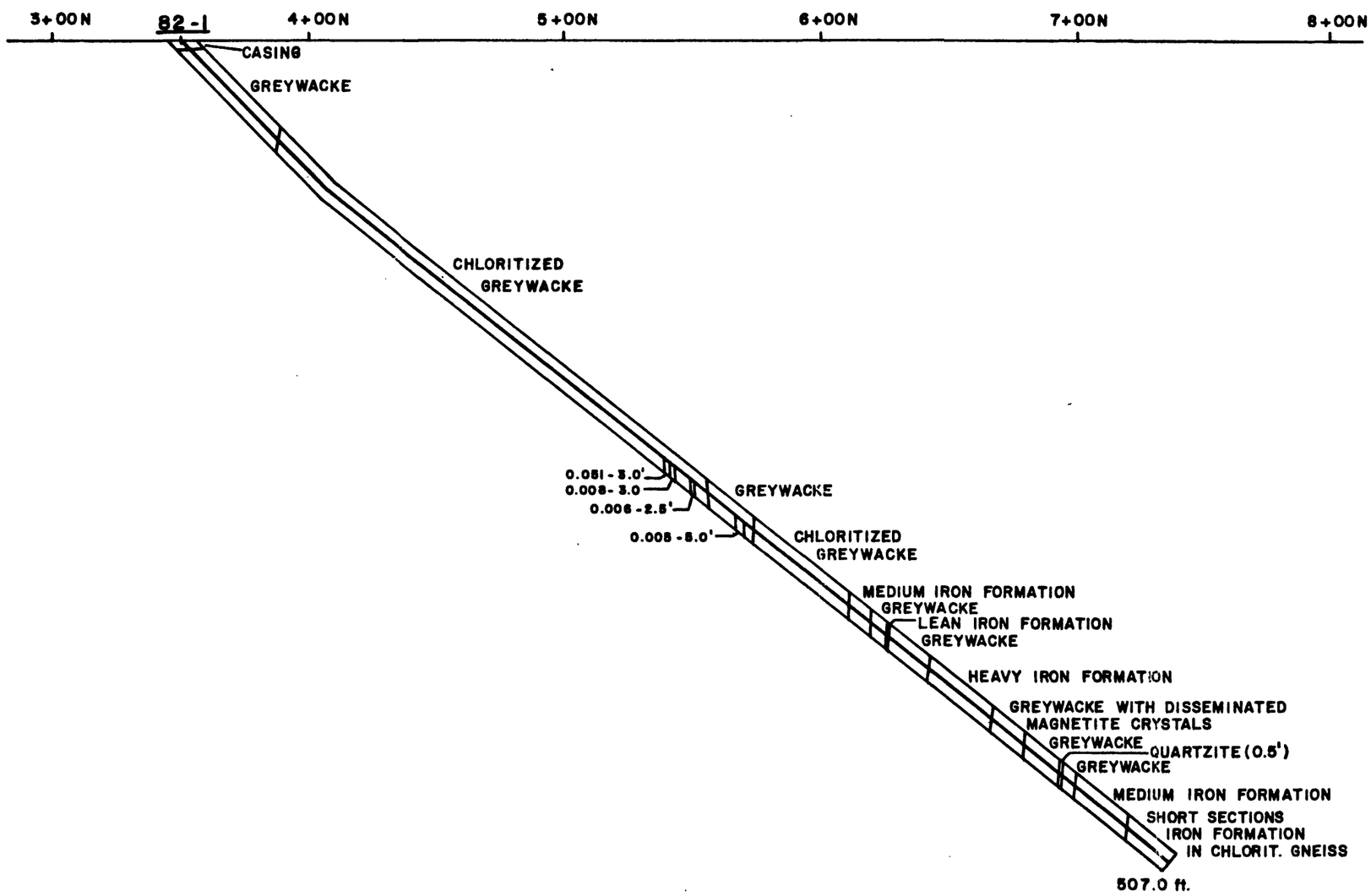
TOMBILL MINES LIMITED

GERALDTON AREA - ONTARIO

MAGNETOMETER & EM-16 SURVEYS
DIAMOND DRILLING

LINE 84+00 E

SCALE: 1" = 100'	DATE: FEBRUARY 1982	N.T.S. 42 E/11
FIELD WORK BY: G. DOUGLAS, D. BOUCHER	DRAWN BY: I. SCHMITT	FIGURE: 7



