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COMADA ENERGY LIMITED

BONAPARTE GULF BASIN GRAVITY SURVEY

BROLGA AREA - EP 126 WA

LEGUNE AREA - EP 31 NT

BY

**WONGELA GEOPHYSICAL
DECEMBER 1990**

PR92/045

ONSHORE

DEPT OF MINES & ENERGY

DO NOT REMOVE



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Bouguer anomaly contours - Broome Area WA 1:100 000
Bouguer Anomaly contours - Legune Area NT 1:100 000

INTRODUCTION

During the period 29 August to 16 September 1990 Wongela Geophysical conducted ground gravity surveys in the Bonaparte Gulf Basin for Comada Energy Limited. The program was planned in three separate areas. The first area was in EP 126 WA and was called the Brolga survey. The work was designed to get more detail in the western part of the area surveyed in 1985 for the Moonie Oil Company (Tidal Flats Gravity Survey). The base for this survey was at Tanmurra Bore.

The remaining two areas were in EP 31 NT and this survey was called the Legune survey. The base of the operations was the Legune Station Homestead.

A total of 780 stations was observed, 330 in the Brolga area and 450 in the Legune area.

Weather conditions were fine for the duration of the survey and no operational problems were encountered.

RESULTS OF THE SURVEY

The results of the survey are presented as Bouguer anomaly contours at a scale of 1:100 000 and a contour interval of 1 milligal. In addition Bouguer anomaly and elevation profiles are presented for Brolga area detail lines 39,40 & 64, which were observed at a station interval of 250 metres.

The new Brolga data have been incorporated with the 1985 Moonie Oil Company Tidal Flats gravity survey data and the Bouguer anomaly map for this area presents both sets of data.

Station elevations in the Brolga area range from near sea level to 34 metres ASL and in the Legune area from near sea level to 12 metres ASL.

In the Brolga area Bouguer anomaly values compiled using a reduction density of 2.0 gm/cc range from -8.9 milligals at station 2019 to -22.9 milligals at station 3009. In the Legune area values range from -8.1 milligals at station 4329 to -25.9 milligals at station 4223.

Comments are now made for each area :

(a) BROHLGA

The new data have provided more detail in the western part of the area covered by the 1985 Tidal Flats survey.

The most dominant feature is an elongated gravity low trending NW-SE centred near latitude 14° 50' and longitude 128° 40'. The amplitude of this low is in excess of 5 milligals.

Small negative features have been mapped at stations 2301 and 2701. To the west of the low at 2301 is a steep gravity gradient increasing to the west. West of the gradient is a positive feature striking NW-SE centred near station 715.

Other positive features are mapped near stations 2506 and 703.

The two lines (39 & 40) over the feature designated WB9 which is an isolated vegetation covered topographic mound do not reveal anything of note.

Line 64 which was programmed over the feature designated WB7 exhibits a gravity gradient decreasing to the east at a rate of 1 milligal per kilometre.

(b) LEGUNE (Western Part)

This programme was comprised of 4 N-S lines. A low amplitude negative feature has been mapped centred at station 4223. Elsewhere the data merely exhibit a N-S gravity gradient decreasing to the south at a rate of 0.8 milligals per kilometre.

(c) LEGUNE (Eastern Part)

The most striking feature mapped in this area is an elongated positive gravity anomaly extending NE from station 6305 and continuing through station 5001. The anomaly is most intense in the south and is coincident with the feature designated NB2c. The anomaly is flanked to the east by a gravity low centred near station 5716.



Lindsay N. Ingall
December 1990

APPENDIX A
OPERATIONAL REPORT
BONAPARTE GULF BASIN GRAVITY SURVEYS
BROLGA - EP 126 WA
LEGUNE - EP 31 NT

INTRODUCTION

During the period 29 August to 16 September 1990 Wongela Geophysical conducted ground gravity surveys in the Bonaparte Gulf Basin for Comada Energy Limited. Most of the work was done using a helicopter for transportation, however limited amounts of work were done with a vehicle and on foot.

The vehicle was used for close spacing control in the vicinity of Sweet Water Bore near Legune Station where a helicopter would have disturbed the cattle. Three short traverses were done on foot in the Brolga area.

The program was in 3 different areas :

(a) BROLGA - EP 126 WA

The program was in part of the area covered by the 1985 Moonie Oil Tidal Flats gravity survey and extended from longitude $128^{\circ} 30'$ to $128^{\circ} 50'$. It was comprised of :

1. 281 stations at a spacing of 1 kilometre on lines numbered from 20 to 38 and generally 1 kilometre apart. A helicopter was used.
2. 25 stations spaced 250 metres apart on two lines numbered 39 and 40 across a feature of interest designated WB9. These were done on foot using a hip chain and compass.
3. 24 stations spaced 250 metres apart over feature WB7 on the old seismic line BWA 88-400. This was line 64 and done on foot also.

The total number of stations in the Brolga area was thus 330 comprised of 281 at 1 kilometre spacing and 49 at 250 metre spacing.

(b) LEGUNE (Western Part) - EP 31 NT

This program extending from longitude 129° to $129^{\circ} 05'$ was comprised of 114 stations spaced 1 kilometre apart on 4 lines numbered 41 to 44 spaced 2 kilometres apart.

(c) LEGUNE (Eastern Part) - EP 31 NT

This program extended from longitude 129° 15' to 129° 30' and comprised 272 stations spaced 1 kilometre apart on lines 45 to 58 with a line spacing varying from 1 to 4 kilometres. In addition there were 64 stations on lines 58 to 63 at a station spacing of 500 metres on lines spaced 500 metres apart.

The total number of stations in the Legune area was thus 450 comprised of 386 at 1 kilometre spacing and 64 at 500 metre spacing.

TIME AND STATISTICAL RESUME

29/8/1990	B.S. Riddler departed Broome, drove to Halls Creek.
30/8/1990	P. Mewkill and K. Williams departed Sydney, flew to Kununurra. B.S. Riddler departed Halls Creek, drove to Kununurra.
31/8/1990	Crew organised supplies and second vehicle and drove to base camp location at Tanmurra Bore.
1/9/1990	Field operations commenced.
6/9/1990	Tanmurra Bore programme completed. Crew returned to Kununurra.
7/9/1990	Crew drove/flew to base camp location at Legune Station Homestead and recommenced field operations.
14/9/1990	Field operations completed. Crew returned to Kununurra.
15-16/9/1990	P. Mewkill and K. Williams return to Sydney via bus/air. B.S. Riddler returns to Broome by road.
	Total days on project 19
	Operational days 12.5
	Travel days 6.5
	Total number of stations 780
	Stations observed per operational day 62.6
	Total helicopter hours on project 97.1
	Stations observed per helicopter hour 7.4

Note:

An eight digit numbering system has been used e.g. 9032 2001. The first four digits represent the year and BMR survey number and the last four digits the traverse number and station number on traverse.

