



BRITISH GEOLOGICAL
SURVEY

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MINERAL RECONNAISSANCE PROGRAMME
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Exploration for Gold in Central Wales

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This data package relates to work carried out by the British Geological Survey on behalf of the Department of Trade and Industry.

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Keyworth, Nottingham British Geological Survey 1993

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MINERAL RECONNAISSANCE PROGRAMME - EXPLORATION FOR GOLD IN CENTRAL WALES

Background

Wales has a long history of gold mining, with the main centre of activity being the "Dolgellau Gold Belt" where the Clogau St Davids and Gwynfynedd mines have been worked in recent times. Further south, within the Welsh Basin, gold has been worked at Dolaucothi to the south-east of the village of Pumpsaint (SN 666 402) since Roman times. Gold was last worked here between 1905 - 1912 and 1935 - 1939. This is the only worked occurrence of gold within the Welsh Basin. It lies 77km south of the "Dolgellau Gold Belt" and at the southern limit of the Central Wales Mining Field (Pb, Zn and Cu).

The gold mineralisation at Dolaucothi occurs within a folded and sheared succession of upper Ordovician/lower Silurian shales, within the core of the Cothi anticline. Gold occurs in quartz vein structures and pyritiferous shales associated with arsenopyrite. There is no evidence of volcanic rocks at Dolaucothi, the nearest volcanic centre being close to Llanwrtyd Wells, 22 km to the north-east. There is evidence to suggest that the mineralisation was emplaced in faults during or immediately after the Acadian (end Caledonian) Orogeny. The richest gold ores are associated with abundant pyrite which predates the mineralisation and most probably played a key role in the precipitation of the gold. Anells and Roberts (1989) suggested that gold was leached from volcanic rocks in the underlying basement and that the metal-bearing fluids were channelled along faults to higher crustal levels where gold was precipitated.

Scope of investigation

This reconnaissance exploration programme was designed to sample areas (Figure 1) with a similar geological setting to that at Dolaucothi. Streams which drained the Ordovician/Silurian boundary and areas with intense overfolding were sampled. Catchments from which samples containing high levels of arsenic were collected during an earlier survey (Ball and Nutt, 1976) were also sampled.

Sampling

Sampling was based on the collection of heavy mineral concentrates from first and second order streams. Active stream sediment was passed through a 2 mm sieve, collected in a wooden pan (about 3-4 kg) and reduced by panning to about 60 g. This procedure was repeated using further sediment from the same site and the two concentrates combined, examined on site for heavy minerals and collected in a Kraft Bag.

Analysis

Gold was determined on 60 g of the sample by atomic adsorption spectrometry after milling and dissolution in aqua regia. The lower confidence limit of detection was 10 ppb Au. Other elements (Ti, Mn, Fe, V, Ni, Cu, Zn, As, Zr, Sn, Sb, Ba, Ce and Pb) were determined by X-ray fluorescence analysis of milled sub-samples.

Data

Analytical results and locational data for the samples are listed on the following pages. The data is also available in digital form from the MRP geochemical database. Also included in this release is a 1:50,000 scale plot of sample locations and plots at the same scale of Au, As, Cu, Pb and Zn levels in panned concentrates from these localities. The reconnaissance survey outlined two areas worthy of further work (Rhiwnant and Caio). Further investigations have been carried out in these areas and will be described in a forthcoming Mineral Reconnaissance Programme Report.

References

- Ball, T.K. and Nutt, M.J.C. 1976. Preliminary mineral reconnaissance of central Wales. *Rep. Inst. Geol. Sci.*, No. 75/14, 12pp.
- Annels, A.E. and Roberts, D.E. 1989. Turbidite-hosted gold mineralisation at the Dolaucothi Gold Mines, Dyfed, Wales. *Economic Geology*, Vol. 84, 1293-1314.

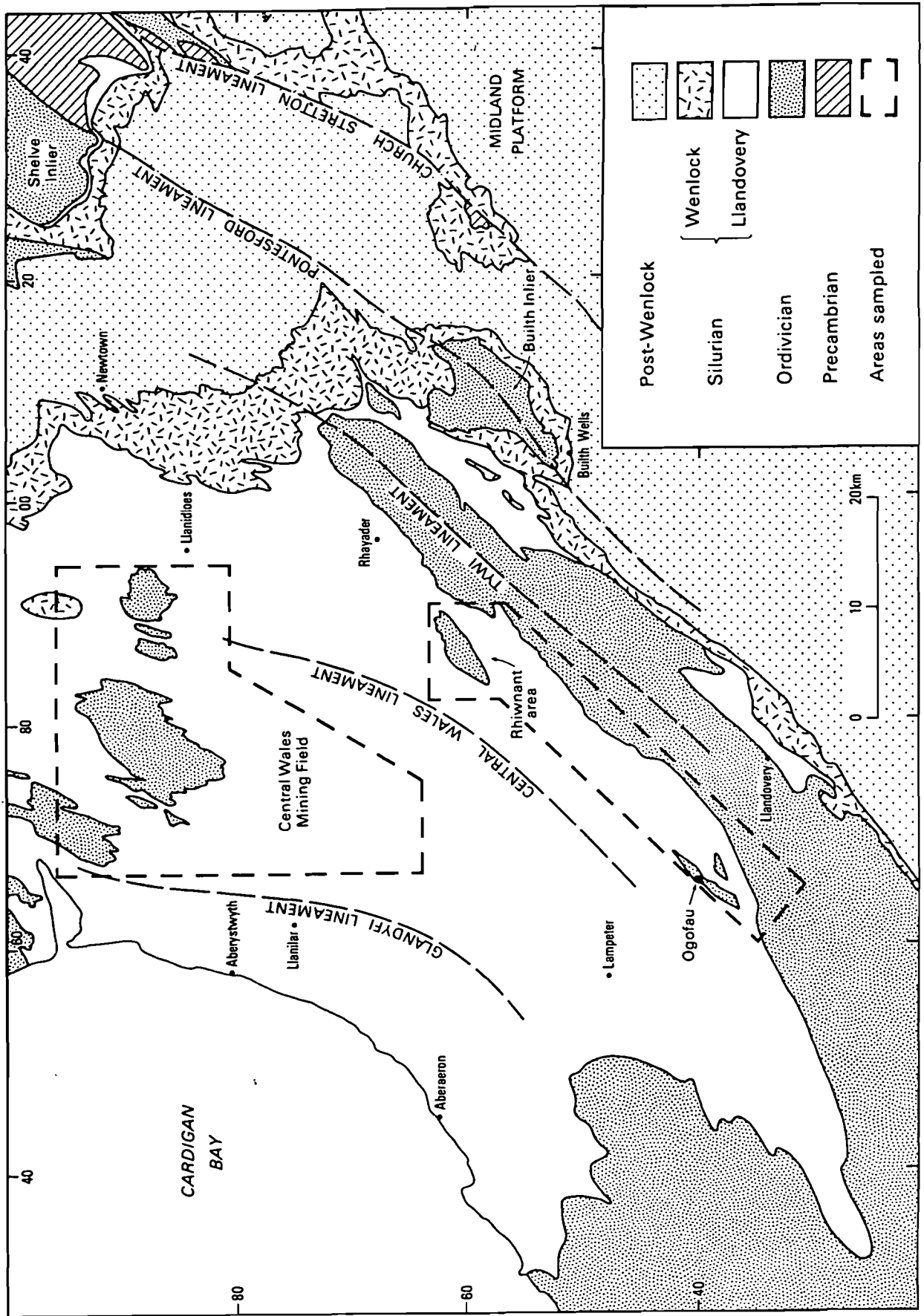


Figure 1. Location of areas sampled

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Central Wales Heavy Mineral Concentrate Data

Sample Reference	Eastings	Northings	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2001	280320	0274620	4940	600	44600	110	33	177	11508	162	0
RJP2002	285400	0275890	5890	760	53100	134	34	13	101	185	0
RJP2003	280910	0274880	4560	1620	41600	89	58	1055	8826	134	6
RJP2004	281320	0274680	5870	660	49400	127	39	12	131	187	30
RJP2005	281140	0274710	5850	570	50300	125	39	24	106	189	0
RJP2006	280570	0274700	5040	730	50900	105	38	232	8158	156	0
RJP2007	280910	0274880	3770	1530	37300	64	63	4286	>18	92	5
RJP2008	282110	0274930	6550	740	52000	146	37	47	256	200	0
RJP2009	281890	0274810	6630	920	49600	132	43	32	134	197	3
RJP2010	282600	0275600	6200	780	50000	126	47	56	155	184	0
RJP2011	282280	0275380	6270	1080	53800	139	40	32	258	187	0
RJP2012	282910	0275480	5240	680	41000	57	61	29	112	177	0
RJP2013	282900	0275580	6020	790	52400	133	39	24	123	189	1
RJP2014	280240	0272500	5360	840	43700	88	46	11	93	180	0
RJP2015	280200	0272400	4760	390	32900	95	21	4	68	200	0
RJP2016	279800	0272460	5590	830	52000	125	31	6	89	182	0
RJP2017	279690	0272530	5410	500	47700	108	37	4	93	185	1
RJP2018	279710	0273700	5670	910	54500	126	34	17	94	183	2
RJP2019	287400	0260590	2760	190	28800	31	359	776	575	56	9
RJP2021	287700	0260450	5960	440	41100	63	43	28	115	283	0
RJP2022	289060	0260490	6780	430	44900	93	27	15	82	172	0
RJP2023	289210	0260480	6060	470	47600	108	27	13	80	187	0
RJP2024	285900	0261600	5750	270	19100	9	40	10	1371	261	6
RJP2025	286320	0261120	5100	410	37700	95	26	8	84	206	4
RJP2026	286390	0261310	5010	310	36900	67	32	7	106	208	3
RJP2027	286610	0261080	4800	320	34000	71	30	5	84	197	3
RJP2028	277940	0244720	2060	170	26600	32	49	1992	>18	47	35
RJP2029	278160	0244730	1440	140	15400	21	37	3098	17454	0	17
RJP2030	277750	0244780	6010	290	56300	133	38	260	213	199	40
RJP2031	278650	0244900	4420	390	46000	84	28	191	246	206	5
RJP2032	286800	0260000	5630	370	43800	101	33	10	111	216	3
RJP2033	286750	0259910	5720	620	45800	70	42	32	128	227	0
RJP2034	287200	0259760	5380	280	31700	45	45	13	92	192	0
RJP2035	287120	0259820	5960	470	52000	99	37	24	131	227	1
RJP2036	287790	0260030	6140	280	38600	76	48	14	98	199	2
RJP2037	287680	0260030	7050	160	27700	46	34	11	66	203	1
RJP2038	283700	0257700	5430	580	42200	53	48	29	130	200	2
RJP2039	283620	0257790	4380	190	23500	-1	55	15	170	187	9
RJP2040	283430	0257700	2880	240	13700	-1	78	19	46	123	8
RJP2041	283500	0257620	5140	240	29700	37	40	14	70	190	0
RJP2042	282960	0258250	5720	550	45800	95	39	14	95	192	4
RJP2043	282990	0258310	4920	390	39200	52	43	17	83	187	0
RJP2044	282890	0258810	5740	1060	57000	133	68	26	120	158	26
RJP2045	282890	0258920	4470	310	35500	32	36	16	105	170	4
RJP2046	282990	0259750	4090	560	29800	2	52	19	82	166	8
RJP2047	283120	0259750	4090	560	29800	2	52	19	82	165	8
RJP2048	283060	0259800	3250	240	15200	-1	65	10	144	144	8
RJP2049	283080	0256200	5910	1230	60100	131	41	16	118	176	0
RJP2050	283190	0256300	4170	230	17000	-1	58	15	54	164	5

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2051	284300	0256000	5900	1860	62100	140	41	24	144	168	1
RJP2052	284190	0256010	6470	940	47700	86	49	23	119	188	260
RJP2053	287590	0254400	5770	710	57700	123	38	29	136	187	31
RJP2054	287590	0254640	5440	390	34800	36	50	19	94	192	13
RJP2055	287660	0254700	5490	520	44200	57	47	29	96	189	2
RJP2057	271410	0236850	5530	580	57900	110	35	26	126	176	101
RJP2058	271480	0236470	6660	350	53900	103	30	159	118	241	35
RJP2060	274200	0238920	5590	490	59500	124	38	28	160	182	14
RJP2061	272750	0243300	5730	780	55100	115	40	8	119	196	0
RJP2062	272180	0243410	5780	870	56500	119	42	24	116	190	0
RJP2063	272110	0243360	6140	610	60600	135	36	10	103	189	0
RJP2064	273000	0243120	6320	760	64400	140	39	25	168	213	0
RJP2065	273460	0242420	6710	1020	57300	136	37	21	184	227	2
RJP2066	283200	0250500	5050	630	59700	101	44	128	2804	225	2
RJP2067	284050	0251720	5530	650	53300	92	46	17	112	184	4
RJP2068	284100	0251500	5010	710	55900	92	41	124	685	204	50
RJP2069	282190	0249950	5920	440	59300	137	45	17	196	177	0
RJP2070	282200	0249650	5000	480	56500	103	38	56	245	205	0
RJP2071	281800	0249220	5690	430	63500	119	38	40	144	219	2
RJP2072	279700	0247980	3480	180	34600	65	23	13	108	134	1
RJP2073	278310	0246300	5940	440	60500	132	40	27	144	186	14
RJP2080	283820	0258600	4110	100	14200	-1	65	16	52	169	4
RJP2081	284050	0258920	4630	160	26100	19	43	17	67	209	0
RJP2082	284380	0259250	6040	400	45700	104	31	25	95	265	5
RJP2083	284360	0259530	4280	100	15800	-1	53	9	51	276	12
RJP2084	284200	0259660	5090	330	29100	28	39	13	77	296	0
RJP2085	272310	0241960	6880	730	61200	139	37	26	157	221	6
RJP2087	272230	0241880	5610	910	59900	115	42	1361	304	196	8
RJP2088	272590	0241700	6060	390	59600	133	36	23	113	197	5
RJP2089	273280	0241800	6240	790	57700	125	40	241	186	216	7
RJP2090	274220	0241490	6350	670	59100	126	41	39	147	214	7
RJP2092	266270	0240570	5390	680	58200	82	51	36	162	193	54
RJP2093	267180	0241970	3540	200	21400	-1	90	13	90	141	16
RJP2094	267180	0241850	4470	330	39700	33	63	23	132	156	65
RJP2095	267820	0240500	5850	590	67500	125	42	39	147	193	126
RJP2096	273500	0239670	4600	350	34500	0	78	27	100	161	39
RJP2097	273330	0238900	5870	500	62800	122	42	23	145	267	17
RJP2098	267680	0239950	2850	2170	227100	52	58	5169	785	77	5259
RJP2099	274800	0238600	6150	400	53700	77	44	30	141	279	64
RJP2100	276030	0243230	5650	740	57500	99	48	28	148	192	8
RJP2101	276100	0242110	5830	790	62000	113	46	17	186	205	43
RJP2102	274630	0269660	3380	590	64700	130	64	15	136	199	47
RJP2103	274500	0268930	5490	960	48100	76	46	>18	17401	165	87
RJP2105	278050	0268440	5400	520	46800	101	34	345	1299	304	3
RJP2106	268080	0254610	5160	440	50900	112	31	16	91	230	2
RJP2123	284300	0259680	3920	320	21000	-1	54	25	60	205	2
RJP2124	284580	0259970	5520	340	44400	102	32	17	81	170	3
RJP2125	284340	0259380	3830	250	21300	-1	58	17	66	208	3

