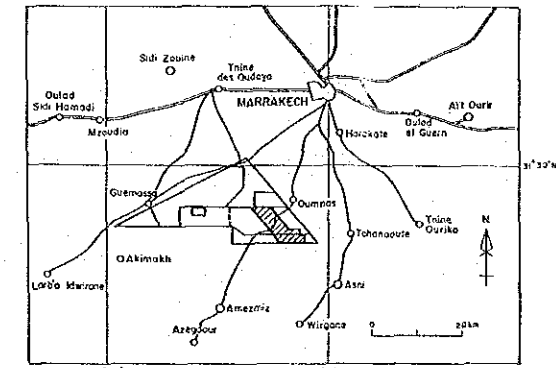


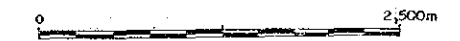
COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

Fig II-24
GRAVITY CONTOUR MAP

($\rho=2.40\text{g/cm}^3$)



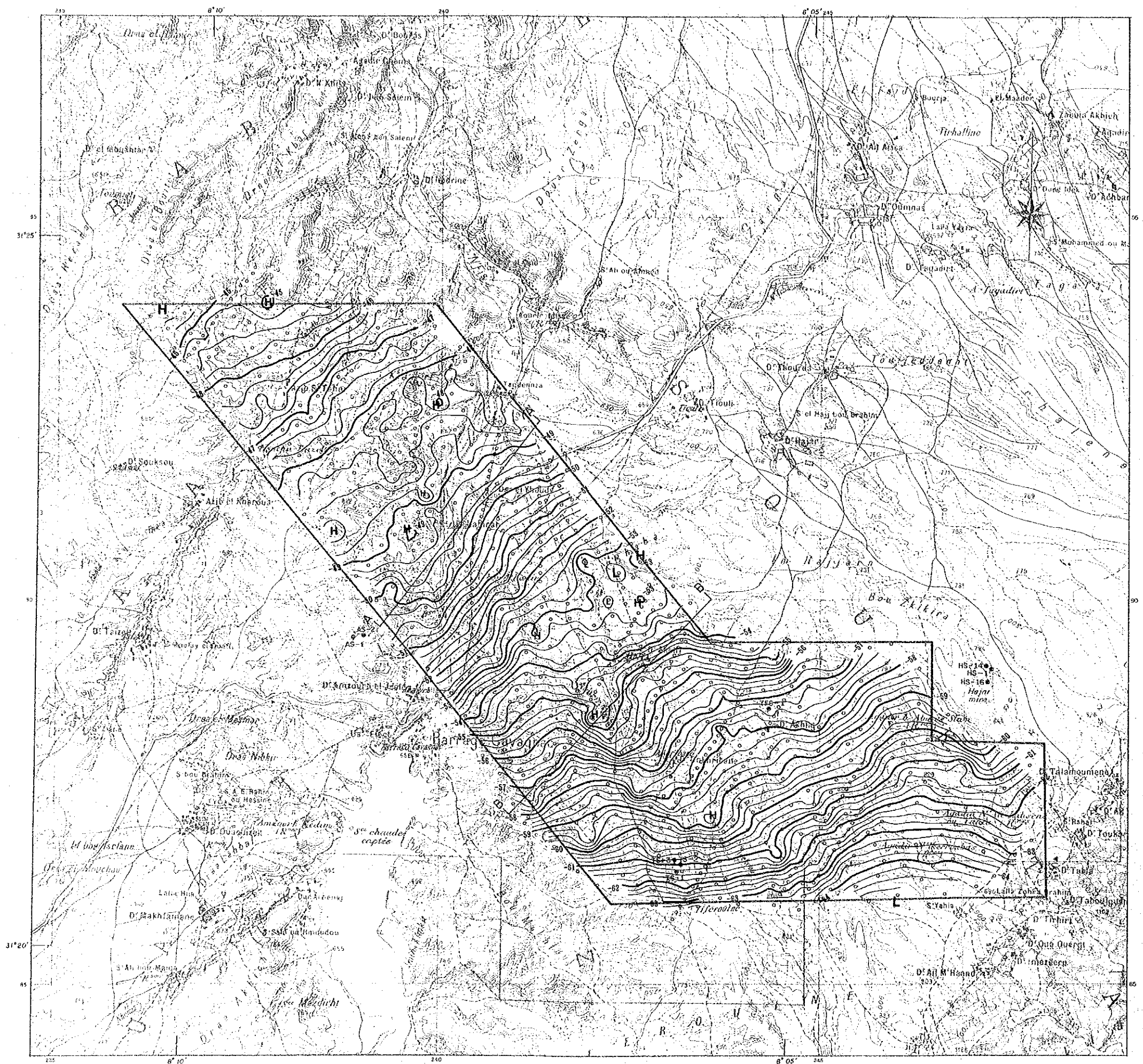
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FEBRUARY 1985
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Scale 1:50,000

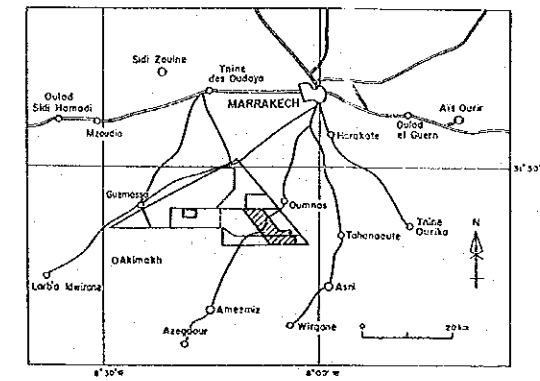
LEGEND

- HS-1 Boring Site
- Gravity Station
- 40
—45 Gravity Contour (milligal)
- (H) High Gravity Zone
- (L) Low Gravity Zone



COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

Fig II - 25
GRAVITY CONTOUR MAP
($\rho=2.67\text{g/cm}^3$)



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FEBRUARY 1989
Prepared by MINDECO

0 2,500m
Scale 1:50,000

LEGEND

- HS - 1 Boring Site
- Gravity Station
- ≡ Gravity Contour (milligal)
- (H) High Gravity Zone
- (L) Low Gravity Zone

GRAVIMETRIC SURVEY OF MOROCCO (G-H RELATION, 3RD ORDER)
DENSITY = 2.405

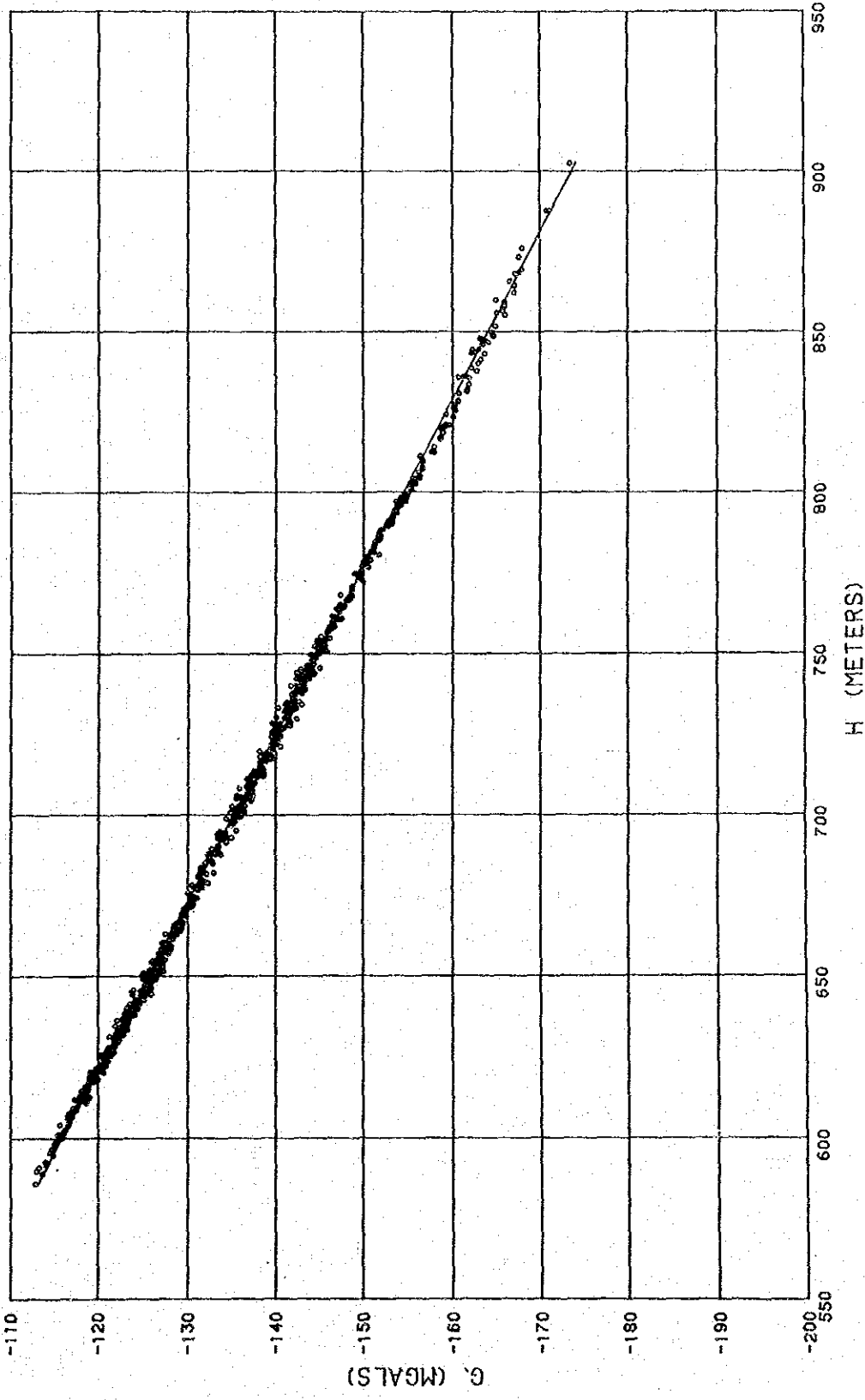
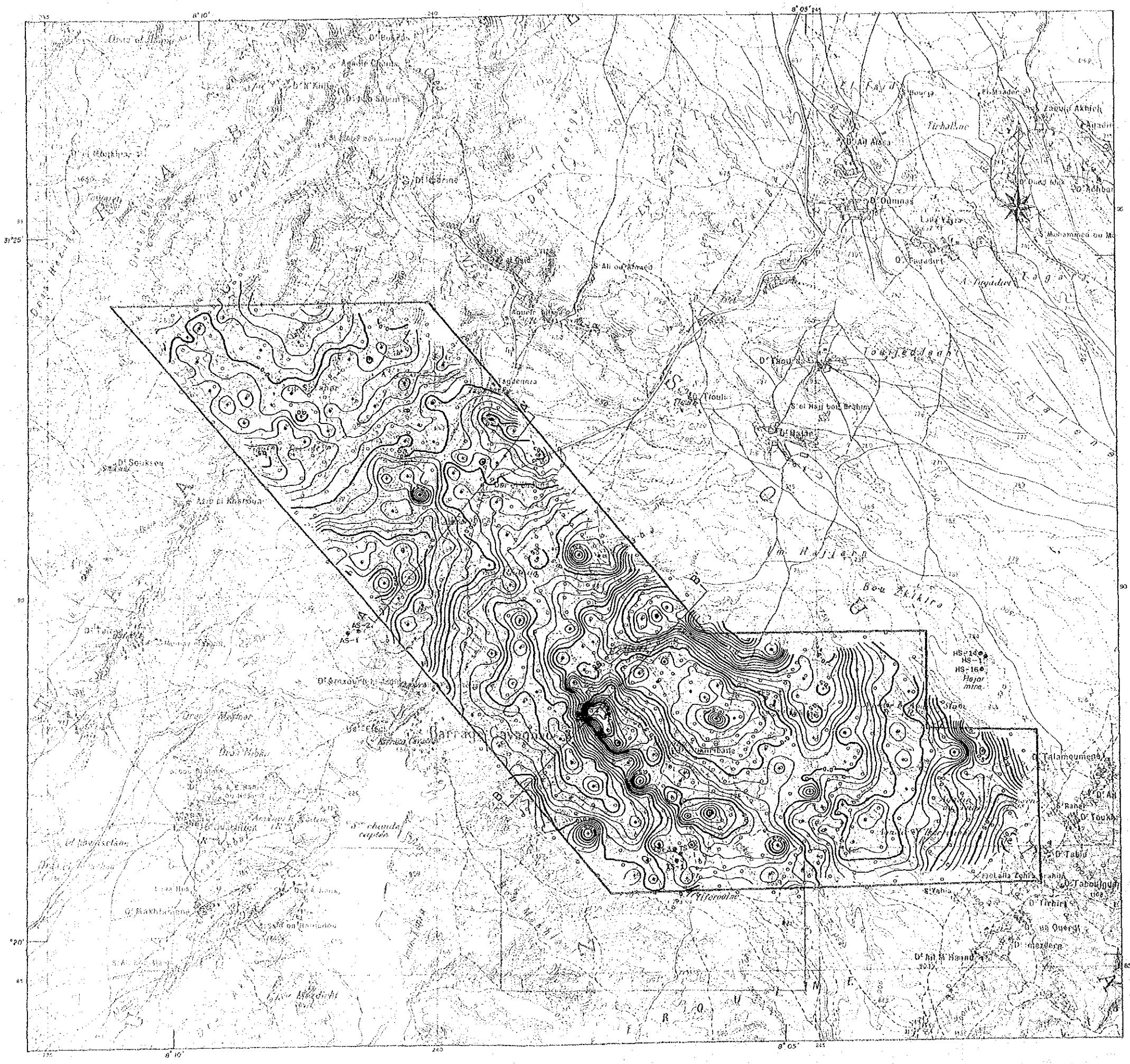
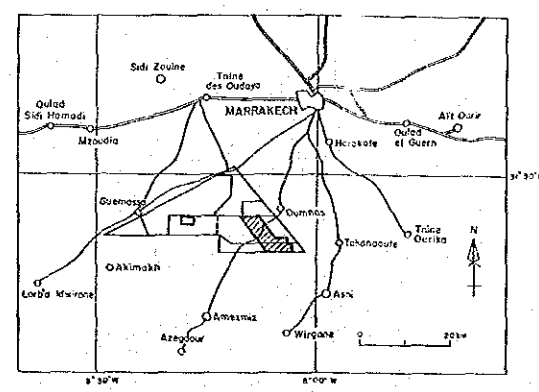


