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APPENDICES

LIST OF APPENDICES

Appendix 1-A Well reference number, location and other well informations.

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
K-33	Wat Pho Tan, 940128	050676-080676	75.90	98	Core Log, Gamma Ray Log, KBr Analysis.
K-51	Wat Buna Chuan, 885149	240177-300177	15.00	92	Core Log, Gamma Ray Log, KBr Analysis.
K-52	Wat Phet Phum Suwan, 883107	030277-090277	15.00	78	Core Log.
KB-1	Ban Nong Pradu, 939103	201179-271179	25.60	99	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-2	Ban Hua Sa, 952098	041279-131279	53.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-3	Ban Nong Pradu, 935110	021279-071279	54.00	99	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-4	Ban Hua Thale, 947110	121279-211279	51.00	99	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-5	Ban Nong Pradu, 935103	201279-221279	34.50	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis
KB-6	Ban Nong Pradu, 944103	261279-291279	59.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
KB-7	Ban Hua Sa, 938094	020180-110180	49.00	100	Core Log, Gamma Ray Log, KBr Analysis.
KB-8	Ban Hua Sapan, 947091	060180-090180	52.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-9	Ban Hua Thale, 968098	170180-250180	57.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-10	Ban Hua Sa, 968091	010280-090280	115.50	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-11	Ban Hua Sa, 951083	140280-180280	67.15	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-12	Ban Nong Pradu, 939109	250280-020380	52.00	95	Core Log, KBr, Na_2O, K_2O, CaO and MgO Analysis
KB-13	Ban Hua Thale, 966115	070380-130380	81.97	100	Core Log, Gamma Ray Log, KBr Analysis.
KB-14	Ban Hua Thale, 959059	100280-230380	64.50	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-15	Ban Hua Sa, 956091	220380-140480	64.50	100	Core Log, Gamma Ray Log, KBr Analysis.
KB-16	Ban Nong Yai But, 990090	240180-040281	38.00	90	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
KB-17	Ban Nong Yai But, 989071	140281-250281	70.00	90	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-18	Ban Hua Sa, 970070	080381-150381	64.00	95	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-19	Wat Tha Sala, 970128	070481-110481	69.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-20	Ban Na, 972144	120481-220481	72.00	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
KB-21	Ban Nong Luke Chang, 990145	190481-270581	62.84	90	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
PQ-1	Ban Tan, 940121	261277-070178	6.09	95	Core Log, Gamma Ray Log, KBr Analysis.
PQ-2	Ban Tan, 941126	110178-220178	6.10	97	Core Log, Gamma Ray Log, KBr Analysis.
PQ-3	Ban Wang Ka-am, 939154	310178-220278	198.46	95	Core Log, Gamma Ray Log, KBr Analysis.
PQ-4	Ban Khok Phet, 934124	300681-110781	209.44	85	Core Log, Gamma Ray Log, KBr Analysis.
PQ-5	Ban Tan, 936118	220781-030881	198.55	97	Core Log, Gamma Ray Log, KBr Analysis.
PQ-6	Ban Tan (450 m. north of PQ-5), 936122	250781-270781	206.30	95	Core Log, Gamma Ray Log, KBr Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
PQ-7	Ban Tan (300 m. north of PQ-5), 936121	030881-050881	205.25	80	Core Log, Gamma Ray Log, KBr Analysis.
PQ-8	Ban Tan (100 m. north of PQ-6), 936123	080881-140881	205.83	95	Core Log, Gamma Ray Log, KBr Analysis.
PQ-9	Ban Tan (100 m. south of PQ-5), 936116	080881-140881	204.55	60	Core Log, Gamma Ray Log, KBr Analysis.
PQ-10	Ban Khok Phet, 932114	120881-130881	205.60	70	Core Log, Gamma Ray Log.
PQ-11	Ban Khok Phet (150 m. east of PQ-10), 933115	150881-170881	205.44	80	Core Log, Gamma Ray Log, KBr Analysis.
RS-1.1	Ban Tan, 939116	220777-280777	144.90	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-1.2	Wat Hua Thale, 956111	070877-200877	199.79	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-1.3	Wat Hua Bung, 954126	020877-080877	186.05	100	Core Log, KBr Analysis.
RS-1.4	Ban Tan, 948122	300877-140977	203.56	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
RS-1.5	Wat Pa Samakkhi, 956139	150877-240877	192.45	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-1.6	Wat Sarika, 943147	280977-021077	183.29	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.0	Ban Tan, 940122	160977-200977	200.15	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.1	Ban Tan, 948116	240977-021077	197.95	100	Core Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.2	Ban Hua Bung, 959120	010977-070977	197.99	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.3	Ban Hin Tang, 922148	121077-171077	197.23	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.4	Ban Khok Faek, 904116	131077-211077	190.85	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.5	Ban Tan, 932128	161077-221077	164.91	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.6	Ban Khok Sawang, 921113	221077-261077	198.21	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.7	Ban Tan, 936117	241077-291077	180.37	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
RS-2.8	Ban Kloi, 908117	031177-081177	146.39	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.9	Ban Wang Ka-am-Ban Hin Tang, 933147	310178-050278	164.38	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.10	Ban Khok Faek, 899114	110278-150278	164.19	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.11	Ban Nong Thong Lang, 914137	170278-260278	167.34	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.12	Ban Khok Faek, 908116	210278-260278	192.21	100	Core Log, Gamma Ray Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.13	Ban Kum, 927091	230877-290877	172.58	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.14	Ban Kut Talad, 858064	030977-080977	173.37	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.15	Ban Khok Sawang, 915101	160977-220977	147.74	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.16	Ban Nong Yai But (Km. 331.8), 976109	260977-021077	170.00	100	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.17	Ban Khao Din, 101079	261277-220178	206.28	95	Core Log, KBr, Na_2O, K_2O, CaO and MgO Analysis.
RS-2.18	Ban Tan, 926126	190879-130979	134.14	100	Core Log, KBr Analysis.

Appendix 1-A (continued)

Well Ref. No.	Location with Grid Ref.	Drilling Period	Start Coring (m.)	Core Recovery (%)	Data Description
RS-2.19	Ban Khok Sawang, 927118	220879-120979	142.74	95	Core Log, KBr Analysis.
RS-2.20	Ban Non Thong Lang, 924136	230979-201079	192.96	90	Core Log, KBr Analysis.
RS-2.21	Ban Tan, 934138	180180-280180	136.34	100	Core Log, KBr Analysis.
RS-2.22	Ban Khok Sawang, 903111	100181-140281	141.00	95	Core Log, Gamma Ray Log, KBr Analysis.
RS-2.23	Ban Wang Ka-am, 945139	220381-280381	141.00	98	Core Log, Gamma Ray Log, KBr Analysis.

Appendix 1-B Depth on tops of lithostratigraphic sequences in the study area (below mean sea level in meters).

Explanation:

Well Ref. No.	Index number of Well on maps
Elev.	Surface elevation above sea level
Alluvium & Upper Clastics	Depth on top of Alluvium & Upper Clastics Members
Upper Salt	Depth on top of Upper Salt Member
up cap anhy	Depth on top of Upper Cap Anhydrite Bed
up up halite	Depth on top of Upper Upper Halite Bed
up anhy	Depth on top of Upper Anhydrite Bed
low up halite	Depth on top of Lower Upper Halite Bed
Middle Clastics	Depth on top of Middle Clastics Member
Middle Salt	Depth on top of Middle Salt Member
mid cap anhy	Depth on top of Middle Cap Anhydrite Bed
up mid halite	Depth on top of Upper Middle Halite Bed
mid anhy	Depth on top of Middle Anhydrite Bed
low mid halite	Depth on top of Lower Middle Halite Bed
Lower Clastics	Depth on top of Lower Clastics Member
Basal Salt	Depth on top of Basal Salt Member
col halite	Depth on top of Coloured Halite Bed
potash	Depth on top of Potash Bed
up sylv	Depth on top of Upper Sylvinite Sub-bed
carn, halite & tachy	Depth on top of Carnallite, Halite & Tachyhydrite Sub-bed
low sylv	Depth on top of Lower Sylvinite Sub-bed
basal cap anhy	Depth on top of Basal Cap Anhydrite Bed
basal halite	Depth on top of Basal Halite Bed
basal anhy	Depth on top of Basal Anhydrite Bed
calc ss	Depth on top of Calcareous Sandstone Bed
Fe ss	Depth on top of Ferrugenous Sandstone Bed
Total Depth	Total Depth
- -	Unit not reached
?	Information questionable
NP	Not Present
	A minus sign preceding a number indicates depth below mean sea Level.

Well Ref. No.	Elev.	Alluvium & Upper Clastics	Upper Salt				Middle Clastics	Middle Salt				Lower Clastics	Basal Salt									Total Depth
			up cap anhy	up up halite	up anhy	low up halite		mid cap anhy	up mid halite	mid anhy	low mid halite		col halite	Potash			basal cap anhy	basal halite	basal anhy	calc ss	Fe ss	
														up sylv	carn, halite & tachy	low sylv						
K-33	200.00	200.00	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	154.00	138.43	-85.75	-86.85	-87.73	291.08
K-51	205.00	205.00	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP	141.07	73.33	71.99	71.50	138.68
K-52	210.00	210.00	NP	NP	NP	NP	NP	163.00?	NP	NP	NP	156.50?	NP	NP	NP	NP	142.00	127.70	50.93	49.70	48.03	160.02
KB-1	205.69	205.69	NP	NP	NP	NP	NP	NP	NP	155.49	149.34	140.61	122.14	NP	120.69	NP	NP	82.09	-109.51	-110.87	-111.20	320.00
KB-2	204.01	204.01	NP	NP	NP	NP	NP	NP	152.20	103.86	103.01	81.74	63.91	NP	62.61	NP	NP	22.21	-149.34	-150.32	-150.92	356.40
KB-3	204.79	204.79	NP	NP	NP	NP	169.79?	149.84	147.97	130.08	129.46	109.71	91.41	NP	89.44	NP	NP	55.89	--	--	--	176.00
KB-4	203.96	203.96	NP	NP	NP	NP	179.96?	152.96	151.52	150.06	149.40	127.41	107.91	NP	106.79	NP	NP	70.42	--	--	--	164.00
KB-5	208.50	208.50	NP	NP	NP	NP	190.50?	NP	NP	152.88	148.96	138.89	120.70	NP	115.55	NP	NP	78.93	--	--	--	165.75
KB-6	207.89	207.89	NP	NP	NP	NP	187.89?	NP	NP	NP	155.31	149.82	133.36	NP	129.23	NP	NP	96.32	--	--	--	142.00
KB-7	206.25	206.25	NP	NP	NP	NP	NP?	157.25?	NP	NP	NP	151.95?	NP	NP	NP	NP	NP	134.30	-118.93	-119.91	-120.41	327.80
KB-8	204.83	204.83	NP	NP	NP	NP	183.83?	149.69	147.56	123.43	122.44	102.83	84.26	NP	78.18	NP	NP	42.19	--	--	--	194.00
KB-9	205.20	205.20	108.69?	NP	NP	NP	104.25	NP	64.33	-26.13	-26.97	-46.80	-65.59	NP	-66.43	NP	NP	-88.38	--	--	--	319.00
KB-10	209.11	209.11	135.11?	NP	NP	NP	134.11	NP	81.11	-14.22	-14.81	-34.86	-54.19	NP	-56.07	NP	NP	-83.23	--	--	--	323.00
KB-11	206.70	206.70	184.70?	NP	NP	NP	177.70	NP	139.55	84.98	84.09	62.58	44.64	NP	44.06	NP	NP	4.00	--	--	--	233.00
KB-12	204.79	204.79	NP	NP	NP	NP	171.79?	150.08	147.90	145.15	144.29	122.86	104.59	NP	104.14	NP	NP	64.94	--	--	--	169.00
KB-13	201.48	201.48	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP	105.23	--	--	--	175.50
KB-14	203.95	203.95	NP	NP	NP	NP	178.95?	NP	144.21	63.73	67.11	49.34	27.10	NP	25.65	NP	NP	-15.90	--	--	--	231.00
KB-15	205.69	205.69	190.45?	NP	NP	NP	184.45	NP	144.52	65.72	64.99	44.13	26.99	NP	26.30	NP	NP	-13.96	--	--	--	220.50
KB-16	214.00	214.00	NP	45.14	14.98	13.93	0.85	NP	-24.91	-86.19	-86.80	-104.34	-112.22	NP	-113.05	NP	NP	-135.28	--	--	--	355.50
KB-17	217.00	217.00	NP	NP	NP	75.57	71.31	NP	31.07	-48.47	-49.08	-65.65	-90.85	NP	-99.60	NP	NP	-121.68	--	--	--	350.00
KB-18	220.00	220.00	115.14?	NP	NP	115.14?	110.27	NP	70.95	-17.32	-18.08	-38.87	-56.00	NP	-56.96	NP	NP	-91.00	--	--	--	320.00
KB-19	200.00	200.00	118.92?	NP	NP	118.92?	115.27	NP	77.45	-13.97	-15.04	-35.30	-54.58	NP	-57.56	NP	NP	-82.37	--	--	--	290.78
KB-20	200.00	200.00	79.91?	NP	NP	79.91?	72.90	NP	34.70	-50.65	-52.00	-71.48	-90.48	NP	-94.38	NP	NP	-112.72	--	--	--	324.92
KB-21	200.00	200.00	NP	NP	50.34	46.99	36.62	NP	-3.51	-76.12	-76.23	-97.57	-111.35	NP	-112.62	NP	NP	-132.59	--	--	--	337.11
PQ-1	206.25	206.25	170.34?	NP	NP	NP	166.66	NP	152.00	105.48	104.29	93.65	86.61	71.37	70.36	NP	NP	31.14	--	--	--	213.97
PQ-2	204.38	204.38	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	160.18	143.06	--	--	--	213.66
PQ-3	204.56	204.56	NP	NP	NP	NP	NP?	157.32?	NP	NP	NP	155.18?	NP	NP	NP	NP	147.61	135.98	--	--	--	214.88
PQ-4	209.44	209.44	151.04?	NP	NP	NP	147.44	NP	116.48	73.24	73.11	50.94	NP	32.20	19.86	NP	NP	4.01	--	--	--	224.03
PQ-5	204.65	204.65	NP	NP	NP	NP	182.40?	148.26	147.65	118.34	117.30	97.21	95.53	NP	94.92	--	--	--	--	--	--	142.95
PQ-6	206.30	206.30	179.78?	NP	NP	NP	174.47?	NP	144.88?	--	--	--	--	--	--	--	--	--	--	--	--	62.79
PQ-7	205.25	205.25	NP	NP	NP	NP	195.42?	148.56?	148.00?	--	--	--	--	--	--	--	--	--	--	--	--	59.74
PQ-8	205.83	205.83	NP	NP	NP	NP	202.63?	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35.36

Well Ref. No.	Elev.	Alluvium & Upper Clastics	Upper Salt				Middle Clastics	Middle Salt				Lower Clastics	Basal Salt									Total Depth
			up cap anhy	up up halite	up anhy	low up halite		mid cap anhy	up mid halite	mid anhy	low mid halite		col halite	Potash			basal cap anhy	basal halite	basal anhy	calc ss	Fe ss	
														up sylv	carn, halite & tachy	low sylv						
PQ-9	204.55	204.55	NP	NP	NP	NP	178.64?	149.79	149.05	118.45	117.53	97.31	76.53	NP	73.96	NP	NP	52.15	--	--	--	170.08
PQ-10	205.60	205.60	NP	NP	NP	NP	176.95?	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38.41
PQ-11	205.44	205.44	NP	NP	NP	NP	176.22?	148.49?	147.07?	--	--	--	--	--	--	--	--	--	--	--	--	65.84
RS-1.1	203.40	203.40	NP	NP	NP	NP	NP?	NP	147.93	104.92	104.09	90.02	84.99	83.31	81.28	NP	NP	55.47	-97.60	-98.50	-99.19	304.80
RS-1.2	202.79	202.79	152.96?	NP	NP	NP	147.62	NP	106.78	12.37	11.68	-9.05	-23.60	NP	-24.54	NP	NP	-51.78	-151.01	-152.38	-152.64	356.01
RS-1.3	202.18	202.18	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	169.18	142.52	-126.27	-127.44	-128.65	332.23
RS-1.4	207.22	207.22	NP	NP	91.4	87.31	74.10	NP	30.59	-24.28	-24.58	-35.17	-47.64	NP	-48.41	NP	NP	-61.61	-113.12	-114.52	-114.83	323.39
RS-1.5	205.25	205.25	168.98?	NP	NP	NP	163.95	NP	129.35	42.13	41.45	21.63	4.49	NP	-3.69	NP	NP	-33.31	-133.08	-134.30	-134.78	341.38
RS-1.6	203.10	203.10	NP	NP	NP	NP	NP?	158.17?	NP	NP	NP	156.28?	NP	NP	NP	NP	151.22	144.61	-79.17	-80.73	-81.09	288.04
RS-2.0	206.25	206.25	170.59?	NP	NP	NP	166.85	152.66	152.61	106.89	104.85	89.64	87.02	71.12	70.12	NP	NP	30.76	--	--	--	231.46
RS-2.1	205.26	205.26	174.29?	NP	NP	NP	170.67	NP	133.48	50.83	50.22	30.73	15.22	NP	14.46	--	--	--	--	--	--	198.42
RS-2.2	202.26	202.26	NP	NP	NP	NP	NP?	161.09?	NP	NP	NP	159.66?	NP	NP	NP	NP	141.86	138.25	-143.31	-144.45	-144.68	349.00
RS-2.3	207.90	207.90	NP	NP	NP	NP	175.90?	141.38	139.63	105.18	104.34	83.64	63.53	NP	59.21	NP	NP	50.93	-10.06	-11.05	-11.41	222.20
RS-2.4	209.05	209.05	162.11?	NP	NP	NP	161.20	138.49	137.42	123.71	123.50	105.88	88.10	87.31	NP	NP	NP	82.20	25.13	23.85	23.30	186.84
RS-2.5	205.45	205.45	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	143.63	138.27	--	--	--	222.50
RS-2.6	207.35	207.35	NP	NP	NP	NP	171.56?	142.15	141.21	108.47	107.81	90.31	71.94	NP	69.83	60.66	NP	60.44	-13.38	-14.29	-14.62	222.50
RS-2.7	205.37	205.37	NP	NP	NP	NP	180.37?	148.37	147.00	117.83	117.16	96.63	91.35	NP	91.07	NP	NP	58.15	--	--	--	228.60
RS-2.8	207.35	207.35	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	140.72	118.65	23.83	22.76	22.39	186.23
RS-2.9	204.00	204.00	NP	NP	NP	NP	NP?	NP	NP	NP	NP	NP?	NP	NP	NP	NP	148.07	119.32	--	--	--	184.71
RS-2.10	209.12	209.12	NP	NP	NP	NP	161.57?	150.60?	NP	NP	NP	139.83?	NP	NP	NP	NP	134.14	121.03	32.31	31.15	30.74	178.61
RS-2.11	206.96	206.96	155.14?	NP	NP	NP	151.11	NP	NP	135.52	134.91	106.15	97.64	NP	95.86	NP	NP	86.44	--	--	--	137.16
RS-2.12	208.67	208.67	NP	NP	NP	NP	173.62?	136.77	136.53	81.08	80.23	61.45	47.07	NP	44.38	38.53	NP	38.39	--	--	--	184.40
RS-2.13	206.11	206.11	NP	NP	NP	NP	NP?	174.11?	NP	NP	[illegible]	169.28?	NP	NP	NP	NP	154.19	150.43	-79.18	-81.04	-81.11	288.04
RS-2.14	220.00	220.00	184.03?	NP	NP	NP	182.21?	152.03?	NP	NP	[illegible]	148.58?	NP	NP	NP	NP	133.10	132.95	95.57	94.61	94.15	126.49
RS-2.15	202.60	202.60	NP	NP	NP	NP	NP?	144.79?	NP	NP	[illegible]	139.81?	NP	NP	NP	NP	NP	121.91	-35.57	-37.09	-38.19	242.32
RS-2.16	202.00	202.00	NP	NP	NP	NP	NP?	NP	NP	NP	[illegible]	NP?	NP	NP	NP	NP	116.90	115.10	-180.12	-181.32	-181.54	385.57
RS-2.17	220.00	220.00	NP	-100.65	-120.67	-121.56	-126.05	NP	-135.02	-168.32	87	-183.53	-199.13	NP	-201.08	NP	NP	-209.16	-240.43	-241.80	-241.92	464.22
RS-2.18	205.14	205.14	136.14?	NP	NP	NP	132.82	NP	96.36	20.14	14	4.80	-7.56	NP	-9.29	NP	NP	-13.63	-35.29	-36.06	-36.26	242.00
RS-2.19	206.74	206.74	NP	NP	NP	NP	188.74?	143.74	142.74	94.74	72	76.41	59.86	NP	58.16	NP	NP	53.67	--	--	--	245.50
RS-2.20	204.96	204.96	NP	NP	NP	NP	NP?	NP	NP	NP	[illegible]	NP?	NP	NP	NP	NP	131.16	129.86	-11.65	-12.74	-13.14	218.35
RS-2.21	204.34	204.34	NP	NP	NP	NP	NP?	NP	NP	NP	[illegible]	NP?	NP	NP	NP	NP	146.34	135.62	-54.36	-55.31	-55.86	260.90
RS-2.22	210.00	210.00	NP	NP	NP	NP	NP?	141.00	137.45	132.14	7	112.05	92.84	NP	90.95	NP	NP	82.07	--	--	--	149.00
RS-2.23	210.00	210.00	NP	NP	NP	NP	NP?	146.60	145.60	104.93	[illegible]	82.95	64.27	NP	63.25	NP	NP	28.20	--	--	--	266.00

Appendix 1-C Analytical data of some water soluble components of some representative samples of the major zones in the lithostratigraphic sequences of the studey area.