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Sample Reference	Eastings	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2126	284020	0259050	4150	320	23700	-1	58	28	85	181	5
RJP2127	267910	0240330	5830	1260	60700	130	39	13	229	181	5
RJP2128	268590	0240100	5680	640	60900	129	37	19	126	169	138
RJP2129	275220	0290600	3150	1080	33600	-1	85	10147	594	114	38
RJP2130	275300	0290690	5140	880	44000	86	53	28	101	156	0
RJP2131	275450	0290800	5300	1170	48900	107	45	19	96	162	0
RJP2132	275250	0291710	5730	800	53200	133	42	13	105	161	0
RJP2133	274000	0291100	3920	2020	59000	70	63	12768	1122	114	42
RJP2134	275030	0292350	5810	810	60100	143	39	17	102	157	2
RJP2135	276260	0289690	6380	390	55500	139	33	13	128	211	2
RJP2136	275900	0290300	5160	500	40900	94	43	17	113	182	3
RJP2137	274290	0288940	5750	480	58300	130	40	29	275	170	1
RJP2138	275030	0288210	5890	420	51200	141	33	13	94	177	2
RJP2139	272500	0287960	5250	4050	62800	118	57	693	1822	160	3
RJP2140	273210	0286930	5530	430	40300	121	33	11	97	173	1
RJP2141	279360	0287830	6050	330	49500	126	31	12	119	220	5
RJP2142	278610	0288640	5690	350	49400	114	31	11	90	211	0
RJP2143	277880	0287550	5830	390	50500	121	32	13	117	218	1
RJP2144	276810	0286820	5310	330	45300	97	34	11	96	216	0
RJP2145	271320	0285500	4840	280	53100	87	47	34	191	163	3
RJP2146	273700	0285500	5760	600	47500	124	36	7	91	193	3
RJP2147	274120	0283650	5900	370	68400	141	23	30	78	166	4
RJP2148	277700	0290840	5450	320	45000	119	37	19	101	167	0
RJP2149	277950	0291170	5740	360	48900	111	37	14	86	195	0
RJP2150	278020	0291250	5400	580	47200	104	38	14	90	190	0
RJP2151	278500	0290750	5160	540	40700	87	39	17	104	214	1
RJP2152	276380	0286690	5520	650	61700	110	33	24	114	201	3
RJP2153	277290	0284140	6030	300	44400	115	33	9	104	231	2
RJP2154	277210	0284020	6150	450	47700	122	39	18	110	214	0
RJP2155	273660	0289280	2870	-1	76100	57	381	19917	16735	95	31
RJP2156	272400	0288500	5700	960	51200	128	37	43	137	183	0
RJP2157	275220	0285480	5220	320	38800	97	30	9	73	204	3
RJP2158	275220	0285420	5470	360	42400	114	26	6	73	204	2
RJP2159	280600	0288800	5170	320	42300	87	36	15	92	206	0
RJP2160	280720	0288900	4960	460	34300	79	31	13	76	203	0
RJP2161	280850	0290200	3880	2150	29600	57	32	16	72	205	0
RJP2162	280100	0290600	4850	290	34900	88	29	10	67	199	0
RJP2163	279870	0290130	4500	330	31100	71	28	12	72	217	0
RJP2164	283880	0291580	5960	380	46300	128	30	10	87	198	4
RJP2165	284300	0291020	4200	160	21200	-1	68	19	73	173	8
RJP2166	284320	0292080	4340	230	26800	8	62	19	84	136	6
RJP2167	284010	0290010	5500	310	38400	84	39	14	99	211	3
RJP2168	283550	0288400	4680	560	32900	56	40	18	96	196	1
RJP2169	277710	0288990	4830	270	33300	92	22	1	55	190	1
RJP2170	282890	0287040	5900	400	47000	118	36	469	484	205	5
RJP2171	281760	0286350	6330	400	50600	137	35	14	123	209	5
RJP2172	281590	0286290	5510	300	44400	115	31	12	101	211	4
RJP2173	281670	0285970	6730	380	53200	151	33	12	93	211	8
RJP2174	282690	0286130	970	3050	31400	14	411	1017	>18	9	8

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2175	269650	0242480	6100	200	55400	135	20	18	296	185	5
RJP2176	269410	0242360	5920	250	41100	115	32	22	137	182	3
RJP2177	269640	0242400	6130	860	62200	135	43	72	126	192	6
RJP2178	269190	0242200	4570	270	29500	17	64	20	106	154	1
RJP2179	270180	0242200	6180	1050	63700	138	39	35	115	198	5
RJP2180	270200	0242380	6180	1290	63500	142	39	16	119	191	1
RJP2181	269480	0240840	6040	690	58600	132	39	18	122	197	5
RJP2182	270020	0440420	6220	600	58000	139	36	24	120	199	3
RJP2183	269280	0242460	5750	530	50700	119	45	18	139	179	7
RJP2184	269180	0242280	5570	370	44000	99	47	21	127	181	0
RJP2186	267520	0242280	4920	410	40500	49	57	24	115	164	17
RJP2187	280820	0285300	5100	290	32500	43	61	23	108	175	5
RJP2188	280870	0284890	5850	710	48800	133	38	9	110	172	4
RJP2189	281450	0284490	5590	2060	56300	142	45	20	117	170	6
RJP2190	281490	0284600	4960	280	43700	58	50	23	97	158	5
RJP2191	281820	0284230	5920	1000	53500	147	36	11	130	165	3
RJP2192	282420	0283850	5820	900	56500	134	45	13	163	161	3
RJP2193	282670	0285910	5980	450	43900	129	36	11	158	175	0
RJP2194	283070	0285130	5520	1360	70400	128	48	40	172	158	1
RJP2195	283160	0284420	5730	1200	56600	145	44	9	146	159	2
RJP2196	283320	0284340	6440	1000	58900	159	41	24	139	179	5
RJP2197	283920	0283320	5850	1300	59400	144	39	25	152	171	1
RJP2198	283520	0283300	5770	820	56600	132	40	14	137	169	1
RJP2199	274180	0281780	5880	500	44500	127	34	9	585	181	0
RJP2200	273600	0282680	6050	1210	52400	138	32	10	114	196	3
RJP2201	273290	0283280	5310	450	44400	90	42	19	95	186	0
RJP2202	273210	0283240	5000	380	39000	77	38	12	85	192	0
RJP2203	277030	0284300	6000	310	49800	123	34	16	97	242	0
RJP2205	269390	0243570	2060	910	33700	43	13	6	33	177	0
RJP2206	272900	0246390	5560	1200	44600	149	40	64	77	162	8
RJP2207	270350	0243820	4690	360	33500	360	63	20	122	159	15
RJP2208	269510	0236580	3140	230	34200	70	17	14	55	148	2
RJP2209	277800	0286020	2110	220	25000	46	15	6	40	118	0
RJP2210	278040	0286040	5360	240	37500	93	27	7	74	220	3
RJP2211	278000	0286180	5450	330	47000	110	31	11	126	215	0
RJP2212	279720	0286010	4090	330	28200	55	25	12	289	220	0
RJP2213	279400	0285400	6020	190	32200	110	29	11	85	232	1
RJP2214	279430	0285000	5960	290	39800	68	40	16	82	202	1
RJP2215	281350	0291680	5240	250	33800	98	45	14	78	197	0
RJP2216	280850	0291020	4280	210	26900	47	36	12	61	181	0
RJP2217	281330	0290880	6360	330	48200	133	33	18	81	212	0
RJP2218	281830	0291300	4360	200	29900	72	25	8	60	191	0
RJP2219	282100	0291400	5160	220	35300	81	30	9	71	227	0
RJP2220	283500	0292900	5490	540	40700	94	42	8	82	171	0
RJP2221	285090	0288600	5700	1570	55000	138	45	11	101	169	3
RJP2222	285300	0288920	5650	3140	56600	124	45	33	106	173	0
RJP2223	282690	0289190	5200	360	36400	98	28	10	63	195	0
RJP2224	282800	0289260	4850	360	36100	82	30	11	71	194	0
RJP2225	287800	0285880	5810	610	47800	120	47	18	143	179	4

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP22226	287310	0286520	5770	400	47200	104	43	21	109	206	3
RJP22228	282640	0287800	5080	300	35000	90	28	15	68	200	1
RJP22229	283510	0287910	5850	400	42300	110	38	19	92	215	0
RJP22230	284970	0286280	5810	1380	57200	138	46	26	119	172	7
RJP22231	284510	0286500	4810	700	37300	50	61	25	103	150	2
RJP22232	275520	0283720	5970	340	44900	110	35	15	121	230	2
RJP22233	275120	0282170	4840	250	30800	29	62	42	116	174	39
RJP22234	285000	0275720	5470	1250	49900	121	28	19	133	170	11
RJP22235	284640	0275790	5950	840	52300	125	49	23	153	183	5
RJP22237	280550	0274520	5690	1070	50600	107	51	91	2528	176	4
RJP22238	292410	0263100	5420	630	49500	98	33	15	89	177	72
RJP22239	291280	0261920	5220	390	40600	103	25	6	73	176	2
RJP22240	290720	0261480	5930	700	51200	123	33	7	106	189	2
RJP22241	290550	0261010	5500	480	45300	108	27	19	95	183	9
RJP22242	290450	0261020	6040	260	38100	106	24	21	89	214	19
RJP22243	291700	0262160	5670	560	48100	116	29	19	111	200	2
RJP22244	290800	0260020	5620	660	52400	118	35	8	110	184	1
RJP22245	290800	0259950	5640	510	47700	121	26	14	81	192	0
RJP22246	290670	0260000	5800	330	43900	112	31	13	103	183	4
RJP22247	288600	0262160	5790	420	48000	103	37	26	104	220	4
RJP22248	287800	0262800	5380	540	53200	118	28	6	93	180	3
RJP22249	288340	0256500	5510	990	49700	96	38	12	104	170	0
RJP22250	288470	0256500	6060	910	59200	123	33	49	87	189	1
RJP22251	288400	0256140	5930	940	54800	109	35	32	92	186	0
RJP22252	288400	0256000	5450	1040	50100	96	34	21	99	182	0
RJP22253	287760	0256100	5300	1210	49700	98	36	19	154	182	3
RJP22254	287780	0256200	5350	1240	50800	96	38	19	98	177	6
RJP22255	288660	0257400	5910	1020	62000	119	33	39	95	181	0
RJP22256	289480	0257220	4670	580	32400	63	17	4	51	167	6
RJP22257	289310	0256140	4380	790	29500	67	17	7	48	149	0
RJP22258	290090	0256070	4980	230	31300	77	17	5	43	162	3
RJP22260	289650	0255680	4860	820	34100	76	20	14	59	166	2
RJP22261	285980	0257490	5650	270	31600	83	29	7	61	208	5
RJP22262	285900	0257450	5200	520	38500	88	22	11	61	170	2
RJP22263	285610	0257600	5130	380	34100	77	26	8	59	167	0
RJP22264	286160	0256090	5780	1470	53500	121	31	12	90	206	2
RJP22265	286130	0256180	5260	890	33600	50	38	11	71	163	0
RJP22266	290980	0284950	5370	400	45200	79	56	36	117	163	0
RJP22268	286920	0284850	5060	280	37000	53	54	18	80	162	1
RJP22269	287000	0284920	5470	480	43300	99	50	21	102	173	0
RJP22270	285300	0284690	5530	1170	54600	118	46	25	106	163	3
RJP22271	285450	0284500	5780	1180	57600	136	41	29	106	167	6
RJP22272	284380	0284710	5830	930	55000	140	35	9	104	171	2
RJP22273	284350	0284860	5670	1410	61300	135	41	32	118	160	2
RJP22274	284120	0285060	5530	1360	58400	118	47	35	134	159	1
RJP22275	284080	0285000	5980	870	57800	144	38	12	106	170	2
RJP22276	283900	0285260	5790	1370	58600	142	41	9	117	165	3
RJP22277	283980	0285320	5610	1620	61700	141	43	39	152	162	5
RJP22278	284390	0284890	5850	990	56700	141	36	12	103	170	4

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2279	287710	0284490	5550	900	47500	108	49	17	185	165	9
RJP2280	287600	0284600	5680	730	49100	123	41	32	123	168	29
RJP2281	287120	0284290	5790	1070	55400	139	43	24	126	172	23
RJP2282	287020	0284310	5720	1250	49100	128	50	85	153	167	4
RJP2283	288680	0284730	5940	460	55600	134	33	24	124	169	1
RJP2284	289610	0284530	5670	1160	54900	144	36	21	116	167	3
RJP2285	286400	0290440	5600	950	54800	136	40	18	100	169	5
RJP2286	285250	0290750	5440	830	50700	109	39	28	98	181	3
RJP2287	285000	0291150	4160	310	26600	0	59	25	69	157	5
RJP2288	285000	0291280	4320	270	28600	8	55	22	70	143	4
RJP2289	286000	0290540	5780	1090	59700	150	34	20	97	167	3
RJP2290	285800	0290480	5510	950	47800	114	45	18	104	164	4
RJP2291	285000	0289580	4170	300	25100	0	65	21	76	160	2
RJP2292	286100	0288380	4030	440	28700	-1	71	2922	116	131	12
RJP2293	287210	0291200	5440	1280	56500	141	33	19	130	134	3
RJP2294	286900	0290000	5590	570	46900	112	37	18	106	168	13
RJP2295	287020	0289050	5880	560	53300	135	29	12	98	172	2
RJP2297	288400	0289190	5230	190	36500	73	46	14	109	163	0
RJP2298	289050	0288680	5460	410	42800	89	46	14	99	179	0
RJP2299	285000	0283350	5680	1190	55300	131	38	18	140	165	2
RJP2300	285540	0283200	5130	1300	44600	83	53	19	109	157	9
RJP2301	285520	0283100	5720	1060	50200	118	43	16	120	170	7
RJP2302	286420	0283220	5690	1000	49300	113	44	11	104	164	0
RJP2303	286190	0283330	5700	1260	53900	130	39	14	114	167	2
RJP2304	286100	0283570	5250	1020	50800	104	46	8	105	164	3
RJP2305	288680	0288290	4220	230	23400	-1	69	19	73	152	6
RJP2306	288450	0288050	5630	560	46600	116	53	27	144	169	4
RJP2307	288100	0288020	5730	460	47800	126	47	19	109	179	1
RJP2308	290400	0286440	5470	510	43900	99	48	27	262	174	2
RJP2309	285800	0293020	5580	1250	57800	138	28	15	186	133	2
RJP2310	289240	0285390	5920	250	51300	127	26	15	188	178	3
RJP2311	289150	0286360	5980	420	48200	113	42	17	131	194	6
RJP2312	289020	0286450	5630	510	42400	102	44	14	158	180	0
RJP2313	289240	0286450	5700	730	50100	149	49	21	150	161	3
RJP2314	289050	0287430	4650	400	30300	17	63	19	98	161	4
RJP2315	286120	0283950	5690	1240	58100	133	41	27	112	165	1
RJP2317	285200	0292880	5540	1730	58700	139	42	299	999	165	137
RJP2318	285170	0292810	4780	1210	52000	93	44	3644	9422	133	10
RJP2320	286180	0292380	5270	2160	51600	104	48	49	335	149	26
RJP2321	286180	0292540	5800	1010	55400	142	46	8	124	164	4
RJP2322	291320	0286120	5930	550	52100	136	35	11	231	183	6
RJP2323	292170	0286420	4250	490	37200	54	46	13	128	184	38
RJP2324	292400	0290000	5770	490	56200	126	40	58	128	188	18
RJP2325	292930	0287760	5610	740	56600	133	36	11	123	204	3
RJP2326	293400	0287420	3530	360	29000	153	51	101	913	96	2
RJP2328	292310	0288350	5810	620	55300	133	40	11	122	199	5
RJP2329	291730	0292190	5980	1040	55800	141	37	64	165	181	3
RJP2330	291390	0291920	6020	1120	56800	140	40	33	138	172	15
RJP2331	292130	0290450	5290	830	51900	102	61	31	178	160	68