Fig. II - 26 Gravity versus Height Relation

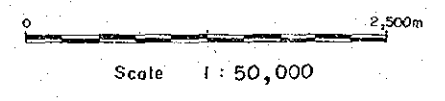


COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

Fig II-28
THREE-ORDER RESIDUAL MAP

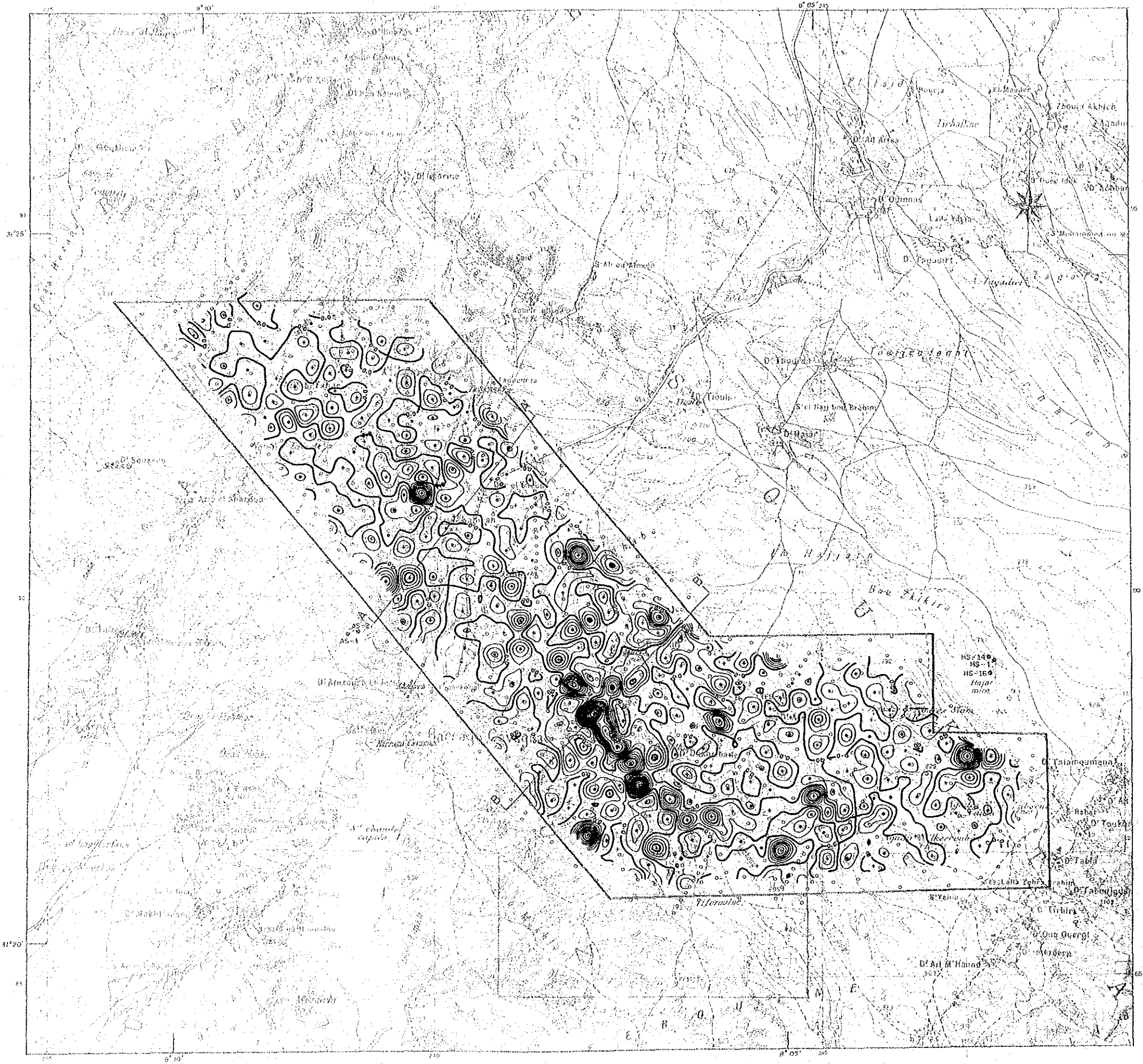


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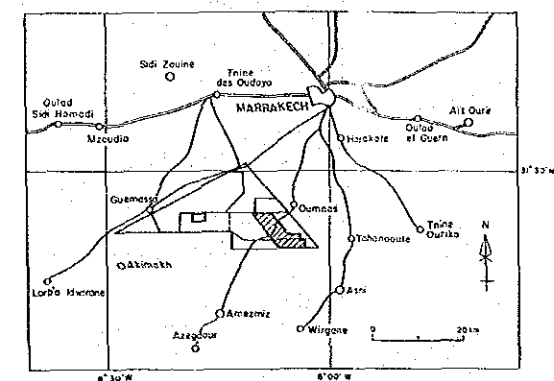
LEGEND

- HS-1 Boring Site
- Gravity Station
- ▬ 1.0
▬ 0.5 Gravity Contour (milligal)
- ⊕ High Gravity Zone
- ⊖ Low Gravity Zone



COOPERATIVE MINERAL EXPLORATION
 IN
 HAOUZ CENTRAL AREA, MOROCCO
 (PHASE II)

FIG. II-2:
 SECOND VERTICAL DERIVATIVES MAP
 (S = 150m)



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0 2,500m
 Scale 1 : 25,000

LEGEND

- HS - 1 Boring Site
- Gravity Station
- Contour of Second Vertical Derivatives (mgal/Km²)
- ⊕ High zone
- ⊖ Low zone