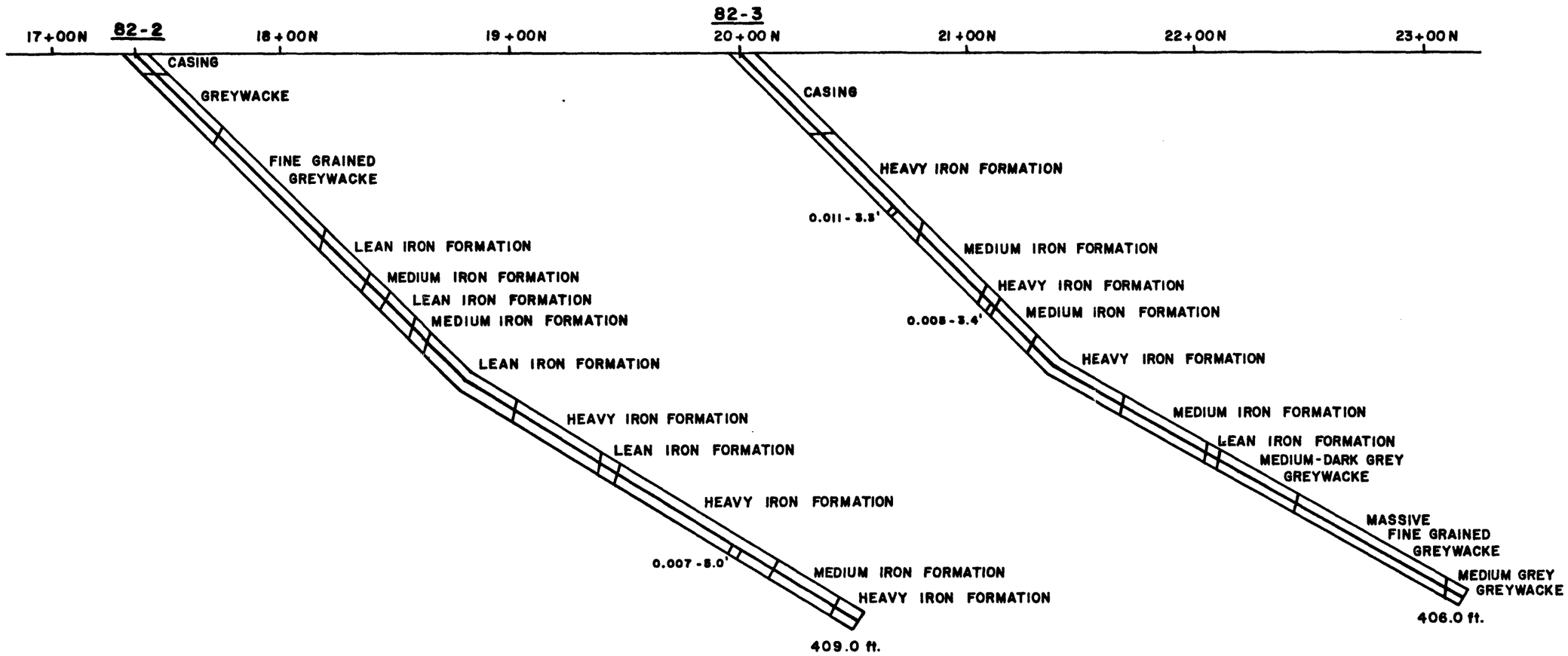
SOLD IN OZ/TON - SAMPLE LENGTH

0.051 - 3.0'

63.4136

TOMBILL MINES LIMITED	
CROSS-SECTION 84+00 E MAIN GROUP D.D. HOLE 82-1 LOOKING 270°	
SCALE: 1" = 50'	DATE: MARCH 1982

FIGURE 8(a)