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RJP2332	291500	0291320	5700	1280	56300	148	40	19	136	163	98
RJP2333	285900	0293930	5400	2880	58500	139	44	320	1386	148	29
RJP2334	287170	0282780	5880	1140	54000	126	40	17	132	167	4
RJP2335	287290	0282400	5780	1250	54700	128	39	21	104	167	12
RJP2336	289950	0283900	5920	1420	55600	140	39	13	134	170	4
RJP2337	290060	0283860	5940	1250	54300	132	43	14	142	172	27
RJP2338	289150	0283730	5560	1170	56000	126	44	24	110	165	5
RJP2339	288610	0283400	5250	940	44900	88	54	17	114	160	5
RJP2340	288990	0283310	5920	1160	53600	127	45	16	148	172	2
RJP2342	289100	0291650	5750	960	55600	144	39	50	151	168	8
RJP2343	289700	0289920	5650	930	55600	130	42	17	127	167	1
RJP2344	269600	0288800	4890	570	36600	60	57	16	121	163	7
RJP2345	270480	0288250	5610	1110	47700	117	53	18	127	188	12
RJP2346	271800	0289500	5730	1640	53300	124	44	19	134	174	4
RJP2347	272000	0288560	5220	930	44800	77	50	29	110	173	0
RJP2348	272020	0287900	5320	1930	57900	115	46	267	702	163	23
RJP2349	271030	0287920	5760	1180	54200	136	35	26	421	178	1
RJP2350	271040	0287850	4240	720	34300	92	52	392	6378	100	2
RJP2351	271060	0287870	4870	880	40700	111	44	132	4263	150	1
RJP2352	270160	0287300	5550	950	49300	114	25	1	87	94	12
RJP2353	270820	0287200	5690	860	50400	129	42	19	125	175	0
RJP2354	270710	0286680	5720	1020	56300	132	42	28	151	173	7
RJP2355	269620	0287310	5650	860	49700	121	41	19	139	178	5
RJP2356	269760	0291700	5580	640	51100	116	34	22	92	242	2
RJP2357	269800	0291940	5840	590	46700	103	44	25	95	198	50
RJP2358	269820	0291810	5890	510	47300	114	36	16	92	225	2
RJP2359	269210	0291850	5750	630	51400	113	38	24	104	226	2
RJP2360	267490	0291830	5290	590	44800	85	46	32	117	205	4
RJP2361	268020	0293190	5850	750	50300	136	30	11	199	204	4
RJP2362	270600	0290530	5170	640	44600	89	49	61	209	170	13
RJP2363	270240	0290640	5390	480	46500	101	37	18	93	184	0
RJP2364	273000	0291410	6150	930	54000	147	36	6	93	174	0
RJP2365	272350	0291040	5770	990	55800	131	29	20	88	159	20
RJP2366	271500	0289800	5890	1240	55200	146	47	11	146	184	1
RJP2367	271870	0290800	6000	1220	55400	137	38	16	174	189	6
RJP2368	271150	0290090	5440	940	60300	148	33	130	449	154	34
RJP2369	271540	0290400	2610	60	17800	58	7	626	979	-1	5
RJP2370	271450	0290290	5040	920	46600	114	28	209	1677	158	0
RJP2371	269320	0290100	5660	1020	54300	134	40	43	231	178	2
RJP2372	267800	0290220	5340	760	49400	101	44	39	169	173	0
RJP2373	265700	0290400	840	100	12900	16	174	7060	13501	-1	0
RJP2374	266790	0293970	5460	1120	53000	124	42	21	240	183	35
RJP2375	269850	0295930	6190	810	58500	143	40	39	110	211	1
RJP2376	270720	0296120	6180	580	50000	128	38	24	103	209	92
RJP2377	271200	0296380	5830	620	52200	128	26	6	79	174	4
RJP2378	271690	0294220	6280	480	53900	131	41	21	120	211	7
RJP2379	273080	0294150	5760	720	42000	114	40	15	86	177	0
RJP2380	272500	0294250	5690	560	47100	134	23	8	77	165	2
RJP2381	273230	0294050	5750	900	51100	129	39	16	99	174	9

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2382	269940	0294260	6050	710	56400	127	33	15	97	205	2
RJP2383	273200	0293900	5840	1110	55900	137	38	33	114	170	0
RJP2384	270560	0294000	6090	390	49600	131	76	650	3481	222	3
RJP2385	269380	0294850	6180	500	51400	129	39	97	121	207	2
RJP2386	273570	0289300	2180	9210	51900	39	469	16950	9891	25	17
RJP2387	273440	0289210	1500	19190	56000	30	656	>18	15215	1	16
RJP2388	268050	0283370	3870	740	45900	83	161	14606	1081	58	31
RJP2389	268380	0283150	3860	730	75100	87	71	>18	2563	89	44
RJP2390	269400	0282820	4680	850	55900	102	47	11137	2329	133	34
RJP2391	269590	0282950	4350	1010	37800	98	68	1849	8587	120	6
RJP2392	270300	0282530	6100	880	55600	126	38	25	213	197	5
RJP2393	271800	0292350	5620	1420	49400	97	52	37	104	180	0
RJP2394	270400	0294440	6330	770	53100	133	50	50	229	212	10
RJP2395	271710	0292420	4500	1110	36100	73	25	23	164	260	54
RJP2396	270960	0294100	4660	1190	38500	80	26	22	171	250	9
RJP2398	272520	0293390	5670	1180	56000	123	44	25	113	173	0
RJP2399	272520	0292180	5830	1280	62800	142	43	34	136	171	3
RJP2400	271130	0280450	2120	470	23000	47	305	2515	>18	-1	3
RJP2401	273900	0280600	4780	900	50200	113	32	25	2047	151	13
RJP2402	273730	0288350	3610	1620	46100	94	38	2219	2255	95	5
RJP2403	273700	0289200	3580	4020	50600	81	197	5681	6790	90	8
RJP2404	274150	0291150	1420	2890	32600	33	96	12717	5030	-1	13
RJP2405	266150	0283620	3880	560	31100	96	80	1891	555	94	7
RJP2406	268230	0284690	5020	2500	47400	112	52	375	1325	131	2
RJP2407	268300	0284780	730	1820	14200	17	92	5527	166	-1	3
RJP2408	269710	0283800	4540	1140	50500	91	58	4529	519	159	27
RJP2409	268900	0283950	3990	920	50700	78	71	11771	1558	118	67
RJP2410	271510	0282310	6290	1190	54600	146	39	32	190	191	0
RJP2411	273750	0278900	5340	860	63300	123	54	445	1782	157	33
RJP2412	270690	0281880	6310	1750	56300	147	46	17	245	191	5
RJP2413	273320	0278750	1170	10	19200	28	13	229	591	-1	7
RJP2414	270300	0281580	6250	1200	60500	144	37	26	160	192	2
RJP2415	271500	0279840	6120	980	55700	141	35	19	146	178	2
RJP2416	270120	0281290	4670	790	42400	81	46	275	8315	139	5
RJP2417	267690	0281780	5740	1010	59100	124	42	31	127	187	7
RJP2418	266120	0281900	5610	930	54600	123	42	7	120	174	108
RJP2419	265470	0282510	5480	1450	52200	119	44	142	123	165	18
RJP2420	265700	0281010	5490	650	50800	112	46	11	134	164	17
RJP2421	266950	0288450	5880	1430	54100	123	39	17	139	194	2
RJP2422	270700	0285300	5580	590	55900	126	31	31	140	173	6
RJP2423	269300	0287010	5660	810	54300	118	37	17	123	179	2
RJP2424	268900	0278780	5230	1060	55700	121	37	19	393	148	36
RJP2425	268600	0279600	5750	740	54900	127	43	16	137	167	36
RJP2426	271400	0278300	5630	1430	55700	131	42	54	5648	157	7
RJP2427	271320	0278750	5040	1330	52300	117	37	85	3430	148	18
RJP2428	272450	0278350	6100	900	61800	142	37	149	1486	174	26
RJP2429	273130	0278100	4160	430	40900	92	18	51	1538	125	4
RJP2430	274130	0271650	3360	2410	32000	68	49	474	3447	27	8
RJP2431	273900	0267510	5350	1090	51000	106	39	61	228	178	10

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Sample Reference	Easting	Northing	Ti (ppm)	Mn (ppm)	Fe (ppm)	V (ppm)	Ni (ppm)	Cu (ppm)	Zn (ppm)	Zr (ppm)	Sn (ppm)
RJP2432	274500	0270700	5410	820	51400	113	40	430	233	172	1
RJP2433	274430	0266080	2600	290	28500	60	26	103	2680	42	7
RJP2434	274370	0269990	5740	1460	55300	124	34	21	118	180	2
RJP2435	277100	0265630	5720	2730	54200	131	33	16	103	184	4
RJP2437	276890	0267020	5440	2060	56700	124	30	11	103	182	1
RJP2438	275450	0269300	3920	620	42500	86	49	10298	2423	69	20
RJP2439	276750	0267280	5970	830	54700	131	39	24	106	184	8
RJP2440	270420	0274250	4660	740	41900	75	52	46	1125	144	0
RJP2441	272650	0270320	5310	770	48500	94	43	9	111	179	5
RJP2442	270430	0274150	2360	220	24500	55	42	196	2200	0	2
RJP2443	273700	0273620	5470	950	50400	105	41	20	125	172	6
RJP2444	271560	0277290	2950	350	30300	66	17	27	552	92	0
RJP2445	271560	0277290	5520	1610	56500	128	43	15	166	162	16
RJP2446	272350	0274210	770	80	9400	16	28	560	753	-1	10
RJP2447	268300	0277650	5260	640	45000	85	53	39	105	159	1
RJP2448	272700	0271900	5620	1050	50400	111	41	9	135	198	2
RJP2449	269340	0276100	5350	650	47000	93	50	15	110	158	0

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Sample Reference	Eastings	Northing	Sb (ppm)	Ba (ppm)	Ce (ppm)	Pb (ppm)	As (ppm)	Au (ppb)
RJP2001	280320	0274620	27.0	403	1348	7946	17.0	0
RJP2002	285400	0275890	0.0	488	481	14	10.0	0
RJP2003	280910	0274880	40.0	429	9796	>18	12.0	0
RJP2004	281320	0274680	0.0	497	4783	70	9.0	0
RJP2005	281140	0274710	0.0	502	6653	24	11.0	0
RJP2006	280570	0274700	18.0	429	6272	4873	21.0	0
RJP2007	280910	0274880	75.0	398	13973	>18	7.0	0
RJP2008	282110	0274930	0.0	542	1562	91	15.0	0
RJP2009	281890	0274810	0.0	580	9722	34	17.0	0
RJP2010	282600	0275600	0.0	569	10442	27	9.0	0
RJP2011	282280	0275380	0.0	558	4570	40	11.0	0
RJP2012	282910	0275480	0.0	462	25185	27	10.0	0
RJP2013	282900	0275580	0.0	510	2561	21	8.0	0
RJP2014	280240	0272500	0.0	471	20367	13	13.0	0
RJP2015	280200	0272400	0.0	364	2839	5	6.0	0
RJP2016	279800	0272460	0.0	460	1393	6	13.0	0
RJP2017	279690	0272530	0.0	457	9168	11	7.0	0
RJP2018	279710	0273700	0.0	470	2139	14	11.0	0
RJP2019	287400	0260590	197.0	330	15786	>18	-1	0
RJP2021	287700	0260450	0.0	503	25610	721	20.0	0
RJP2022	289060	0260490	0.0	296	7901	58	12.0	0
RJP2023	289210	0260480	0.0	330	2797	38	15.0	0
RJP2024	285900	0261600	7.0	294	37709	6080	4.0	0
RJP2025	286320	0261120	0.0	490	3994	132	8.0	0
RJP2026	286390	0261310	0.0	439	15357	192	16.0	0
RJP2027	286610	0261080	0.0	467	15639	142	14.0	0
RJP2028	277940	0244720	102.0	148	258	>18	-1	0
RJP2029	278160	0244730	92.0	93	10	5.0	0	0
RJP2030	277750	0244780	0.0	502	274	388	14.0	0
RJP2031	278650	0244900	3.0	304	67	648	20.0	0
RJP2032	286800	0260000	0.0	608	8936	134	12.0	0
RJP2033	286750	0259910	0.0	570	25039	510	23.0	0
RJP2034	287200	0259760	0.0	448	34090	175	6.0	0
RJP2035	287120	0259820	0.0	575	12434	388	23.0	0
RJP2036	287790	0260030	0.0	444	23611	29	4.0	0
RJP2037	287680	0260030	0.0	286	18070	27	5.0	13
RJP2038	283700	0257700	11.0	560	32741	533	27.0	0
RJP2039	283620	0257790	3.0	395	59906	236	5.0	0
RJP2040	283430	0257700	4.0	256	100073	118	6.0	0
RJP2041	283500	0257620	0.0	394	30441	114	9.0	13
RJP2042	282960	0258250	0.0	460	15536	78	7.0	0
RJP2043	282990	0258310	0.0	422	30784	178	13.0	0
RJP2044	265740	0240500	3.0	746	48059	366	33.0	1108
RJP2045	282890	0258810	0.0	445	1152	55	15.0	0
RJP2046	282990	0258920	0.0	417	40049	240	12.0	0
RJP2047	283120	0259750	1.0	371	52316	148	14.0	0
RJP2048	283060	0259800	0.0	279	84088	74	8.0	0
RJP2049	283080	0256200	0.0	439	3067	16	6.0	0
RJP2050	283190	0256300	0.0	303	73365	156	6.0	0