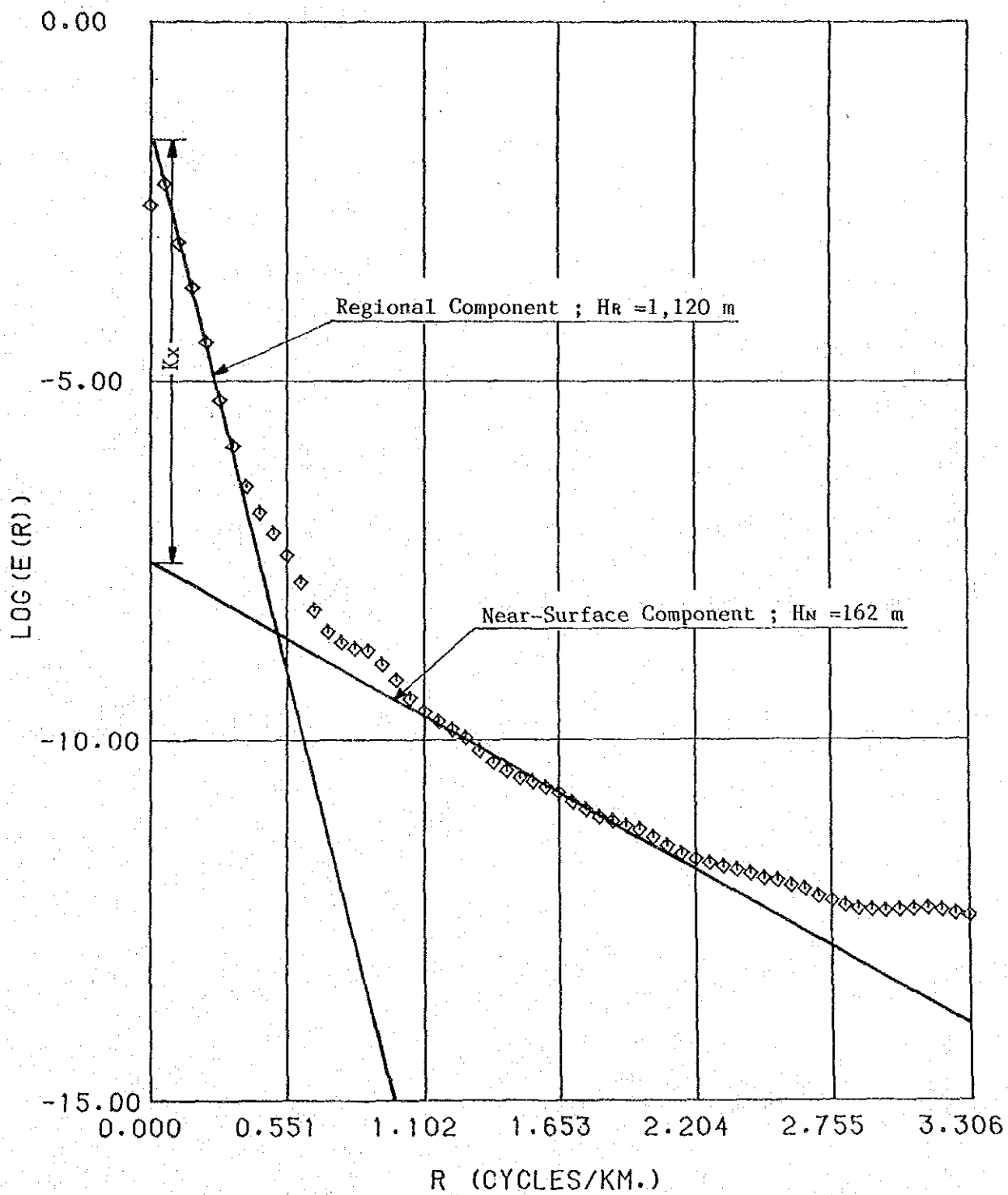
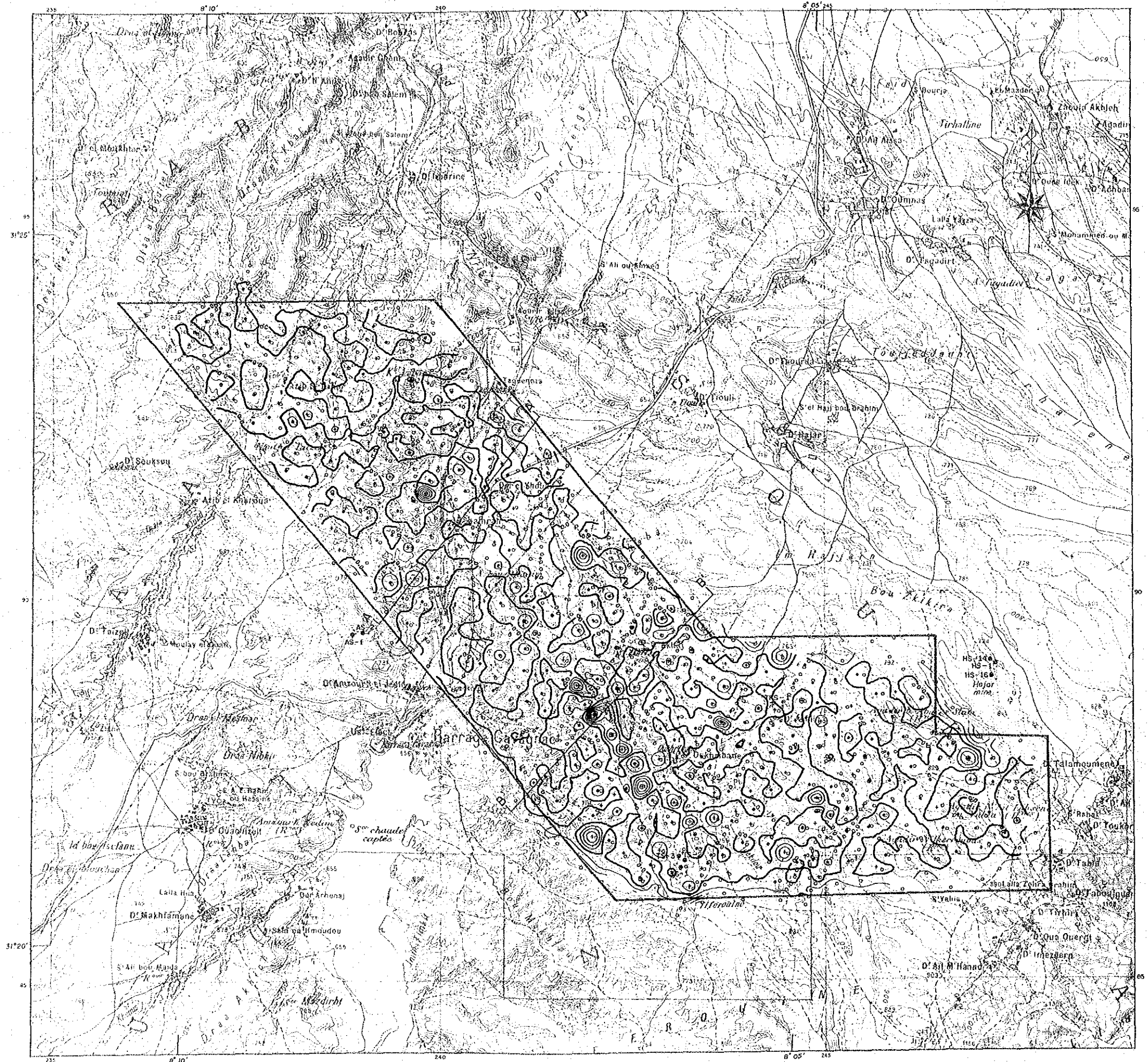
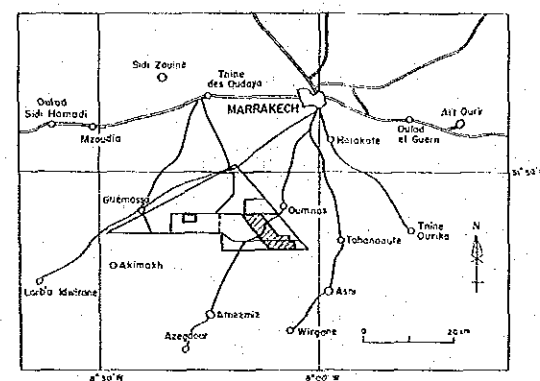


Fig. II-30 Energy Spectrum

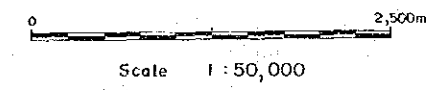


COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

FIG. II - 31
RESULTS OF SPECTRAL ANALYSIS
(SHALLOW STRUCTURE)

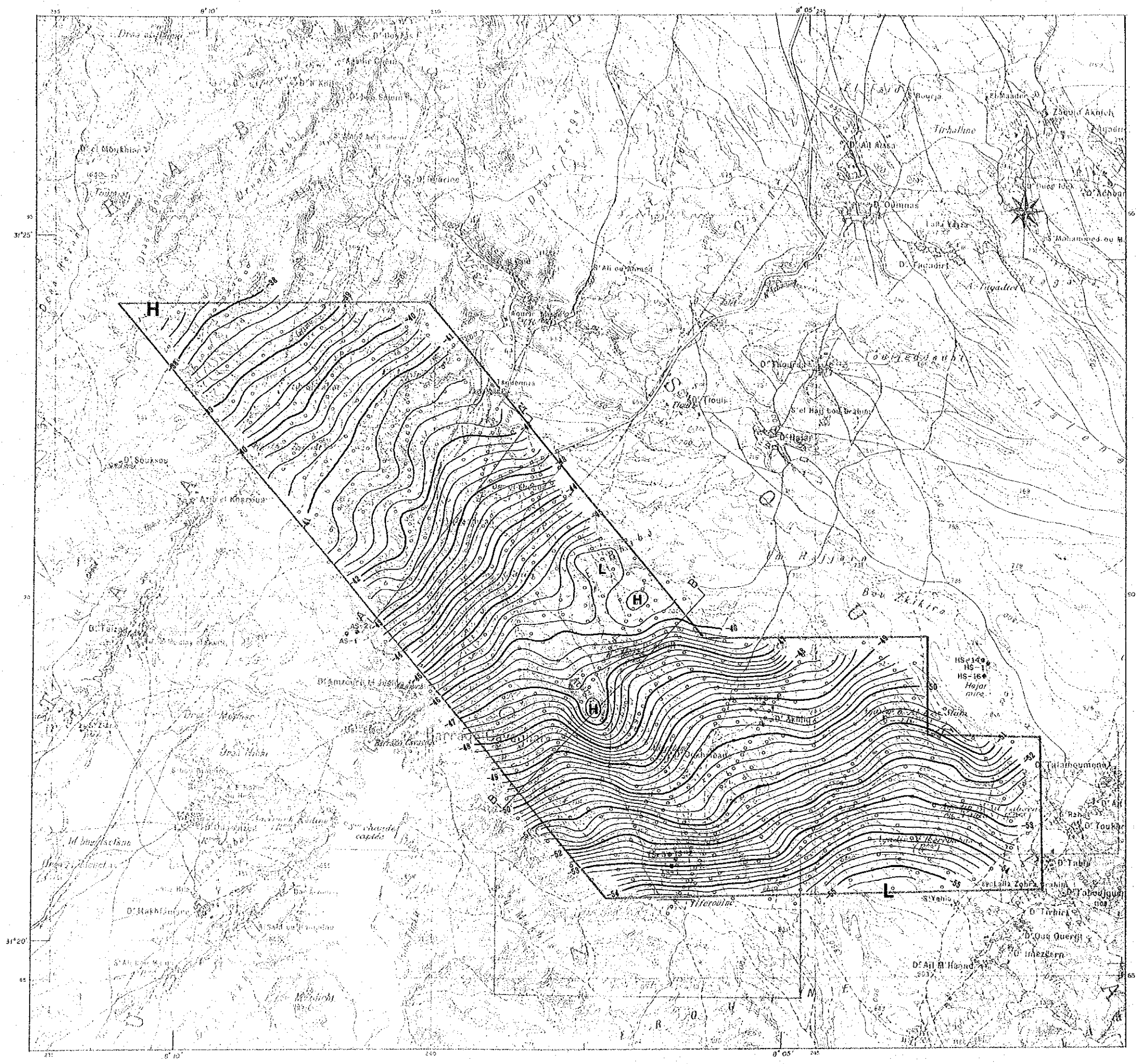


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LEGEND

- HS - 1 Boring Site
- Gravity Station
- ▭ Gravity Contour (milligal)
- ⊕ High Gravity Zone
- ⊖ Low Gravity Zone



COOPERATIVE MINERAL EXPLORATION
 IN
 HAOUZ CENTRAL AREA, MOROCCO
 (PHASE II)

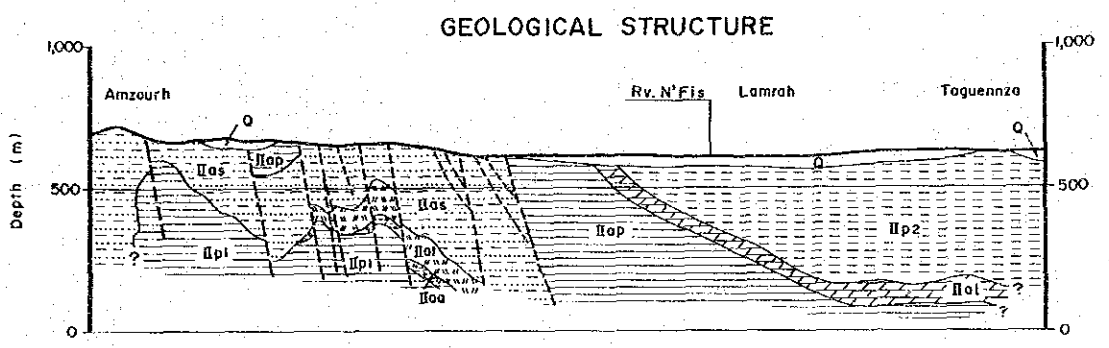
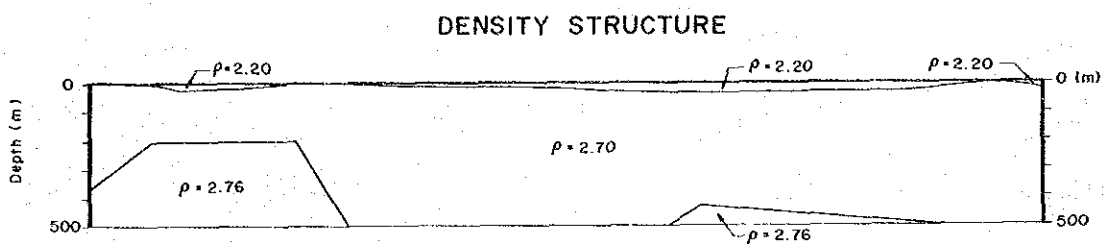
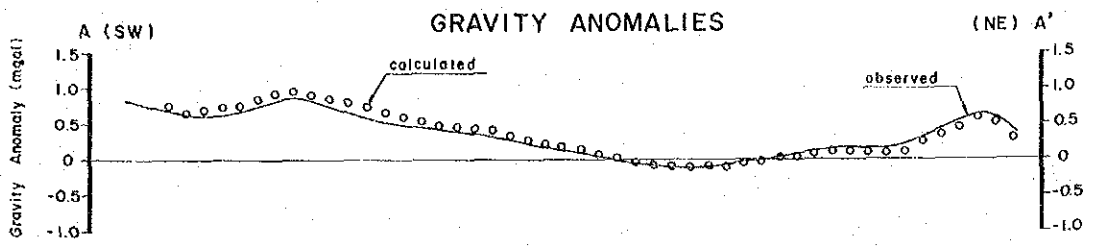
FIG. II-3;
 RESULTS OF SPECTRAL ANALYSIS
 (DEEP STRUCTURE)