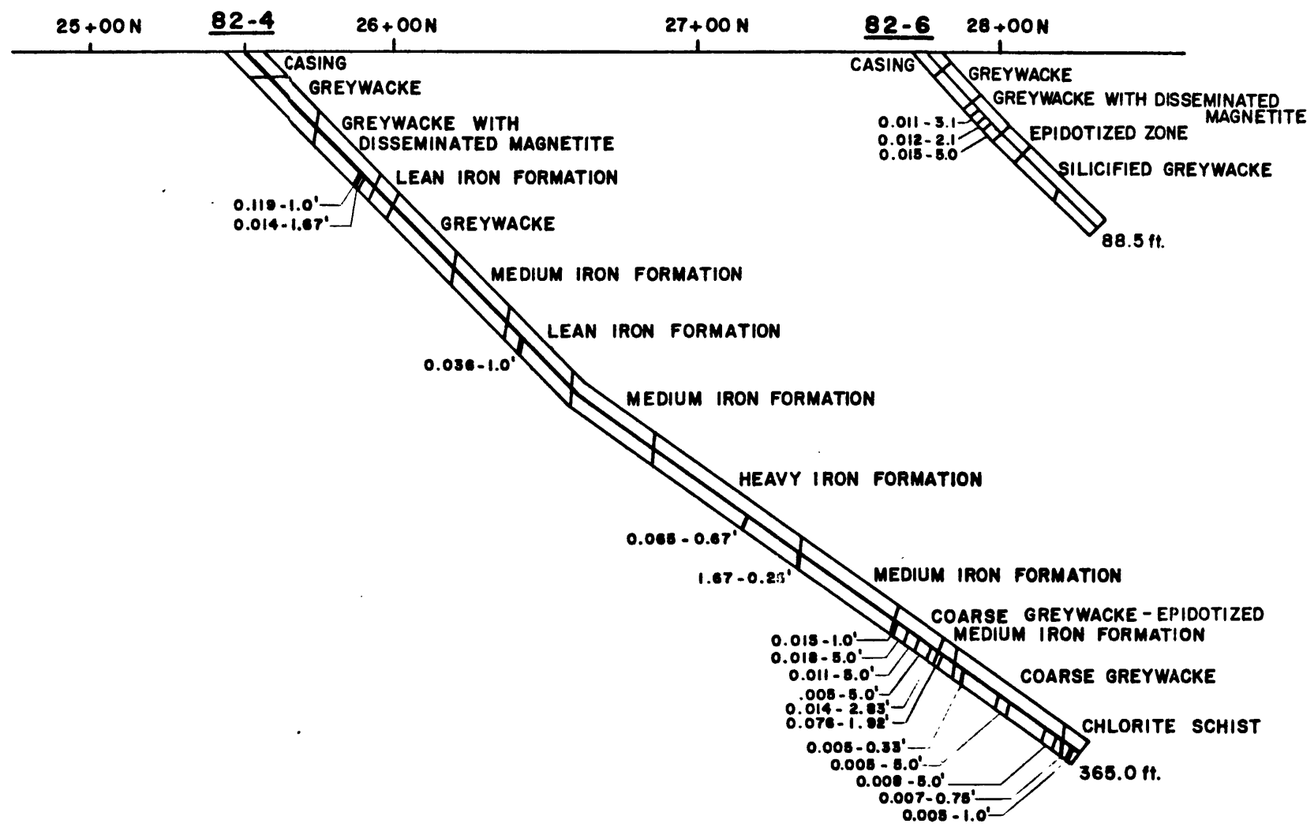


GOLD IN OZ/TON - SAMPLE LENGTH

0.005 - 3.4'

TOMBILL MINES LIMITED	
CROSS - SECTION 84+00 E MAIN GROUP D.D. HOLES 82-2 & 82-3 LOOKING 270°	
SCALE: 1" = 50'	DATE: MARCH 1982

FIGURE 8(b)