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RJP2051	284300	0256000	0.0	467	1392	32	13.0	0
RJP2052	284190	0256010	0.0	405	17496	52	14.0	0
RJP2053	287590	0254400	0.0	431	3094	83	14.0	0
RJP2054	287590	0254640	8.0	363	35562	41	6.0	0
RJP2055	287660	0254700	0.0	367	25861	42	16.0	0
RJP2057	271410	0236850	0.0	381	1045	110	12.0	0
RJP2058	271480	0236470	0.0	325	1424	56	10.0	0
RJP2060	274200	0238920	0.0	420	1331	29	9.0	0
RJP2061	272750	0243300	0.0	463	5587	12	21.0	13
RJP2062	272180	0243410	0.0	459	7059	20	14.0	0
RJP2063	272110	0243360	0.0	460	800	16	29.0	0
RJP2064	273000	0243120	0.0	504	820	16	16.0	0
RJP2065	273460	0242420	0.0	497	354	865	24.0	0
RJP2066	283200	0250500	0.0	399	646	7491	15.0	0
RJP2067	284050	0251720	0.0	452	14583	30	17.0	0
RJP2068	284100	0251500	0.0	414	6848	377	14.0	0
RJP2069	282190	0249950	0.0	445	1071	24	18.0	0
RJP2070	282200	0249650	0.0	403	213	44	17.0	0
RJP2071	281800	0249220	0.0	511	285	75	34.0	0
RJP2072	279700	0247980	0.0	225	59	14	8.0	0
RJP2073	278310	0246300	0.0	487	1243	45	18.0	0
RJP2080	283820	0258600	0.0	343	84202	65	0.0	0
RJP2081	284050	0258920	0.0	424	39957	237	13.0	0
RJP2082	284380	0259250	2.0	505	9704	445	18.0	16
RJP2083	284360	0259530	6.0	371	62722	410	0.0	0
RJP2084	284200	0259660	0.0	390	31718	306	8.0	0
RJP2085	272310	0241960	1.0	534	533	219	20.0	0
RJP2087	272230	0241880	3.0	450	1901	4276	22.0	0
RJP2088	272590	0241700	0.0	471	223	28	9.0	0
RJP2089	273280	0241800	1.0	581	2090	211	19.0	13
RJP2090	274220	0241490	1.0	502	2830	53	17.0	0
RJP2092	266270	0240570	0.0	1384	17470	74	65.0	642
RJP2093	267180	0241970	3.0	296	76125	25	4.0	0
RJP2094	267180	0241850	0.0	397	34321	63	13.0	38
RJP2095	267820	0240500	0.0	451	2066	94	10.0	285
RJP2096	273500	0239670	3.0	388	47198	46	4.0	0
RJP2097	273330	0238900	0.0	404	1887	24	10.0	0
RJP2098	267680	0239950	225.0	409	10181	7984	780.0	2600
RJP2099	274800	0238600	0.0	347	10072	107	12.0	0
RJP2100	276030	0243230	0.0	449	10506	60	7.0	0
RJP2101	276100	0242110	0.0	444	7516	123	12.0	0
RJP2102	275850	0241830	0.0	454	1463	64	8.0	0
RJP2103	274630	0269660	117.0	1307	34390	4904	4.0	0
RJP2104	274500	0268930	0.0	478	18751	1677	11.0	0
RJP2105	278050	0268440	0.0	418	7780	14	11.0	0
RJP2123	284300	0259680	0.0	386	55989	186	7.0	0
RJP2124	284580	0259970	1.0	493	63287	110	26.0	0
RJP2125	284340	0259380	0.0	393	9169	238	13.0	8765

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RJP2126	284020	0259050	0.0	431	58344	596	17.0	133
RJP2127	267910	0240330	0.0	423	820	16	10.0	117
RJP2128	268590	0240100	0.0	431	290	42	5.0	0
RJP2129	275220	0290600	2.0	305	75572	1816	6.0	0
RJP2130	275300	0290690	0.0	447	29803	31	8.0	0
RJP2131	275450	0290800	0.0	456	17718	28	9.0	0
RJP2132	275250	0291710	0.0	468	9143	17	5.0	0
RJP2133	274000	0291100	14.0	378	23003	6541	21.0	0
RJP2134	275030	0292350	0.0	449	4628	27	14.0	0
RJP2135	276260	0289690	0.0	530	2083	54	13.0	0
RJP2136	275900	0290300	0.0	464	15880	44	10.0	0
RJP2137	274290	0288940	0.0	511	9299	82	18.0	0
RJP2138	275030	0288210	0.0	513	3263	20	11.0	0
RJP2139	272500	0287960	8.0	526	9971	2862	25.0	14
RJP2140	273210	0286930	0.0	506	13927	26	9.0	0
RJP2141	279360	0287830	1.0	708	2075	32	11.0	0
RJP2142	278610	0288640	0.0	622	2975	24	9.0	0
RJP2143	277880	0287550	0.0	626	1366	69	8.0	0
RJP2144	276810	0286820	0.0	549	9341	82	7.0	0
RJP2145	271320	0285500	10.0	480	20623	579	38.0	11
RJP2146	273700	0285500	0.0	538	6778	14	4.0	0
RJP2147	274120	0283650	7.0	473	3751	29	36.0	0
RJP2148	277700	0290840	0.0	503	11689	86	9.0	0
RJP2149	277950	0291170	0.0	526	11521	65	12.0	0
RJP2150	278020	0291250	0.0	473	12261	91	8.0	0
RJP2151	278500	0290750	0.0	538	15005	67	7.0	0
RJP2152	276380	0286690	1.0	516	3020	73	33.0	0
RJP2153	277290	0284140	0.0	586	11520	118	10.0	0
RJP2154	277210	0284020	0.0	572	17600	382	11.0	0
RJP2155	273660	0289280	164.0	370	8075	>18	42.0	69
RJP2156	272400	0288500	0.0	496	6580	90	10.0	0
RJP2157	275220	0285480	0.0	498	9871	41	14.0	0
RJP2158	275220	0285420	0.0	508	3035	30	17.0	0
RJP2159	280600	0288800	0.0	521	13215	78	10.0	0
RJP2160	280720	0288900	0.0	470	11168	25	8.0	0
RJP2161	280850	0290200	0.0	356	8192	52	10.0	0
RJP2162	280100	0290600	0.0	467	10909	69	7.0	0
RJP2163	279870	0290130	0.0	430	11378	73	6.0	0
RJP2164	283880	0291580	0.0	549	4624	66	10.0	0
RJP2165	284300	0291020	0.0	436	70552	55	1.0	0
RJP2166	284320	0292080	0.0	432	59770	30	7.0	0
RJP2167	284010	0290010	2.0	515	20377	202	5.0	0
RJP2168	283550	0288400	0.0	505	24689	69	9.0	0
RJP2169	277710	0288990	2.0	429	2162	22	9.0	0
RJP2170	282890	0287040	0.0	531	10213	391	10.0	0
RJP2171	281760	0286350	3.0	519	2560	45	9.0	0
RJP2172	281590	0286290	1.0	493	9519	269	7.0	0
RJP2173	281670	0285970	2.0	548	4983	26	8.0	0
RJP2174	282690	0286130	207.0	113	5838	>18	-1	0

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RJP2175	269650	0242480	3.0	469	356	152	27.0	0
RJP2176	269410	0242360	0.0	493	14458	41	17.0	0
RJP2177	269640	0242400	0.0	1185	2759	23	20.0	0
RJP2178	269190	0242200	0.0	398	54726	46	3.0	0
RJP2179	270180	0242200	3.0	487	243	30	18.0	0
RJP2180	270200	0242380	0.0	457	217	18	23.0	0
RJP2181	269480	0240840	1.0	473	1623	21	11.0	0
RJP2182	270020	0440420	3.0	477	240	30	17.0	0
RJP2183	269280	0242460	0.0	480	12393	25	12.0	0
RJP2184	269180	0242280	0.0	466	20755	53	6.0	0
RJP2186	267520	0242280	0.0	402	35238	31	8.0	0
RJP2187	280820	0285300	0.0	471	49688	29	6.0	0
RJP2188	280870	0284890	2.0	502	10078	26	12.0	0
RJP2189	281450	0284490	3.0	503	2926	14	12.0	0
RJP2190	281490	0284600	0.0	473	40451	32	10.0	0
RJP2191	281820	0284230	0.0	455	2435	19	7.0	0
RJP2192	282420	0283850	0.0	474	10944	17	9.0	0
RJP2193	282670	0285910	0.0	500	8844	35	7.0	0
RJP2194	283070	0285130	0.0	496	10161	26	20.0	0
RJP2195	283160	0284420	1.0	479	5266	20	7.0	0
RJP2196	283320	0284340	3.0	463	415	8	14.0	0
RJP2197	283920	0283320	1.0	463	3521	29	24.0	0
RJP2198	283520	0283300	1.0	450	2968	12	8.0	0
RJP2199	274180	0281780	1.0	493	5863	780	10.0	0
RJP2200	273600	0282680	3.0	497	482	22	13.0	0
RJP2201	273290	0283280	0.0	506	18635	37	10.0	0
RJP2202	273210	0283240	0.0	493	20537	35	8.0	0
RJP2203	277030	0284300	0.0	642	1487	25	8.0	0
RJP2205	269390	0243570	0.0	121	15	7	3.0	65
RJP2207	270350	0243820	0.0	375	55967	44	6.0	0
RJP2208	269510	0235580	0.0	162	25	14	12.0	0
RJP2209	277800	0286020	0.0	133	24	10	16.0	0
RJP2210	278040	0286040	0.0	522	9411	59	10.0	0
RJP2211	278000	0286180	1.0	574	3116	59	10.0	0
RJP2212	279720	0286010	0.0	318	10574	208	7.0	0
RJP2213	279400	0285400	0.0	556	15585	84	10.0	0
RJP2214	279430	0285000	0.0	534	28114	47	10.0	0
RJP2215	281350	0291680	0.0	498	31745	59	6.0	0
RJP2216	280850	0291020	0.0	401	26513	148	4.0	0
RJP2217	281330	0290880	0.0	565	4823	37	8.0	0
RJP2218	281830	0291300	0.0	411	9198	188	5.0	0
RJP2219	282100	0291400	0.0	472	14212	154	9.0	0
RJP2220	283500	0292900	0.0	500	23884	30	12.0	0
RJP2221	285090	0288600	0.0	519	6690	15	6.0	0
RJP2222	285300	0288920	0.0	516	12235	23	6.0	0
RJP2223	282690	0289190	0.0	515	4470	24	10.0	0
RJP2224	282800	0289260	0.0	508	11262	53	13.0	0
RJP2225	287800	0285880	0.0	489	10497	20	12.0	0

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RJP22226	287310	0286520	0.0	561	15515	48	7.0	0
RJP22228	282640	0287800	0.0	426	9936	116	9.0	0
RJP22229	283510	0287910	0.0	537	14294	87	6.0	0
RJP22230	284970	0286280	0.0	465	6193	46	7.0	0
RJP22231	284510	0286500	0.0	448	43781	30	10.0	0
RJP22232	275520	0283720	0.0	566	11713	128	13.0	0
RJP22233	275120	0282170	0.0	468	51557	79	4.0	0
RJP22234	285000	0275720	0.0	243	198	36	13.0	0
RJP22235	284640	0275790	0.0	525	5754	51	12.0	0
RJP22237	280550	0274520	0.0	473	12635	1787	12.0	0
RJP22238	292410	0263100	0.0	381	9046	18	31.0	0
RJP22239	291280	0261920	0.0	311	3210	8	12.0	0
RJP22240	290720	0261480	0.0	446	3251	18	15.0	0
RJP22241	290550	0261010	1.0	369	2887	15	10.0	0
RJP22242	290450	0261020	0.0	363	3645	30	8.0	0
RJP22243	291700	0262100	1.0	440	1256	18	14.0	12
RJP22244	290800	0260020	0.0	399	2586	10	16.0	0
RJP22245	290800	0259950	0.0	416	1019	12	15.0	0
RJP22246	290670	0260000	0.0	367	3255	17	9.0	0
RJP22247	288600	0262160	0.0	549	14742	51	16.0	0
RJP22248	287800	0262800	2.0	424	1384	32	22.0	0
RJP22249	288340	0256500	0.0	391	11177	22	15.0	10
RJP22250	288470	0256500	0.0	427	4722	23	23.0	0
RJP22251	288400	0256140	0.0	419	9093	21	23.0	0
RJP22252	288400	0256000	0.0	413	13074	40	18.0	0
RJP22253	287760	0256100	0.0	397	5991	50	18.0	0
RJP22254	287780	0256200	0.0	402	10253	28	21.0	0
RJP22255	288660	0257400	0.0	403	3890	21	25.0	0
RJP22256	289480	0257220	3.0	203	3170	9	18.0	0
RJP22257	289910	0256140	0.0	216	1651	5	7.0	0
RJP22258	290090	0256070	3.0	245	969	11	9.0	0
RJP22260	289650	0255680	0.0	269	3173	9	11.0	10
RJP22261	285980	0257490	0.0	358	17114	50	6.0	0
RJP22262	285900	0257450	0.0	311	2208	22	8.0	13
RJP22263	285610	0257600	0.0	327	10697	24	9.0	13
RJP22264	286160	0256090	0.0	409	1420	14	23.0	0
RJP22265	286130	0256180	0.0	375	27375	34	11.0	0
RJP22266	290980	0284950	0.0	439	25213	22	11.0	0
RJP22268	286920	0284850	0.0	440	38636	35	7.0	0
RJP22269	287000	0284920	0.0	476	22012	67	8.0	0
RJP22270	285300	0284690	0.0	468	14131	28	10.0	0
RJP22271	285450	0284500	0.0	464	4739	18	11.0	0
RJP22272	284380	0284710	0.0	423	546	10	9.0	11
RJP22273	284350	0284860	0.0	467	7164	30	12.0	0
RJP22274	284120	0285060	0.0	489	14684	30	10.0	10
RJP22275	284080	0285000	0.0	443	603	9	7.0	0
RJP22276	283900	0285260	0.0	472	3890	11	12.0	0
RJP22277	283980	0285320	1.0	479	7647	38	11.0	10
RJP22278	284390	0284890	0.0	435	1730	14	10.0	0