Sample No.	Well Ref. No. & Depth from Ground Surface (m)	Position in the Lithostragraphic Sequences	Soluble Components (wt.%)	Some Soluble Alkaline Oxides (wt.%)			
				Na_2O	K_2O	CaO	MgO
1-UCM	KB-21 (137.19-137.22)	Upper Clastics Member	12.54	0.56	0.21	0.85	0.47
2-UCM	KB-21 (143.27-143.42)		17.58	0.21	0.23	1.35	0.42
3-UCM	KB-21 (148.02-148.17)		10.18	0.44	0.28	2.20	0.20
4-UCA	KB-21 (149.69-149.85)	Upper Cap Anhydrite Bed	72.60	0.33	trace	0.30	0.01
5-UCA	KB-21 (151.80-151.96)		72.08	0.22	trace	0.27	0.02
6-UCA	KB-21 (152.77-152.90)		73.32	0.21	trace	0.45	trace
7-UH	KB-21 (153.05-153.20)	Upper Halite Bed	98.48	20.00	0.04	5.40	0.01
8-UH	KB-21 (158.23-158.38)		98.58	19.00	0.05	5.35	0.02
9-UH	KB-21 (163.26-163.41)		98.64	16.25	0.03	5.25	trace
10-MCM	KB-21 (170.35-170.50)	Middle Clastics Member	23.08	2.05	0.30	1.25	0.09
11-MCM	KB-21 (187.04-187.19)		12.64	0.55	0.40	2.20	0.06
12-MCM	KB-21 (203.35-203.51)		11.32	0.73	0.41	1.75	0.06
13-MCA	KB-8 (55.14-55.29)	Middle Cap Anhydrite Bed	79.22	0.60	trace	5.75	0.01
14-MCA	KB-8 (56.00-56.10)		76.14	0.68	trace	5.70	trace
15-MCA	KB-8 (57.15-57.27)		76.10	0.59	trace	5.65	trace

Appendix 1-C (continued)

Sample No.	Well Ref. No. & Depth from Ground Surface (m)	Position in the Lithostragraphic Sequences	Soluble Components (wt.%)	Some Soluble Alkaline Oxides (wt.%)			
				Na_2O	K_2O	CaO	MgO
16-UMH	KB-2 (56.06-56.10)	Upper Middle Halite Bed	99.66	32.50	0.02	1.40	0.02
17-UMH	KB-2 (83.55-83.90)		99.52	34.50	0.02	0.85	trace
18-UMH	KB-2 (85.63-89.67)		99.60	36.25	0.01	0.45	trace
19-MA	KB-2 (100.67-100.70)	Middle Anhydrite Bed	87.60	7.13	0.01	5.50	0.01
20-MA	KB-2 (100.88-100.92)		79.54	0.36	trace	5.65	trace
21-MA	KB-2 (100.93-100.98)		71.74	0.44	trace	5.05	0.02
22-LMH	KB-2 (101.17-101.19)	Lower Middle Halite Bed	99.54	35.75	0.03	0.50	0.01
23-LMH	KB-2 (103.71-103.74)		99.62	34.00	1.50	0.28	0.48
24-LMH	KB-2 (121.11-121.13)		99.74	36.00	0.01	0.30	0.01
25-LCM	KB-2 (123.76-123.80)	Lower Clastics Member	11.32	0.21	0.24	1.55	0.26
26-LCM	KB-2 (130.05-130.10)		15.12	0.14	0.33	3.50	0.54
27-LCM	KB-2 (139.67-139.71)		32.32	4.00	0.80	2.75	0.58
28-BC	RS-2.21 (66.00-66.13)	Basal Cap Anhydrite Bed	69.58	0.29	trace	5.60	trace
29-BC	RS-2.21 (66.97-67.07)		70.12	0.39	trace	5.50	trace
30-BC	RS-2.21 (68.11-68.17)		69.32	0.73	trace	5.30	trace

Appendix 1-C (continued)

Sample No.	Well Ref. No. & Depth from Ground Surface (m)	Position in the Lithostragraphic Sequences	Soluble Components (wt.%)	Some Soluble Alkaline Oxides (wt.%)			
				Na_2O	K_2O	CaO	MgO
31-CH	KB-2 (140.50-140.54)	Coloured Halite Bed	98.76	36.00	0.04	0.21	0.04
32-CH	KB-2 (140.95-141.02)	Coloured Halite Bed	96.60	34.50	0.04	0.32	0.05
33-PB	KB-2 (142.11-142.12)	Potash Bed	86.26	38.50	0.14	2.75	0.31
34-PB	KB-2 (148.05-148.08)	Potash Bed	99.48	9.69	5.63	4.75	8.25
35-PB	KB-2 (155.06-155.23)	Potash Bed	99.34	0.60	0.60	25.00	14.50
36-PB	KB-2 (166.41-166.44)	Potash Bed	96.66	20.00	2.25	2.75	0.56
37-PB	KB-2 (166.50-166.53)	Potash Bed	96.46	6.00	6.98	5.15	14.25
38-PB	KB-2 (171.46-171.49)	Potash Bed	99.34	8.44	14.50	0.37	14.50
39-PB	KB-2 (179.71-179.73)	Potash Bed	99.62	2.03	16.25	trace	15.00
40-PB	KB-2 (179.88-179.89)	Potash Bed	99.54	21.00	0.38	0.63	0.17
41-PB	KB-2 (180.00-180.02)	Potash Bed	99.58	16.50	3.25	0.08	2.00
42-BH	KB-2 (182.63-182.65)	Basal Halite Bed	99.50	23.80	0.12	0.50	0.01
43-BH	KB-2 (204.04-204.08)	Basal Halite Bed	99.42	17.00	0.01	1.13	0.01
44-BH	KB-2 (286.63-286.64)	Basal Halite Bed	99.74	16.25	trace	0.18	0.04
45-BH	KB-2 (323.68-323.70)	Basal Halite Bed	99.52	23.50	trace	0.12	trace
46-BH	KB-2 (353.32-353.34)	Basal Halite Bed	99.64	29.00	trace	0.05	trace

Appendix 1-C (continued)

Sample No.	Well Ref. No. & Depth from Ground Surface (m)	Position in the Lithostragraphic Sequences	Soluble Components (wt.%)	Some Soluble Alkaline Oxides (wt.%)			
				Na_2O	K_2O	CaO	MgO
47-BA	KB-2 (353.35-353.38)	Basal Anhydrite Bed	57.90	0.71	trace	4.75	trace
48-BA	KB-2 (353.98-354.02)		58.32	0.04	trace	5.05	trace
49-BA	KB-2 (354.27-354.31)		57.54	0.04	trace	4.90	trace
50-BA	KB-2 (354.32-354.33)		53.32	0.06	0.01	4.70	trace
51-CS	KB-2 (354.33-354.37)	Calcareous Sandstone Bed	3.50	0.09	0.03	0.50	0.02

Appendix 1-D X-ray diffractogrammes of some representative samples of the major zones in lithostratigraphic sequences of the study area.

Operation conditions of x-ray diffractometer :

CuKα radiation

kV	40	Chartdrive	1 centimeter/minute
mA	30	Degree 2θ per minute	1^{o}
Range	$1x10^{3}$	Lower level	1
Gain	32	Window	5
HV	5	Time constant	1

EXPLANATION

Al, albite; An, anhydrite; Cal, calcite; Car, carbon; C, carnallite; Ch, chlorite; G, gypsum, Ha, halite, He, hematite; I, illite; K, kaolinite; Q, quartz; S, sylvite; T, tachyhydrite.

Appendix 1-D-1 : Ferrugenous Sandstone Bed (sample from KB-2, 355.12-355.17 m.).

Appendix 1-D-2 : Contact between Ferrugneous Sandstone Bed and Calcareous Sandstone Bed (sample from KB-2, 354.89-354.93 m.).

Appendix 1-D-3 : Calcareous Sandstone Bed (sample from KB-2, 354.41-354.45 m.).

Appendix 1-D-4 : Calcareous Sandstone Bed (sample no. 51-CS from KB-2, 142.11-142.12 m.).

Appendix 1-D-5 : Contact between Calcareous Sandstone Bed and Basal Anhydrite Bed (sample no. 50-BA from KB-2, 345.32-354.33 m.).

Appendix 1-D-6 : The lower part of Basal Anhydrite Bed (sample no. 49 from KB-2, 354.27-354.31 m.).

Appendix 1-D-7 : The middle part of Basal Anhydrite Bed (sample no. 48-BA from KB-2, 353.98-354.02 m.)

Appendix 1-D-8 : The uppermost part of Basal Anhydrite Bed (sample no. 47-BA from KB-2, 353.35-353.38 m.).

Appendix 1-D-9 : Basal Halite Bed (sample no. 46-BH from KB-2, 353.32-353.34 m.).

Appendix 1-D-10 : The anhydrite layer in Basal Halite Bed (sample from KB-2, 204.01-204.04 m.).

Appendix 1-D-11 : The deep orange-red layer in the lower part of Potash Bed (sample no. 39-PB from KB-2, 179.71-179.73 m.).

Appendix 1-D-12 : The lower part of Potash Bed (sample no. 38-PB from KB-2, 171.46-171.49 m.).

Appendix 1-D-13 : The white-grey large grain in Potash Bed (sample no. 36-PB from KB-2, 166.41-166.44 m.).

Appendix 1-D-14 : The middle part of Potash Bed (sample no. 35-PB from KB-2, 155.06-155.23 m.).

Appendix 1-D-15 : The upper part of Potash Bed (sample no. 34-PB from KB-2, 148.05-148.08 m.).

Appendix 1-D-16 : The deep orange-red layer in the uppermost part of Potash Bed (sample from KB-2, 142.33-142.34 m.).

Appendix 1-D-17 : The darker layer in the uppermost part of Potash Bed (sample no. 33-PB from KB-2, 142.11-142.12 m.).

Appendix 1-D-18 : Basal Cap Anhydrite Bed (sample no. 28-BC from RS-2.21, 66.00-66.13 m.).

Appendix 1-D-19 : The lower part of Lower Clastics Member (sample no. 27-LCM from KB-2, 139.67-139.71 m.).

Appendix 1-D-20 : The upper part of Lower Clastics Member (sample no. 25-LCM from KB-2, 123.76-123.80 m.).

Appendix 1-D-21 : Lower Middle Halite Bed (sample no. 24-LMH from KB-2, 121.11-121.13 m.).

Appendix 1-D-22 : The orange-red layer in Lower Middle Halite Bed (sample no. 23-LMH from KB-2, 103.71-103.74 m.).

Appendix 1-D-23 : Middle Anhydrite Bed (sample no. 21-MA from KB-2, 100.96-100.98 m.).

Appendix 1-D-24 : The anhydrite layer in Upper Middle Halite Bed (sample from KB-2, 56.02-56.05 m.).

Appendix 1-D-25 : Middle Cap Anhydrite Bed (sample no. 15-MCA from KB-8, 57.15-57.27 m.).

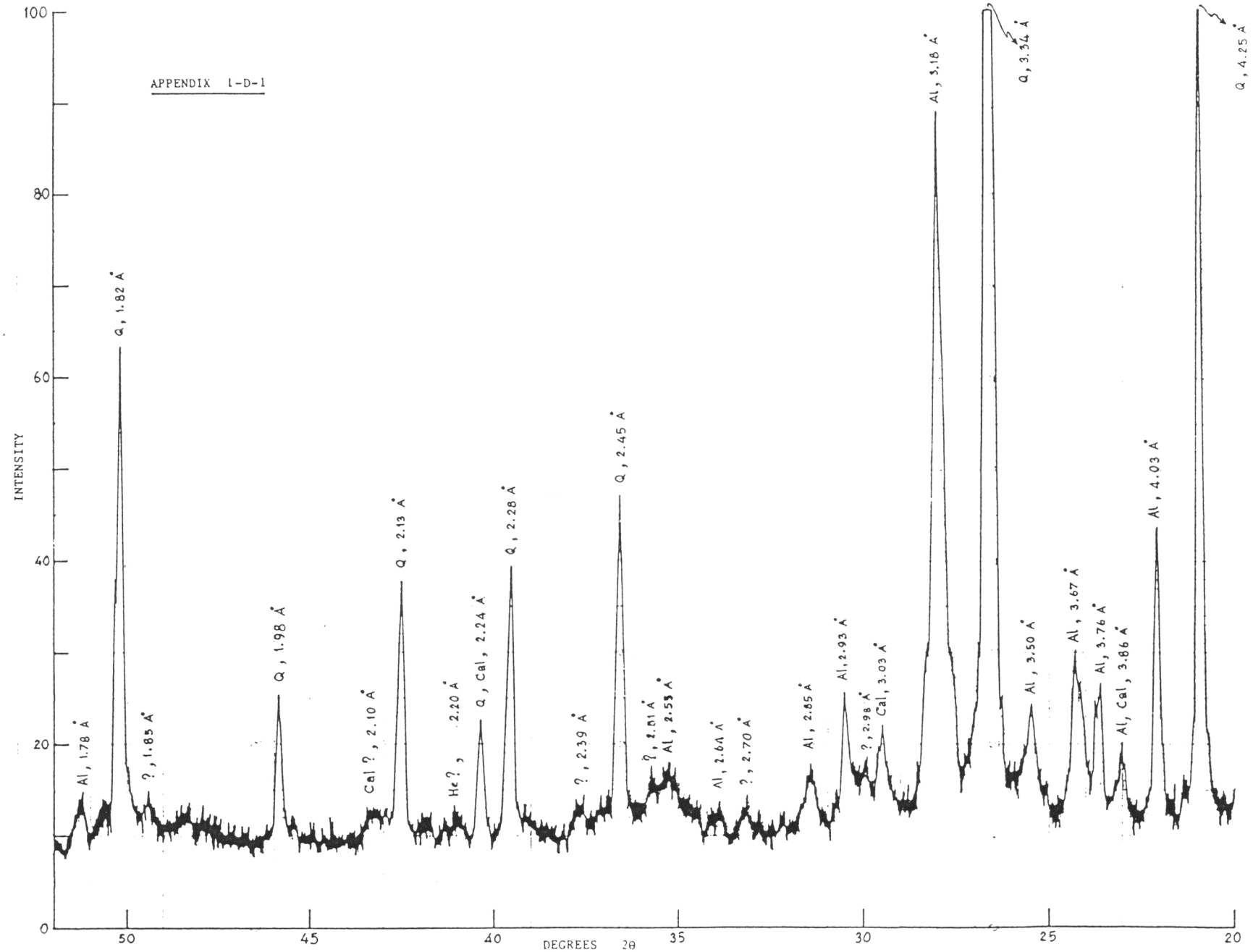
Appendix 1-D-26 : The lower part of Middle Clastics Member (sample no. 12-MCM from KB-21, 203.35-203.51 m.).

Appendix 1-D-27 : The upper part of Middle Clastics Member (sample no. 10-MCM from KB-21, 170.35-170.50 m.).

Appendix 1-D-28 : Upper Halite Bed (sample no. 7-UH from KB-21, 153.05-153.20 m.).

Appendix 1-D-29 : Upper Cap Anhydrite Bed (sample no. 6-UCA from KB-21, 152.77-152.90 m.).