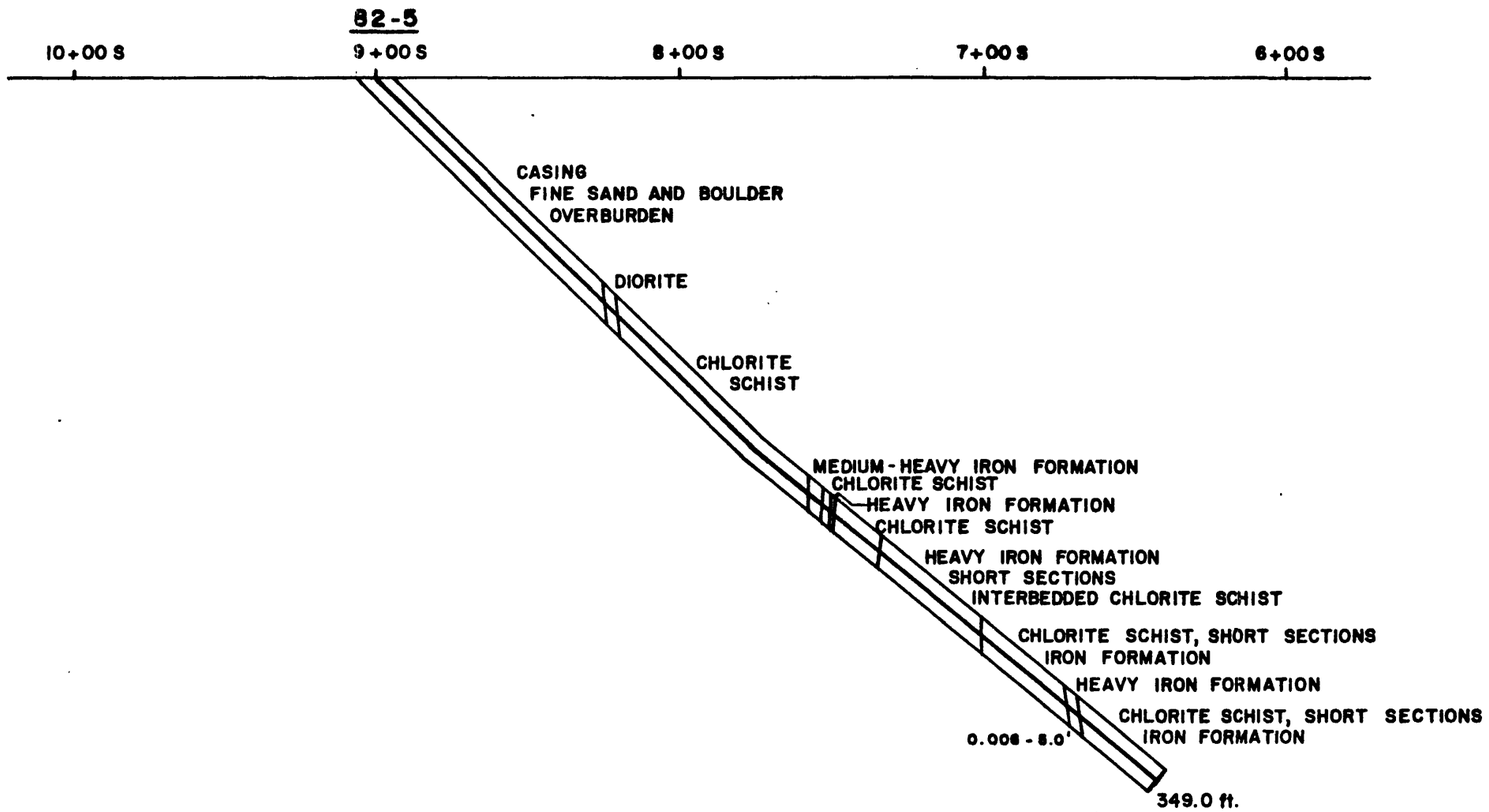


GOLD IN OZ/TON - SAMPLE LENGTH

0.119 - 1.0'

TOMBILL MINES LIMITED	
CROSS-SECTION 84+00E MAIN GROUP D.D. HOLES 82-4 & 82-6 LOOKING 270°	
SCALE: 1" = 50'	DATE: MARCH 1982

FIGURE 8(c)



GOLD IN OZ./TON – SAMPLE LENGTH

0.006 - 5.0'

TOMBILL MINES LIMITED	
CROSS-SECTION 160+00E ELLIS GROUP D.D. HOLE 82-5 LOOKING 270°	
SCALE: 1" = 50'	DATE: MARCH 1982

FIGURE 8 (d)