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 METAL MINING AGENCY OF JAPAN
 FEBRUARY 1969
 Prepared by MINDECO

0 2,500m
 Scale 1 : 50,000

LEGEND

- HS-1 Boring Site
- Gravity Station
- ▬ Gravity Contour (milligal)
- H High Gravity Zone
- L Low Gravity Zone



L E G E N D

Quaternary	Q	Gravel - sand - mud
Pliocene	IIp2	Pelitic semischist with limestone
	IIot	Limestone - mudstone alternation
	IIov	Acidic volcanics
Palaeozoic	IIop	Pelitic schist
Permian	IIos	Sandstone - mudstone alternation
Carboniferous	IIot	Tuff, acidic volcanics
	IIoa	Tuff - calcareous siltstone alternation
	IIpt	Pelitic schist

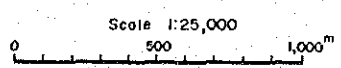
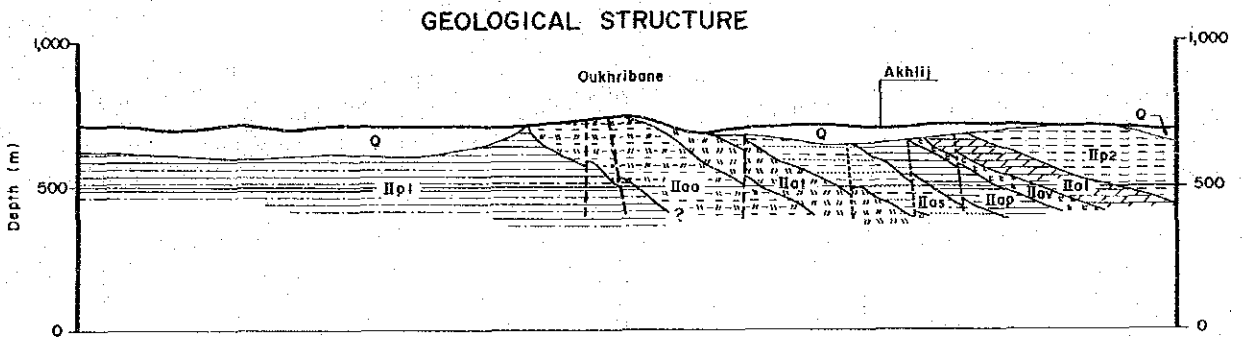
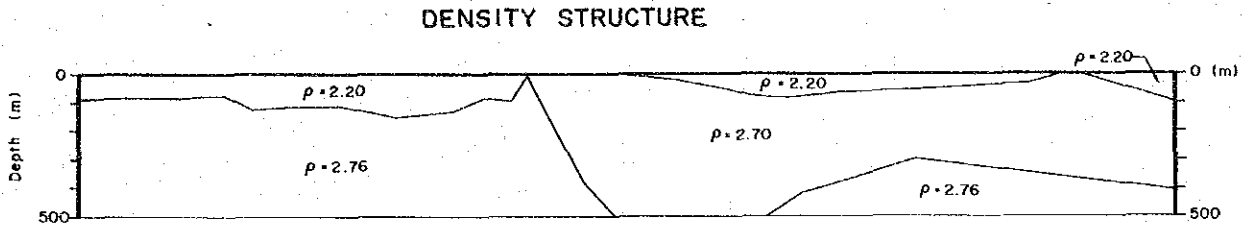
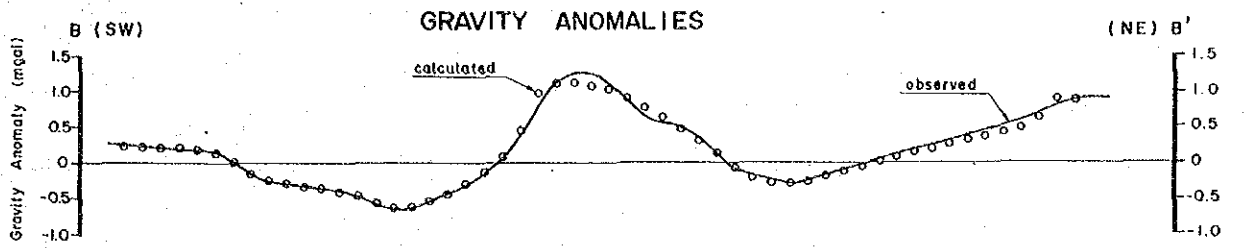


Fig. II-33 Cross Section of A-A'



LEGEND

Quaternary Pliocene	<div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div>	<p>Q Gravel - sand - mud</p> <p>IIp2 Pelitic semischist with limestone</p> <p>IIa1 Limestone - mudstone alternation</p>
Palaeozoic Permian Carboniferous	<div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 10px; margin-bottom: 5px;"></div>	<p>IIa2 Acidic volcanics</p> <p>IIa3 Pelitic schist</p> <p>IIa4 Sandstone - mudstone alternation</p> <p>IIa5 Tuff, acidic volcanics</p> <p>IIa6 Tuff - calcareous siltstone alternation</p> <p>IIa7 Pelitic schist</p>

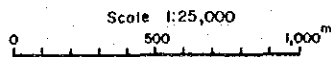
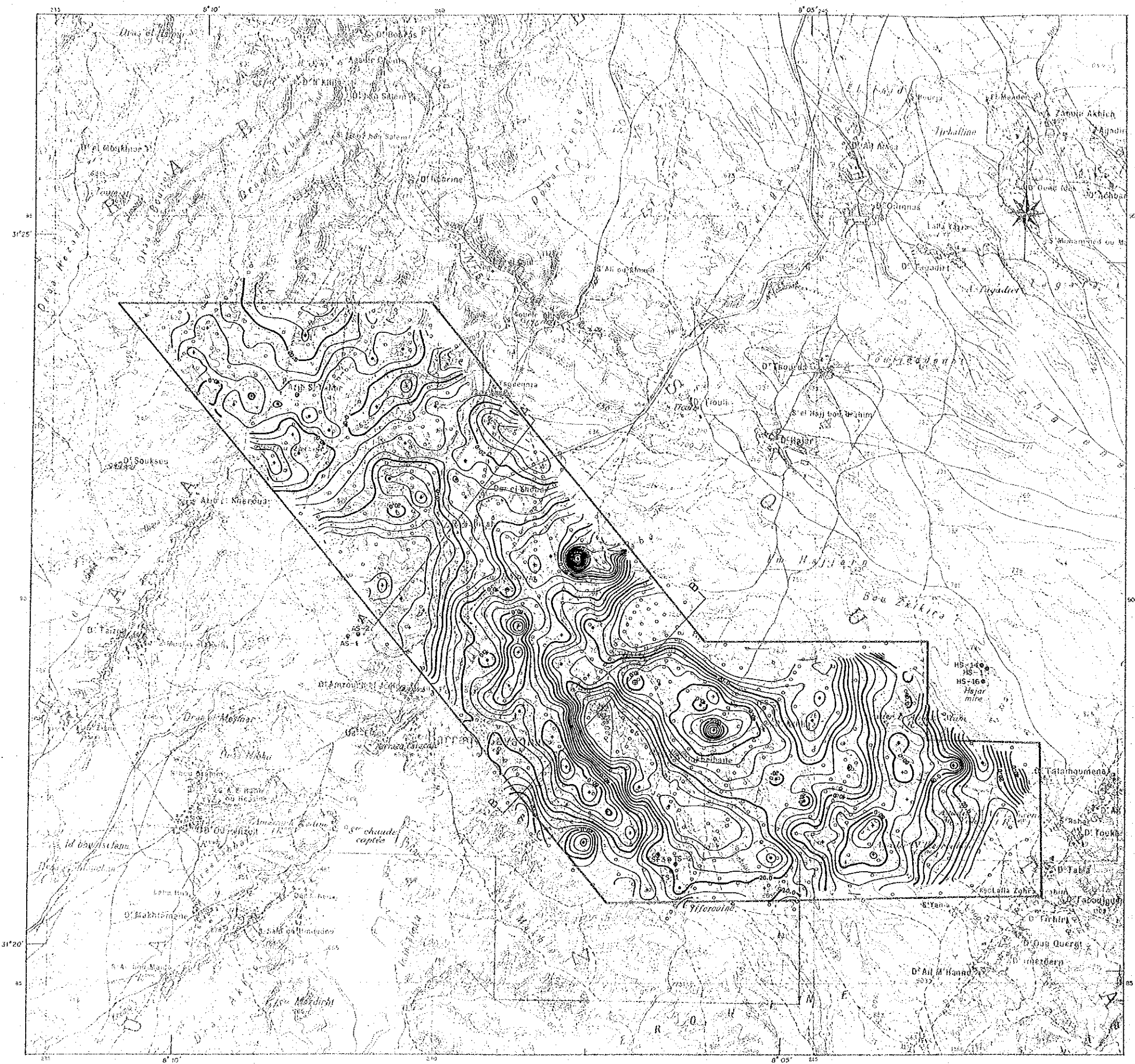
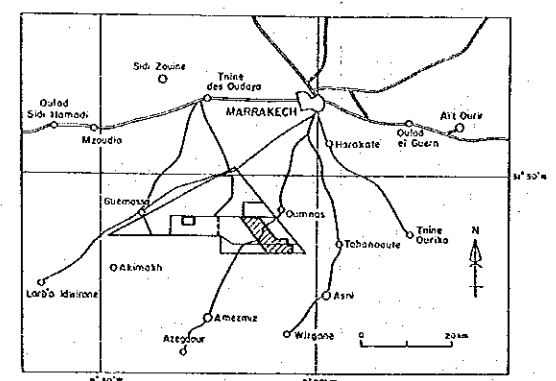


Fig. II-34 Cross Section of B-B'