Appendix 1-D-30 : Upper Clastics Member (sample no. 2-UCM from KB-21, 143.27-143.42 m.).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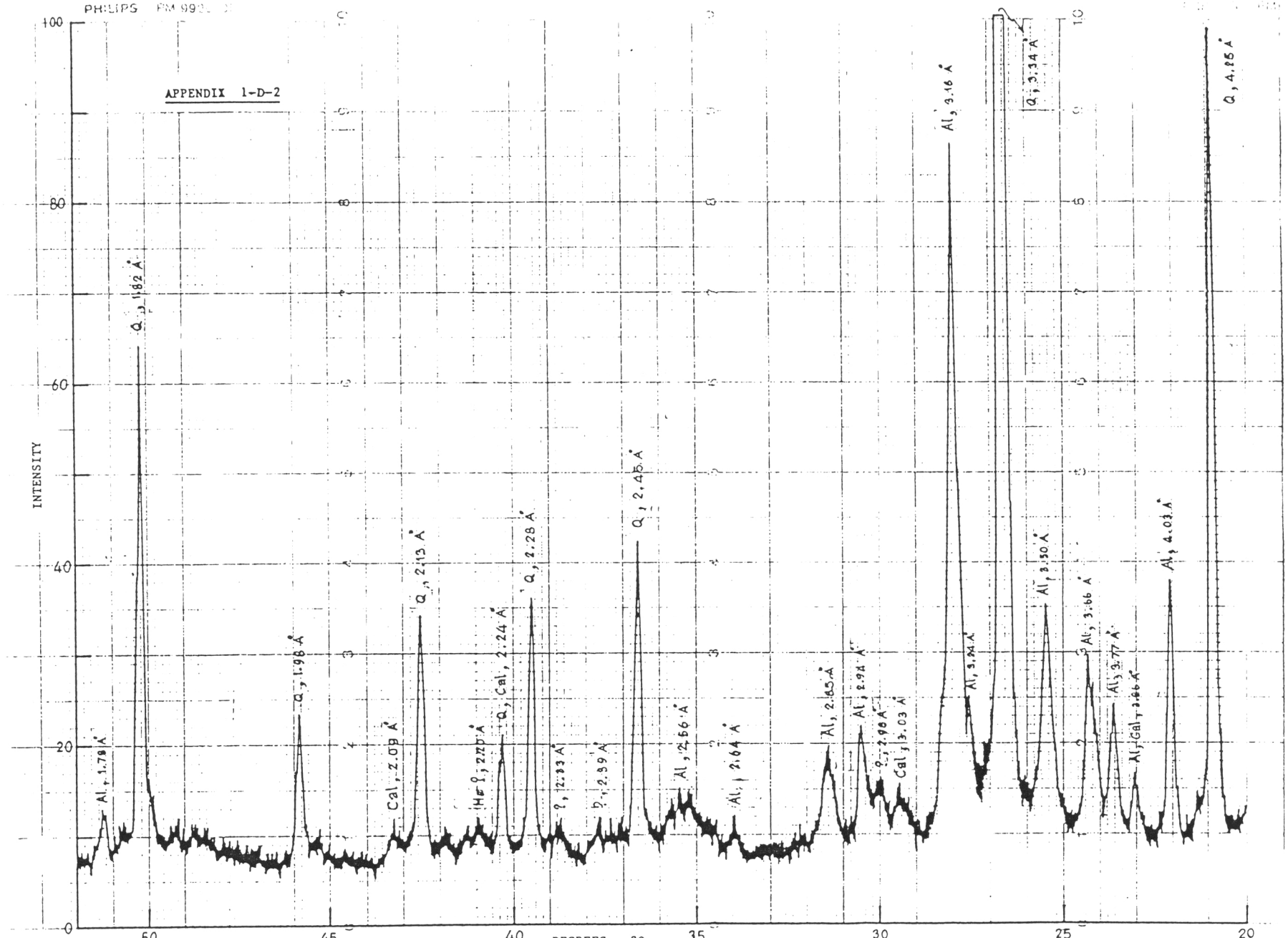
DEGREES 2θ
Al, 1.78 Å
Q, 1.82 Å
?, 1.85 Å
Q, 1.98 Å
Cal ?, 2.10 Å
Q, 2.13 Å
He ?, 2.20 Å
Q, Cal, 2.24 Å
Q, 2.28 Å
?, 2.39 Å
Q, 2.45 Å
?, 2.51 Å
Al, 2.55 Å
Al, 2.64 Å
?, 2.70 Å
Al, 2.85 Å
Al, 2.93 Å
?, 2.98 Å
Cal, 3.03 Å
Al, 3.18 Å
Q, 3.34 Å
Al, 3.50 Å
Al, 3.67 Å
Al, 3.76 Å
Al, Cal, 3.86 Å
Al, 4.03 Å
Q, 4.25 Å


PHILIPS PW 9920
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DEGREES 2θ
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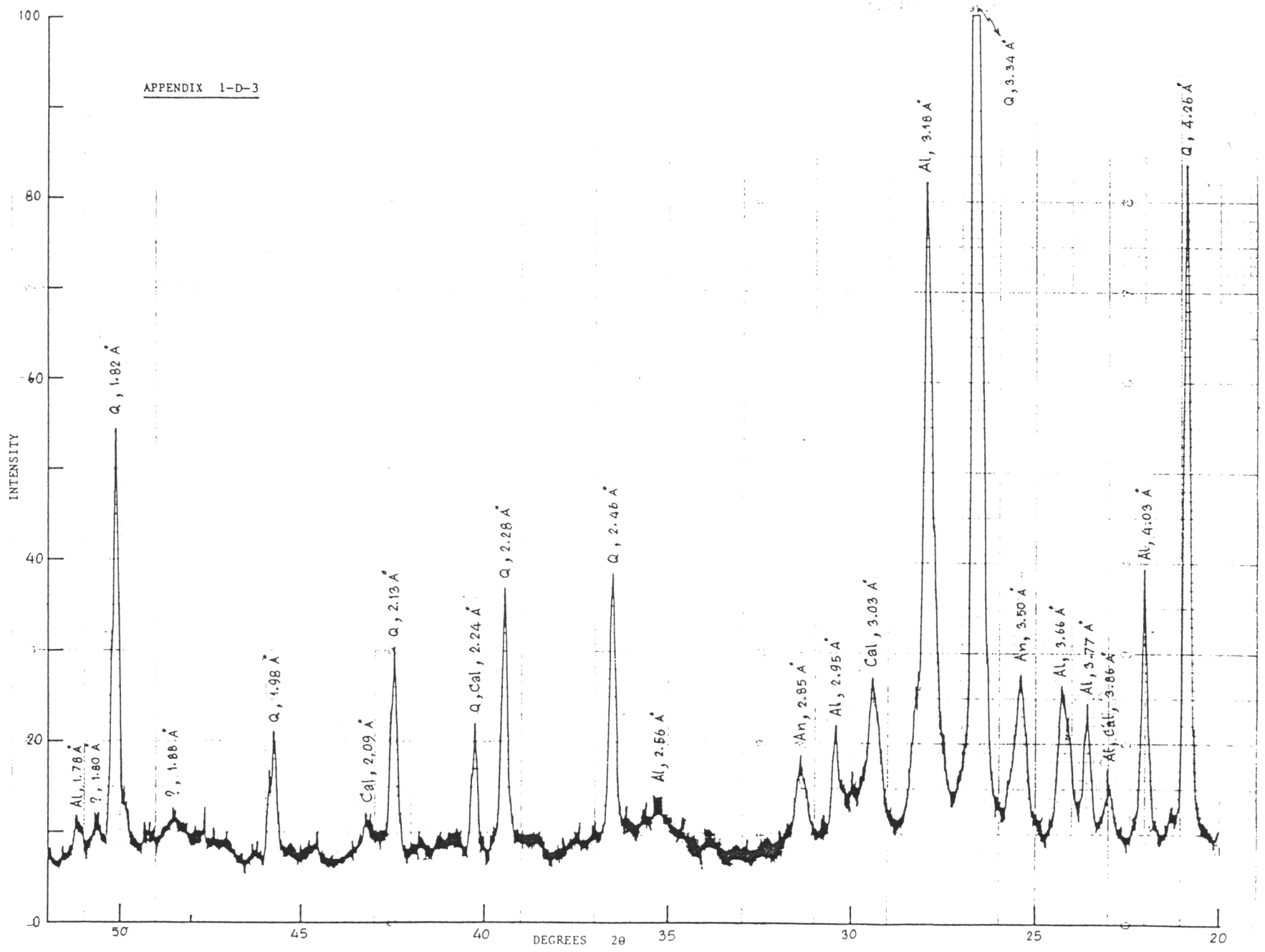
Q, 1.82 Å
Q, 1.98 Å
Cal, 2.09 Å
Q, 2.13 Å
Hcf ?, 2.22 Å
Q, Cal, 2.24 Å
Q, 2.28 Å
?, 12.33 Å
?, 2.39 Å
Q, 2.45 Å
Al, 2.66 Å
Al, 2.64 Å
Al, 2.65 Å
Al, 2.92 Å
?, 2.98 Å
Cal, 3.03 Å
Al, 3.16 Å
Al, 3.24 Å
Q, 3.34 Å
Al, 3.50 Å
Al, 3.66 Å
Al, 3.77 Å
Al, Cal, 3.86 Å
Al, 4.03 Å
Q, 4.25 Å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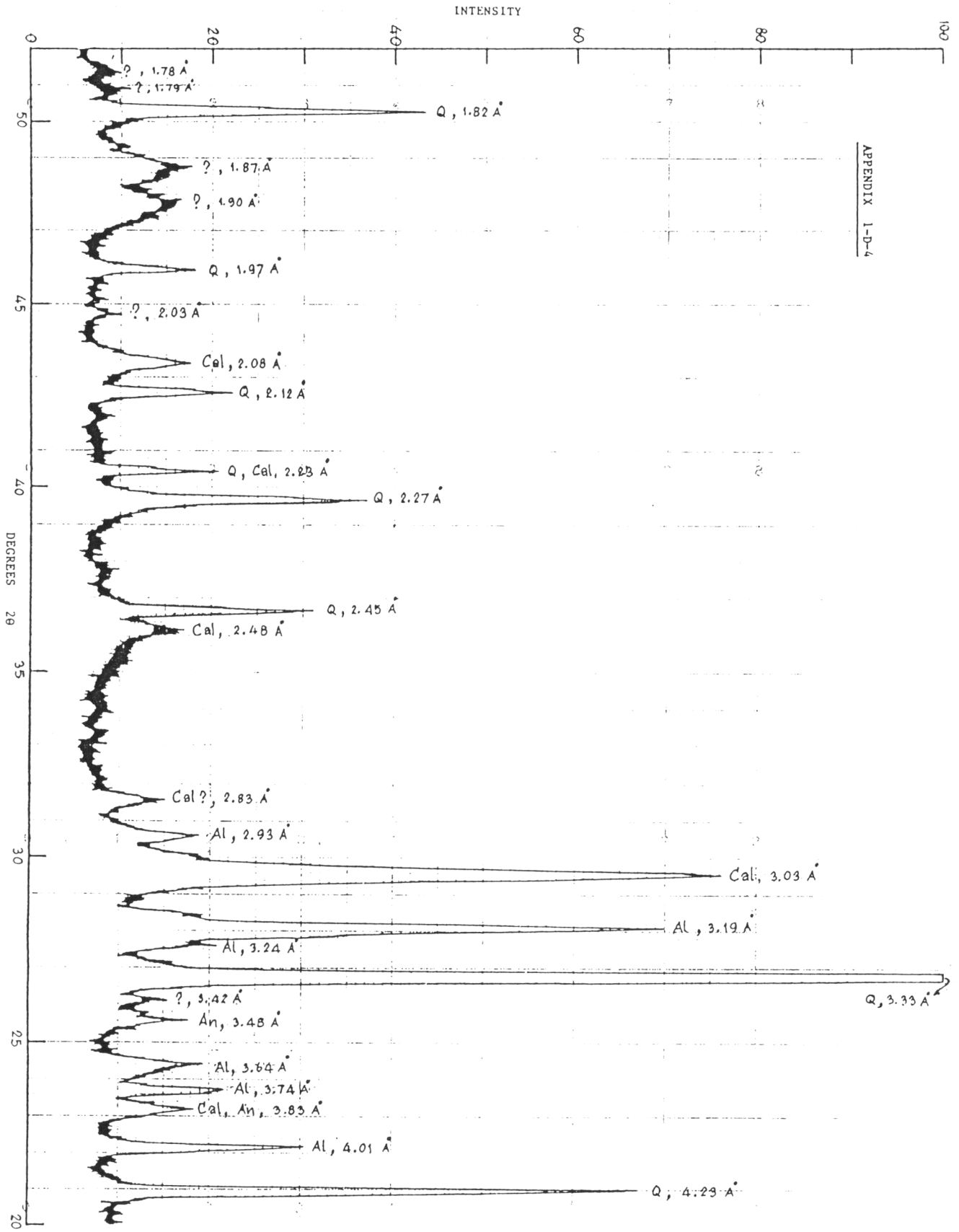
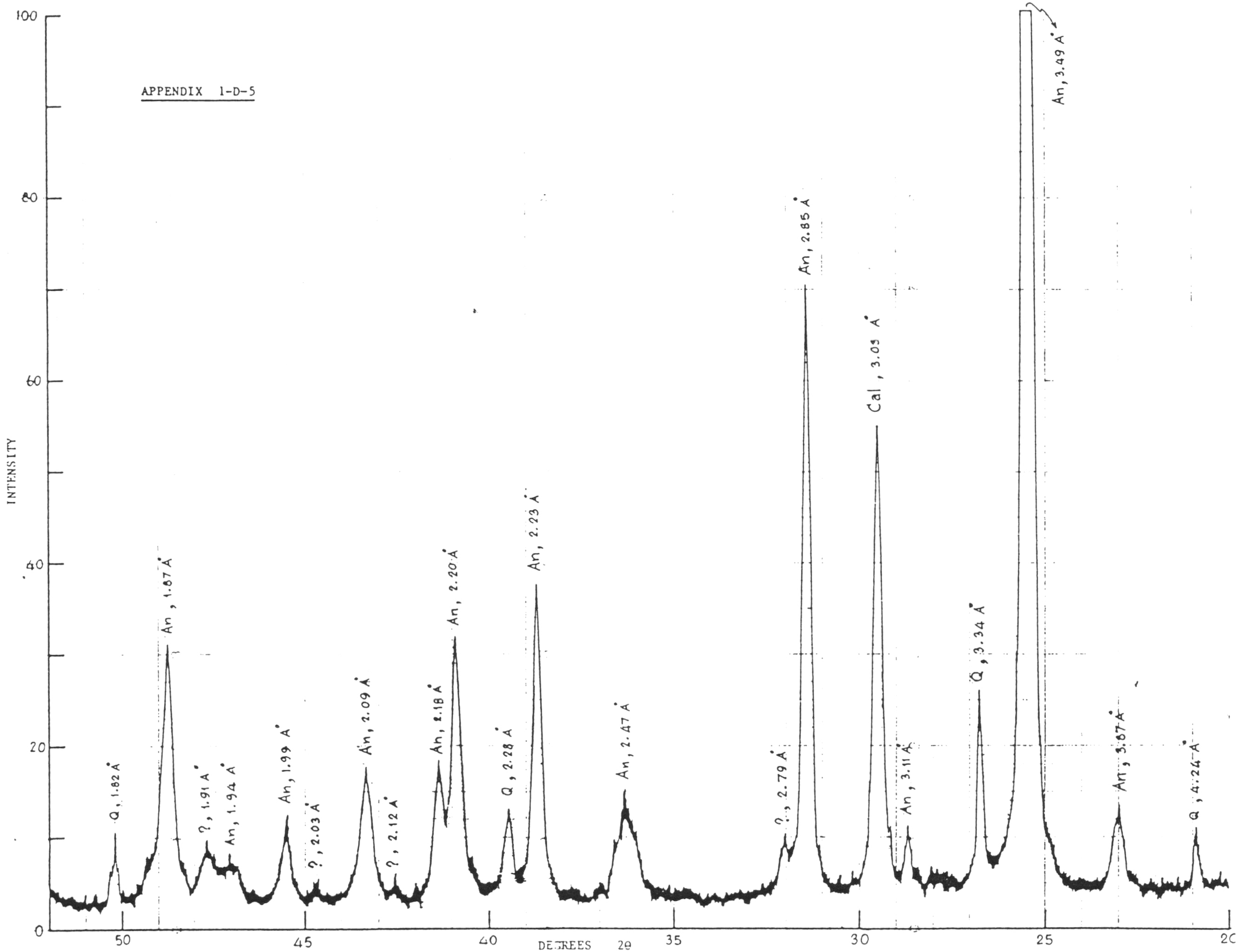
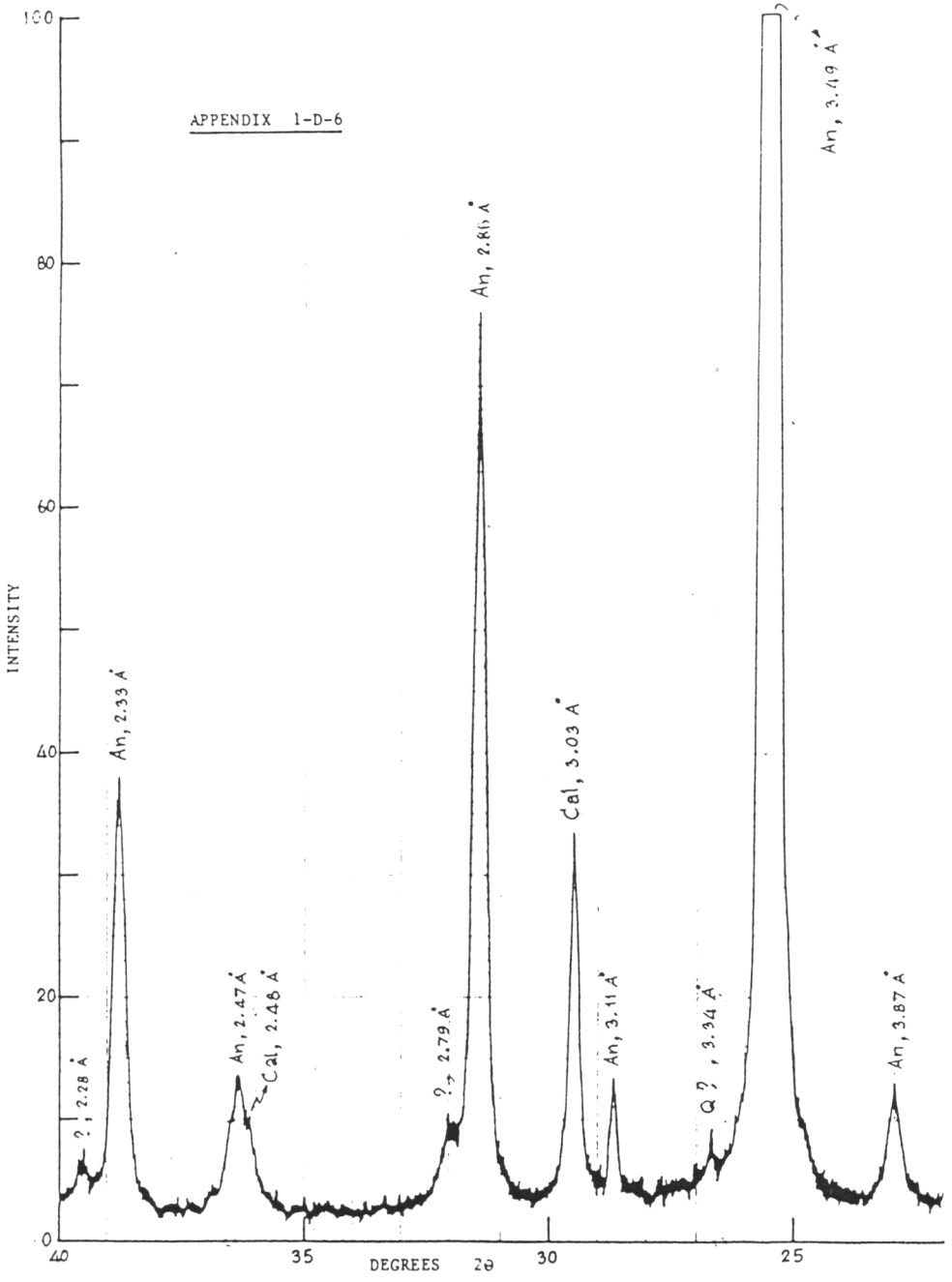
INTENSITY
DEGREES 2θ
100
80
60
40
20
0
50
45
40
35
30
25
20
Al, 1.78 Å
?, 1.80 Å
Q, 1.82 Å
?, 1.88 Å
Q, 1.98 Å
Cal, 2.09 Å
Q, 2.13 Å
Q, Cal, 2.24 Å
Q, 2.28 Å
Q, 2.46 Å
Al, 2.56 Å
An, 2.85 Å
Al, 2.95 Å
Cal, 3.03 Å
Al, 3.18 Å
Q, 3.34 Å
An, 3.50 Å
Al, 3.66 Å
Al, 3.77 Å
Af, Cal, 3.86 Å
Al, 4.03 Å
Q, 4.26 Å