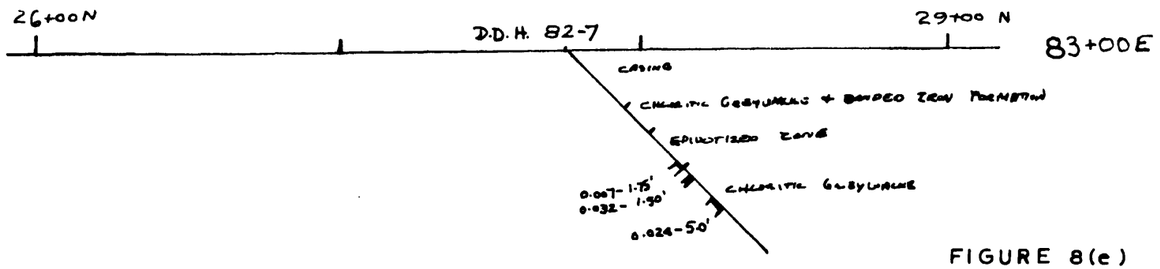


FIGURE 8(e)

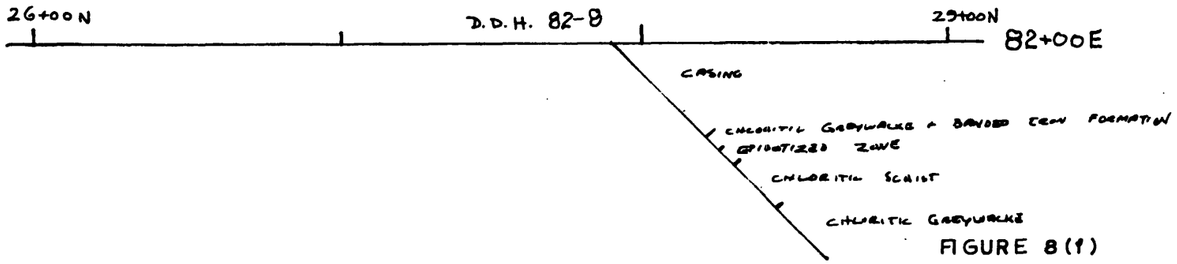


FIGURE 8(f)

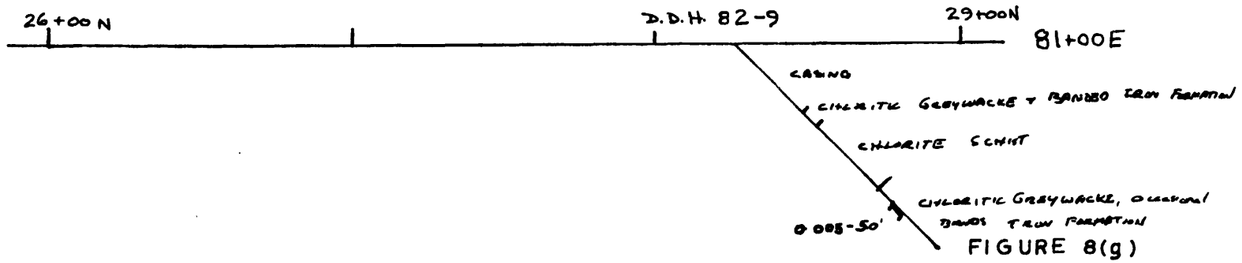


FIGURE 8(g)

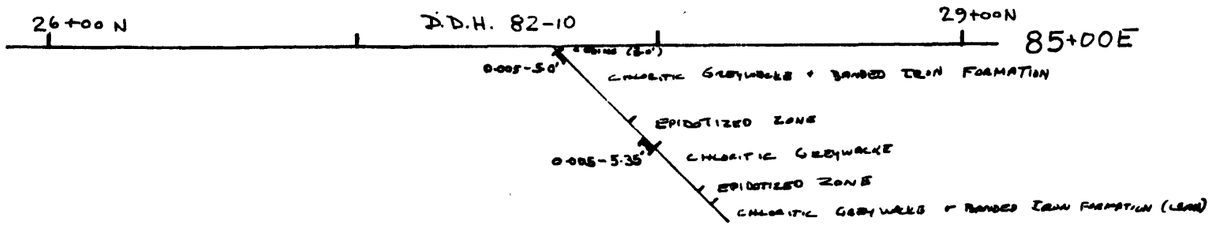


FIGURE 8(h)