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RJP2279	287710	0284490	0.0	461	16445	21	9.0	0
RJP2280	287600	0284600	0.0	457	10809	149	10.0	0
RJP2281	287120	0284290	0.0	488	5041	19	8.0	0
RJP2282	287020	0284310	4.0	484	7376	485	8.0	0
RJP2283	288680	0284730	0.0	453	3039	22	14.0	0
RJP2284	289610	0284530	0.0	445	878	18	9.0	10
RJP2285	286400	0290440	1.0	442	1691	20	7.0	0
RJP2286	285250	0290750	0.0	497	14767	51	12.0	0
RJP2287	285000	0291150	0.0	400	69135	59	5.0	0
RJP2288	285000	0291280	0.0	413	60295	44	8.0	0
RJP2289	286000	0290540	0.0	437	309	23	18.0	0
RJP2290	285800	0290480	0.0	457	16567	19	7.0	0
RJP2291	285000	0289580	0.0	387	69396	59	5.0	0
RJP2292	286100	0288380	0.0	358	69014	528	4.0	11
RJP2293	287210	0291200	0.0	328	1374	20	11.0	0
RJP2294	286900	0289000	0.0	494	13932	25	10.0	12
RJP2295	287020	0289050	0.0	491	1965	19	15.0	0
RJP2297	288400	0289190	0.0	443	28093	23	7.0	13
RJP2298	289050	0288680	0.0	522	26126	31	5.0	0
RJP2299	285000	0283350	0.0	464	5475	16	16.0	0
RJP2300	285540	0283200	0.0	440	25483	23	11.0	0
RJP2301	285520	0283100	0.0	467	11290	35	9.0	0
RJP2302	286420	0283220	0.0	458	12697	13	5.0	0
RJP2303	286190	0283330	0.0	454	6002	15	16.0	0
RJP2304	286100	0283570	1.0	445	15193	15	11.0	0
RJP2305	288680	0288290	0.0	406	73026	28	2.0	0
RJP2306	288450	0288050	0.0	539	15377	18	7.0	0
RJP2307	288100	0288020	0.0	554	11276	18	8.0	0
RJP2308	290400	0286440	0.0	493	20682	156	10.0	0
RJP2309	285800	0293020	1.0	309	568	564	8.0	0
RJP2310	289240	0285390	0.0	451	682	136	11.0	0
RJP2311	289150	0286360	0.0	554	12280	34	6.0	0
RJP2312	289020	0286450	0.0	528	20686	31	6.0	0
RJP2313	289240	0286450	0.0	530	3422	23	11.0	0
RJP2314	289050	0287430	0.0	451	57117	25	4.0	0
RJP2315	286120	0283950	0.0	472	6740	24	12.0	0
RJP2317	285200	0292880	12.0	471	4519	1447	17.0	0
RJP2318	285170	0292810	28.0	424	22252	2020	20.0	0
RJP2320	286180	0292380	0.0	428	22537	2169	11.0	0
RJP2321	286930	0292540	0.0	429	1404	17	9.0	0
RJP2322	291320	0286120	1.0	544	574	327	11.0	0
RJP2323	292170	0286420	0.0	706	27271	109	8.0	0
RJP2324	292400	0290000	2.0	636	5404	36	16.0	0
RJP2325	292930	0287760	0.0	517	815	32	12.0	0
RJP2326	293400	0287420	52.0	88709	1385	>18	-1	0
RJP2328	292310	0288350	0.0	818	4333	109	10.0	0
RJP2329	291730	0292190	1.0	2907	541	28	18.0	0
RJP2330	291390	0291920	0.0	510	1978	26	7.0	0
RJP2331	292130	0290450	0.0	463	17667	37	10.0	0

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RJP2332	291500	0291320	3.0	490	322	75	9.0	0
RJP2333	285900	0293930	27.0	432	460	6735	14.0	0
RJP2334	287170	0282780	0.0	481	6352	24	9.0	0
RJP2335	287290	0282400	0.0	465	5033	32	6.0	0
RJP2336	289950	0283900	0.0	482	967	14	8.0	0
RJP2337	290060	0283860	0.0	489	3508	60	9.0	0
RJP2338	289150	0283730	0.0	461	7086	15	9.0	0
RJP2339	288610	0283400	0.0	455	22829	30	8.0	0
RJP2340	288990	0283310	0.0	487	6158	15	8.0	0
RJP2342	289100	0291650	1.0	500	2280	37	9.0	0
RJP2343	289700	0289920	0.0	502	4939	23	19.0	0
RJP2344	269600	0288800	0.0	452	39935	34	8.0	0
RJP2345	270480	0288250	0.0	526	12109	25	13.0	0
RJP2346	271800	0289500	0.0	497	10352	21	14.0	0
RJP2347	272000	0288560	0.0	479	29962	29	11.0	0
RJP2348	272020	0287900	5.0	527	12435	1575	22.0	0
RJP2349	271030	0287920	3.0	497	1464	389	12.0	0
RJP2350	271040	0287850	15.0	407	194	>18	0.0	0
RJP2351	271060	0287870	14.0	393	100	7130	11.0	10
RJP2352	270160	0287300	4.0	85	1656	40	9.0	0
RJP2353	270820	0287200	0.0	520	8884	65	13.0	0
RJP2354	270710	0286680	3.0	499	7924	27	18.0	0
RJP2355	269620	0287310	3.0	497	9442	58	12.0	0
RJP2356	269760	0291700	0.0	571	6273	39	14.0	0
RJP2357	269800	0291940	0.0	565	23025	107	12.0	0
RJP2358	269820	0291810	0.0	606	9665	35	5.0	0
RJP2359	269210	0291850	0.0	595	11960	64	13.0	0
RJP2360	267490	0291830	5.0	531	25140	1031	13.0	0
RJP2362	270600	0290530	0.0	515	24455	843	15.0	0
RJP2363	270240	0290640	0.0	560	15741	52	14.0	0
RJP2364	273000	0291410	0.0	484	3332	16	12.0	0
RJP2365	272350	0291040	3.0	374	1790	47	8.0	0
RJP2366	271500	0289800	1.0	493	1225	18	15.0	0
RJP2367	271870	0290800	0.0	948	4576	57	10.0	0
RJP2368	271150	0290090	8.0	541	1419	2153	34.0	0
RJP2369	271540	0290400	67.0	320	357	>18	-1	0
RJP2370	271450	0290290	11.0	497	2583	2679	13.0	0
RJP2371	269320	0290100	0.0	532	4319	267	17.0	0
RJP2372	267800	0290220	0.0	507	18671	187	15.0	0
RJP2373	265700	0290400	321.0	101	62	>18	-1	226
RJP2374	266790	0293970	0.0	550	8792	221	13.0	0
RJP2375	269850	0295930	1.0	554	1864	29	13.0	0
RJP2376	270720	0296120	0.0	558	10485	59	6.0	0
RJP2377	271200	0296380	2.0	435	1721	20	11.0	0
RJP2378	271690	0294220	0.0	596	4110	21	11.0	0
RJP2379	273080	0294150	0.0	494	13630	45	4.0	0
RJP2380	272500	0294250	0.0	526	3838	15	14.0	0
RJP2381	273230	0294050	1.0	496	10434	24	8.0	0

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Sample Reference	Easting	Northing	Sb (ppm)	Ba (ppm)	Ce (ppm)	Pb (ppm)	As (ppm)	Au (ppb)
RJP2382	269940	0294260	0.0	569	2371	59	17.0	0
RJP2383	273200	0293900	0.0	473	6943	105	7.0	0
RJP2384	270560	0294000	0.0	642	461	181	15.0	0
RJP2385	269380	0294850	0.0	546	12141	113	8.0	0
RJP2386	273570	0289300	146.0	267	3940	>18	21.0	66
RJP2387	273440	0289210	184.0	188	620	>18	23.0	69
RJP2388	268050	0283370	693.0	312	1121	>18	14.0	32
RJP2389	268380	0283150	290.0	336	1384	>18	40.0	91
RJP2390	269400	0282820	49.0	366	2421	11717	32.0	11
RJP2391	269590	0282950	72.0	357	70	>18	35.0	10
RJP2392	270300	0282530	0.0	434	4944	884	11.0	0
RJP2393	271800	0292350	0.0	492	24149	41	13.0	0
RJP2394	270400	0294440	0.0	559	5913	35	11.0	0
RJP2395	271710	0292420	0.0	395	7586	73	14.0	0
RJP2396	270960	0294100	0.0	418	6272	60	15.0	0
RJP2398	271200	0293390	0.0	483	14299	25	12.0	0
RJP2399	272520	0292180	1.0	505	9687	39	24.0	0
RJP2400	271130	0280450	516.0	161	203	>18	-1	0
RJP2401	273900	0280600	10.0	373	121	2841	20.0	0
RJP2402	273730	0288350	55.0	324	1407	13397	11.0	0
RJP2403	273700	0289200	106.0	373	284	>18	10.0	69
RJP2404	274150	0291150	77.0	141	823	>18	-1	28
RJP2405	266150	0283620	58.0	287	166	>18	37.0	14
RJP2406	268230	0284690	15.0	415	364	>18	31.0	14
RJP2407	268300	0284780	65.0	62	10	>18	70.0	52
RJP2408	269710	0283800	93.0	303	1579	8655	54.0	10
RJP2409	268900	0283950	110.0	298	4929	>18	39.0	14
RJP2410	271510	0282310	0.0	492	620	235	14.0	0
RJP2411	273750	0278900	22.0	444	1877	3661	9.0	0
RJP2412	270690	0281880	1.0	511	561	181	14.0	0
RJP2413	273320	0278750	251.0	132	341	>18	-1	0
RJP2414	270300	0281580	2.0	475	321	295	8.0	0
RJP2415	271500	0279840	1.0	475	2211	73	9.0	0
RJP2416	270120	0281290	29.0	385	18256	2078	10.0	0
RJP2417	267690	0281780	0.0	460	5105	64	14.0	0
RJP2418	266120	0281900	0.0	448	9932	39	7.0	0
RJP2419	265470	0282510	0.0	441	15087	830	11.0	0
RJP2420	265700	0281010	0.0	435	14929	41	5.0	0
RJP2421	266950	0288450	0.0	482	5912	30	7.0	0
RJP2422	270700	0285300	6.0	526	3778	54	27.0	0
RJP2423	269300	0287010	2.0	491	9129	40	13.0	0
RJP2424	268900	0278780	5.0	392	2683	1510	16.0	0
RJP2425	268600	0279600	0.0	452	10591	57	10.0	0
RJP2426	271400	0278300	13.0	416	604	2589	16.0	0
RJP2427	271320	0278750	22.0	389	3320	2066	12.0	0
RJP2428	272450	0278350	2.0	470	937	168	13.0	0
RJP2429	273130	0278100	13.0	305	89	1012	8.0	0
RJP2430	274130	0271650	101.0	263	161	>18	-1	0
RJP2431	273900	0267510	3.0	455	8402	310	8.0	0

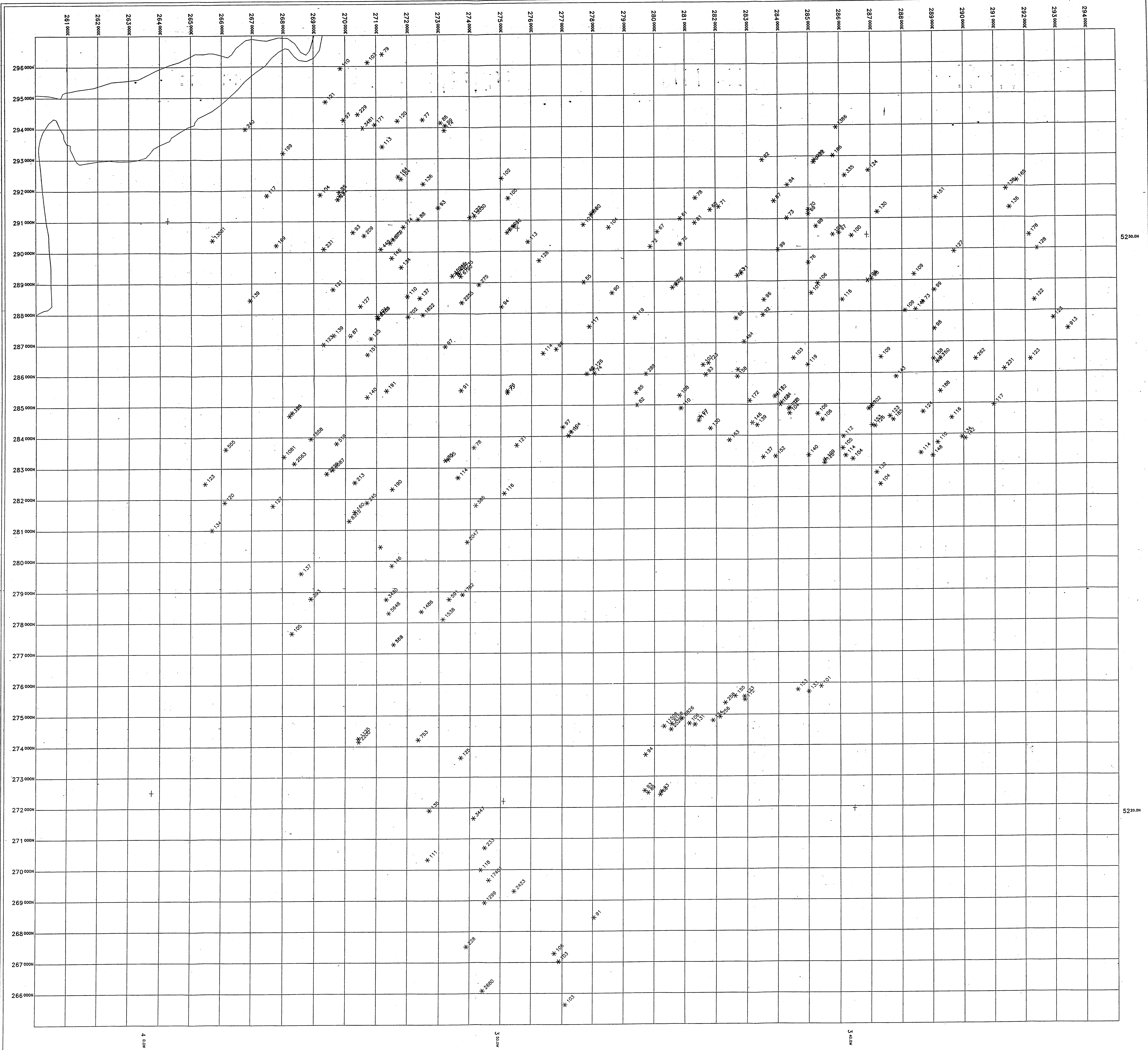
BRITISH GEOLOGICAL SURVEY
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Central Wales Heavy Mineral Concentrate Data