TRAVERSE DETAILS

LINE	FROM	TO	STNS	DATE	REMARKS
20	2001	2010	10	1,2/9	
21	2101	2110	10	1,2/9	
22	2201	2215	15	1/9	
23	2301	2315	15	1/9	
24	2401	2419	19	1/9	
25	2501	2518	18	2/9	
26	2601	2617	17	2/9	
27	2701	2719	19	2/9	
28	2801	2817	17	3/9	
29	2901	2919	19	4/9	
30	3001	3018	18	4/9	
31	3101	3118	18	4/9	
32	3201	3220	20	4/9	
33	3301	3320	20	5/9	
34	3401	3418	18	5/9	
35	3501	3513	13	5/9	
36	3601	3608	8	5/9	
37	3701	3705	5	5/9	
38	3801	3802	2	5/9	
39	3901	3914	14	6/9	
40	4001	4011	11	6/9	250 m spacing
41	4101	4131	31	8/9	250 m spacing
42	4201	4226	26	8,9/9	
43	4301	4329	29	9/9	
44	4401	4428	28	9/9	
45	4501	4527	27	10/9	
46	4601	4628	28	10/9	
47	4701	4725	25	12/9	
48	4801	4836	36	12,13/9	
49	4901	4932	32	13/9	
50	5001	5029	29	10,13/9	
51	5101	5109	9	7/9	
52	5201	5209	9	7/9	
53	5301	5309	9	7/9	
54	5401	5421	21	8,13/9	
55	5501	5509	9	8/9	
56	5601	5609	9	9/9	
57	5701	5718	18	11,12,13/9	
58	5801	5822	21	11,12,13,14/9	5806 missed due to trees 500 m spacing
59	5901	5911	11	11/9	500 m spacing
60	6001	6011	11	11/9	500 m spacing
61	6101	6111	11	11/9	500 m spacing
62	6201	6211	10	11/9	6204 missed due to trees 500 m spacing
63	6301	6311	11	11/9	500 m spacing
64	6401	6424	24	3/9	250 m spacing
<hr/>					
TOTAL			780		
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PERSONNEL

B.S. Riddler	Gravity observer
P. Mewkill	Geophysicist/gravity observer
K. Williams	Field assistant
M. Nicholls	Helicopter pilot

EQUIPMENT

- LaCoste & Romberg Model G gravity meter # 711
Scale value 1.01691 milligals per division.
- Negretti Zambra microbarometers Nos A340, A341
calibrated in millibars.
- Wet & dry bulb thermometers
- Toyota HJ47 landcruiser
- Toyota Hilux twin cab
- Bell 47G5 helicopter

OPERATIONAL PROCEDURE

Aerial photography flown by Kevron Aerial Surveys in June 1990 was used for station positioning. Individual stations on the planned traverses were transferred from the 1:100,000 topographic maps onto the 1:40,000 air photos. The gravity meter and field barometer were read at or near the preplanned station locations and the actual station locations were pinpricked onto these photos in the field. Kevron processed the photos and determined horizontal coordinates for each gravity station.

Gravity and barometric readings were made in closed loops of control from the base at Tanmurra Bore for the Brolga area and a base at Legune Station for the Legune area. Two loops were run each day. Gravity readings were corrected for instrument drift and the effects of the earth's tidal variations by means of base station repeats and the use of precalculated tidal corrections supplied by the Bureau of Mineral Resources.

At the base locations a base barometer and wet/dry bulb thermometers were read at intervals of 15 minutes so that the field barometric readings could be corrected for diurnal pressure variations and corrected for temperature and humidity. The base and field barometers were read simultaneously at the start and end of each loop to correct for relative drift between the instruments.

REDUCTION OF DATA

Final Bouguer anomaly values were computed using the following datums :

Observed Gravity - Australian National Gravity Grid (May'65 Datum)
Elevation - Australian Height Datum
Latitude - 1930 International Ellipsoid
The base station at Tanmurra Bore 8539/0001 was tied into the Australian National Gravity Grid by Wongela on the 1985 Tidal Flats Gravity Survey, when an ABA tie was flown to the BMR Pendulum Station at Wyndham Airport (5099/9930).

The base station 9032/0001 at Legune Station Homestead was tied into the Australian National Gravity Grid via ties to 8539/0001 (Tanmurra Bore) and 6448/0456 (twice) at Legune Airstrip Windsock. The latter was not an exact reoccupation as no BMR identification was found. However, the three values reduced for 9032.0001 agreed well (within 0.04 milligal).

Observed gravity values are :

5099.9930	Wyndham Airport	978414.63 milligals
8539.0001	Tanmurra Bore	978388.39
6448.0456	Legune Airstrip Windsock	978394.47
9032.0001	Legune Station Homestead	978393.02

Tanmurra Bore base 8539.0001 was assigned an elevation of 44.5 m during the 1985 survey.

Legune Station Homestead base 9032.0001 was assigned an elevation of 15.4 m via a tie to station BNT 88.505 VP 3150+6 5.21 m (= BNT 88.514 VP 1100+10)

A reduction density of 2.0 gm/cc was selected for computation of the Bouguer anomalies.