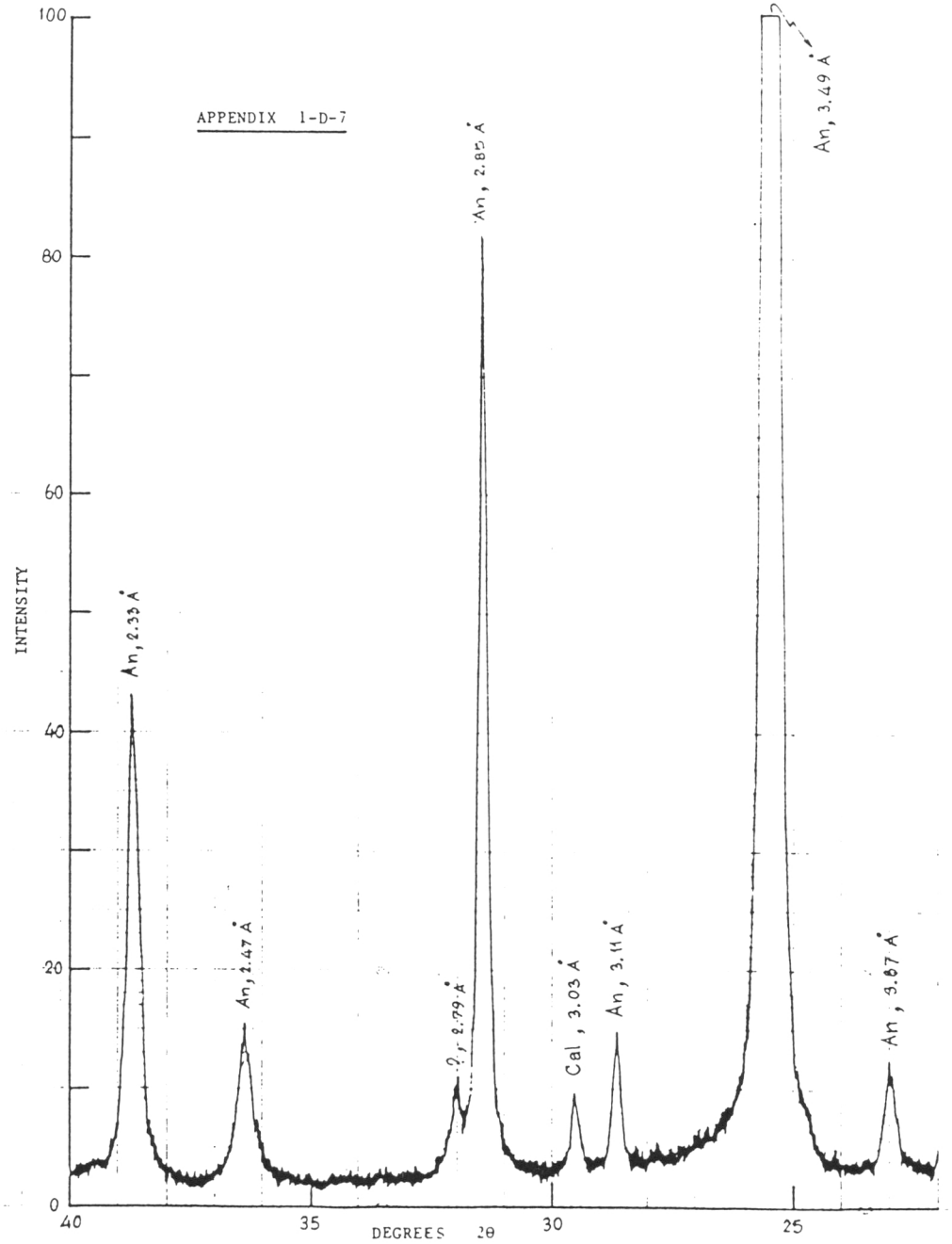


APPENDIX I-D-4

APPENDIX 1-D-5




APPENDIX 1-D-6
INTENSITY
100
80
60
40
20
0
40
35
30
25
DEGREES 2θ
?, 2.28 Å
An, 2.33 Å
An, 2.47 Å
Cal, 2.48 Å
?, 2.79 Å
An, 2.86 Å
Cal, 3.03 Å
An, 3.11 Å
Q ?, 3.34 Å
An, 3.49 Å
An, 3.87 Å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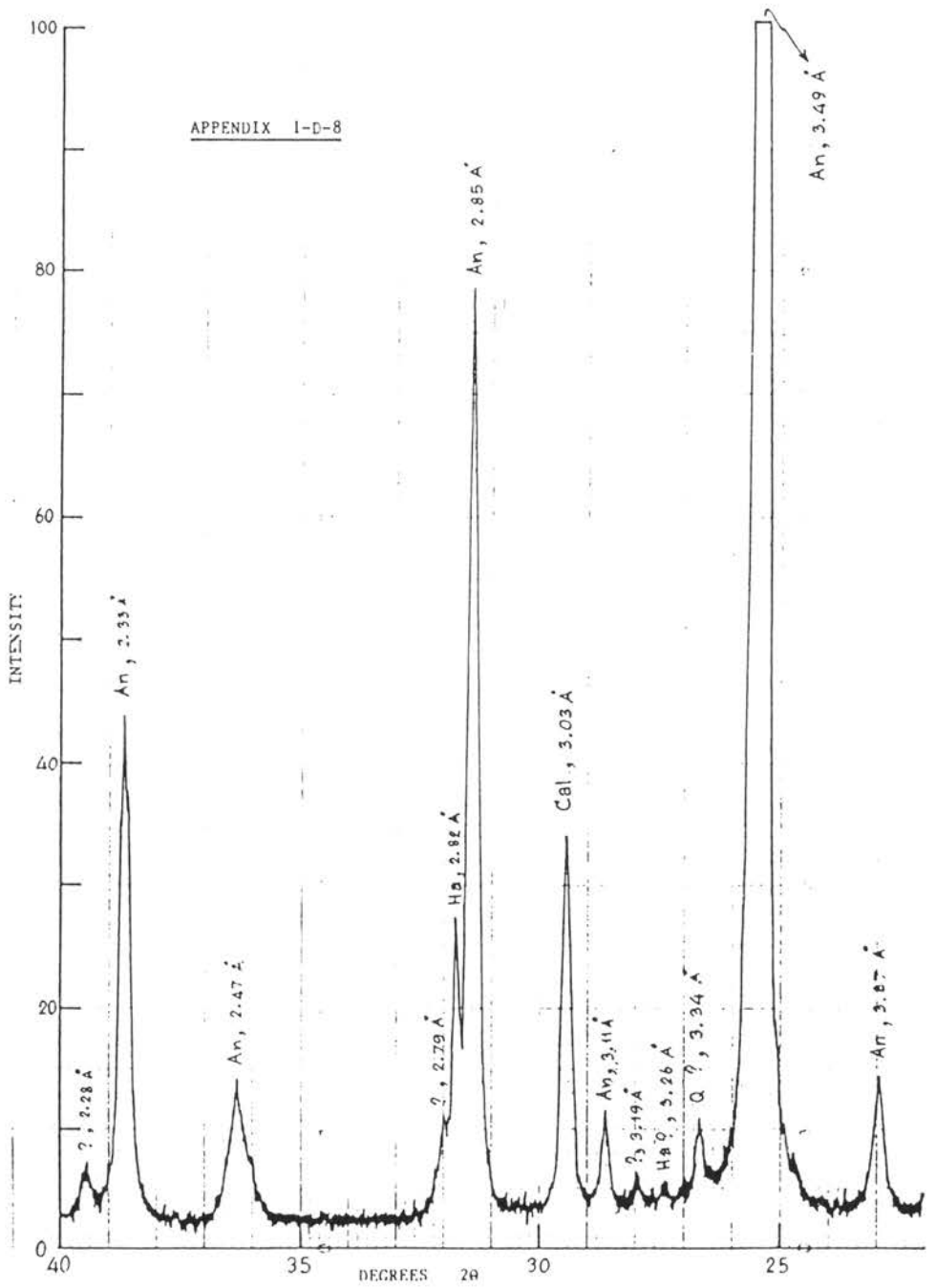
INTENSITY
100
80
60
40
20
0
40
35
30
25
DEGREES 2θ
An, 2.33 Å
An, 2.47 Å
?, 2.79 Å
An, 2.85 Å
Cal, 3.03 Å
An, 3.11 Å
An, 3.49 Å
An, 3.87 Å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INTENSITY
100
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60
40
20
0
40
35
30
25
DEGREES 2θ
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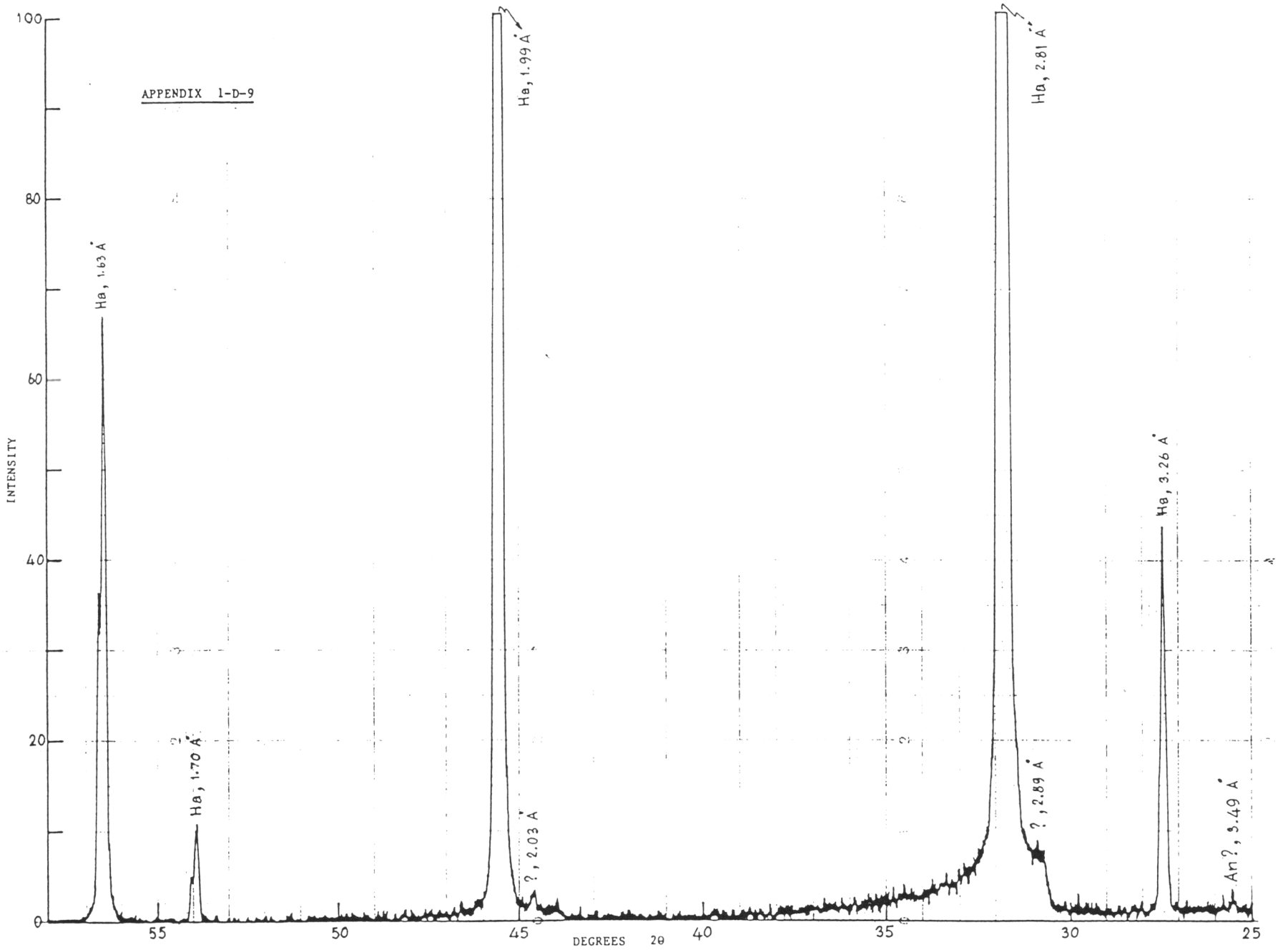
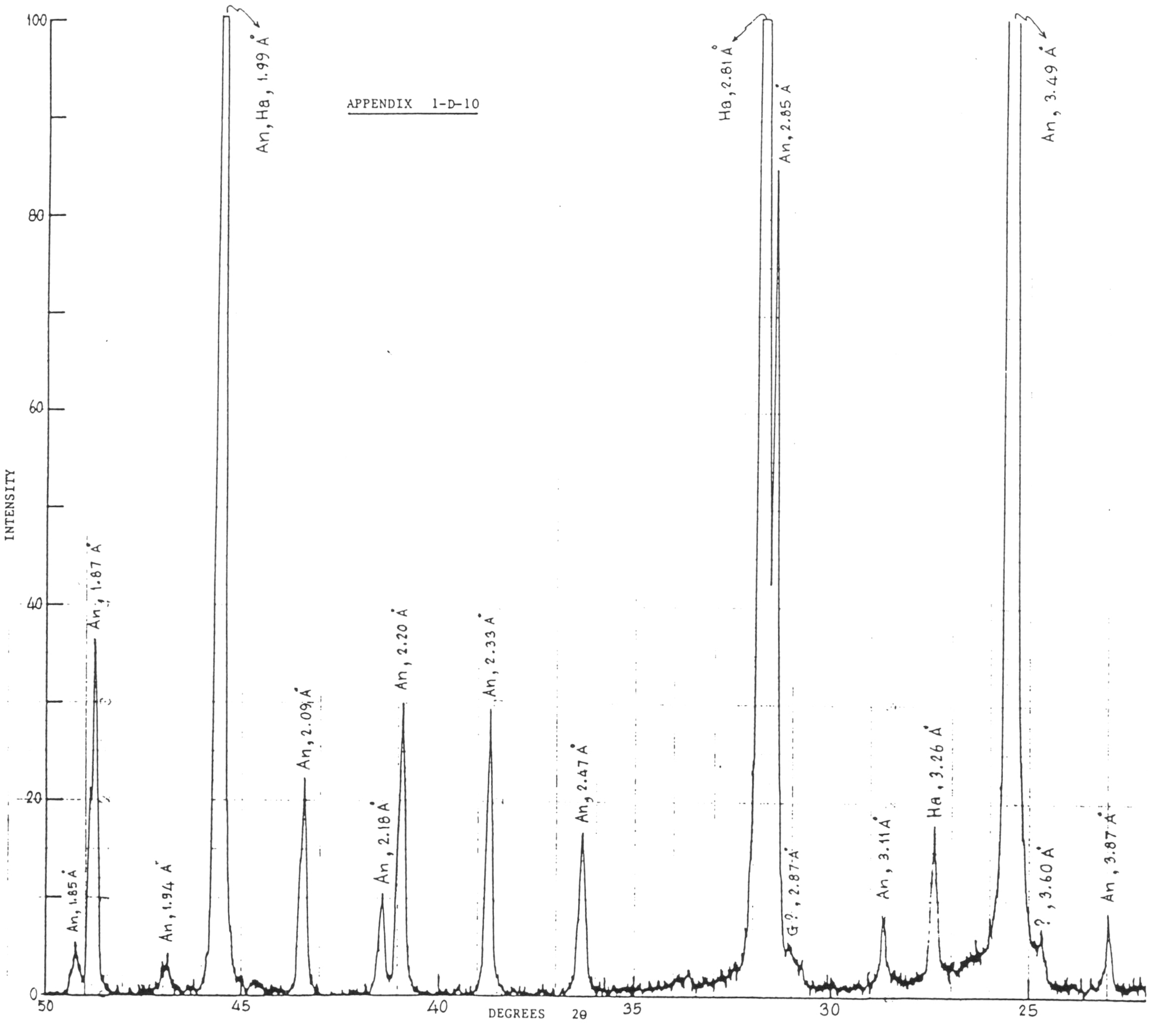
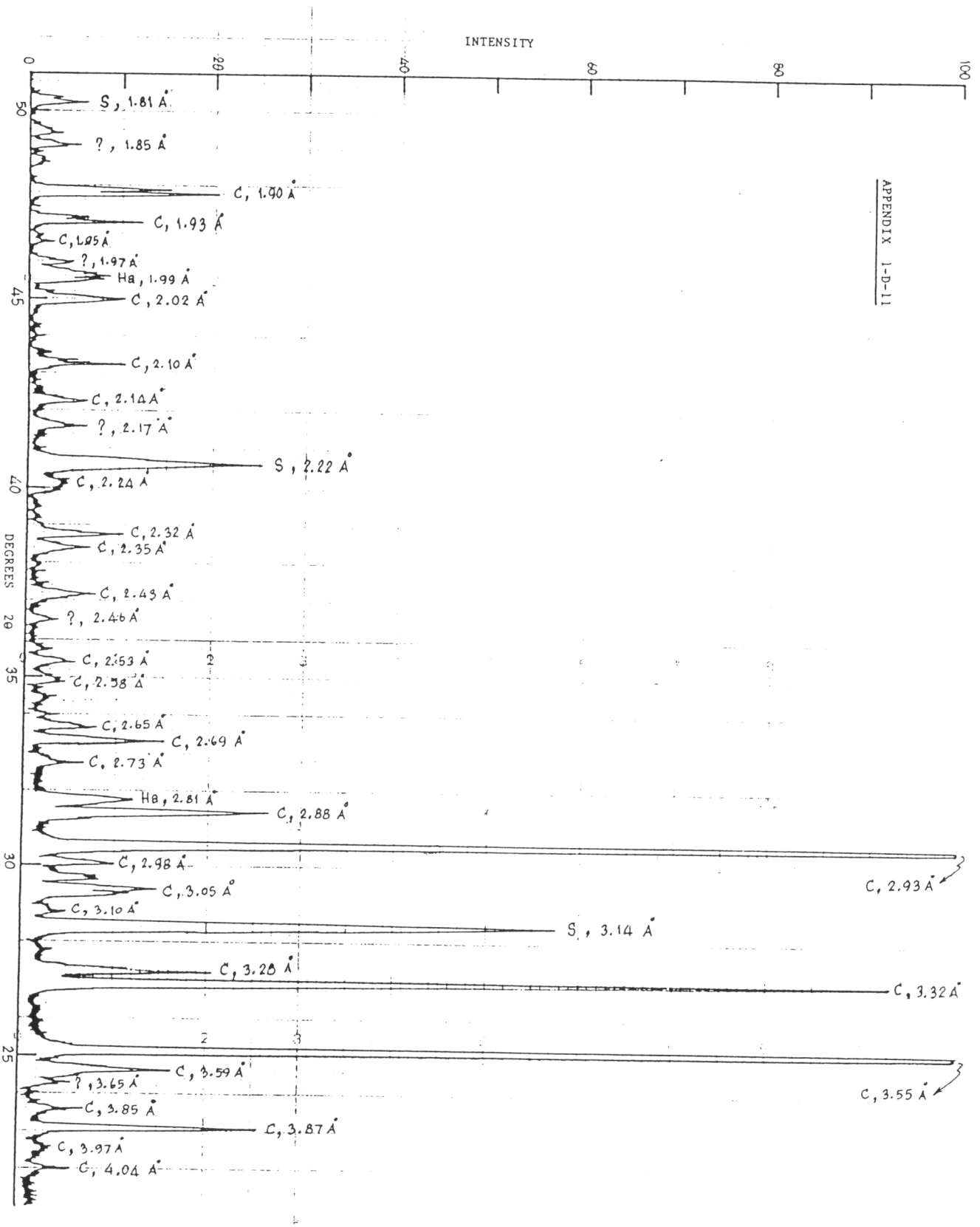
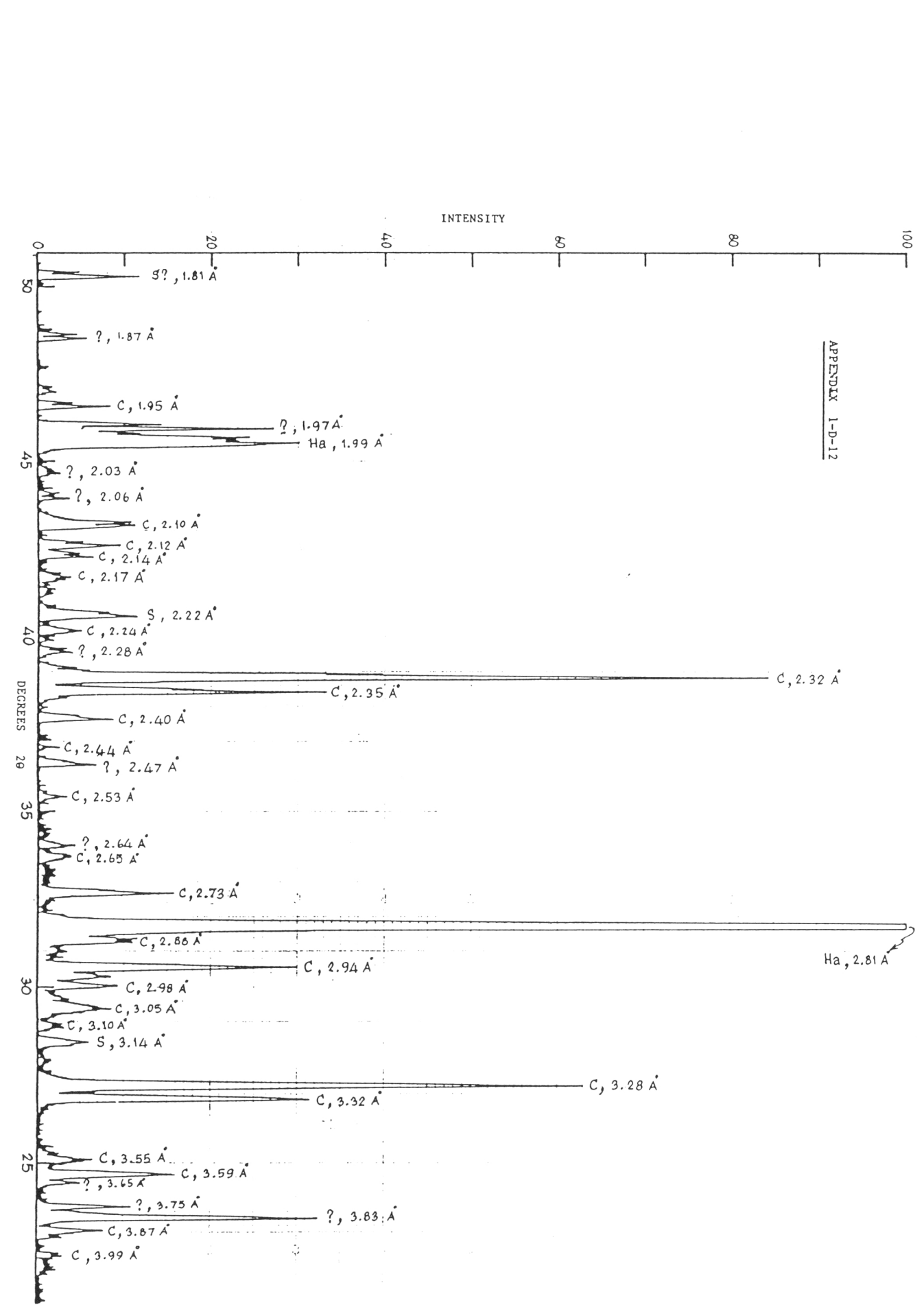
An, 2.85 Å
An, 2.33 Å
An, 2.47 Å
Cal, 3.03 Å
Hb, 2.82 Å
? , 2.79 Å
? , 2.28 Å
An, 3.11 Å
? , 3.19 Å
Hb ? , 3.26 Å
Q ? , 3.34 Å
An, 3.67 Å