Sample Reference	Easting	Northing	Sb (ppm)	Ba (ppm)	Ce (ppm)	Pb (ppm)	As (ppm)	Au (ppb)
RJP2432	274500	0270700	36.0	362	86	9545	11.0	0
RJP2433	274430	0266080	33.0	231	56	>18	-1	0
RJP2434	274370	0269990	0.0	476	2252	223	10.0	0
RJP2435	277100	0265630	0.0	489	960	73	21.0	0
RJP2437	276890	0267020	0.0	477	1432	56	25.0	0
RJP2438	275450	0269300	247.0	289	56	>18	-1	0
RJP2439	276750	0267280	0.0	488	2948	83	8.0	0
RJP2440	270420	0274250	26.0	389	18540	2122	9.0	0
RJP2441	272650	0270320	0.0	420	14690	58	11.0	0
RJP2442	270430	0274150	175.0	210	71	>18	-1	0
RJP2443	273700	0273620	1.0	462	12292	61	10.0	0
RJP2444	271560	0277290	21.0	221	115	2536	9.0	0
RJP2445	271560	0277290	0.0	441	5407	190	10.0	0
RJP2446	272350	0274210	116.0	97	38	>18	-1	0
RJP2447	268300	0277650	0.0	432	24694	214	5.0	0
RJP2448	272700	0271900	0.0	439	5331	82	7.0	0
RJP2449	269340	0276100	0.0	426	20819	49	4.0	0

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HEAVY MINERAL CONCENTRATES- MID WALES ZINC PPM



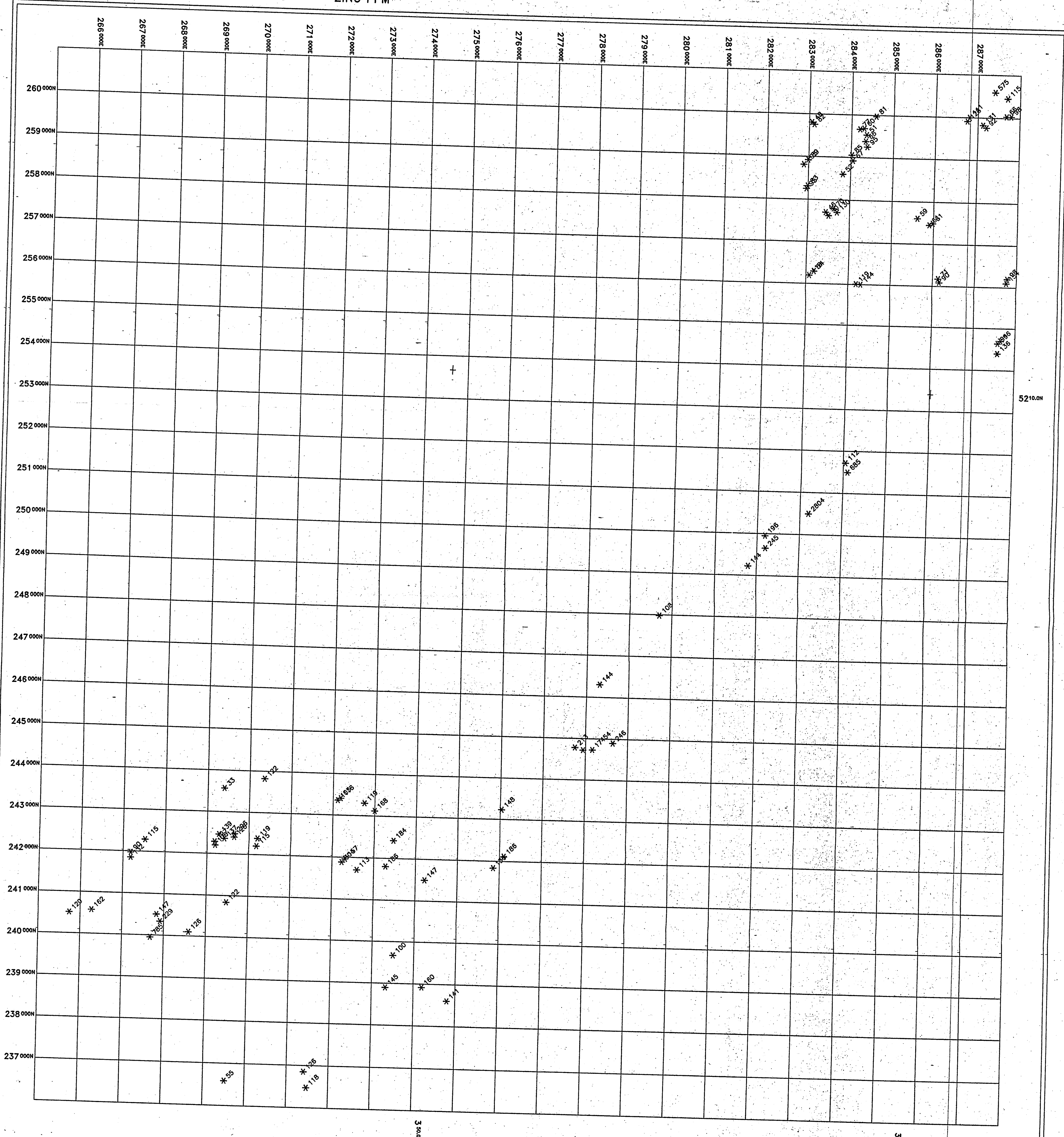
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HEAVY MINERAL CONCENTRATES- MID WALES ZINC PPM

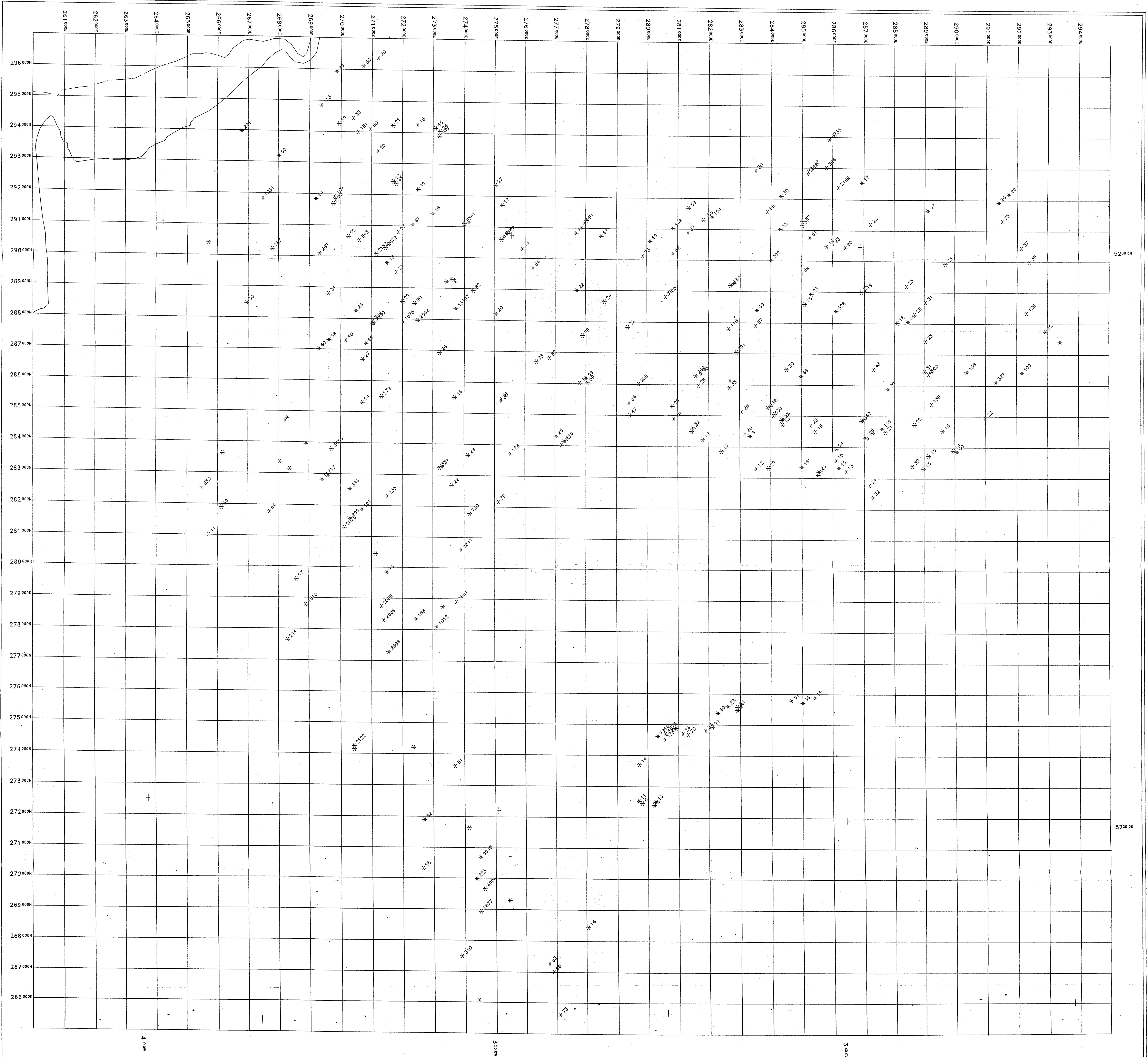
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HEAVY MINERAL CONCENTRATES- MID WALES

ZINC PPM



HEAVY MINERAL CONCENTRATES- MID WALES LEAD PPM



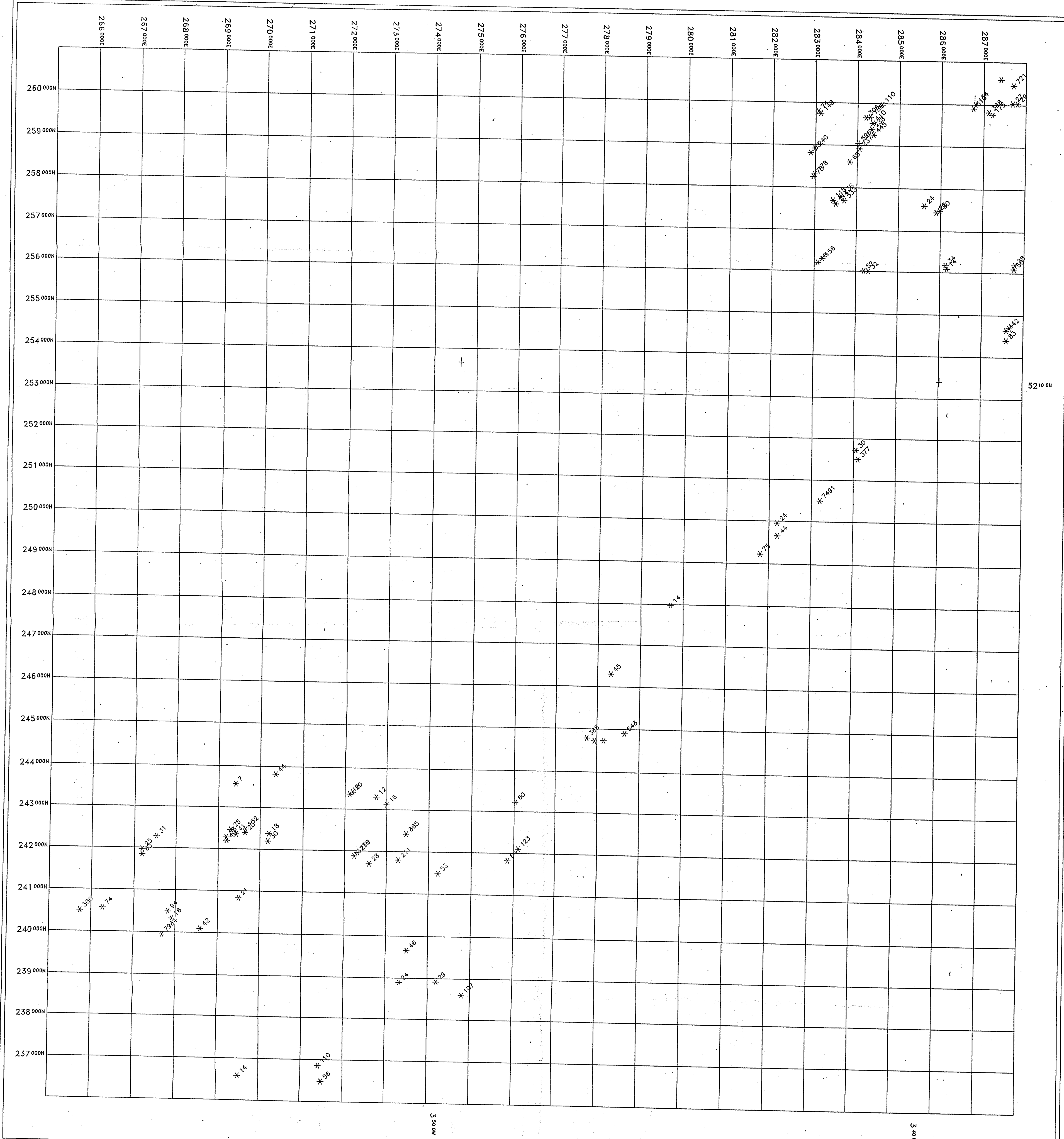
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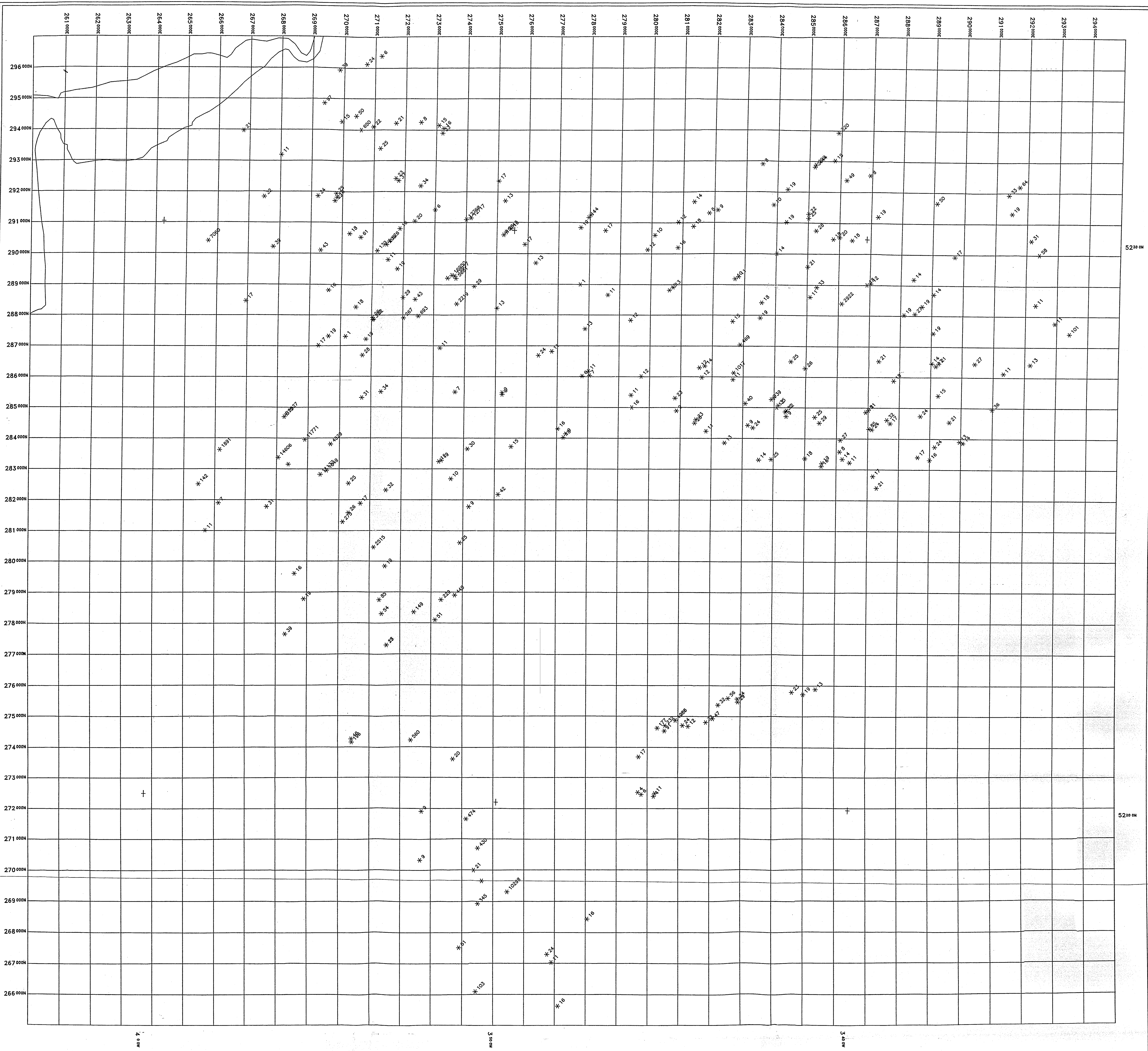
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HEAVY MINERAL CONCENTRATES- MID WALES LEAD PPM