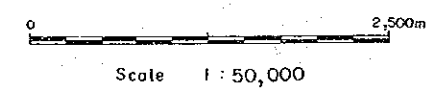


COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

FIG. II-35
STRUCTURE CONTOUR MAP ON THE
TOP OF THE BASEMENT

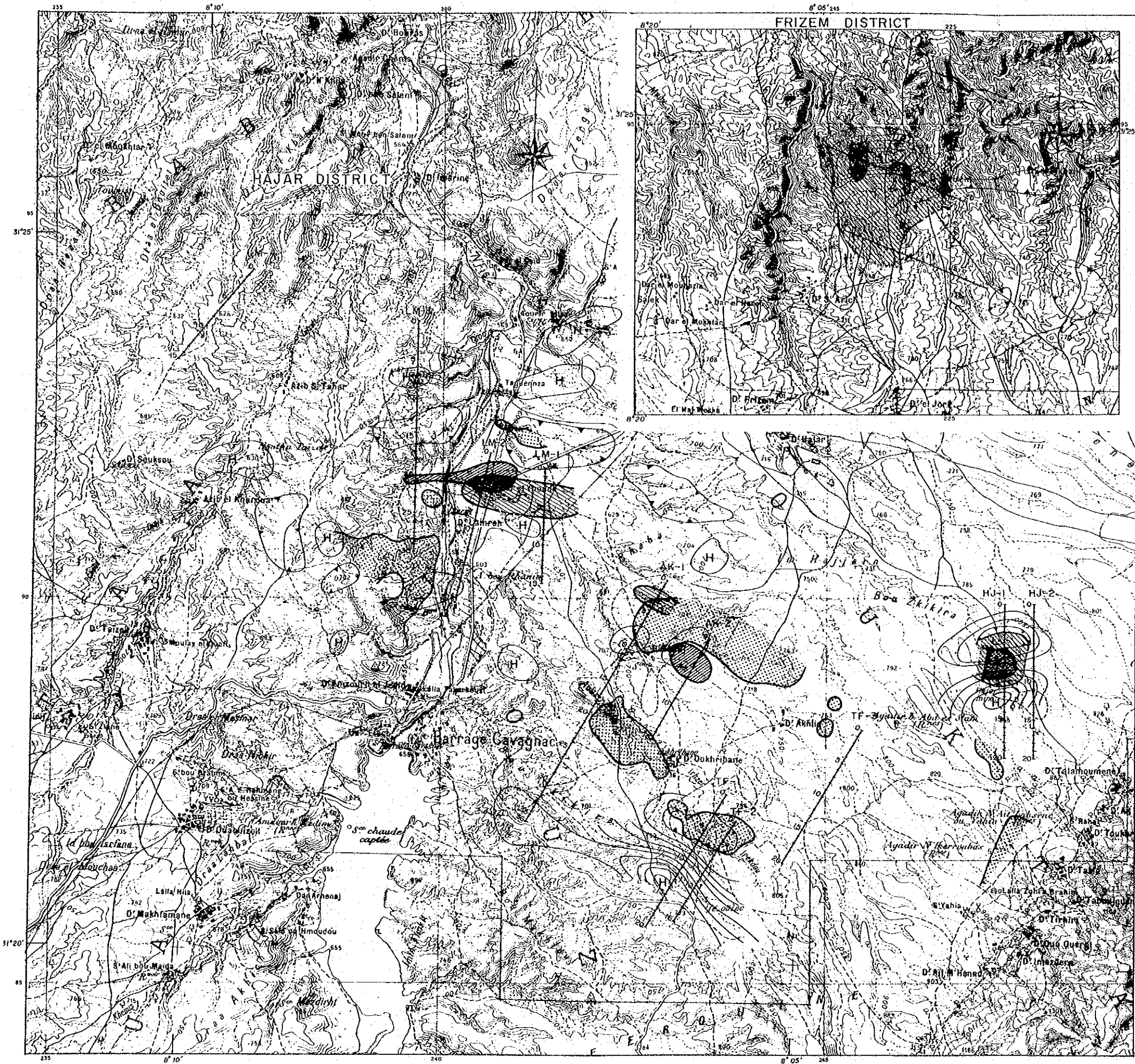


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LEGEND

- HS-1 Boring Site
- Gravity Station
- ▨ Depth of Erosion (meter)
- ⊕ Deep
- ⊙ Shallow



COOPERATIVE MINERAL EXPLORATION
 IN
 HAOUZ CENTRAL AREA, MOROCCO
 (PHASE II)

FIG. II-36
 MAP OF GEOPHYSICAL INTERPRETATION

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 FEBRUARY 1989
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0 2,500m
 Scale 1:50,000

- LEGEND
- | | | |
|----|---------------------------------|------|
| | Station Number Survey Line | |
| HJ | Hajar | |
| TF | Tiferouine | |
| AK | Akhlij - Oukhrifane | |
| LM | Lamrah | |
| FZ | Frizem | |
| | IP Anomaly (n = 5, >3.0%) | } IP |
| | Low Resistivity (n = 5, <354-m) | |
| | High Gravity Anomaly (>0.5mgal) | |
| | High Magnetic Anomaly | |
| | Low Magnetic Anomaly | |
| | Low Resistivity (CSAMT) | |

Tab. II-3 List of Gravity Data

(density for correction $\rho = 2.4$)

LEGEND

ANOM·B	Bouguer anomaly(mgal)	
ANOM·F	Free-air anomaly(mgal)	
NORM·G	normal gravity(gal)	
B·G·C	Bouguer correction(mgal)	
F·E·C	Free-air correction(mgal)	
TERR·C	total terrain correction(mgal)	
ETC	leveling method and gravimeter	L: leveling LG: L & R. G-type
C·30M	sketch correction(mgal)	
ABS·G	absolute gravity(gal)	
LEVEL	altitude of station(m)	
LONG·	longitude	-8 7.62 8° 7.62'W
LAT·	latitude	3123.25 31° 23.25'N
OBS·DAY	date of observation	
ST·NO	station number	

ST. NO	OBS. DAY	LAT.	LONG.	LEVEL	ABS. G	C. 30M	ETC	* LG *	TERR. C	F. E. C	B. G. C	NORM. G	ANOM. F	ANOM. B
1	88 924	3123.25	-8 7.62	600.94	0.979263732	0.012	0	0	1.065	186.264	-60.068	0.979434019	17.042	-43.025
2	88 924	3123.14	-8 7.65	604.13	0.979262760	0.0	0	0	1.056	187.246	-60.384	0.979433871	17.191	-43.194
3	88 928	3123.06	-8 7.67	605.50	0.979262350	0.024	0	0	1.089	187.668	-60.520	0.979433764	17.342	-43.178
4	88 928	3122.93	-8 7.70	606.90	0.979261569	0.0	0	0	1.090	188.101	-60.659	0.979433590	17.270	-43.390
5	88 924	3122.82	-8 7.73	608.28	0.979261370	0.0	0	0	1.133	188.527	-60.797	0.979433443	17.587	-43.210
6	88 924	3122.69	-8 7.73	606.34	0.979261166	0.0	0	0	1.219	187.928	-60.604	0.979433269	17.044	-43.560
7	88 924	3122.59	-8 7.72	613.76	0.979259489	0.0	0	0	1.172	189.910	-61.242	0.979433135	17.416	-43.826
8	88 926	3122.48	-8 7.72	613.79	0.979258542	0.0	0	0	1.185	190.227	-61.344	0.979432988	16.966	-44.378
9	88 926	3122.37	-8 7.71	615.49	0.979257734	0.0	0	0	1.208	190.750	-61.512	0.979432841	16.851	-44.662
10	88 924	3122.26	-8 7.71	616.27	0.979257242	0.024	0	0	1.271	190.992	-61.590	0.979432694	16.831	-44.759
11	88 924	3122.15	-8 7.73	617.84	0.979256410	0.0	0	0	1.284	191.475	-61.746	0.979432546	16.623	-45.125
12	88 924	3122.05	-8 7.76	618.89	0.979255737	0.0	0	0	1.336	191.800	-61.851	0.979432413	16.461	-45.389
13	88 926	3123.33	-8 7.54	610.10	0.979262204	0.012	0	0	1.022	189.087	-60.977	0.979434126	18.188	-42.739
14	88 926	3123.36	-8 7.46	612.93	0.979261477	0.0	0	0	0.986	189.960	-61.258	0.979434166	18.258	-43.001
15	88 926	3123.39	-8 7.37	612.89	0.979261592	0.0	0	0	0.985	189.949	-61.254	0.979434206	18.319	-42.936
16	88 926	3123.43	-8 7.28	612.80	0.979261775	0.0	0	0	0.990	189.921	-61.246	0.979434260	18.427	-42.818
17	88 926	3123.46	-8 7.20	613.44	0.979261957	0.0	0	0	0.994	190.118	-61.309	0.979434300	18.770	-42.539
18	88 926	3123.49	-8 7.11	614.95	0.979261686	0.0	0	0	0.994	190.584	-61.459	0.979434340	18.924	-42.535
19	88 926	3123.54	-8 6.99	618.91	0.979260368	0.0	0	0	0.991	191.805	-61.852	0.979434407	18.757	-43.095
20	88 926	3123.43	-8 6.97	621.71	0.979259691	0.0	0	0	1.001	192.669	-62.130	0.979434260	19.101	-43.029
21	88 926	3123.32	-8 7.03	618.17	0.979259768	0.0	0	0	1.049	191.576	-61.779	0.979434112	18.283	-43.498
22	88 926	3123.21	-8 7.13	626.42	0.979257759	0.0	0	0	1.015	194.124	-62.598	0.979433965	18.933	-43.666
23	88 926	3123.13	-8 7.21	619.51	0.979259033	0.0	0	0	1.073	191.990	-61.912	0.979433858	18.227	-43.685
24	88 926	3123.06	-8 7.25	625.67	0.979257410	0.0	0	0	1.031	193.893	-62.324	0.979433784	18.570	-43.955
25	88 926	3122.98	-8 7.29	626.44	0.979257009	0.0	0	0	1.040	194.130	-62.601	0.979433657	18.522	-44.079
26	88 926	3122.90	-8 7.34	626.08	0.979256791	0.0	0	0	1.063	194.018	-62.564	0.979433550	18.322	-44.242
27	88 926	3122.95	-8 7.40	626.70	0.979256845	0.0	0	0	1.037	194.210	-62.626	0.979433617	18.466	-44.161
28	88 926	3122.99	-8 7.48	620.80	0.979258513	0.0	0	0	1.034	192.390	-62.040	0.979433671	18.266	-43.775
29	88 926	3123.00	-8 7.59	618.69	0.979259237	0.0	0	0	1.075	191.738	-61.851	0.979433684	18.365	-43.465
30	88 926	3121.80	-8 7.99	612.06	0.979255912	0.238	0	0	1.698	189.692	-61.172	0.979432078	15.223	-45.949
31	88 926	3121.84	-8 7.87	620.47	0.979254378	0.216	0	0	1.727	192.287	-62.007	0.979432132	16.260	-45.747
32	88 926	3121.94	-8 7.78	620.58	0.979254771	0.0	0	0	1.488	192.322	-62.019	0.979432245	16.316	-45.702
33	88 926	3123.33	-8 7.63	601.72	0.979263929	0.0	0	0	1.035	186.503	-60.145	0.979434126	17.331	-42.814
34	88 926	3123.41	-8 7.61	600.91	0.979264329	0.012	0	0	1.034	186.253	-60.064	0.979434233	17.383	-42.882
35	88 926	3123.52	-8 7.57	600.39	0.979264985	0.0	0	0	1.004	186.092	-60.013	0.979434380	17.701	-42.312
36	88 926	3123.57	-8 7.56	598.01	0.979265683	0.0	0	0	1.038	185.358	-59.776	0.979434447	17.603	-42.173
37	88 926	3123.67	-8 7.52	596.83	0.979266263	0.0	0	0	1.026	184.994	-59.659	0.979434581	17.702	-41.957
38	88 926	3123.76	-8 7.53	591.00	0.979268081	0.024	0	0	1.076	185.196	-59.080	0.979434701	17.651	-41.429
39	88 926	3123.83	-8 7.51	592.76	0.979267547	0.012	0	0	1.026	183.739	-59.255	0.979434795	17.517	-41.738
40	88 926	3123.97	-8 7.45	589.09	0.979268427	0.024	0	0	1.018	182.608	-58.890	0.979434983	17.069	-41.831
41	88 926	3123.83	-8 7.35	602.13	0.979265298	0.024	0	0	0.992	186.630	-60.186	0.979434795	18.125	-42.061
42	88 926	3121.41	-8 7.59	681.62	0.979238856	0.012	0	0	1.231	211.154	-68.077	0.979431556	19.685	-48.392
43	88 927	3121.51	-8 7.71	678.99	0.979239918	0.036	0	0	1.451	210.341	-67.816	0.979431690	20.021	-47.795
44	88 927	3121.28	-8 7.45	707.02	0.979232469	0.024	0	0	1.519	218.989	-70.586	0.979431382	20.587	-49.009
45	88 927	3121.44	-8 7.43	689.91	0.979237201	0.072	0	0	1.519	218.710	-68.890	0.979431596	20.873	-48.026
46	88 927	3121.08	-8 7.33	713.21	0.979230228	0.0	0	0	1.448	220.897	-71.208	0.979431115	21.457	-49.751
47	88 927	3120.86	-8 7.12	727.32	0.979225336	0.060	0	0	1.428	225.252	-72.608	0.979430820	21.460	-51.148
48	88 927	3120.79	-8 6.98	737.94	0.979222535	0.024	0	0	1.666	228.527	-73.660	0.979430727	21.791	-51.869
49	88 927	3120.62	-8 6.78	739.09	0.979220702	0.048	0	0	1.585	228.881	-73.773	0.979430499	20.669	-53.105
50	88 927	3120.52	-8 6.61	739.84	0.979219936	0.012	0	0	1.363	229.112	-73.848	0.979430366	20.046	-53.801