Lindsay Ingall
December 1990

**APPENDIX B
GRAVITY STATION PRINCIPAL FACTS
BONAPARTE GULF BASIN GRAVITY SURVEYS
BROLGA - EP 126 WA
LEGUNE - EP 31 NT**

BMR No.	Station No.	Observed Gravity	Height	Easting	Northing	Latitude	Longitude	Bouguer Anomaly
								mgal
9032.0002	2004	978376.64	7.9	448628	8357546	14.8559	128.5225	-9.2
9032.0003	2005	978376.55	9.2	449441	8356836	14.8624	128.5300	-9.3
9032.0004	2006	978376.22	7.5	450181	8356099	14.8691	128.5369	-10.3
9032.0005	2007	978376.08	9.5	450560	8355605	14.8735	128.5404	-10.2
9032.0006	2008	978376.78	7.9	451375	8354789	14.8809	128.5480	-10.1
9032.0007	2009	978377.54	8.5	452289	8354013	14.8880	128.5565	-9.6
9032.0008	2010	978378.41	9.0	452998	8353270	14.8947	128.5630	-8.9
9032.0009	2003	978379.20	8.0	454620	8351933	14.9068	128.5781	-8.9
9032.0010	2002	978378.14	9.5	456094	8350557	14.9193	128.5918	-10.1
9032.0011	2001	978377.24	11.6	456569	8349973	14.9246	128.5962	-10.8
9032.0012	2102	978375.87	7.4	448753	8359104	14.8419	128.5237	-9.4
9032.0013	2103	978376.19	6.3	449335	8358268	14.8494	128.5291	-9.7
9032.0014	2104	978375.77	7.0	450171	8357410	14.8572	128.5368	-10.3
9032.0015	2105	978376.33	7.5	450778	8356843	14.8623	128.5425	-9.9
9032.0016	2106	978376.40	7.5	451663	8356027	14.8697	128.5507	-10.1
9032.0017	2107	978376.79	7.9	452342	8355205	14.8772	128.5570	-10.0
9032.0018	2108	978377.34	8.2	452961	8354664	14.8821	128.5627	-9.6
9032.0019	2109	978377.74	7.5	453648	8354024	14.8879	128.5691	-9.6
9032.0020	2110	978378.27	7.5	454461	8353307	14.8944	128.5766	-9.3
9032.0021	2101	978377.56	4.6	455308	8352344	14.9031	128.5845	-11.1
9032.0022	2201	978375.71	2.3	446900	8362033	14.8153	128.5065	-9.6
9032.0023	2202	978375.40	3.1	447817	8361603	14.8193	128.5150	-9.8
9032.0024	2203	978375.05	4.9	448297	8361114	14.8237	128.5195	-10.0
9032.0025	2204	978375.42	3.8	449202	8359909	14.8346	128.5279	-10.3
9032.0026	2205	978375.76	3.7	449648	8359367	14.8395	128.5320	-10.3
9032.0027	2206	978375.88	3.9	450320	8358525	14.8471	128.5382	-10.5
9032.0028	2207	978375.58	4.2	451290	8357886	14.8529	128.5472	-10.9
9032.0029	2208	978375.34	5.8	451956	8357169	14.8594	128.5534	-11.1
9032.0030	2209	978375.26	3.1	452556	8356479	14.8657	128.5590	-12.1
9032.0031	2210	978375.17	4.8	453363	8355753	14.8722	128.5665	-12.1
9032.0032	2211	978374.18	3.6	454294	8355051	14.8786	128.5751	-13.6
9032.0033	2212	978374.58	2.8	454849	8354345	14.8850	128.5802	-13.7
9032.0034	2213	978374.03	4.2	455473	8353503	14.8926	128.5860	-14.2
9032.0035	2214	978373.20	4.7	456081	8353177	14.8956	128.5917	-15.1
9032.0036	2215	978372.75	4.3	456730	8352410	14.9025	128.5977	-16.0
9032.0037	2315	978374.60	2.3	447719	8362855	14.8079	128.5141	-10.3
9032.0038	2314	978374.75	3.8	448336	8362133	14.8145	128.5199	-10.1
9032.0039	2313	978375.22	3.0	449123	8361427	14.8209	128.5272	-10.1
9032.0040	2312	978374.71	1.7	449852	8360760	14.8269	128.5339	-11.2
9032.0041	2311	978375.51	1.6	450520	8359896	14.8347	128.5401	-10.8
9032.0042	2310	978375.19	0.7	451280	8359246	14.8406	128.5472	-11.5
9032.0043	2309	978374.72	3.5	451927	8358673	14.8458	128.5532	-11.6
9032.0044	2308	978373.93	4.1	452500	8357766	14.8540	128.5585	-12.6
9032.0045	2307	978372.81	2.8	453297	8357100	14.8601	128.5659	-14.3
9032.0046	2306	978372.59	3.1	454247	8356496	14.8655	128.5747	-14.7
9032.0047	2305	978372.54	2.7	454727	8355671	14.8730	128.5791	-15.2
9032.0048	2304	978372.49	2.5	455425	8354983	14.8800	128.5856	-15.6
9032.0049	2303	978371.78	2.3	456176	8354155	14.8867	128.5926	-16.7
9032.0050	2302	978371.29	2.0	456877	8353469	14.8930	128.5991	-17.5
9032.0051	2301	978371.08	1.9	457604	8352888	14.8982	128.6058	-18.0
9032.0052	2401	978371.50	7.8	447150	8366281	14.7769	128.5089	-18.8
9032.0053	2402	978371.82	9.1	447828	8365373	14.7852	128.5152	-10.6
9032.0054	2403	978371.90	9.8	448587	8364790	14.7905	128.5222	-10.6
9032.0055	2404	978372.24	10.8	449055	8364234	14.7955	128.5266	-10.2
9032.0056	2405	978372.17	7.7	449866	8363486	14.8023	128.5341	-11.3
9032.0057	2406	978373.09	7.4	450575	8362801	14.8085	128.5407	-10.7
9032.0058	2407	978373.77	11.3	451276	8362051	14.8153	128.5472	-9.5
9032.0059	2408	978374.81	8.3	451987	8361401	14.8212	128.5538	-9.4
9032.0060	2409	978374.85	9.6	452650	8360669	14.8278	128.5599	-9.3
9032.0061	2410	978372.92	7.1	453487	8359821	14.8355	128.5677	-12.2