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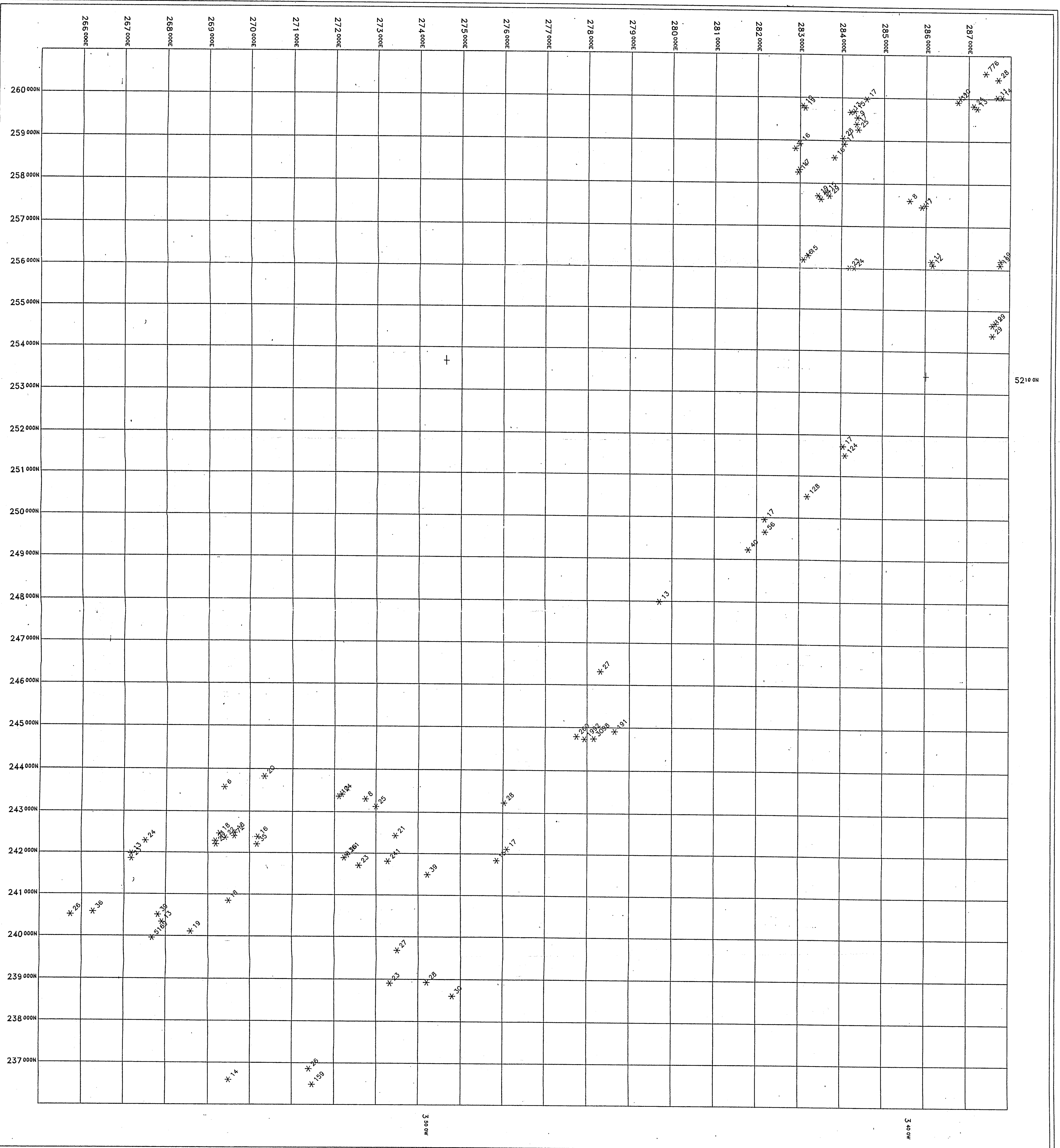


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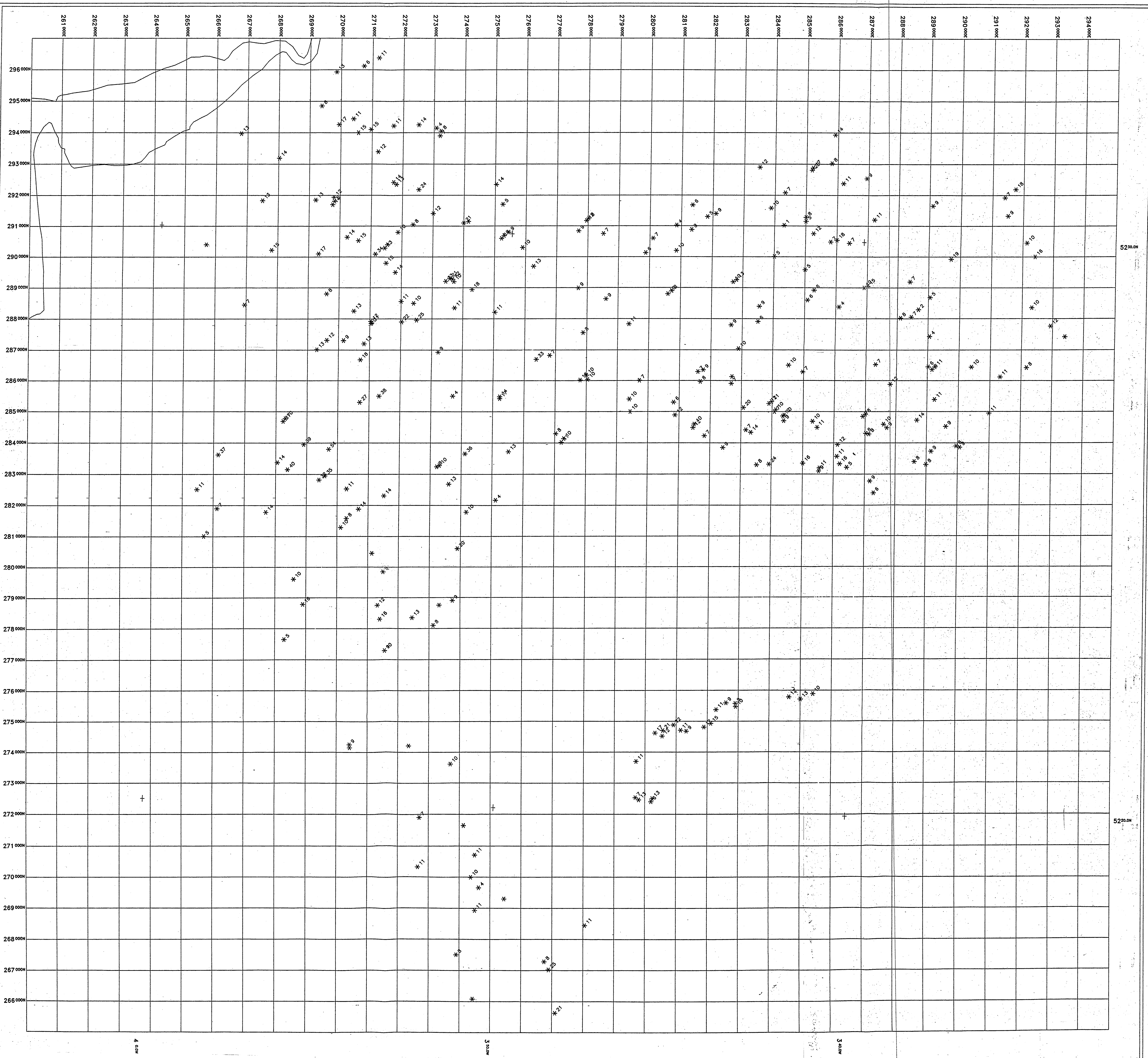


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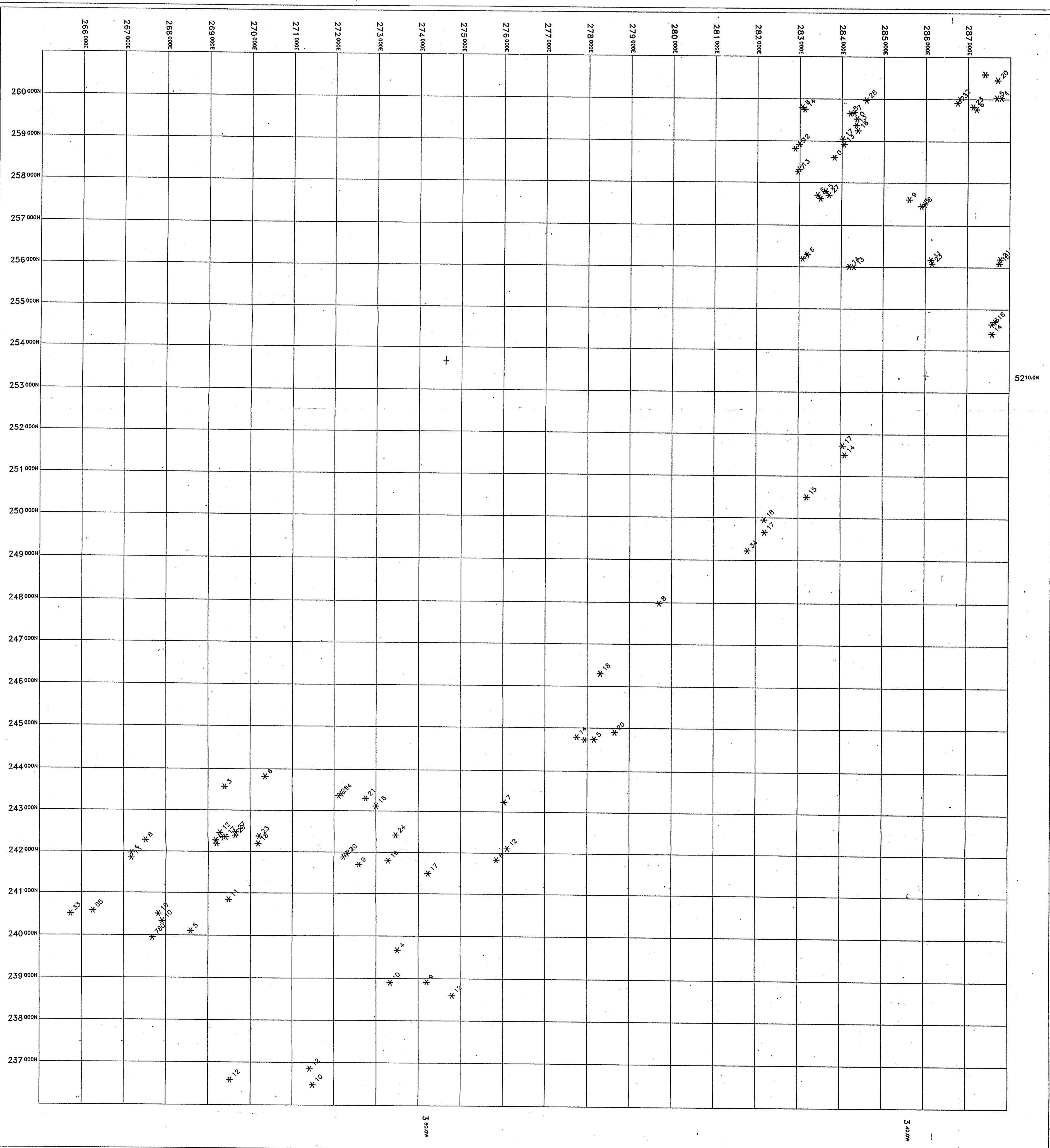
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HEAVY MINERAL CONCENTRATES- MID WALES ARSENIC PPM