ST. NO	DBS. DAY	LAT.	LONG.	LEVEL	ABS. G.	C. 30M	ETC	* LG *	TERR. C	F. E. C.	B. G. C	NORM. G	ANOM. F	ANOM. B
51	88 927	3120.41	-8 6.29	753.02	0.979216210	0.0	0	0	1.368	233.180	-75.154	0.979430219	20.539	-54.614
52	88 927	3120.41	-8 6.14	760.58	0.979214536	0.0	0	0	1.402	235.512	-75.902	0.979430219	21.231	-54.671
53	88 927	3120.57	-8 6.04	758.50	0.979216389	0.0	0	0	1.344	234.869	-75.696	0.979430433	22.170	-53.526
54	88 927	3120.64	-8 6.19	760.93	0.979216292	0.0	0	0	1.352	235.619	-75.937	0.979430526	22.737	-53.200
55	88 927	3120.78	-8 6.11	750.16	0.979219841	0.024	0	0	1.333	232.298	-74.871	0.979430660	22.812	-52.058
56	88 927	3120.70	-8 6.42	751.64	0.979218657	0.0	0	0	1.597	232.754	-75.017	0.979430660	22.402	-52.615
57	88 927	3120.81	-8 6.30	751.13	0.979219516	0.0	0	0	1.308	232.591	-74.965	0.979430754	22.662	-52.303
58	88 927	3120.80	-8 6.52	742.73	0.979213550	0.024	0	0	1.505	230.004	-74.134	0.979430740	22.119	-52.015
59	88 927	3120.83	-8 6.66	739.79	0.979223192	0.024	0	0	1.413	229.098	-73.843	0.979430780	22.922	-50.921
60	88 927	3120.96	-8 6.80	732.87	0.979234447	0.048	0	0	1.729	226.943	-73.157	0.979430954	22.184	-50.973
61	88 927	3121.09	-8 6.97	709.84	0.979230528	0.0	0	0	1.295	219.858	-70.875	0.979431128	20.503	-50.372
62	88 927	3121.19	-8 7.14	710.07	0.979231844	0.0	0	0	1.246	219.930	-70.898	0.979431262	21.808	-49.090
63	88 927	3121.27	-8 7.25	694.43	0.979235412	0.012	0	0	1.307	215.106	-69.347	0.979431369	20.456	-48.892
64	88 927	3121.32	-8 7.16	693.76	0.979235749	0.0	0	0	1.271	214.897	-69.280	0.979431436	20.482	-48.799
65	88 927	3120.90	-8 6.28	750.79	0.979230100	0.0	0	0	1.297	232.491	-74.933	0.979430874	23.014	-51.918
66	88 928	3121.02	-8 6.48	745.58	0.979221907	0.0	0	0	1.368	230.884	-74.417	0.979431034	23.124	-51.292
67	88 928	3121.02	-8 6.66	733.33	0.979234533	0.024	0	0	1.646	227.104	-73.203	0.979431034	22.249	-50.954
68	88 928	3121.13	-8 6.82	734.45	0.979235131	0.012	0	0	1.273	227.452	-73.514	0.979431208	22.647	-50.667
69	88 928	3121.21	-8 6.87	717.56	0.979239374	0.060	0	0	1.370	222.240	-71.640	0.979431289	21.695	-49.945
70	88 928	3121.32	-8 6.82	721.45	0.979238922	0.024	0	0	1.297	223.441	-72.026	0.979431436	22.224	-49.802
71	88 928	3121.40	-8 6.85	717.74	0.979230266	0.0	0	0	1.267	222.274	-71.658	0.979431543	22.284	-49.373
72	88 928	3121.51	-8 6.99	712.21	0.979232339	0.024	0	0	1.301	220.589	-71.110	0.979431690	22.538	-48.572
73	88 928	3121.40	-8 7.07	697.44	0.979235277	0.0	0	0	1.261	216.033	-69.646	0.979431543	21.029	-48.617
74	88 928	3121.43	-8 7.24	685.56	0.979238069	0.0	0	0	1.306	212.368	-68.467	0.979431583	20.160	-48.308
75	88 928	3121.57	-8 7.18	706.34	0.979234028	0.012	0	0	1.570	218.778	-70.528	0.979431770	22.606	-47.922
76	88 928	3121.61	-8 7.31	688.63	0.979238464	0.012	0	0	1.282	213.314	-68.771	0.979431824	21.236	-47.536
77	88 928	3121.61	-8 7.43	659.37	0.979244575	0.060	0	0	1.426	204.289	-65.870	0.979431824	18.467	-47.403
78	88 928	3121.65	-8 7.61	638.86	0.979249222	0.0	0	0	1.483	197.960	-63.833	0.979431877	16.787	-47.046
79	88 928	3121.68	-8 7.74	636.83	0.979250042	0.024	0	0	1.391	197.335	-63.632	0.979431917	16.851	-46.781
80	88 928	3121.04	-8 6.34	743.80	0.979226588	0.0	0	0	1.267	230.335	-74.240	0.979431061	23.199	-51.041
81	88 928	3121.08	-8 6.20	730.76	0.979237110	0.0	0	0	1.286	226.313	-72.948	0.979431115	22.194	-50.754
82	88 928	3120.98	-8 6.23	744.46	0.979222111	0.0	0	0	1.282	230.540	-74.306	0.979430981	22.952	-51.354
83	88 928	3121.61	-8 6.96	705.47	0.979234292	0.0	0	0	1.174	218.509	-70.441	0.979431824	22.152	-48.290
84	88 928	3121.70	-8 7.04	699.80	0.979236125	0.0	0	0	1.214	216.760	-69.879	0.979431944	22.154	-47.725
85	88 928	3121.82	-8 7.11	701.12	0.979236459	0.0	0	0	1.230	217.169	-70.011	0.979432105	22.754	-47.257
86	88 928	3121.97	-8 7.13	691.42	0.979239162	0.012	0	0	1.354	214.174	-69.048	0.979432306	22.386	-46.663
87	88 928	3121.76	-8 7.23	701.63	0.979236142	0.0	0	0	1.511	217.326	-70.061	0.979432025	22.954	-47.107
88	88 928	3121.88	-8 7.33	695.19	0.979237936	0.024	0	0	1.329	215.340	-69.423	0.979432185	22.420	-47.003
89	88 928	3121.79	-8 7.38	687.72	0.979239225	0.048	0	0	1.383	213.034	-68.682	0.979432065	21.577	-47.105
90	88 928	3121.85	-8 7.51	677.41	0.979241923	0.024	0	0	1.342	209.855	-67.659	0.979432145	20.975	-46.684
91	88 928	3121.83	-8 7.65	664.59	0.979244940	0.036	0	0	1.304	205.858	-66.387	0.979432145	20.874	-46.363
92	88 928	3121.93	-8 7.52	671.19	0.979238822	0.036	0	0	1.371	207.933	-67.041	0.979432252	20.874	-46.167
93	88 928	3121.99	-8 7.26	692.84	0.979238890	0.012	0	0	1.354	214.613	-69.189	0.979432332	22.525	-46.664
94	88 929	3123.18	-8 7.00	629.40	0.979256608	0.0	0	0	1.026	195.033	-62.894	0.979433925	18.752	-44.142
95	88 929	3123.08	-8 6.95	631.59	0.979255495	0.0	0	0	1.044	196.718	-63.112	0.979433791	18.466	-44.645
96	88 929	3123.00	-8 6.88	635.38	0.979254356	0.036	0	0	1.087	196.888	-63.488	0.979433684	18.647	-44.841
97	88 929	3122.94	-8 6.79	640.12	0.979252798	0.0	0	0	1.073	198.349	-63.958	0.979433604	18.616	-45.342
98	88 929	3122.86	-8 6.69	645.05	0.979251279	0.0	0	0	1.091	199.870	-64.448	0.979433497	18.744	-45.704
99	88 929	3122.78	-8 6.60	649.89	0.979249768	0.0	0	0	1.109	201.364	-64.928	0.979433390	18.851	-46.077
100	88 929	3122.72	-8 6.51	657.05	0.979248014	0.0	0	0	1.131	203.571	-65.638	0.979433300	19.407	-46.232