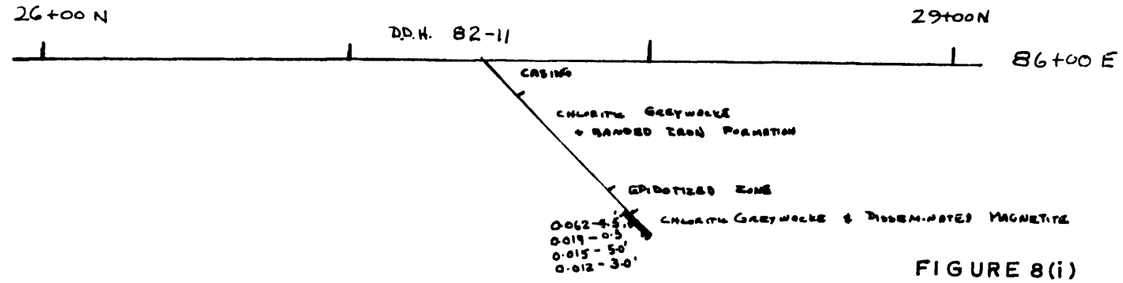


FIGURE 8(i)

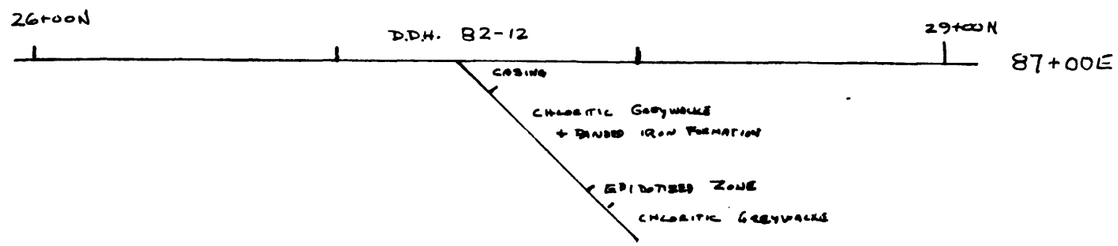


FIGURE 8(j)

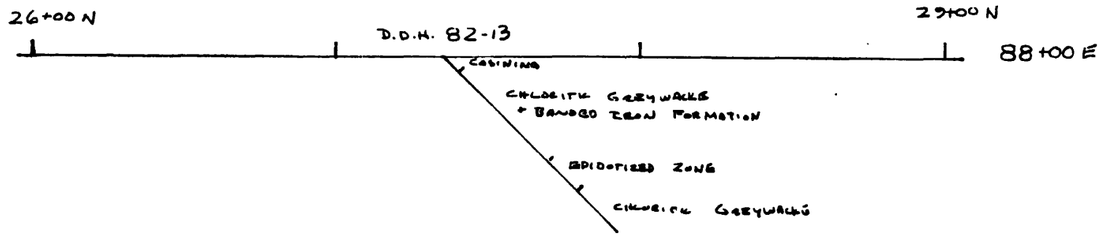


FIGURE 8(k)

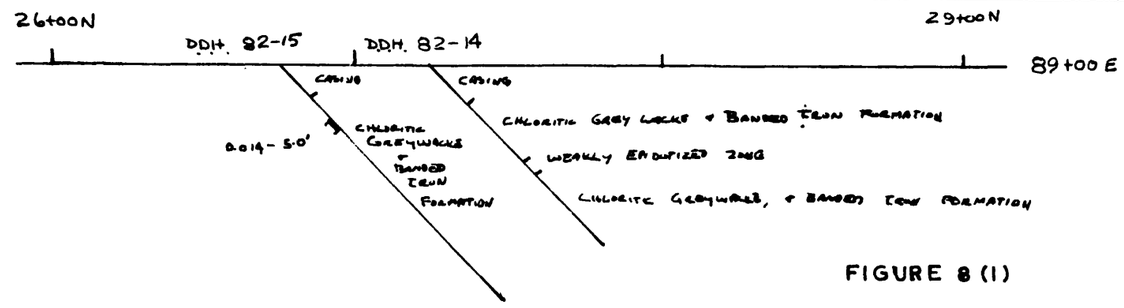


FIGURE 8(l)

TOMBILL MINES LTD. GERALDTON PROJECT
CROSS-SECTIONS OF DIAMOND DRILL HOLES 82-7 THROUGH 82-15
AT A SCALE OF ONE INCH EQUALS FIFTY FEET, FACING 270°

G_{GOLD} (oz/t) - SAMPLE LENGTH IN FEET
0.032 — 5.0