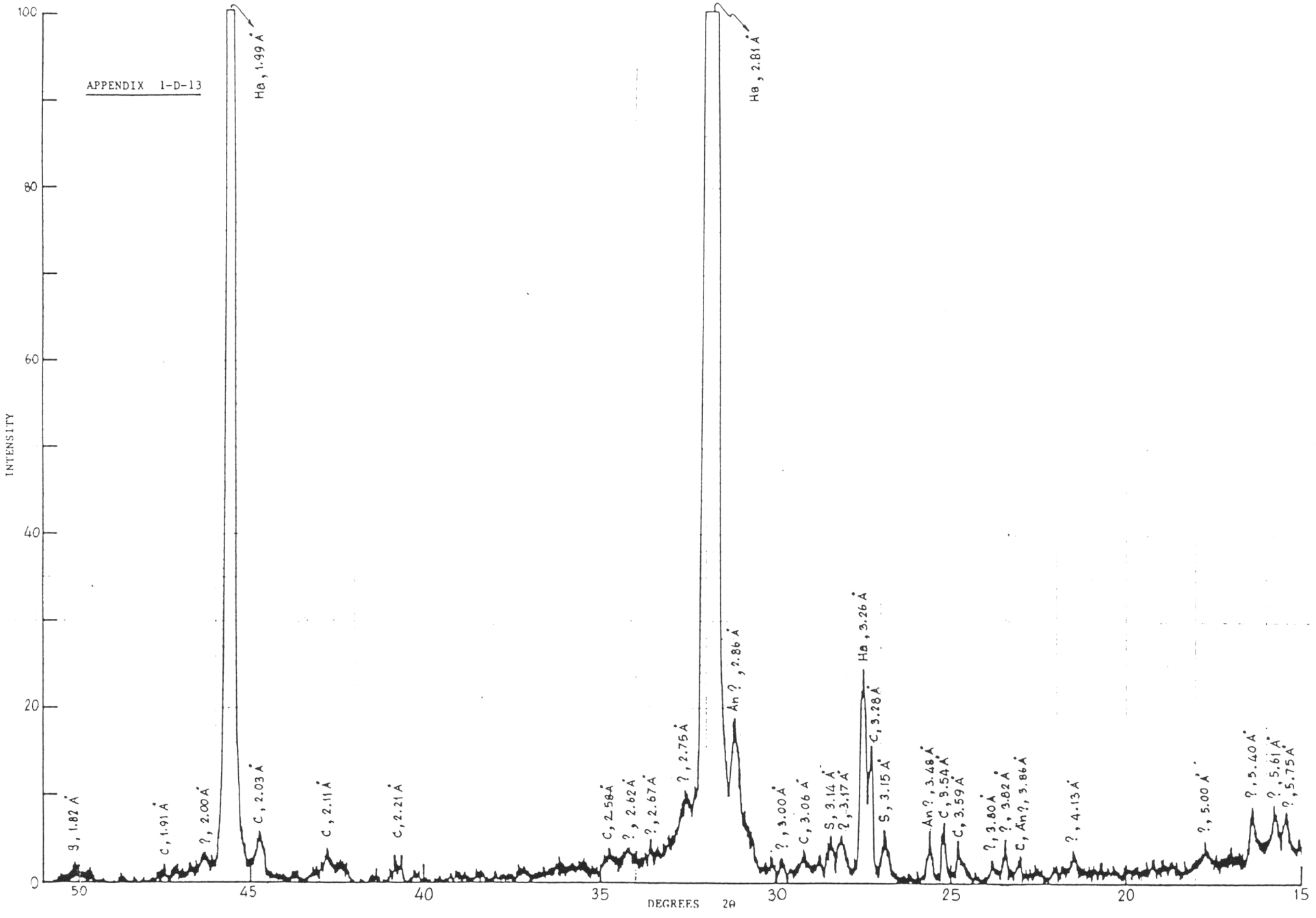

APPENDIX 1-D-9
Ha, 1.63 Å
Ha, 1.70 Å
Ha, 1.99 Å
?, 2.03 Å
Ha, 2.81 Å
?, 2.89 Å
Ha, 3.26 Å
An?, 3.49 Å
INTENSITY
DEGREES 2θ
100
80
60
40
20
0
55
50
45
40
35
30
25


APPENDIX 1-D-10
INTENSITY
DEGREES 2θ
0
20
40
60
80
100
50
45
40
35
30
25
An, 1.85 Å
An, 1.87 Å
An, 1.94 Å
An, Ha, 1.99 Å
An, 2.09 Å
An, 2.18 Å
An, 2.20 Å
An, 2.33 Å
An, 2.47 Å
Ha, 2.81 Å
An, 2.85 Å
G?, 2.87 Å
An, 3.11 Å
Ha, 3.26 Å
An, 3.49 Å
?, 3.60 Å
An, 3.87 Å

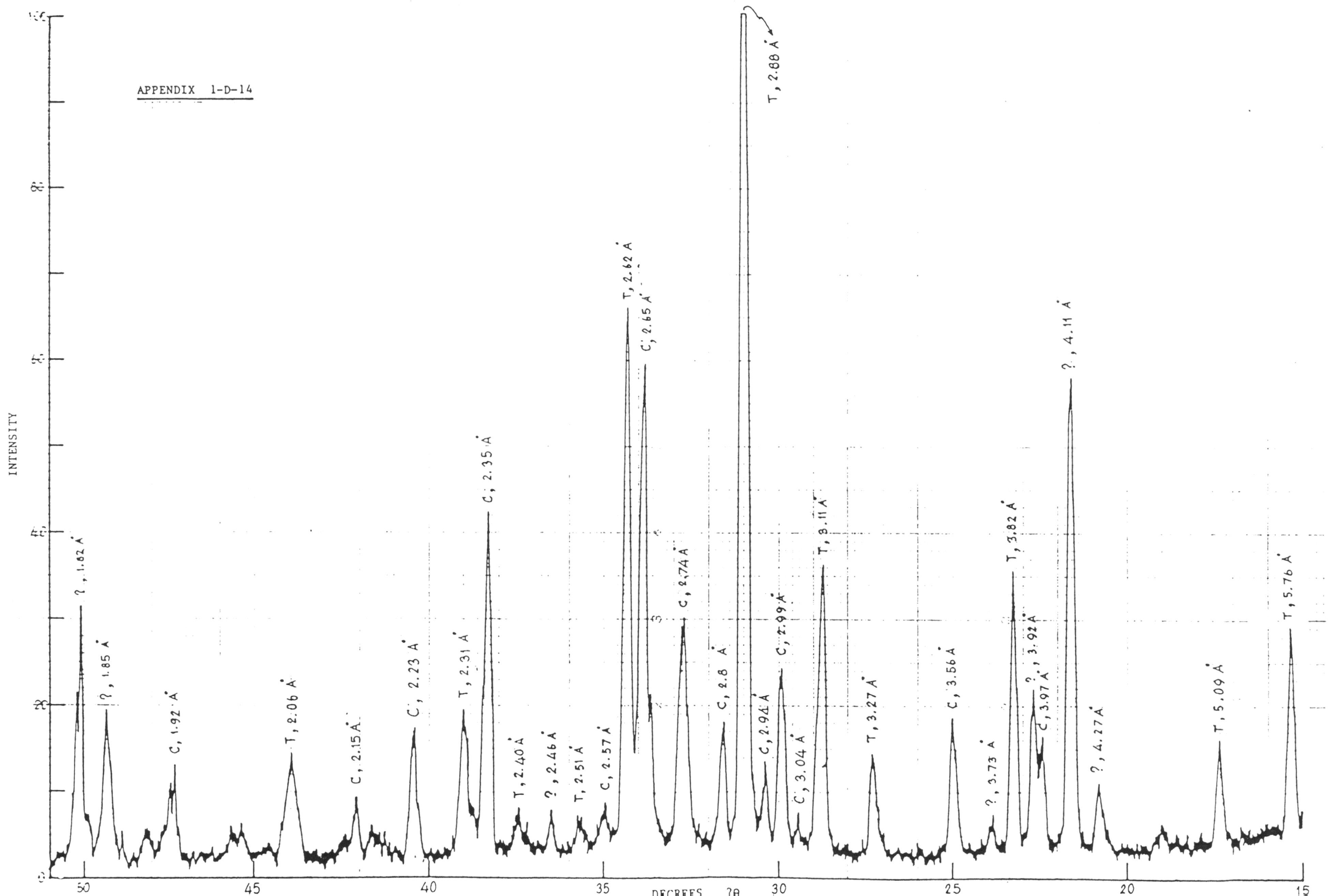


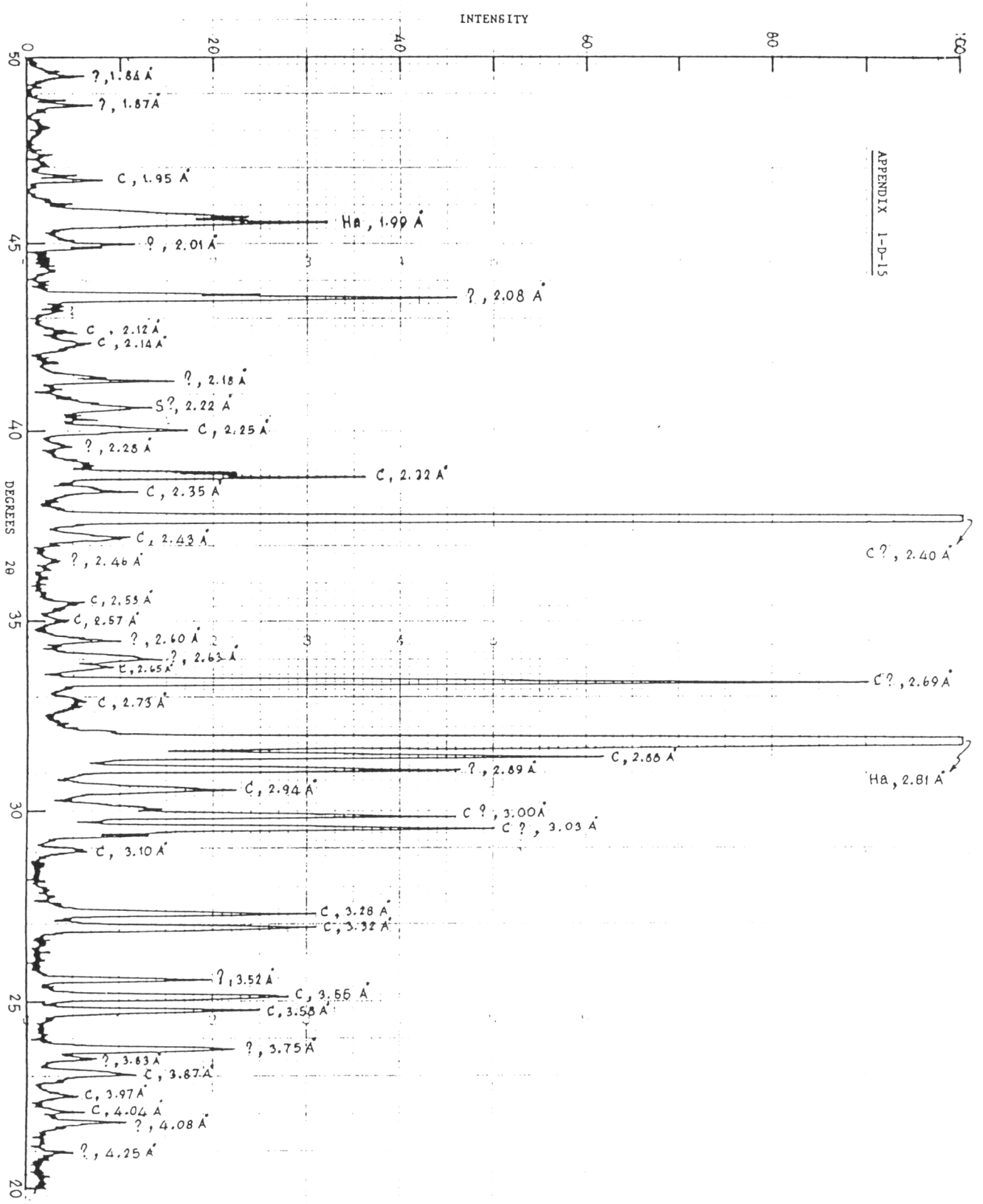
APPENDIX 1-D-11

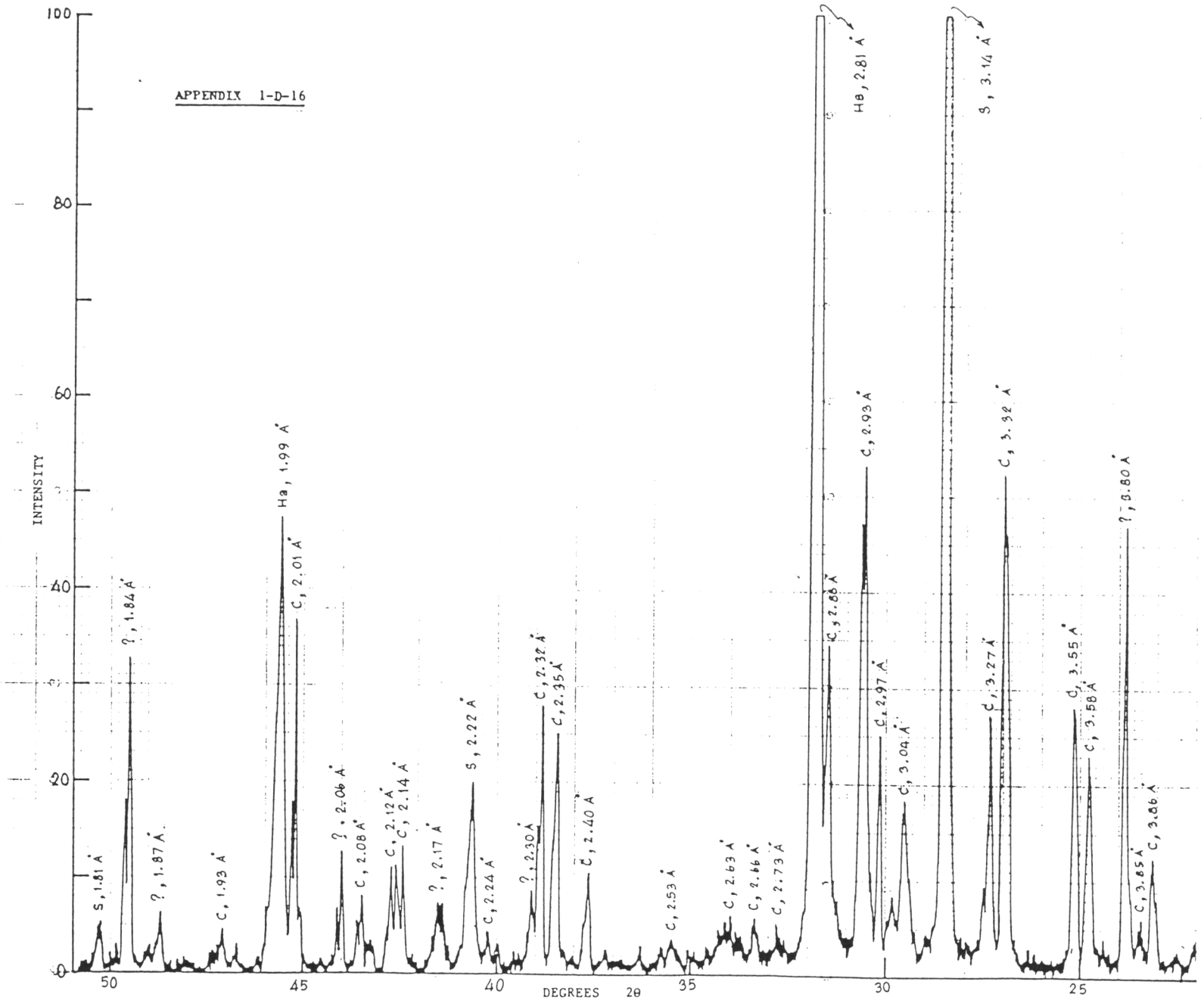

INTENSITY
0
20
40
60
80
100
50
45
40
35
30
25
DEGREES 2θ
APPENDIX 1-D-12
S?, 1.81 Å
?, 1.87 Å
C, 1.95 Å
?, 1.97 Å
Ha, 1.99 Å
?, 2.03 Å
?, 2.06 Å
C, 2.10 Å
C, 2.12 Å
C, 2.14 Å
C, 2.17 Å
S, 2.22 Å
C, 2.24 Å
?, 2.28 Å
C, 2.32 Å
C, 2.35 Å
C, 2.40 Å
C, 2.44 Å
?, 2.47 Å
C, 2.53 Å
?, 2.64 Å
C, 2.65 Å
C, 2.73 Å
C, 2.86 Å
C, 2.94 Å
Ha, 2.81 Å
C, 2.98 Å
C, 3.05 Å
C, 3.10 Å
S, 3.14 Å
C, 3.28 Å
C, 3.32 Å
C, 3.55 Å
C, 3.59 Å
?, 3.65 Å
?, 3.75 Å
?, 3.83 Å
C, 3.87 Å
C, 3.99 Å