ST.NO	OBS.DAY	LAT.	LONG.	LEVEL	ABS.G	C.30M	ETC	*	TERR.C	F.E.C	B.G.C	NORM.G	ANOM.F	ANOM.B
101	88 929	3122.69	-8 6.39	666.82	0.979246282	0.0	0	0	1.137	206.585	-66.608	0.979433269	20.735	-45.873
102	88 929	3122.50	-8 6.16	687.53	0.979241968	0.0	0	0	1.190	212.974	-68.662	0.979433015	23.117	-45.546
103	88 929	3122.35	-8 5.98	705.33	0.979237557	0.0	0	0	1.192	218.466	-70.427	0.979432814	24.371	-46.057
104	88 929	3122.25	-8 5.95	712.37	0.979235084	0.0	0	0	1.163	220.639	-71.126	0.979432680	24.206	-46.920
105	88 929	3122.14	-8 5.91	720.60	0.979232574	0.0	0	0	1.194	223.179	-71.942	0.979432533	24.414	-47.528
106	88 929	3122.03	-8 5.84	728.77	0.979230146	0.0	0	0	1.217	225.699	-72.751	0.979432386	24.676	-48.075
107	88 929	3121.96	-8 5.73	729.89	0.979229574	0.0	0	0	1.201	226.045	-72.862	0.979432292	24.528	-48.334
108	88 929	3121.89	-8 5.62	735.23	0.979227781	0.0	0	0	1.222	227.692	-73.392	0.979432198	24.497	-48.894
109	88 929	3121.80	-8 5.49	733.45	0.979227655	0.0	0	0	1.236	227.141	-73.215	0.979432078	23.954	-49.260
110	88 929	3121.75	-8 5.35	739.23	0.979225962	0.0	0	0	1.262	228.926	-73.788	0.979432011	24.138	-49.649
111	88 929	3121.56	-8 5.32	741.96	0.979224713	0.0	0	0	1.304	229.766	-74.058	0.979431757	24.026	-50.032
112	88 929	3121.46	-8 5.66	734.64	0.979226234	0.0	0	0	1.285	227.508	-73.332	0.979431623	23.403	-49.929
113	88 929	3121.41	-8 5.97	727.66	0.979228128	0.0	0	0	1.310	225.355	-72.641	0.979431556	23.237	-49.404
114	88 929	3121.30	-8 6.03	732.35	0.979226870	0.012	0	0	1.381	226.802	-73.106	0.979431409	23.644	-49.462
115	88 929	3121.38	-8 6.15	725.74	0.979229257	0.0	0	0	1.324	224.763	-72.451	0.979431516	23.829	-48.622
116	88 929	3121.50	-8 6.20	718.17	0.979231370	0.0	0	0	1.308	222.428	-71.701	0.979431677	23.429	-48.271
117	88 929	3121.58	-8 6.29	705.31	0.979234651	0.0	0	0	1.288	218.461	-70.426	0.979431784	22.617	-47.809
118	88 929	3121.16	-8 6.09	726.38	0.979227648	0.0	0	0	1.293	224.962	-72.515	0.979431222	22.682	-49.833
119	88 929	3120.94	-8 6.03	736.41	0.97923740	0.0	0	0	1.322	228.056	-73.508	0.979430927	22.190	-51.318
120	88 929	3121.19	-8 6.27	737.51	0.979226088	0.0	0	0	1.269	228.395	-73.617	0.979431262	24.489	-49.128
121	88 930	3120.94	-8 7.23	716.36	0.979228682	0.108	0	0	1.497	221.868	-71.521	0.979430927	21.120	-50.401
122	88 930	3120.99	-8 7.20	717.38	0.979228613	0.012	0	0	1.588	222.185	-71.622	0.979430994	21.392	-50.230
123	88 930	3121.04	-8 7.16	689.50	0.979234911	0.216	0	0	1.534	213.582	-68.858	0.979431061	18.966	-49.892
124	88 930	3121.09	-8 7.14	683.58	0.979236547	0.036	0	0	1.569	211.757	-68.271	0.979431128	18.744	-49.527
125	88 930	3121.14	-8 7.10	704.90	0.979232132	0.012	0	0	1.221	218.335	-70.385	0.979431195	20.694	-49.892
126	88 930	3121.19	-8 7.08	711.71	0.979230976	0.048	0	0	1.357	220.436	-71.061	0.979431262	21.508	-49.553
127	88 930	3121.24	-8 7.06	706.09	0.979232329	0.012	0	0	1.349	218.701	-70.503	0.979431329	21.051	-49.452
128	88 930	3121.28	-8 7.03	692.13	0.979235626	0.024	0	0	1.261	214.395	-69.119	0.979431382	19.899	-49.220
129	88 930	3121.34	-8 6.99	706.13	0.979232788	0.0	0	0	1.384	218.712	-70.507	0.979431463	21.421	-49.086
130	88 930	3121.38	-8 6.98	687.90	0.979236805	0.120	0	0	1.484	213.089	-68.699	0.979431516	19.862	-48.837
131	88 930	3121.43	-8 6.94	699.70	0.979234576	0.048	0	0	1.251	216.731	-69.870	0.979431583	20.975	-48.895
132	88 930	3121.48	-8 6.91	712.54	0.979231979	0.048	0	0	1.263	220.691	-71.142	0.979431650	22.233	-48.859
133	88 930	3121.53	-8 6.87	706.43	0.979233597	0.048	0	0	1.193	218.805	-70.536	0.979431717	21.878	-48.658
134	88 930	3121.57	-8 6.85	701.88	0.979234854	0.036	0	0	1.192	217.402	-70.086	0.979431770	21.678	-48.408
135	88 930	3121.62	-8 6.83	702.98	0.979234973	0.0	0	0	1.172	217.742	-70.195	0.979431837	22.050	-48.144
136	88 930	3121.67	-8 6.80	709.27	0.979234202	0.096	0	0	1.290	219.683	-70.818	0.979431904	23.271	-47.547
137	88 930	3121.73	-8 6.77	714.13	0.979233261	0.012	0	0	1.252	221.180	-71.300	0.979431984	23.710	-47.590
138	88 930	3121.77	-8 6.73	712.52	0.979233914	0.0	0	0	1.291	220.686	-71.141	0.979432038	23.853	-47.288
139	88 930	3121.82	-8 6.71	703.04	0.979234596	0.0	0	0	1.260	220.845	-71.192	0.979432105	24.596	-46.595
140	88 930	3121.88	-8 6.68	704.70	0.979236244	0.0	0	0	1.233	218.273	-70.366	0.979432185	23.565	-46.800
141	88 930	3121.93	-8 6.65	698.12	0.979237334	0.0	0	0	1.190	216.242	-69.713	0.979432252	22.513	-47.200
142	88 930	3121.97	-8 6.62	692.21	0.979239055	0.0	0	0	1.165	214.419	-69.127	0.979432306	22.333	-46.794
143	88 930	3122.02	-8 6.59	692.71	0.979238856	0.0	0	0	1.180	214.573	-69.176	0.979432372	22.237	-46.939
144	88 930	3122.07	-8 6.57	689.77	0.979239925	0.0	0	0	1.209	213.637	-68.885	0.979432439	22.362	-46.523
145	88 930	3122.10	-8 6.53	680.71	0.979241842	0.072	0	0	1.273	210.873	-67.987	0.979432480	21.509	-46.478
146	88 930	3122.16	-8 6.52	663.05	0.979245559	0.060	0	0	1.681	205.425	-66.235	0.979432560	20.105	-46.129
147	88 930	3122.21	-8 6.49	680.80	0.979242247	0.096	0	0	1.332	210.900	-67.995	0.979432627	21.852	-46.144
148	88 930	3122.25	-8 6.45	675.49	0.979243603	0.084	0	0	1.307	209.262	-67.469	0.979432680	21.491	-45.977
149	88 930	3122.30	-8 6.42	682.94	0.979243354	0.0	0	0	1.151	211.588	-68.207	0.979432747	22.317	-45.890
150	88 930	3122.35	-8 6.40	681.96	0.979242714	0.036	0	0	1.184	211.238	-68.110	0.979432814	22.342	-45.768

DENSITY = 2.60 (G/CM**3)

HAOUZ AREA

MOROCCO

THE LIST OF GRAVITY SURVEY

88(YEAR)

ST.NO	OBS.DAY	LAT.	LONG.	LEVEL	ABS.G	C.30M	ETC	TERR.C	F.E.C	B.G.C	NORM.G	ANOM.F	ANOM.B
151	88 930	3122.40	-8 6.37	685.07	0.979242337	0.0	0 0	1.137	212.216	-68.419	0.979432881	22.810	-45.609
152	88 930	3122.44	-8 6.34	683.12	0.979242315	0.0	0 0	1.140	211.615	-68.225	0.979432935	22.636	-45.589
153	88 930	3122.49	-8 6.32	680.85	0.979243392	0.0	0 0	1.138	210.915	-68.000	0.979433001	22.443	-45.557
154	88 930	3122.53	-8 6.29	678.12	0.979244161	0.0	0 0	1.139	210.074	-67.730	0.979433055	22.319	-45.411
155	88 930	3122.58	-8 6.27	681.20	0.979243374	0.0	0 0	1.204	211.021	-68.034	0.979433122	22.478	-45.556
156	88 930	3122.65	-8 6.26	670.80	0.979245471	0.108	0 0	1.242	207.814	-67.003	0.979433216	21.811	-45.692
157	88 930	3122.69	-8 6.21	673.98	0.979244904	0.0	0 0	1.125	208.795	-67.319	0.979433269	21.555	-45.764
158	88 930	3122.63	-8 6.06	686.04	0.979242320	0.012	0 0	1.149	212.515	-68.515	0.979433189	22.794	-45.720
159	88 930	3122.43	-8 6.09	694.78	0.979240320	0.0	0 0	1.151	215.212	-69.382	0.979432821	23.742	-46.239
160	88 930	3122.38	-8 6.15	702.69	0.979237882	0.0	0 0	1.246	217.654	-70.166	0.979432854	23.928	-46.620
161	88 930	3122.46	-8 6.22	688.07	0.979241838	0.0	0 0	1.162	213.142	-68.716	0.979432961	23.180	-45.536
162	88 930	3122.28	-8 6.07	713.66	0.979235621	0.0	0 0	1.235	221.036	-71.253	0.979432720	25.172	-46.081
163	8810 1	3121.16	-8 6.42	743.88	0.979223380	0.0	0 0	1.353	230.358	-74.248	0.979432222	23.870	-50.378
164	8810 1	3121.23	-8 6.55	728.86	0.979227000	0.0	0 0	1.202	225.726	-72.760	0.979431315	22.613	-50.147
165	8810 1	3121.32	-8 6.50	742.51	0.979225085	0.0	0 0	1.346	229.938	-74.113	0.979431436	24.933	-49.180
166	8810 1	3121.34	-8 6.66	727.76	0.979227858	0.024	0 0	1.232	225.386	-72.651	0.979431463	23.014	-49.637
167	8810 1	3121.43	-8 6.65	722.15	0.979230133	0.0	0 0	1.218	223.655	-72.095	0.979431583	23.423	-48.672
168	8810 1	3121.52	-8 6.77	706.62	0.979233904	0.0	0 0	1.172	218.866	-70.556	0.979431703	22.239	-48.317
169	8810 1	3121.46	-8 6.44	734.52	0.979228598	0.0	0 0	1.347	227.474	-73.321	0.979431623	25.795	-47.526
170	8810 1	3121.55	-8 6.54	743.56	0.979227930	0.0	0 0	1.490	230.261	-74.217	0.979431877	27.320	-46.570
171	8810 1	3121.65	-8 6.56	742.29	0.979227930	0.0	0 0	1.600	229.868	-74.090	0.979431877	27.320	-46.570
172	8810 1	3121.71	-8 6.60	746.08	0.979227413	0.0	0 0	1.646	231.038	-74.466	0.979431958	28.139	-46.327
173	8810 1	3121.69	-8 6.69	752.52	0.979226348	0.0	0 0	1.861	233.024	-75.104	0.979431931	29.302	-45.802
174	8810 1	3121.51	-8 6.66	718.84	0.979231504	0.0	0 0	1.223	222.635	-71.767	0.979431690	23.672	-48.095
175	8810 1	3121.34	-8 6.36	722.93	0.979229167	0.0	0 0	1.224	223.898	-72.173	0.979431463	22.826	-49.346
176	8810 1	3121.49	-8 6.58	723.40	0.979229097	0.0	0 0	1.266	224.043	-72.219	0.979431663	22.742	-49.478
177	8810 1	3121.68	-8 5.75	727.53	0.979228649	0.0	0 0	1.218	225.317	-72.629	0.979431917	23.267	-49.361
178	8810 1	3121.60	-8 5.85	726.99	0.979228803	0.0	0 0	1.220	225.149	-72.575	0.979431810	23.162	-49.413
179	8810 1	3121.55	-8 5.98	723.32	0.979229618	0.0	0 0	1.237	224.017	-72.229	0.979431744	23.129	-49.082
180	8810 1	3121.63	-8 5.98	723.50	0.979229978	0.0	0 0	1.202	224.074	-72.229	0.979431917	23.337	-48.892
181	8810 1	3121.63	-8 6.12	719.46	0.979231212	0.0	0 0	1.229	222.827	-71.829	0.979431851	23.418	-48.411
182	8810 1	3121.70	-8 6.17	723.13	0.979230826	0.0	0 0	1.261	223.959	-72.192	0.979431944	24.102	-48.090
183	8810 3	3122.31	-8 5.96	708.86	0.979236333	0.0	0 0	1.161	219.555	-70.777	0.979432694	24.730	-46.680
184	8810 3	3122.26	-8 5.99	715.24	0.979234686	0.0	0 0	1.214	221.523	-71.410	0.979432694	24.730	-46.680
185	8810 3	3122.20	-8 6.01	716.83	0.979233842	0.0	0 0	1.178	222.014	-71.568	0.979432613	24.421	-47.147
186	8810 3	3122.15	-8 6.03	713.70	0.979234278	0.0	0 0	1.144	221.049	-71.257	0.979432546	23.924	-47.333
187	8810 3	3122.10	-8 6.06	712.43	0.979234319	0.0	0 0	1.151	220.657	-71.132	0.979432480	23.648	-47.484
188	8810 3	3122.06	-8 6.08	712.82	0.979233927	0.0	0 0	1.152	220.779	-71.171	0.979432426	23.431	-47.719
189	8810 3	3121.96	-8 6.12	703.94	0.979235578	0.012	0 0	1.252	218.037	-70.290	0.979432252	22.575	-47.719
190	8810 3	3121.91	-8 6.14	718.77	0.979232337	0.0	0 0	1.198	222.612	-71.760	0.979432225	23.821	-47.938
191	8810 3	3121.86	-8 6.18	722.44	0.979231340	0.0	0 0	1.212	223.746	-72.124	0.979432158	24.140	-47.984
192	8810 3	3121.81	-8 6.21	717.18	0.979232405	0.0	0 0	1.188	222.123	-71.603	0.979432011	23.625	-47.978
193	8810 3	3121.75	-8 6.24	715.50	0.979232710	0.0	0 0	1.211	221.603	-71.436	0.979432011	23.514	-47.922
194	8810 3	3121.70	-8 6.27	709.68	0.979232900	0.048	0 0	1.258	219.810	-70.859	0.979431944	23.023	-47.836
195	8810 3	3121.65	-8 6.30	712.60	0.979233197	0.036	0 0	1.410	220.710	-71.149	0.979431877	23.440	-47.709
196	8810 3	3121.60	-8 6.33	702.70	0.979233569	0.072	0 0	1.342	217.655	-70.167	0.979431810	22.455	-47.712
197	8810 3	3121.55	-8 6.35	706.12	0.979234452	0.048	0 0	1.343	218.711	-70.506	0.979431744	22.862	-47.644
198	8810 3	3121.50	-8 6.37	711.44	0.979233068	0.024	0 0	1.329	220.352	-71.033	0.979431677	23.072	-47.961
199	8810 3	3121.78	-8 6.37	701.77	0.979236116	0.0	0 0	1.230	217.369	-70.075	0.979432051	22.664	-47.411
200	8810 3	3121.69	-8 6.41	698.82	0.9792336570	0.024	0 0	1.297	216.457	-69.782	0.979431931	22.393	-47.389