9032.0062	2411	978372.02	6.3	454128	8359190	14.8411	128.5736	-13.5
9032.0063	2412	978371.40	5.4	454835	8358486	14.8476	128.5802	-14.6
9032.0064	2413	978370.69	6.4	455553	8357753	14.8542	128.5869	-15.4
9032.0065	2414	978370.34	5.4	456312	8357067	14.8604	128.5939	-16.2
9032.0066	2415	978370.17	4.5	457126	8356330	14.8671	128.6015	-16.9
9032.0067	2416	978370.59	5.1	457807	8355645	14.8733	128.6078	-16.6
9032.0068	2417	978370.02	5.9	458504	8354978	14.8793	128.6142	-17.3
9032.0069	2418	978370.22	5.1	459203	8354268	14.8858	128.6207	-17.6
9032.0070	2419	978370.82	6.0	459688	8353864	14.8894	128.6252	-16.9
9032.0071	2501	978371.55	4.9	449149	8365655	14.7826	128.5275	-11.7
9032.0072	2502	978372.00	5.5	449613	8364892	14.7895	128.5318	-11.4
9032.0073	2503	978372.31	7.8	450466	8364416	14.7939	128.5397	-10.8
9032.0074	2504	978373.43	6.4	451453	8363431	14.8028	128.5489	-10.3
9032.0075	2505	978374.17	6.7	451942	8362695	14.8095	128.5534	-9.8
9032.0076	2506	978375.16	5.6	452604	8362030	14.8155	128.5595	-9.4
9032.0077	2507	978374.60	7.8	453404	8361495	14.8203	128.5670	-9.6
9032.0078	2508	978373.04	5.2	454051	8360724	14.8273	128.5730	-12.1
9032.0079	2509	978372.18	6.0	454808	8359951	14.8343	128.5800	-13.1
9032.0080	2510	978370.25	6.6	455530	8359363	14.8396	128.5867	-15.1
9032.0081	2511	978369.82	7.1	456412	8358557	14.8469	128.5948	-15.8
9032.0082	2512	978369.71	4.1	456967	8357746	14.8543	128.6000	-16.9
9032.0083	2513	978369.85	4.7	457643	8357198	14.8593	128.6063	-16.8
9032.0084	2514	978369.69	4.8	458325	8356284	14.8675	128.6126	-17.3
9032.0085	2515	978369.86	5.6	459092	8355703	14.8728	128.6197	-17.2
9032.0086	2516	978370.12	6.2	459879	8354968	14.8795	128.6270	-17.1
9032.0087	2517	978369.66	8.0	460667	8354414	14.8845	128.6343	-17.4
9032.0088	2518	978369.76	7.5	461237	8353681	14.8911	128.6396	-17.7
9032.0089	2601	978370.23	4.4	450000	8366283	14.7770	128.5354	-12.9
9032.0090	2602	978370.79	3.7	450735	8365542	14.7837	128.5422	-12.7
9032.0091	2603	978371.55	4.5	451335	8364908	14.7894	128.5478	-12.1
9032.0092	2604	978372.67	5.8	452054	8364152	14.7963	128.5545	-11.0
9032.0093	2605	978373.31	2.6	452796	8363501	14.8022	128.5613	-11.3
9032.0094	2606	978374.01	4.2	453258	8362805	14.8085	128.5656	-10.5
9032.0095	2607	978372.88	3.2	454109	8362056	14.8153	128.5735	-12.2
9032.0096	2608	978370.55	4.7	454947	8361216	14.8229	128.5813	-14.5
9032.0097	2609	978369.32	3.8	455765	8360511	14.8293	128.5889	-16.2
9032.0098	2610	978368.41	5.0	456296	8359820	14.8355	128.5938	-17.1
9032.0099	2611	978367.81	6.0	456961	8359168	14.8414	128.6000	-17.8
9032.0100	2612	978367.40	6.2	457697	8358410	14.8483	128.6068	-18.4
9032.0101	2613	978368.56	4.1	458366	8357776	14.8540	128.6130	-18.0
9032.0102	2614	978369.24	4.6	459102	8357049	14.8606	128.6198	-17.5
9032.0103	2615	978368.71	3.9	459789	8356340	14.8670	128.6262	-18.5
9032.0104	2616	978368.96	3.6	460569	8355594	14.8738	128.6334	-18.6
9032.0105	2617	978368.65	6.6	461370	8354640	14.8824	128.6409	-18.6
9032.0106	2701	978369.34	7.4	450880	8366711	14.7731	128.5436	-12.9
9032.0107	2702	978370.02	9.5	451346	8366000	14.7796	128.5479	-12.0
9032.0108	2703	978371.19	8.7	452090	8365169	14.7871	128.5548	-11.4
9032.0109	2704	978371.87	8.5	452938	8364676	14.7916	128.5627	-10.9
9032.0110	2705	978371.77	9.0	453612	8363899	14.7986	128.5689	-11.2
9032.0111	2706	978371.05	8.4	454395	8363361	14.8035	128.5762	-12.3
9032.0112	2707	978369.83	8.8	455278	8362440	14.8118	128.5844	-13.8
9032.0113	2708	978368.42	7.7	455975	8361689	14.8186	128.5909	-15.8
9032.0114	2709	978367.18	8.1	456670	8360960	14.8252	128.5973	-17.2
9032.0115	2710	978366.73	8.5	457277	8360539	14.8290	128.6029	-17.8
9032.0116	2711	978367.10	7.9	457871	8359731	14.8364	128.6084	-17.8
9032.0117	2712	978367.31	7.0	458515	8359030	14.8427	128.6144	-18.1
9032.0118	2713	978367.89	5.5	459228	8358327	14.8491	128.6210	-18.2
9032.0119	2714	978368.02	6.5	459985	8357515	14.8564	128.6281	-18.1
9032.0120	2715	978367.68	7.9	460650	8356886	14.8621	128.6342	-18.4
9032.0121	2716	978367.87	7.1	461355	8356123	14.8690	128.6408	-18.7
9032.0122	2717	978367.82	8.1	462060	8355433	14.8753	128.6473	-18.8
9032.0123	2718	978367.71	8.4	462797	8354620	14.8826	128.6541	-19.2
9032.0124	2719	978366.67	14.2	464981	8352423	14.9025	128.6744	-19.8
9032.0125	2801	978365.19	9.0	457345	8362944	14.8073	128.6036	-18.2
9032.0126	2802	978364.14	6.5	458311	8362411	14.8121	128.6126	-20.0
9032.0127	2803	978364.26	5.0	458933	8361791	14.8177	128.6183	-20.5