APPENDIX 1-D-13
INTENSITY
DEGREES 2θ
100
80
60
40
20
0
50
45
40
35
30
25
20
15
Ha, 1.99 Å
Ha, 2.81 Å
S, 1.82 Å
C, 1.91 Å
?, 2.00 Å
C, 2.03 Å
C, 2.11 Å
C, 2.21 Å
C, 2.58 Å
?, 2.62 Å
?, 2.67 Å
?, 2.75 Å
An ?, 2.86 Å
?, 3.00 Å
C, 3.06 Å
S, 3.14 Å
?, 3.17 Å
Ha, 3.26 Å
C, 3.28 Å
S, 3.15 Å
An ?, 3.48 Å
C, 3.54 Å
C, 3.59 Å
?, 3.80 Å
?, 3.82 Å
C, An?, 3.86 Å
?, 4.13 Å
?, 5.00 Å
?, 5.40 Å
?, 5.61 Å
?, 5.75 Å

APPENDIX 1-D-14




INTENSITY
0
20
40
60
80
100
50
45
40
35
30
25
20
DEGREES 2θ
APPENDIX 1-D-15
?, 1.84 Å
?, 1.87 Å
C, 1.95 Å
Ha, 1.99 Å
?, 2.01 Å
?, 2.08 Å
C, 2.12 Å
C, 2.14 Å
?, 2.18 Å
S?, 2.22 Å
C, 2.25 Å
?, 2.28 Å
C, 2.32 Å
C, 2.35 Å
C?, 2.40 Å
C, 2.43 Å
?, 2.46 Å
C, 2.53 Å
C, 2.57 Å
?, 2.60 Å
?, 2.63 Å
C, 2.65 Å
C?, 2.69 Å
C, 2.73 Å
C, 2.80 Å
?, 2.89 Å
Ha, 2.81 Å
C, 2.94 Å
C?, 3.00 Å
C?, 3.03 Å
C, 3.10 Å
C, 3.28 Å
C, 3.32 Å
?, 3.52 Å
C, 3.56 Å
C, 3.58 Å
?, 3.75 Å
?, 3.83 Å
C, 3.87 Å
C, 3.97 Å
C, 4.04 Å
?, 4.08 Å
?, 4.25 Å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INTENSITY
DEGREES 2θ
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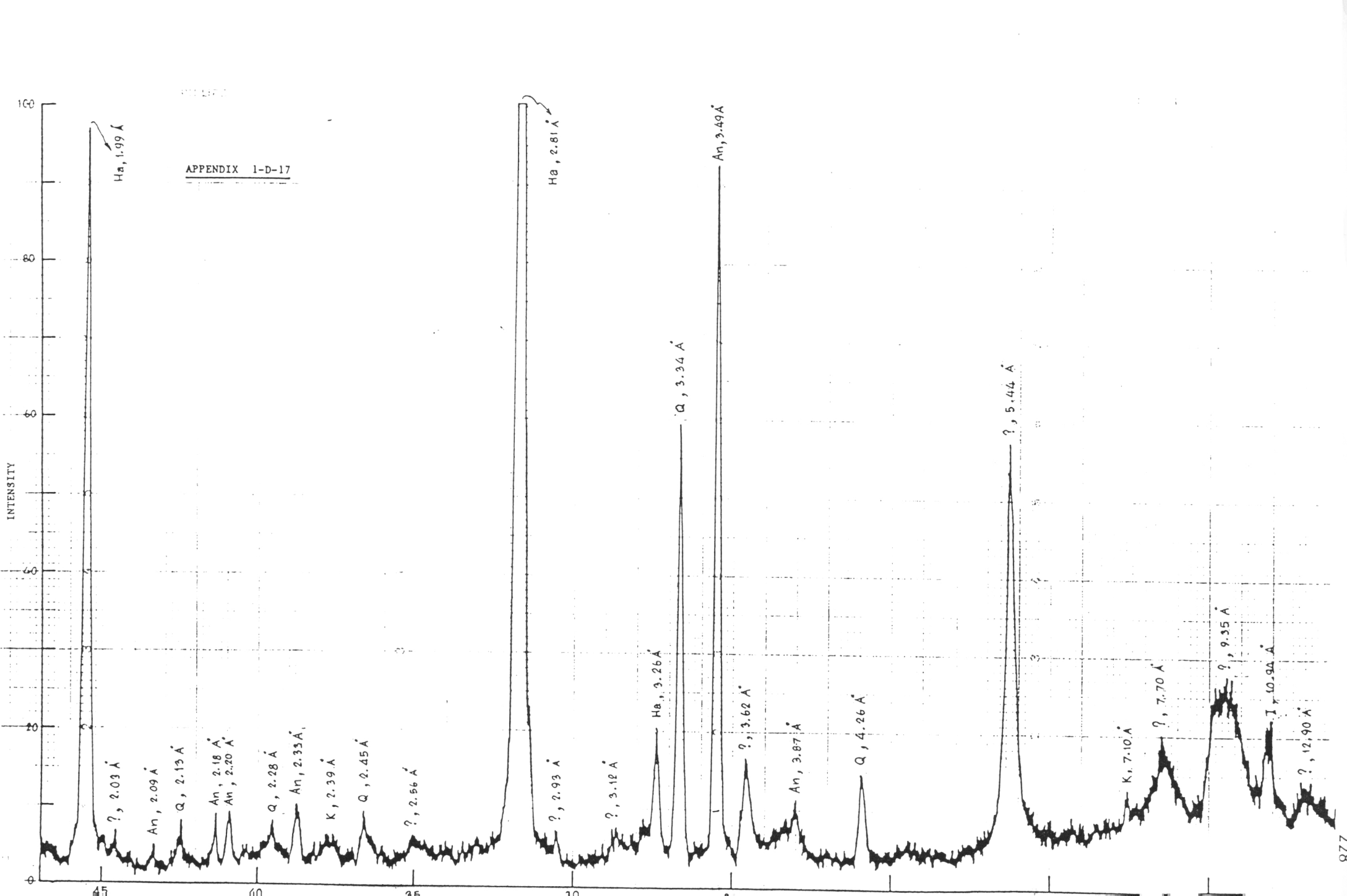
60
40
20
0
50
45
40
35
30
25
S, 1.81 Å
?, 1.84 Å
?, 1.87 Å.
C, 1.93 Å
Ha, 1.99 Å
C, 2.01 Å
?, 2.06 Å
C, 2.08 Å
C, 2.12 Å
C, 2.14 Å
?, 2.17 Å
S, 2.22 Å
C, 2.24 Å
?, 2.30 Å
C, 2.32 Å
C, 2.35 Å
C, 2.40 Å
C, 2.53 Å
C, 2.63 Å
C, 2.66 Å
C, 2.73 Å
C, 2.88 Å
Hβ, 2.81 Å
C, 2.93 Å
C, 2.97 Å
C, 3.04 Å
S, 3.14 Å
C, 3.32 Å
C, 3.27 Å
C, 3.55 Å
C, 3.58 Å
?, 3.80 Å
C, 3.85 Å
C, 3.86 Å


APPENDIX 1-D-17
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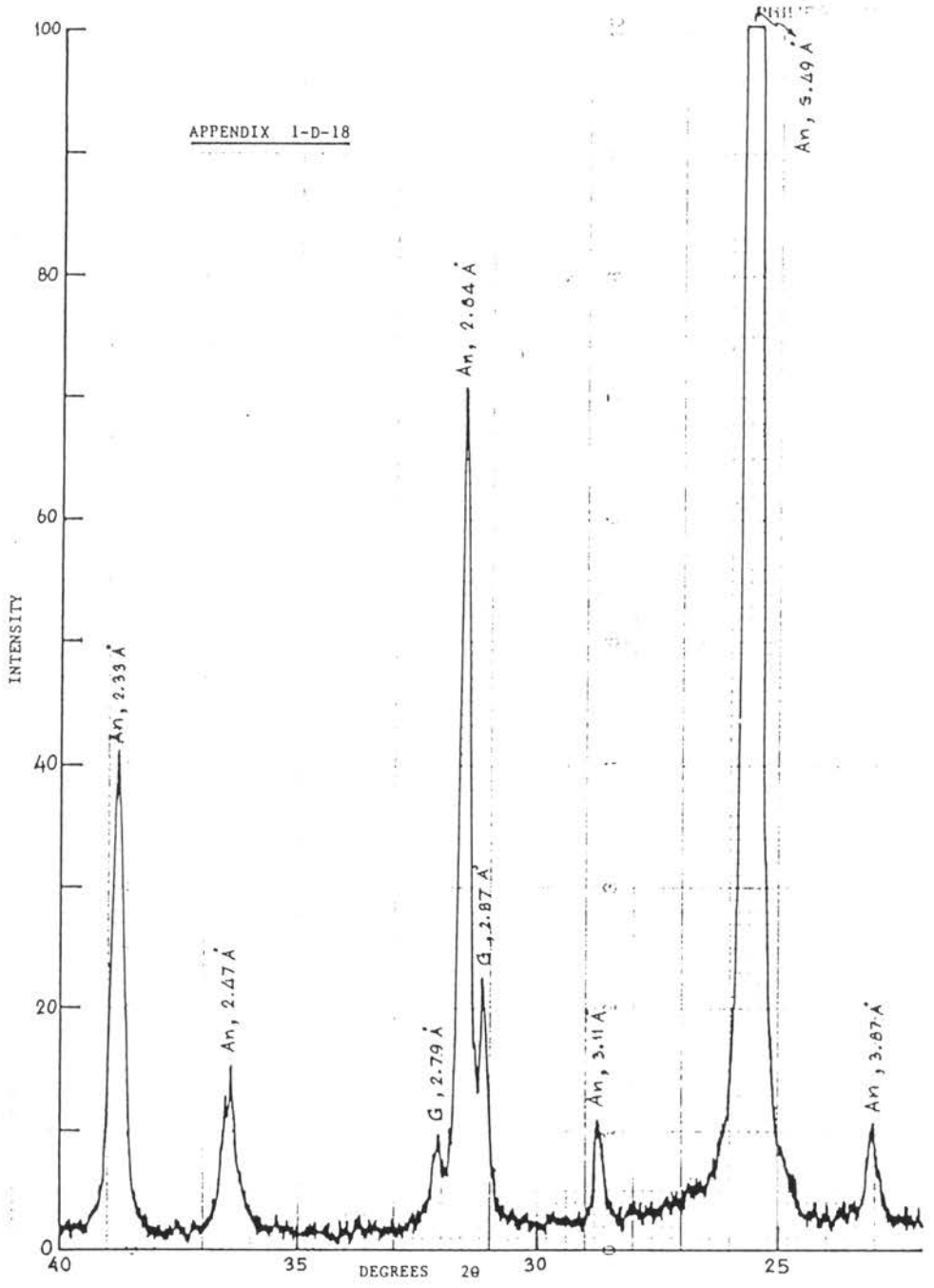
An, 2.09 Å
Q, 2.13 Å
An, 2.18 Å
An, 2.20 Å
Q, 2.28 Å
An, 2.33 Å
K, 2.39 Å
Q, 2.45 Å
?, 2.56 Å
Ha, 2.81 Å
?, 2.93 Å
?, 3.12 Å
Ha, 3.26 Å
Q, 3.34 Å
An, 3.49 Å
?, 3.62 Å
An, 3.87 Å
Q, 4.26 Å
?, 5.44 Å
K, 7.10 Å
?, 7.70 Å
?, 9.35 Å
I, 10.24 Å
?, 12.90 Å
45
40
35
30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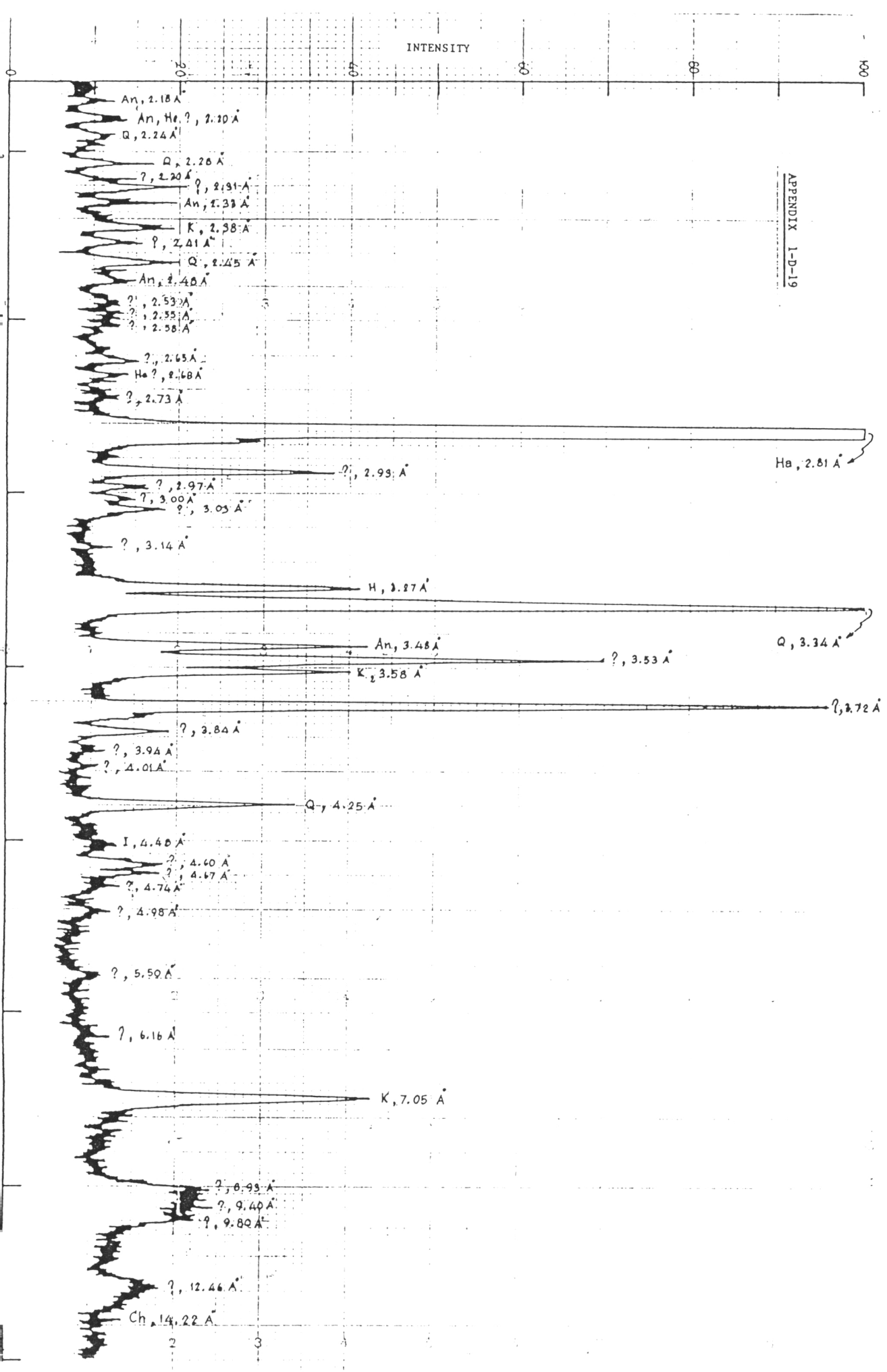
40
20
0
40
35
30
25
DEGREES 2θ
An, 2.33 Å
An, 2.47 Å
G, 2.79 Å
An, 2.64 Å
G, 2.87 Å
An, 3.11 Å
An, 3.87 Å
An, 5.49 Å


INTENSITY
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40
60
80
100
APPENDIX 1-D-19
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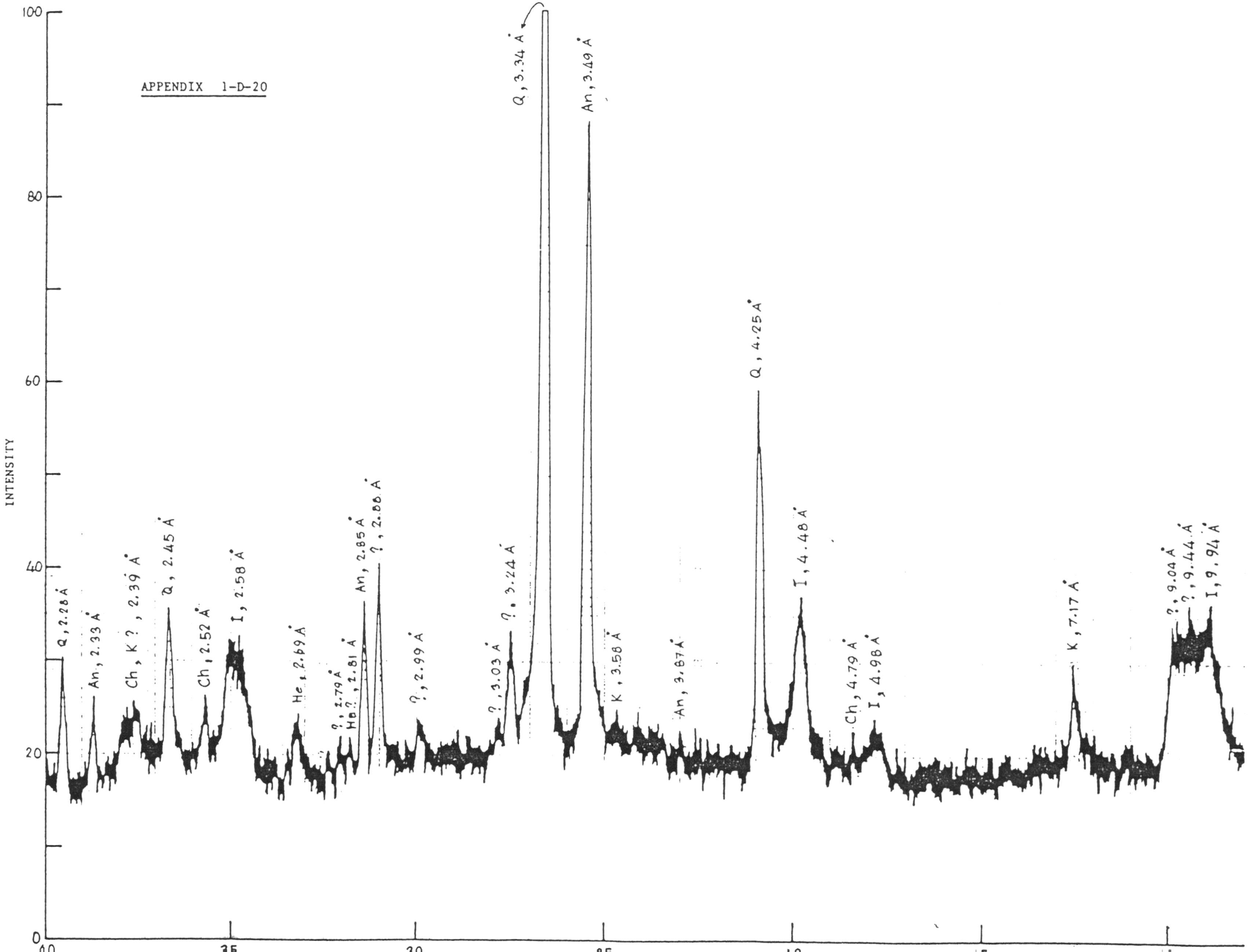
Q, 2.24 Å
Q, 2.28 Å
?, 2.30 Å
?, 2.31 Å
An, 2.33 Å
K, 2.38 Å
?, 2.41 Å
Q, 2.45 Å
An, 2.48 Å
?, 2.53 Å
?, 2.55 Å
?, 2.58 Å
?, 2.65 Å
He ?, 2.68 Å
?, 2.73 Å
Ha, 2.81 Å
?, 2.93 Å
?, 2.97 Å
?, 3.00 Å
?, 3.03 Å
?, 3.14 Å
H, 3.27 Å
Q, 3.34 Å
An, 3.48 Å
?, 3.53 Å
K, 3.58 Å
?, 3.72 Å
?, 3.84 Å
?, 3.94 Å
?, 4.01 Å
Q, 4.25 Å
I, 4.48 Å
?, 4.60 Å
?, 4.67 Å
?, 4.74 Å
?, 4.98 Å
?, 5.50 Å
?, 6.16 Å
K, 7.05 Å
?, 8.93 Å
?, 9.40 Å
?, 9.80 Å
?, 12.46 Å
Ch, 14.22 Å
2
3