ST.NO	OBS.DAY	LAT.	LONG.	LEVEL	ABS.G	C.30M	ETC	TERR.C	F.E.C	B.G.C	NORM.G	ANOM.F	ANOM.B
201	8810 3	3121.85	-8 6.51	700.73	0.979237076	0.036	0 0	1.288	217.046	-69.971	0.979432145	23.266	-46.706
202	8810 3	3121.89	-8 6.36	707.74	0.979234658	0.0	0 0	1.215	219.211	-70.667	0.979432198	22.886	-47.781
203	8810 3	3122.00	-8 6.41	699.02	0.979237159	0.0	0 0	1.212	216.519	-69.802	0.979432346	22.545	-47.257
204	8810 3	3122.09	-8 6.41	696.82	0.979238144	0.0	0 0	1.228	215.840	-69.584	0.979432466	22.747	-46.837
205	8810 3	3122.08	-8 6.29	702.76	0.979236587	0.0	0 0	1.161	217.675	-70.173	0.979432453	22.969	-47.204
206	8810 3	3121.97	-8 6.29	713.27	0.979233546	0.0	0 0	1.186	220.915	-71.215	0.979432306	23.343	-47.872
207	8810 3	3121.81	-8 6.09	724.83	0.979230459	0.0	0 0	1.218	224.483	-72.361	0.979432091	24.069	-48.291
208	8810 3	3121.77	-8 5.73	725.64	0.979229775	0.0	0 0	1.215	224.733	-72.441	0.979432038	23.685	-48.756
209	8810 3	3121.89	-8 5.88	721.23	0.979231292	0.0	0 0	1.175	223.372	-72.004	0.979432198	23.641	-48.363
210	8810 3	3121.95	-8 6.02	714.59	0.979233201	0.0	0 0	1.167	221.324	-71.346	0.979432279	23.413	-47.933
211	8810 3	3122.05	-8 5.96	722.22	0.979232049	0.0	0 0	1.174	223.677	-72.102	0.979432413	24.487	-47.614
212	8810 3	3122.18	-8 6.15	708.40	0.979235955	0.0	0 0	1.151	219.414	-70.732	0.979432587	23.934	-46.788
213	8810 3	3122.26	-8 6.16	711.85	0.979236122	0.0	0 0	1.240	220.480	-71.075	0.979432694	25.148	-45.927
214	8810 3	3122.29	-8 6.29	705.76	0.979237633	0.012	0 0	1.248	218.599	-70.470	0.979432734	24.766	-45.704
215	8810 3	3122.21	-8 6.31	693.63	0.979239710	0.036	0 0	1.213	214.856	-69.257	0.979432627	23.152	-46.116
216	8810 3	3122.36	-8 5.74	718.78	0.9792353097	0.0	0 0	1.178	222.616	-71.761	0.979432506	24.385	-47.376
217	8810 3	3122.12	-8 5.83	708.49	0.979237003	0.0	0 0	1.166	219.442	-70.741	0.979432761	24.850	-45.891
218	8810 3	3122.31	-8 5.93	692.98	0.979240575	0.0	0 0	1.159	214.656	-69.203	0.979433042	23.349	-45.854
219	8810 3	3122.52	-8 5.78	767.04	0.979212653	0.0	0 0	1.466	237.504	-76.542	0.979430192	21.430	-55.111
220	8810 4	3120.39	-8 5.76	758.04	0.979215947	0.0	0 0	1.420	234.727	-75.650	0.979430352	21.741	-53.909
221	8810 4	3120.51	-8 5.77	758.47	0.979216929	0.0	0 0	1.357	234.862	-75.694	0.979430499	22.678	-53.015
222	8810 4	3120.62	-8 5.81	754.61	0.979218563	0.0	0 0	1.354	233.670	-75.311	0.979430687	22.900	-52.411
223	8810 4	3120.76	-8 5.85	753.00	0.979219797	0.0	0 0	1.378	233.172	-75.151	0.979430834	23.513	-51.638
224	8810 4	3120.87	-8 5.87	742.46	0.979223223	0.0	0 0	1.329	229.922	-74.108	0.979430944	23.533	-50.574
225	8810 4	3121.06	-8 5.92	738.21	0.979224366	0.0	0 0	1.307	228.609	-73.686	0.979431085	23.194	-50.492
226	8810 4	3121.19	-8 5.84	732.54	0.979226085	0.0	0 0	1.322	226.861	-73.124	0.979431262	23.005	-50.119
227	8810 4	3120.75	-8 5.94	746.63	0.979220416	0.0	0 0	1.348	231.207	-74.520	0.979430673	22.297	-52.223
228	8810 4	3120.75	-8 5.61	767.43	0.979213265	0.0	0 0	1.502	237.625	-76.580	0.979430285	22.106	-54.474
229	8810 4	3120.46	-8 5.46	773.67	0.979211468	0.0	0 0	1.541	239.549	-77.198	0.979430232	22.325	-54.873
230	8810 4	3120.42	-8 5.43	781.67	0.979211004	0.0	0 0	1.589	242.017	-77.990	0.979430419	24.190	-53.800
231	8810 4	3120.56	-8 5.57	761.46	0.979215785	0.0	0 0	1.473	235.783	-75.989	0.979430459	22.581	-53.408
232	8810 4	3120.59	-8 5.62	759.94	0.979217049	0.024	0 0	1.451	235.313	-75.838	0.979430954	23.193	-52.645
233	8810 4	3120.71	-8 5.67	753.80	0.979219129	0.036	0 0	1.429	233.419	-75.230	0.979430740	23.237	-51.993
234	8810 4	3120.80	-8 5.60	745.31	0.979222015	0.0	0 0	1.430	230.802	-74.390	0.979430901	23.346	-51.044
235	8810 4	3120.92	-8 5.52	749.94	0.979220959	0.024	0 0	1.477	232.230	-74.849	0.979430954	23.712	-51.136
236	8810 4	3120.93	-8 5.39	764.22	0.979217609	0.024	0 0	1.456	236.635	-76.253	0.979430914	24.787	-51.476
237	8810 4	3120.93	-8 5.24	765.30	0.979216456	0.0	0 0	1.511	236.968	-76.370	0.979430820	24.114	-52.256
238	8810 4	3120.86	-8 5.26	774.85	0.979213338	0.0	0 0	1.540	239.913	-77.315	0.979430580	24.211	-53.104
239	8810 4	3120.68	-8 5.11	768.42	0.979215305	0.012	0 0	1.671	237.929	-76.678	0.979430673	24.231	-52.447
240	8810 4	3120.75	-8 5.44	763.97	0.979216566	0.0	0 0	1.563	236.556	-76.238	0.979430740	23.947	-52.290
241	8810 4	3120.80	-8 5.16	796.93	0.979206522	0.0	0 0	1.678	246.724	-79.500	0.979430232	24.692	-54.808
242	8810 4	3120.42	-8 5.17	804.14	0.979205462	0.0	0 0	1.990	248.951	-80.214	0.979430406	25.997	-54.217
243	8810 4	3120.55	-8 4.70	819.84	0.979201484	0.084	0 0	1.946	253.794	-81.767	0.979430379	26.845	-54.922
244	8810 4	3120.53	-8 4.80	804.20	0.979205850	0.0	0 0	1.672	248.967	-80.220	0.979430513	25.977	-54.243
245	8810 4	3120.63	-8 4.87	794.45	0.979208496	0.0	0 0	1.616	245.961	-79.255	0.979430620	25.453	-53.802
246	8810 4	3120.71	-8 4.92	784.12	0.979211247	0.012	0 0	1.620	242.774	-78.233	0.979430713	24.927	-53.306
247	8810 4	3120.78	-8 5.79	731.70	0.979226821	0.0	0 0	1.270	226.601	-73.041	0.979431556	23.136	-49.905
248	8810 5	3121.41	-8 5.82	730.25	0.979227122	0.024	0 0	1.305	226.154	-72.898	0.979431489	23.092	-49.806
249	8810 5	3121.36	-8 5.86	728.70	0.979227391	0.036	0 0	1.325	225.677	-72.744	0.979431409	23.983	-49.761
250	8810 5	3121.30	-8 5.86	728.70	0.979227391	0.036	0 0	1.325	225.677	-72.744	0.979431409	23.983	-49.761