9032.0128	2804	978364.11	3.6	459639	8361061	14.8244	128.6249	-21.3
9032.0129	2805	978364.29	6.1	460355	8360375	14.8306	128.6315	-20.8
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9032.0131	2807	978364.61	5.3	461664	8359045	14.8426	128.6437	-21.2
9032.0132	2808	978364.65	3.7	462352	8358325	14.8491	128.6501	-21.8
9032.0133	2809	978365.36	5.6	463221	8357514	14.8565	128.6581	-21.0
9032.0134	2810	978365.33	5.0	463646	8356980	14.8613	128.6621	-21.4
9032.0135	2811	978365.34	5.7	464672	8356059	14.8697	128.6716	-21.6
9032.0136	2812	978365.60	5.7	465260	8355490	14.8748	128.6771	-21.5
9032.0137	2813	978365.57	8.1	465917	8354885	14.8803	128.6832	-21.3
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9032.0142	2901	978363.46	7.5	458610	8363313	14.8040	128.6154	-20.1
9032.0143	2902	978363.44	5.6	459273	8362724	14.8093	128.6215	-20.8
9032.0144	2903	978363.28	7.3	460092	8362163	14.8144	128.6291	-20.8
9032.0145	2904	978363.49	6.7	460789	8361312	14.8221	128.6356	-21.1
9032.0146	2905	978363.65	7.7	461476	8360655	14.8281	128.6420	-21.0
9032.0147	2906	978363.89	4.0	462046	8359859	14.8353	128.6472	-21.9
9032.0148	2907	978363.89	5.9	462883	8359219	14.8411	128.6550	-21.7
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9032.0151	2910	978364.61	6.3	464968	8357188	14.8594	128.6744	-21.7
9032.0152	2911	978364.88	6.3	465737	8356402	14.8666	128.6815	-21.8
9032.0153	2912	978365.20	6.7	466424	8355721	14.8727	128.6879	-21.6
9032.0154	2913	978365.53	5.6	467070	8355034	14.8789	128.6939	-21.8
9032.0155	2914	978366.43	5.6	467733	8354375	14.8849	128.7000	-21.2
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9032.0157	2916	978367.62	4.7	469163	8352975	14.8976	128.7133	-20.8
9032.0158	2917	978368.34	5.2	469737	8352239	14.9043	128.7186	-20.2
9032.0159	2918	978369.12	6.3	470585	8351727	14.9089	128.7265	-19.4
9032.0160	2919	978369.75	6.6	471302	8350955	14.9159	128.7332	-19.0
9032.0161	3001	978363.92	9.0	458658	8364817	14.7904	128.6158	-18.7
9032.0162	3002	978363.31	6.7	459505	8364256	14.7955	128.6237	-20.1
9032.0163	3003	978362.92	5.8	460168	8363537	14.8020	128.6298	-21.0
9032.0164	3004	978362.80	6.2	460661	8362607	14.8104	128.6344	-21.4
9032.0165	3005	978362.73	2.8	461463	8362136	14.8147	128.6419	-22.4
9032.0166	3006	978362.92	4.4	462192	8361404	14.8213	128.6486	-22.1
9032.0167	3007	978362.97	5.1	462906	8360579	14.8288	128.6552	-22.3
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9032.0169	3009	978363.19	3.9	464031	8359240	14.8409	128.6657	-22.9
9032.0170	3010	978363.75	5.6	464792	8358606	14.8466	128.6727	-22.2
9032.0171	3011	978364.54	6.5	465735	8357731	14.8546	128.6815	-21.5
9032.0172	3012	978364.77	5.4	466390	8357081	14.8604	128.6876	-21.8
9032.0173	3013	978365.13	5.3	467039	8356470	14.8660	128.6936	-21.7
9032.0174	3014	978365.73	4.2	467760	8355728	14.8727	128.7003	-21.7
9032.0175	3015	978366.19	4.4	468491	8355000	14.8793	128.7071	-21.5
9032.0176	3016	978368.92	6.0	471404	8352268	14.9040	128.7341	-19.5
9032.0177	3017	978369.77	6.5	472170	8351618	14.9099	128.7413	-18.8
9032.0178	3018	978370.39	6.3	472739	8350972	14.9157	128.7465	-18.5
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9032.0181	3103	978362.65	3.5	461174	8363683	14.8007	128.6392	-21.7
9032.0182	3104	978362.38	2.8	462179	8362832	14.8084	128.6485	-22.5
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9032.0187	3109	978364.18	3.3	465679	8359329	14.8401	128.6810	-22.0
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9032.0191	3113	978366.03	4.3	468484	8356450	14.8662	128.7070	-21.1
9032.0192	3114	978366.66	4.8	469239	8355742	14.8726	128.7141	-20.6
9032.0193	3115	978367.02	5.2	469729	8355194	14.8775	128.7186	-20.3