APPENDIX 1-D-20
INTENSITY
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40
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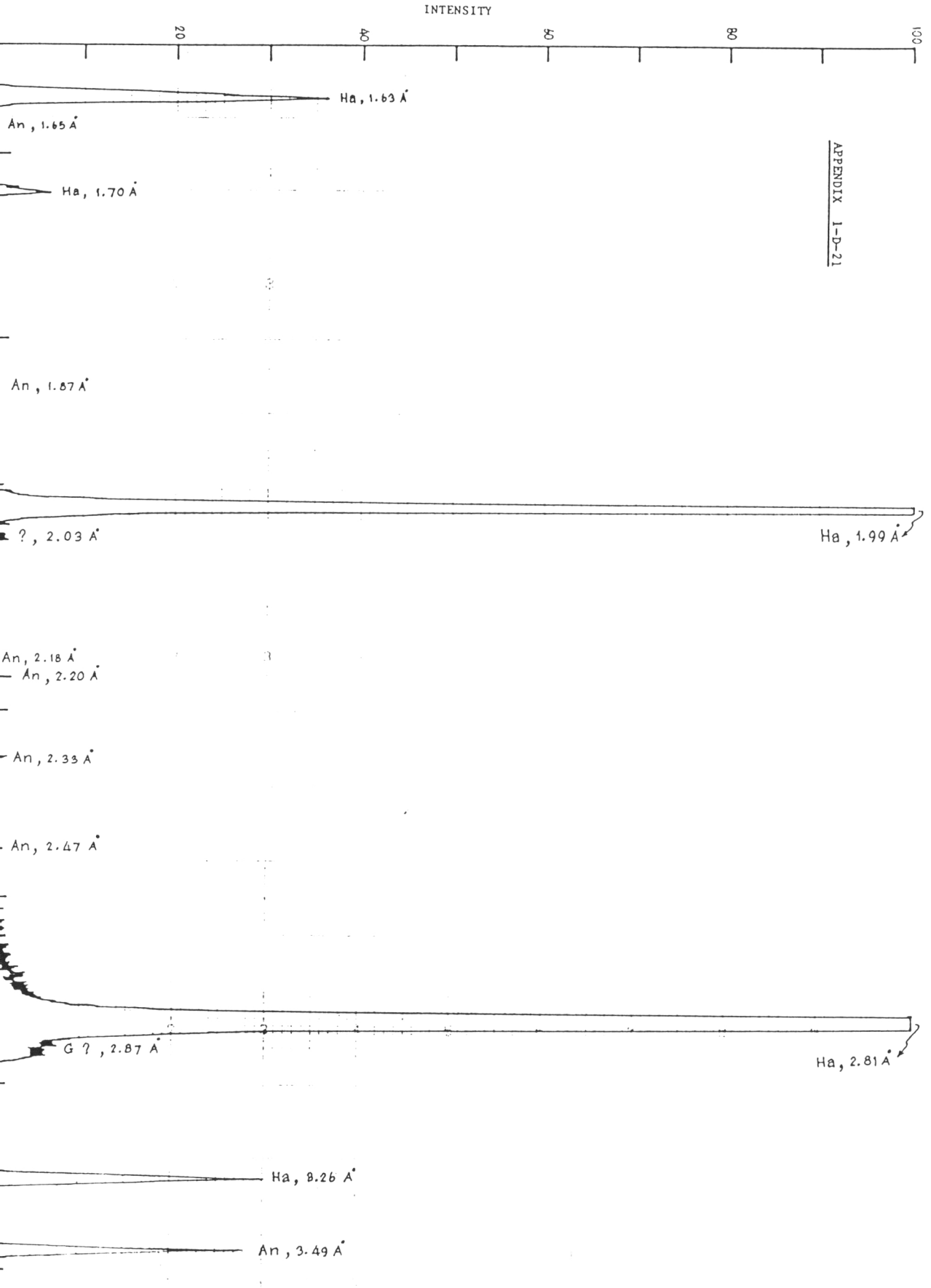
Q, 2.28 Å
An, 2.33 Å
Ch, K ?, 2.39 Å
Q, 2.45 Å
Ch, 2.52 Å
I, 2.58 Å
He, 2.69 Å
?, 2.79 Å
He?, 2.81 Å
An, 2.85 Å
?, 2.88 Å
?, 2.99 Å
?, 3.03 Å
?, 3.24 Å
Q, 3.34 Å
An, 3.49 Å
K, 3.58 Å
An, 3.87 Å
Q, 4.25 Å
I, 4.48 Å
Ch, 4.79 Å
I, 4.98 Å
K, 7.17 Å
?, 9.04 Å
?, 9.44 Å
I, 9.94 Å
35
30
25
10
5


INTENSITY
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60
80
100
Ha, 1.63 Å
An, 1.65 Å
Ha, 1.70 Å
APPENDIX I-D-21
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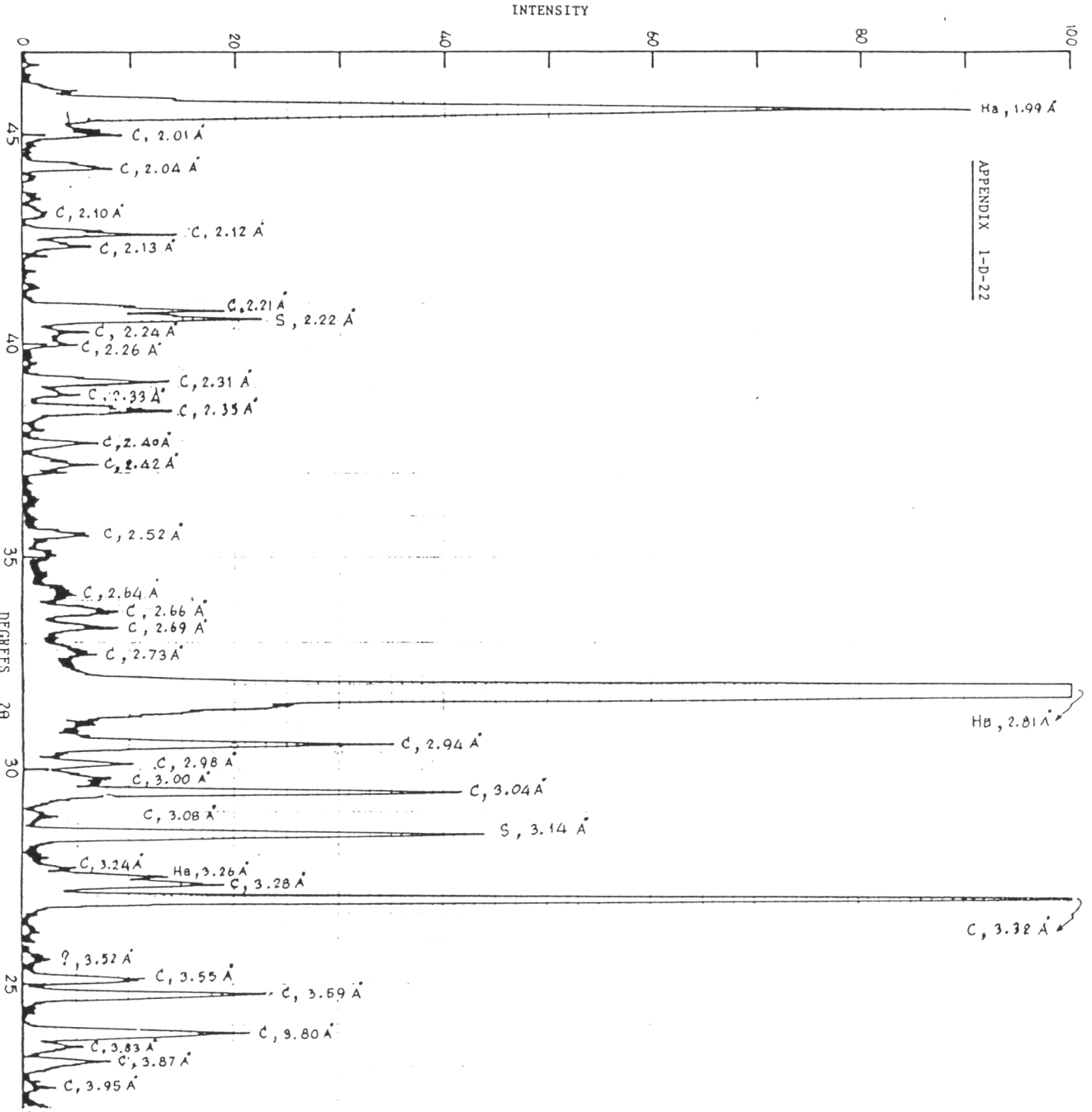
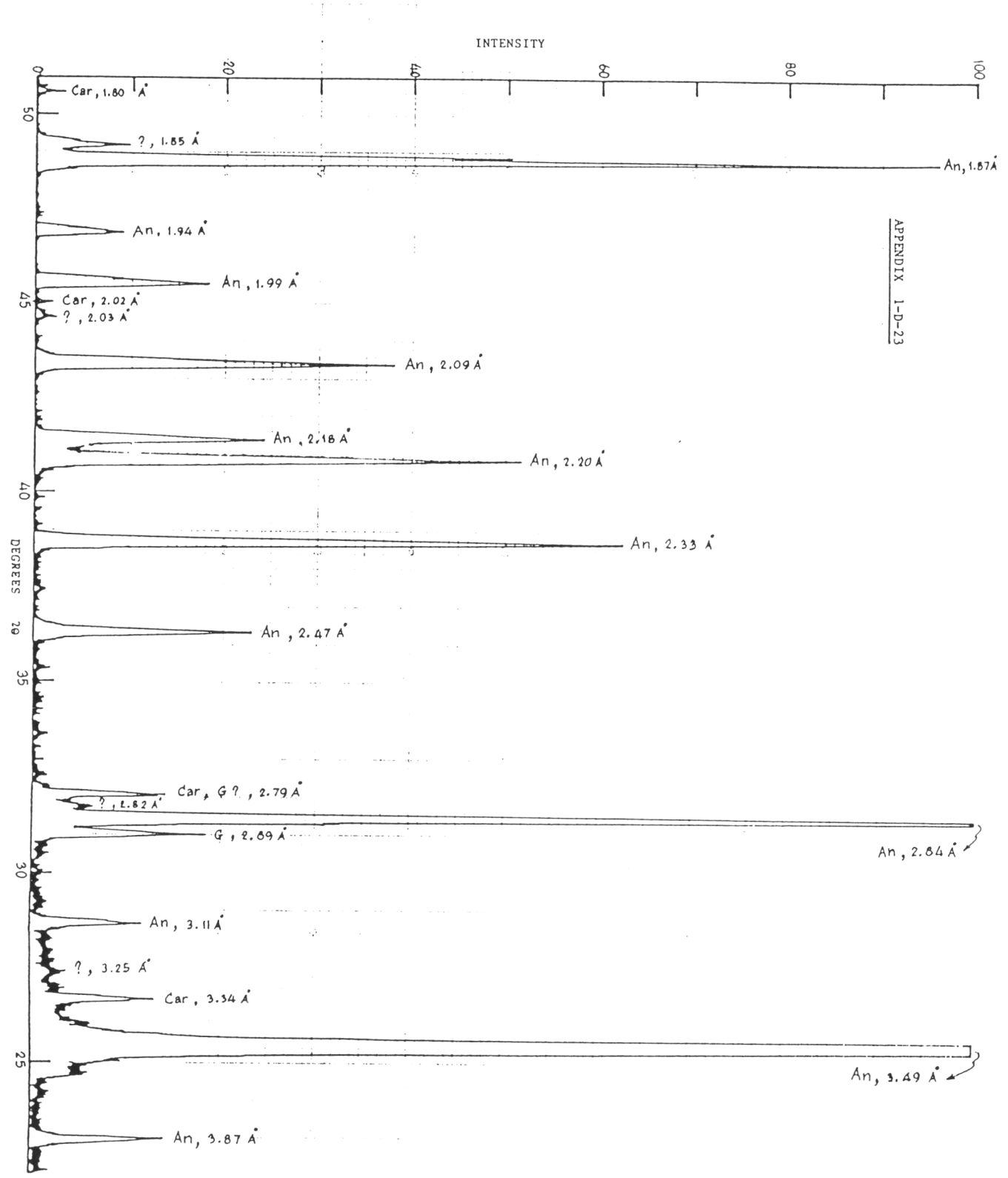
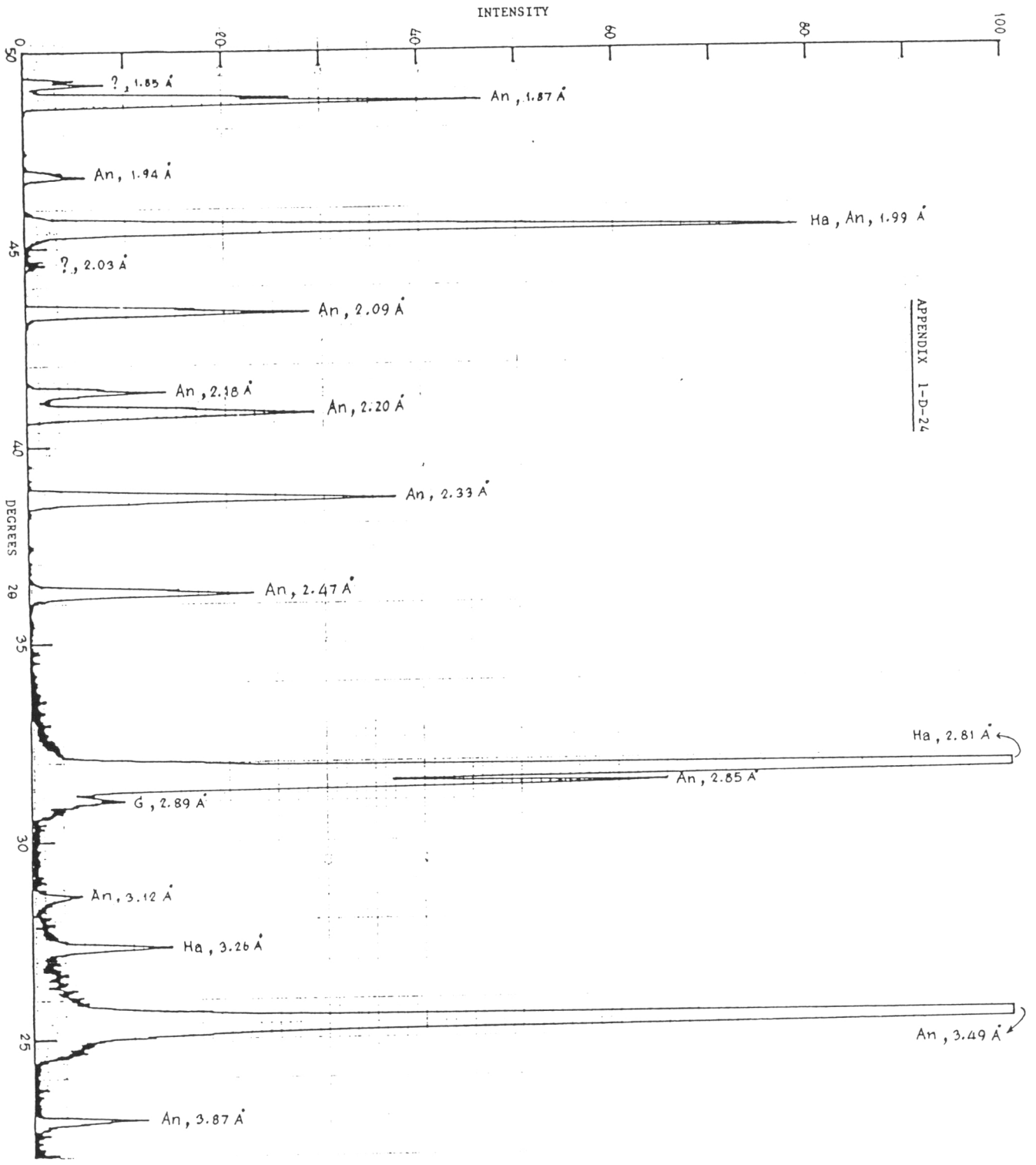
?, 2.03 Å
Ha, 1.99 Å
An, 2.18 Å
An, 2.20 Å
An, 2.33 Å
An, 2.47 Å
G ?, 2.87 Å
Ha, 2.81 Å
Ha, 8.26 Å
An, 3.49 Å