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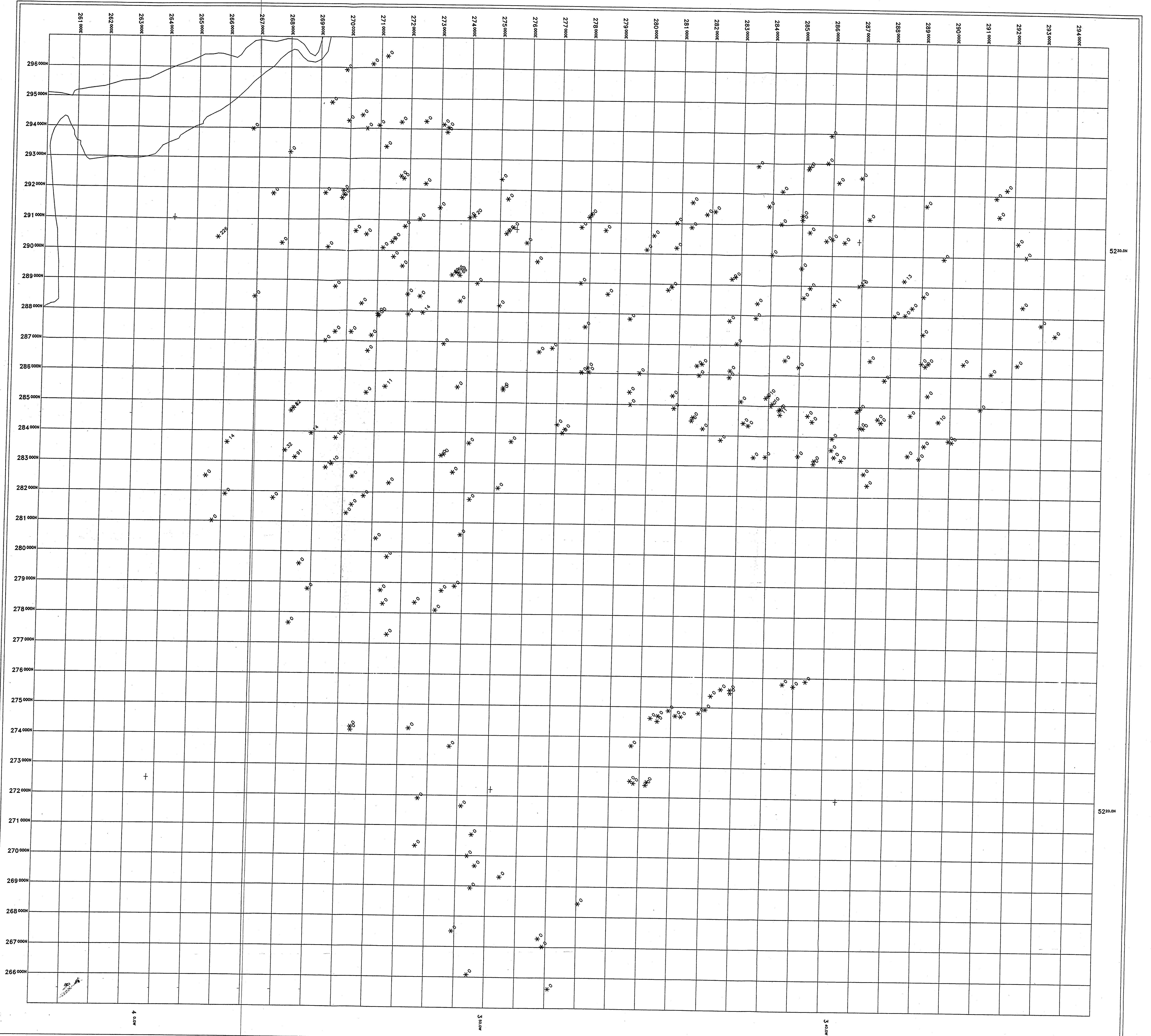
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Date : 22-JUN-93

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5230.0N

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3.5km

3.0km

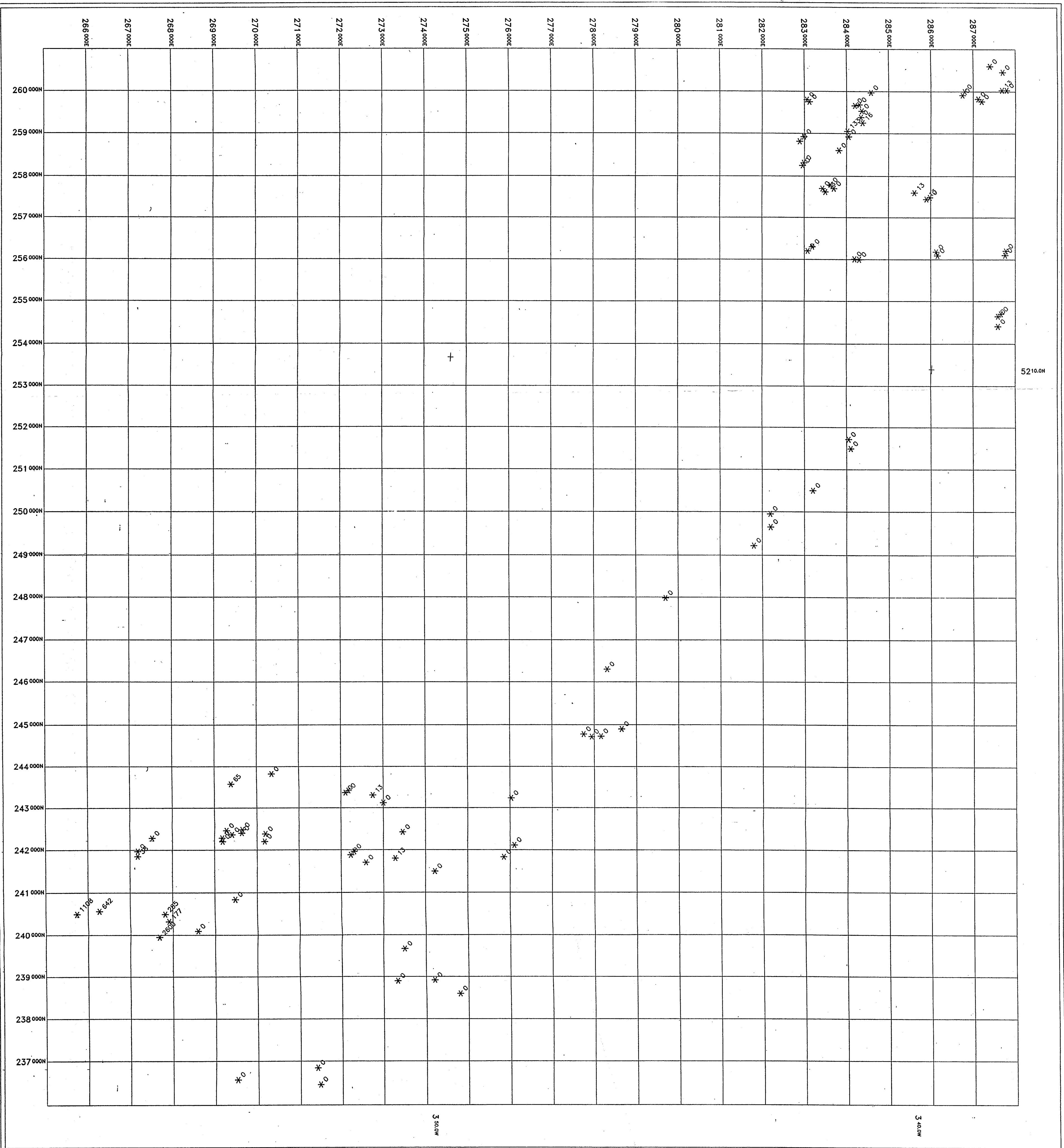
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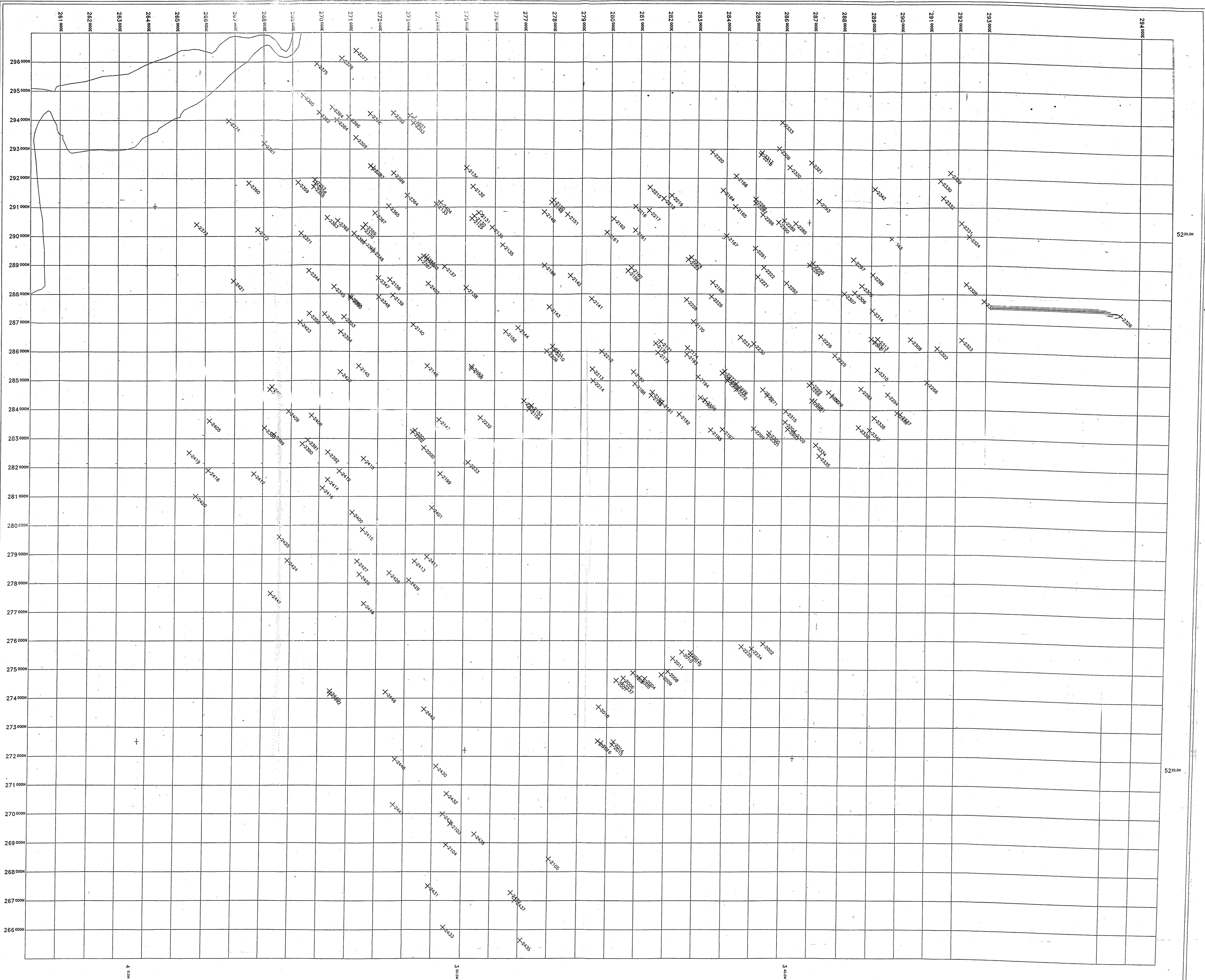
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HEAVY MINERAL CONCENTRATES- MID WALES SAMPLE SITES & NUMBERS



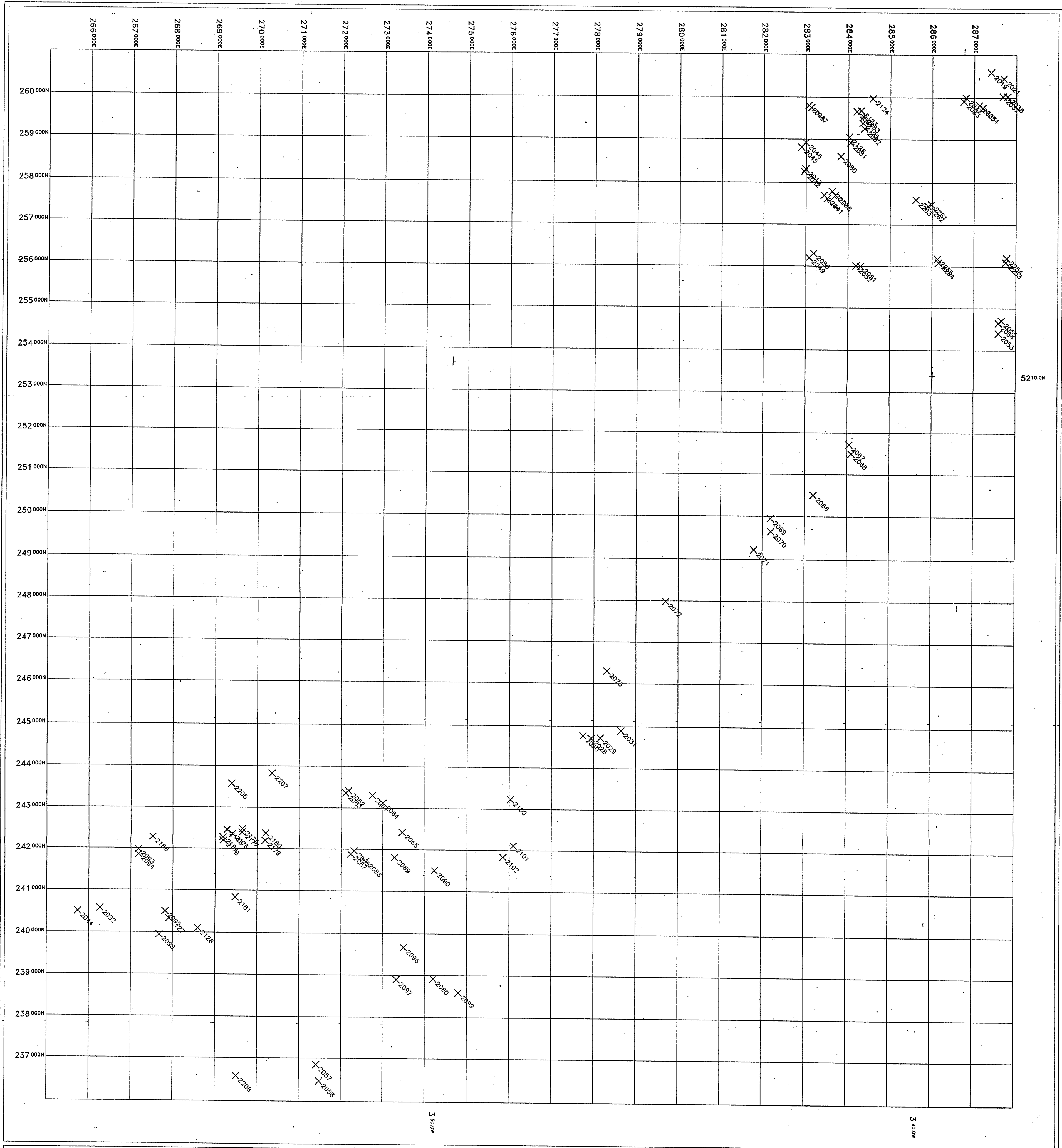
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HEAVY MINERAL CONCENTRATES- MID WALES SAMPLE SITES & NUMBERS

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