9032.0194	3116	978369.12	4.8	472407	8352371	14.9013	128.7435	-19.4
9032.0195	3117	978370.16	6.3	473118	8351869	14.9076	128.7501	-18.3
9032.0196	3118	978371.31	5.0	473952	8351082	14.9148	128.7578	-17.8
9032.0197	3201	978364.08	5.0	463598	8363988	14.7980	128.6617	-19.8
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9032.0201	3205	978365.19	2.8	466371	8361277	14.8225	128.6875	-20.3
9032.0202	3206	978365.85	3.1	467082	8360566	14.8289	128.6941	-19.8
9032.0203	3207	978366.70	4.0	467865	8359881	14.8351	128.7013	-19.1
9032.0204	3208	978366.76	4.1	468568	8359108	14.8421	128.7079	-19.3
9032.0205	3209	978366.47	5.8	469282	8358416	14.8484	128.7145	-19.5
9032.0206	3210	978366.72	5.4	469978	8357615	14.8557	128.7209	-19.6
9032.0207	3211	978367.03	4.4	470760	8356973	14.8615	128.7282	-19.8
9032.0208	3212	978366.90	4.0	471492	8356247	14.8680	128.7350	-20.3
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9032.0216	3220	978372.37	5.4	477249	8350455	14.9205	128.7885	-16.9
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9032.0286	3911	978365.50	12.2	469648	8354490.6	14.883915	128.7178	-20.6
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9032.0295	3902	978367.54	8.4	471294	8352962.7	14.897761	128.7331	-20.0
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9032.0297	4011	978367.88	3.3	469704	8353116	14.8963	128.7183	-20.8
9032.0298	4010	978367.31	6.7	469854	8353289.6	14.8947	128.7197	-20.5
9032.0299	4009	978366.06	13.6	470005	8353463.2	14.8932	128.7211	-20.1
9032.0300	4008	978364.99	17.4	470156	8353636.8	14.8916	128.7225	-20.3
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9032.0302	4006	978366.14	11.3	470457	8353984	14.8885	128.7254	-20.4
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9032.0307	4001	978366.98	4.9	471211	8354852	14.8806	128.7324	-20.6
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9032.0309	4102	978374.14	9.2	503509	8325944	15.1422	129.0327	-24.2
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9032.0315	4108	978373.38	4.7	502970	8331590	15.0911	129.0277	-23.7
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9032.0320	4113	978374.76	1.0	502642	8336781	15.0442	129.0246	-21.0
9032.0321	4114	978375.07	1.0	502858	8337768	15.0353	129.0266	-20.3
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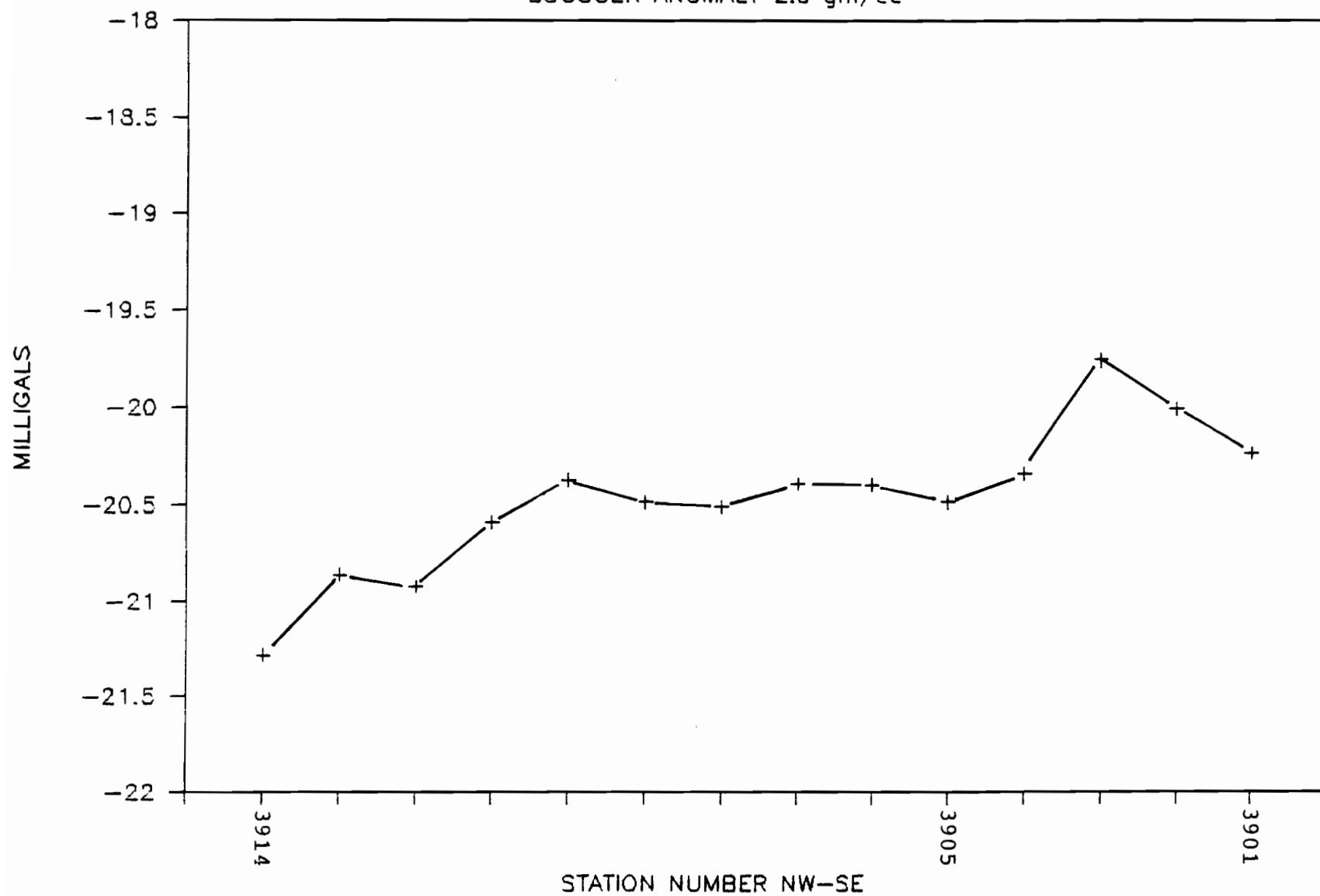
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APPENDIX C
BOUGUER ANOMALY AND ELEVATION PROFILES
BONAPARTE GULF BASIN GRAVITY SURVEYS
BROLGA - EP 126 WA
LINES 39,40 & 64

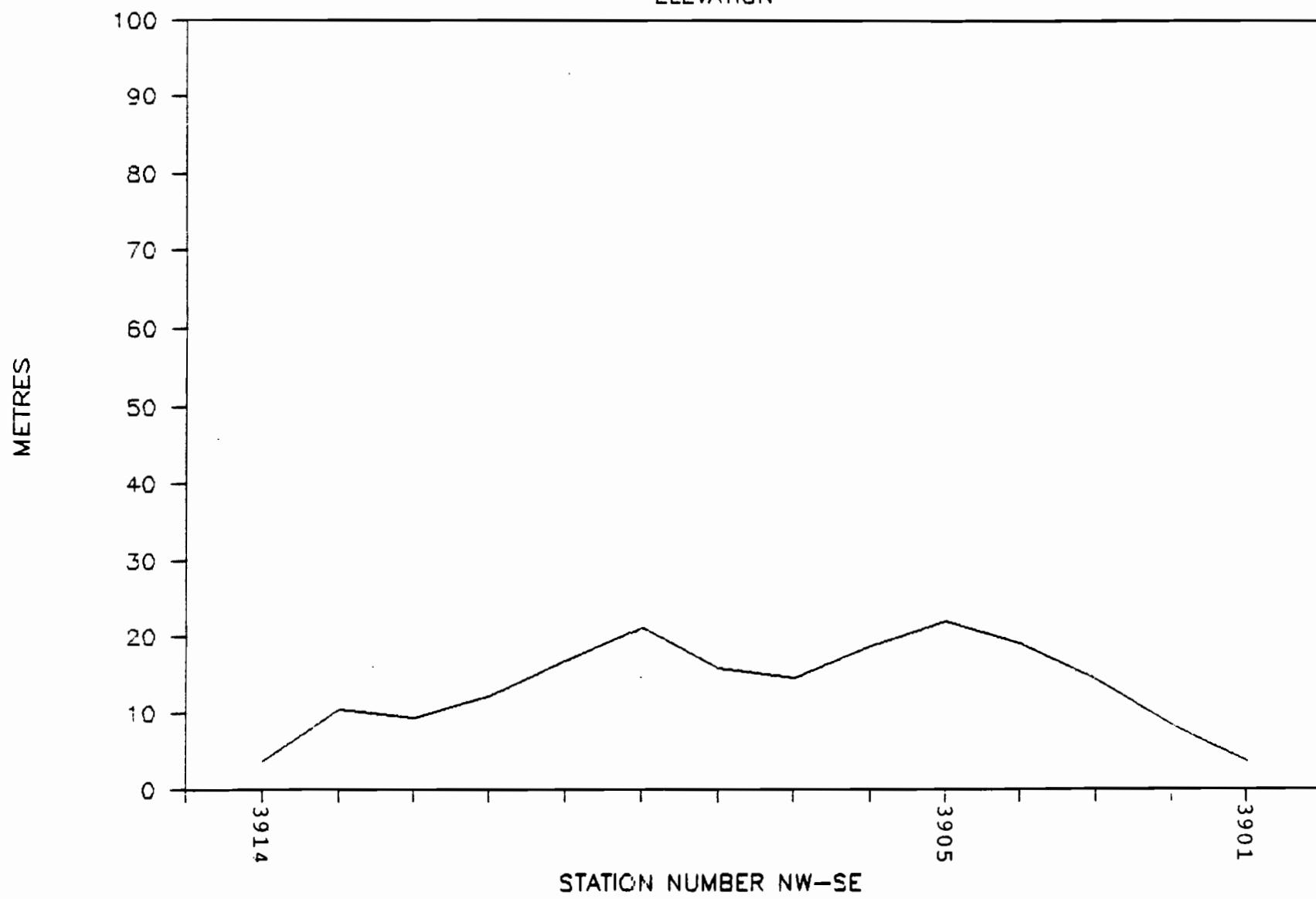
BROLGA LINE 39

BOUGUER ANOMALY 2.0 gm/cc



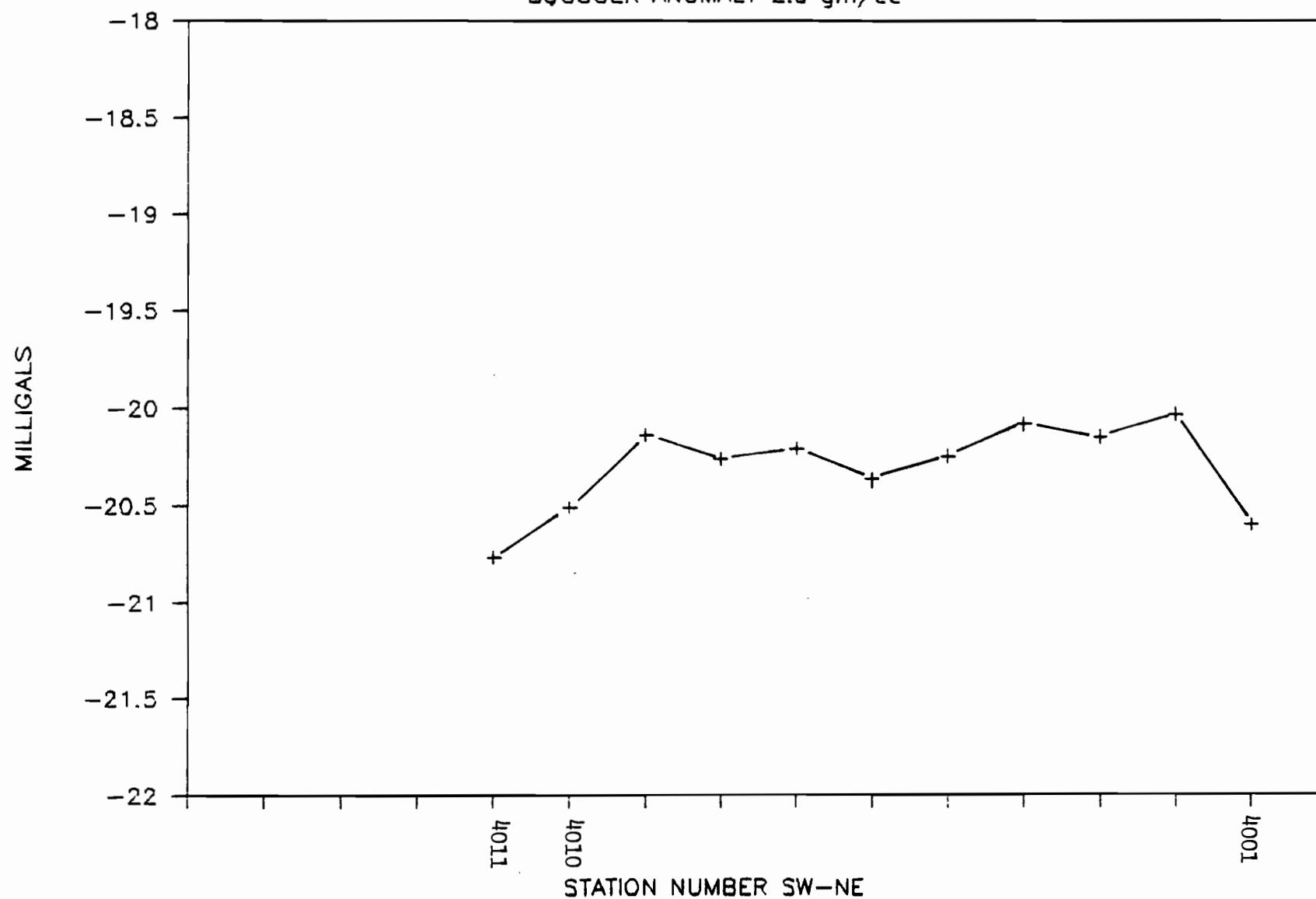
BROLGA LINE 39

ELEVATION



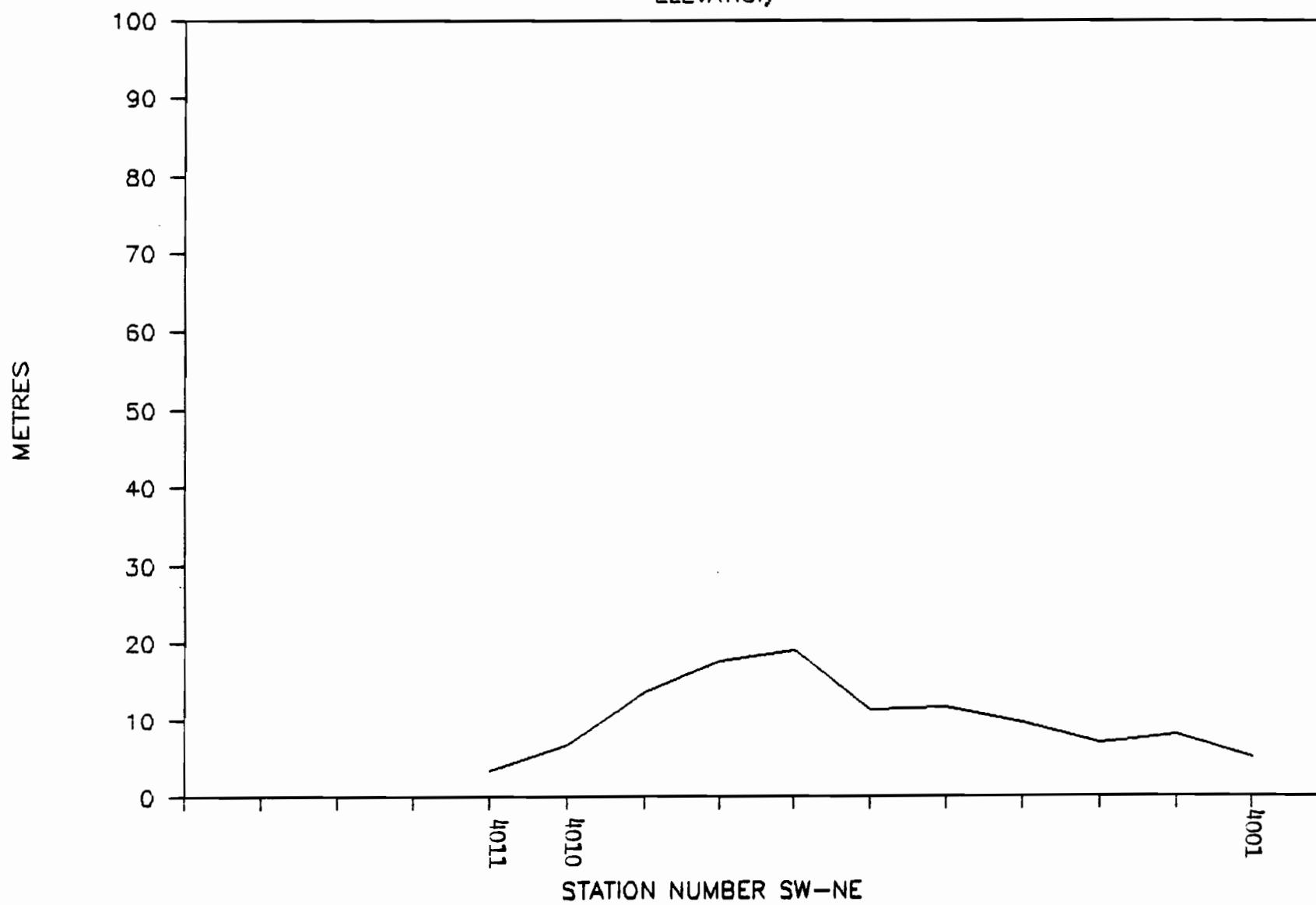
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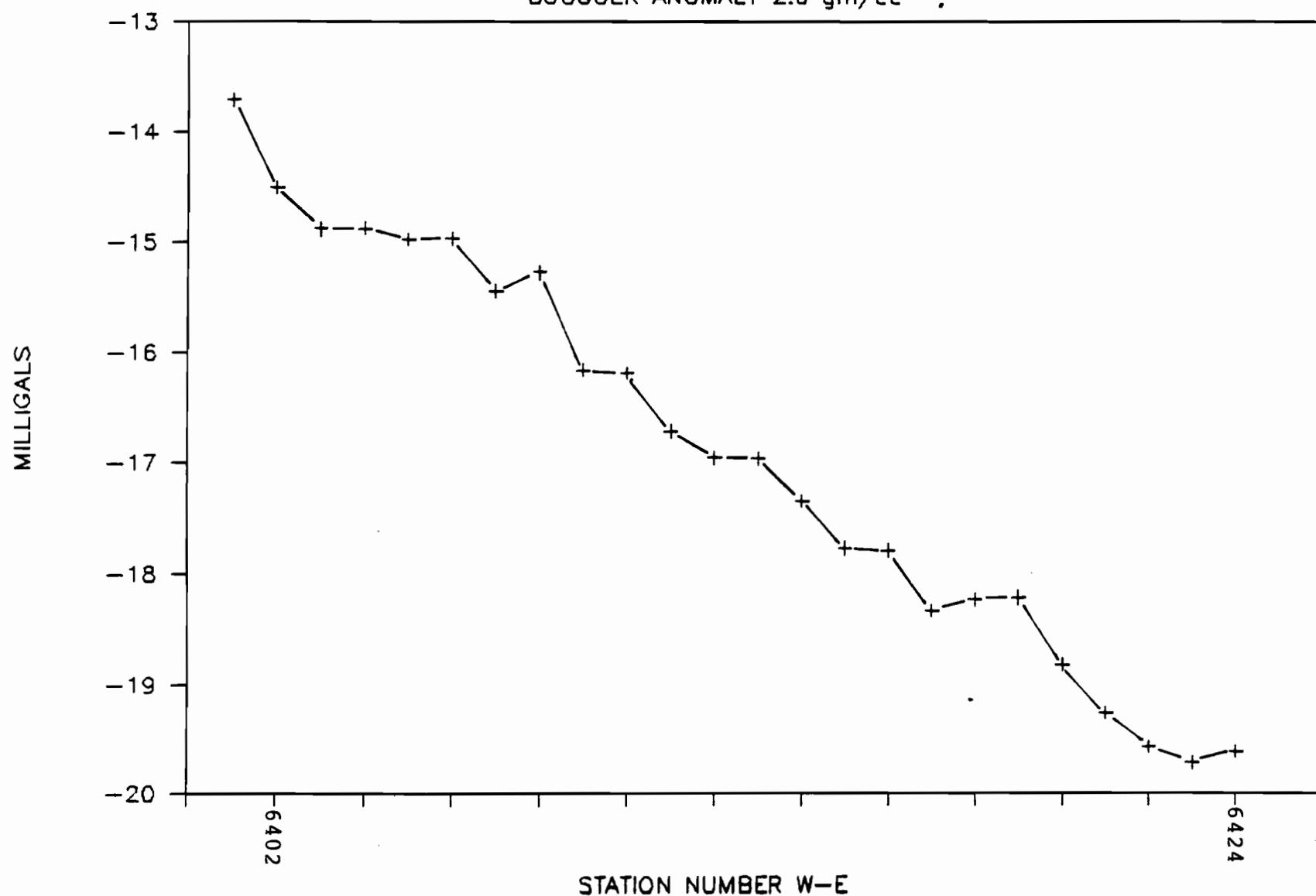
BROLGA LINE 40

ELEVATION



BROLGA LINE 64

BOUGUER ANOMALY 2.0 gm/cc



BROLGA LINE 64

ELEVATION