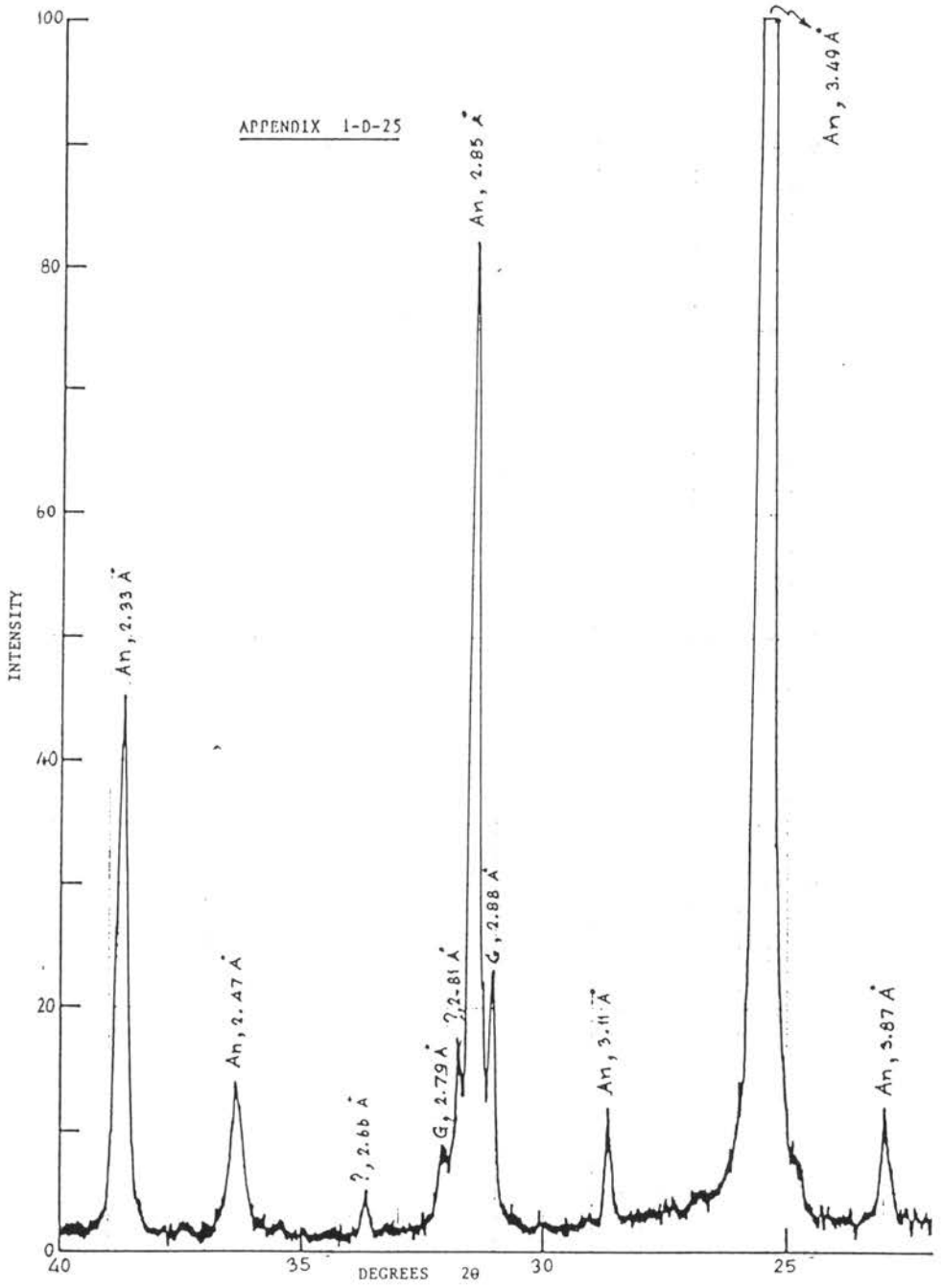
APPENDIX I-D-22



APPENDIX 1-D-23



APPENDIX 1-D-24


APPENDIX 1-D-25
INTENSITY
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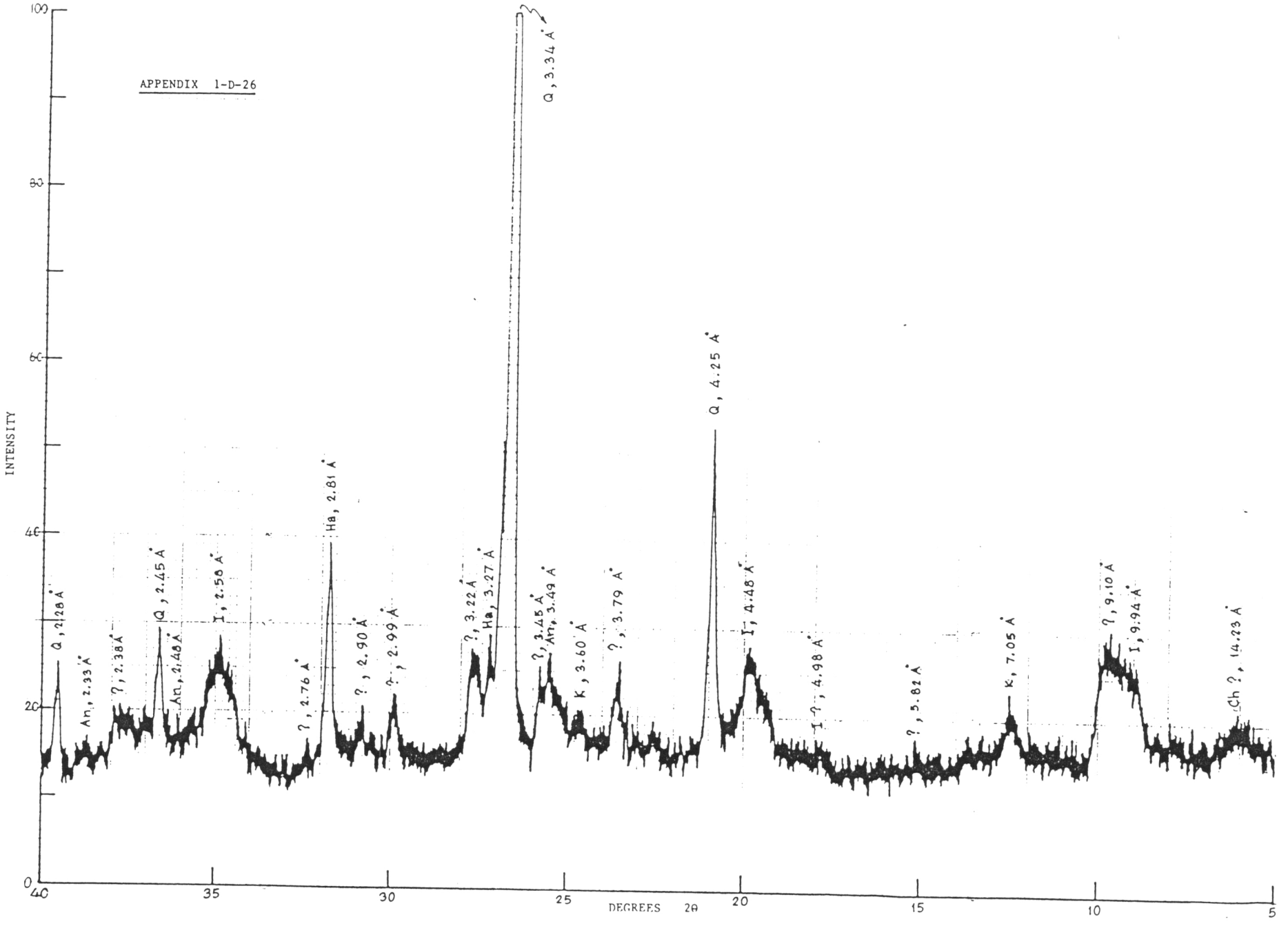
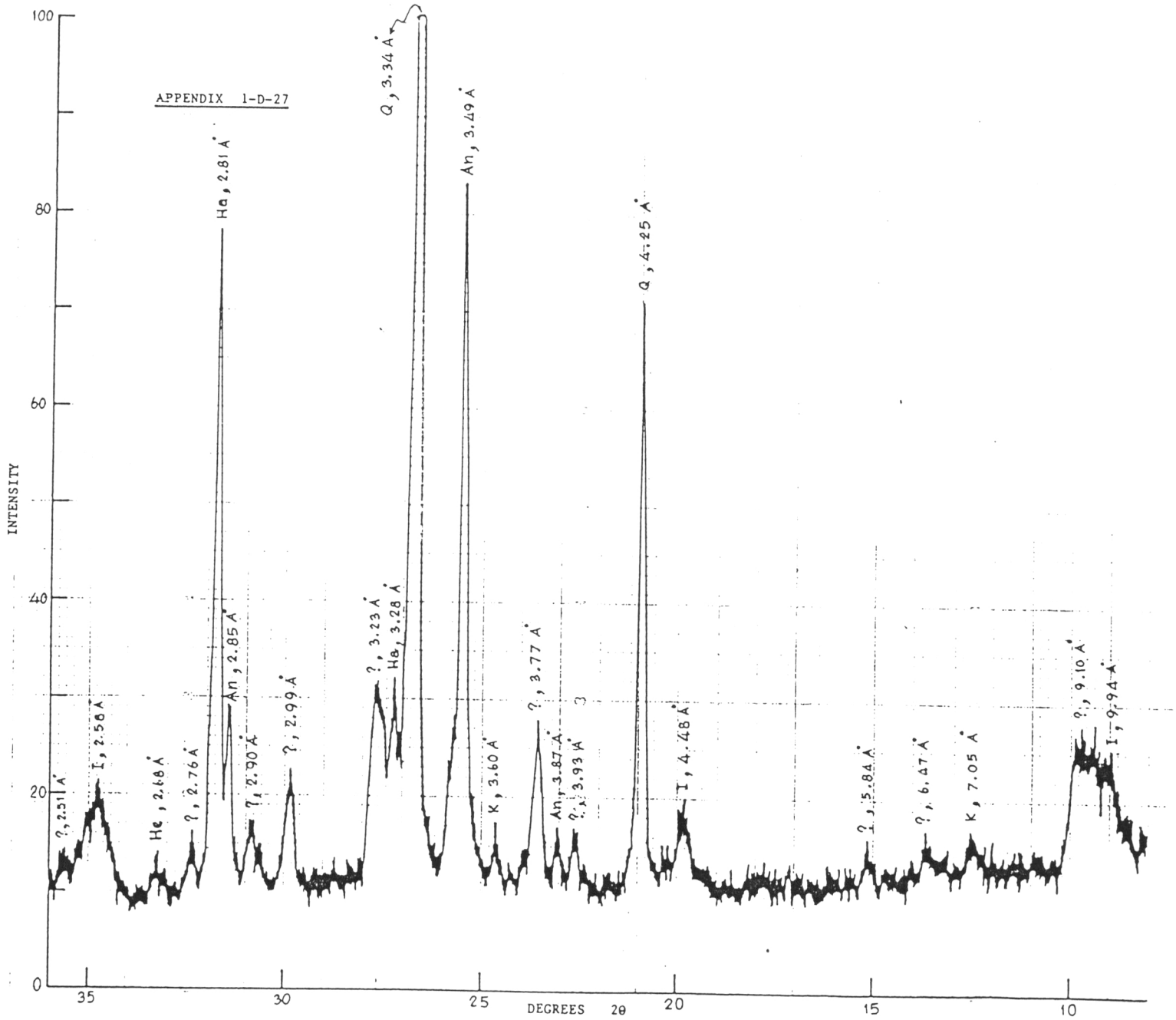
80
60
40
20
0
40
35
30
25
DEGREES 2θ
An, 2.33 Å
An, 2.47 Å
?, 2.66 Å
G, 2.79 Å
?2.81 Å
An, 2.85 Å
G, 2.88 Å
An, 3.11 Å
An, 3.49 Å
An, 3.87 Å


APPENDIX 1-D-26
INTENSITY
DEGREES 2θ
Q, 2.28 Å
An, 2.33 Å
?, 2.38 Å
Q, 2.45 Å
An, 2.48 Å
I, 2.56 Å
?, 2.76 Å
Ha, 2.81 Å
?, 2.90 Å
?, 2.99 Å
?, 3.22 Å
Ha, 3.27 Å
Q, 3.34 Å
?, 3.45 Å
An, 3.49 Å
K, 3.60 Å
?, 3.79 Å
Q, 4.25 Å
I, 4.48 Å
I ?, 4.98 Å
?, 5.82 Å
K, 7.05 Å
?, 9.10 Å
I, 9.94 Å
Ch ?, 14.23 Å


APPENDIX 1-D-27
INTENSITY
DEGREES 2θ
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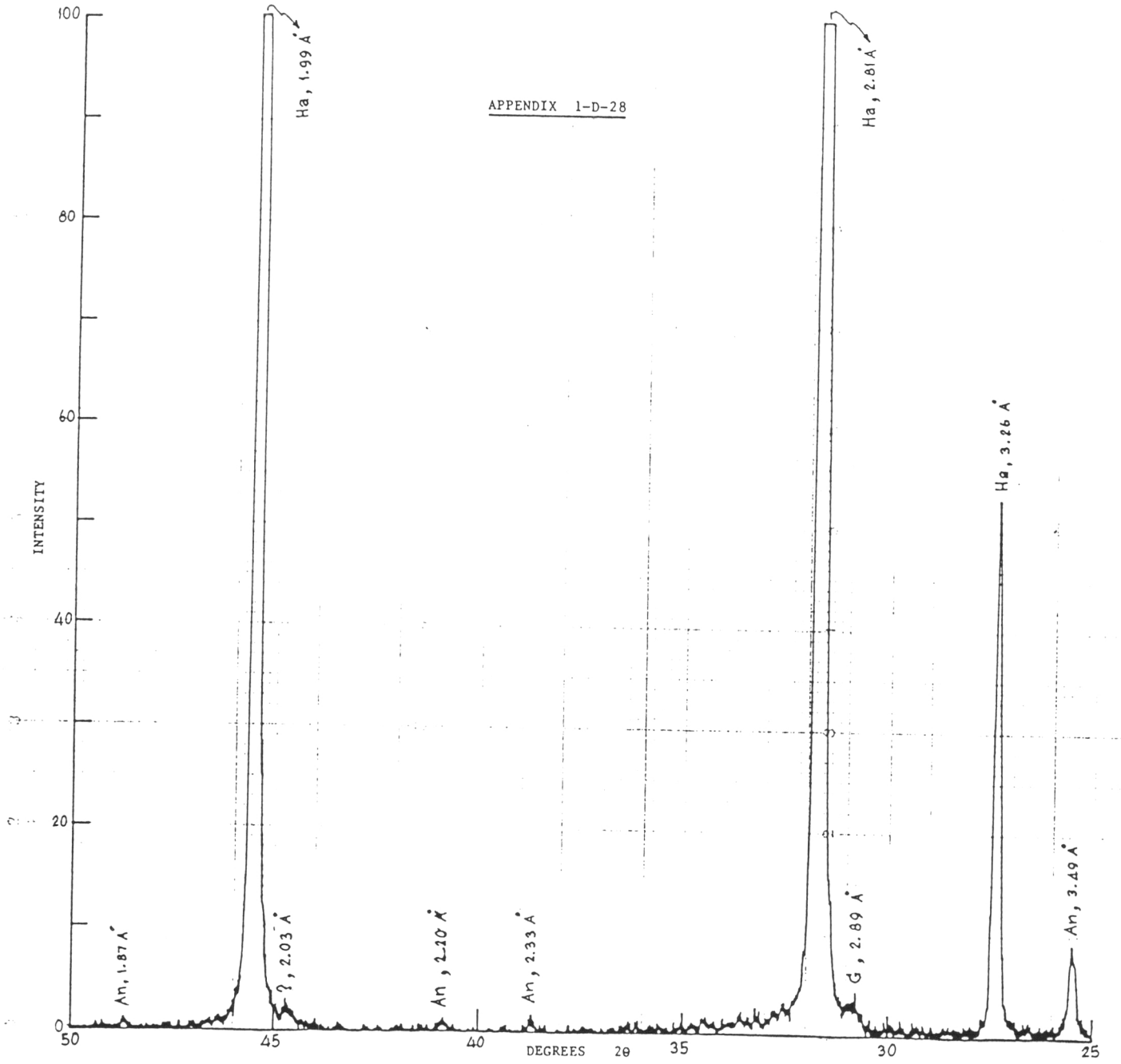
He, 2.68 Å
?, 2.76 Å
Ha, 2.81 Å
An, 2.85 Å
?, 2.90 Å
?, 2.99 Å
?, 3.23 Å
Ha, 3.28 Å
Q, 3.34 Å
An, 3.49 Å
K, 3.60 Å
?, 3.77 Å
An, 3.87 Å
?, 3.93 Å
Q, 4.25 Å
I, 4.48 Å
?, 5.84 Å
?, 6.47 Å
K, 7.05 Å
?, 9.10 Å
I, 9.94 Å


APPENDIX 1-D-28
INTENSITY
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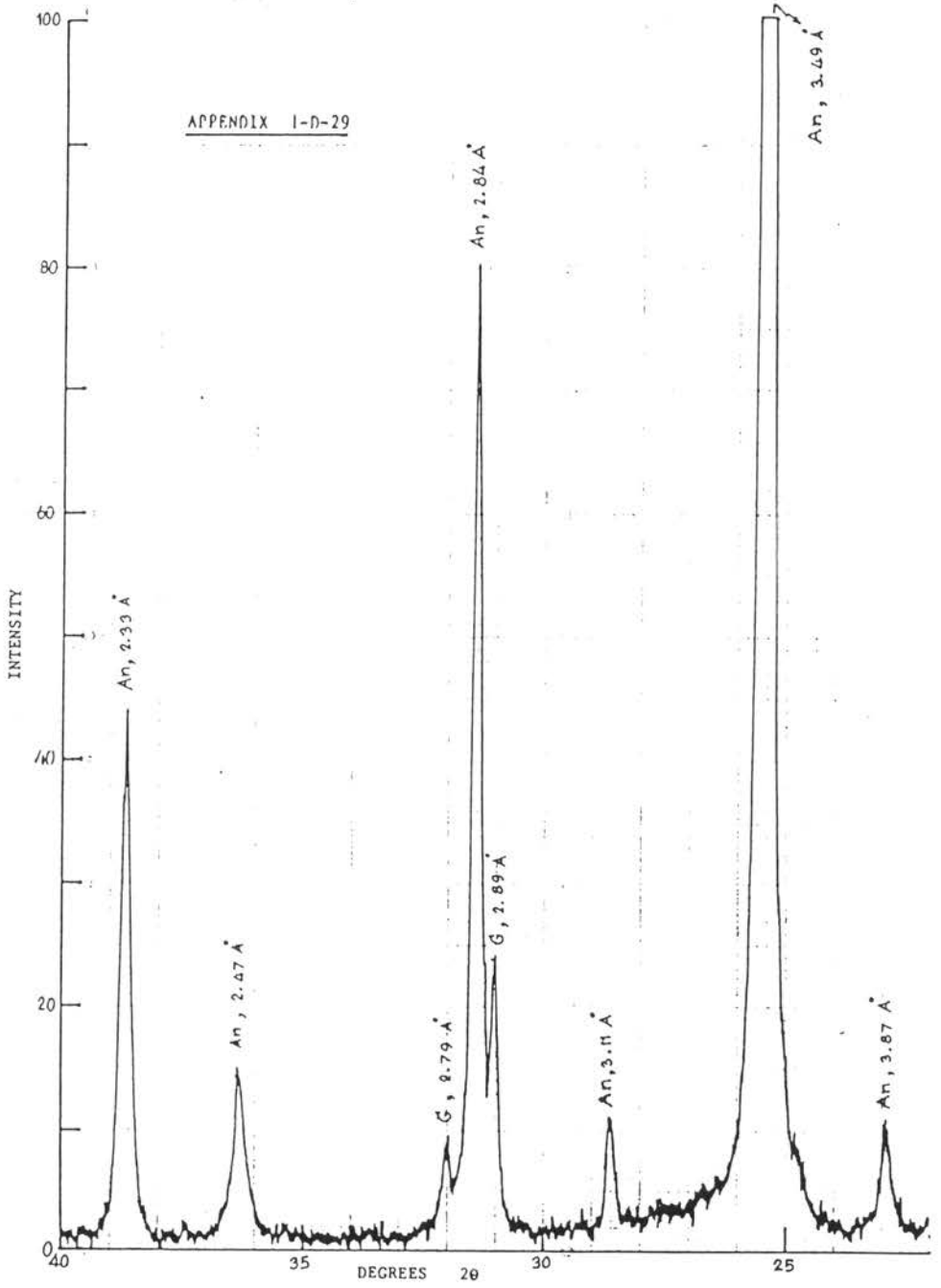
60
40
20
0
50
45
40
35
30
25
DEGREES 2θ
An, 1.87 Å
Ha, 1.99 Å
?, 2.03 Å
An, 2.10 Å
An, 2.33 Å
Ha, 2.81 Å
G, 2.89 Å
Ha, 3.26 Å
An, 3.49 Å


APPENDIX I-D-29
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40
20
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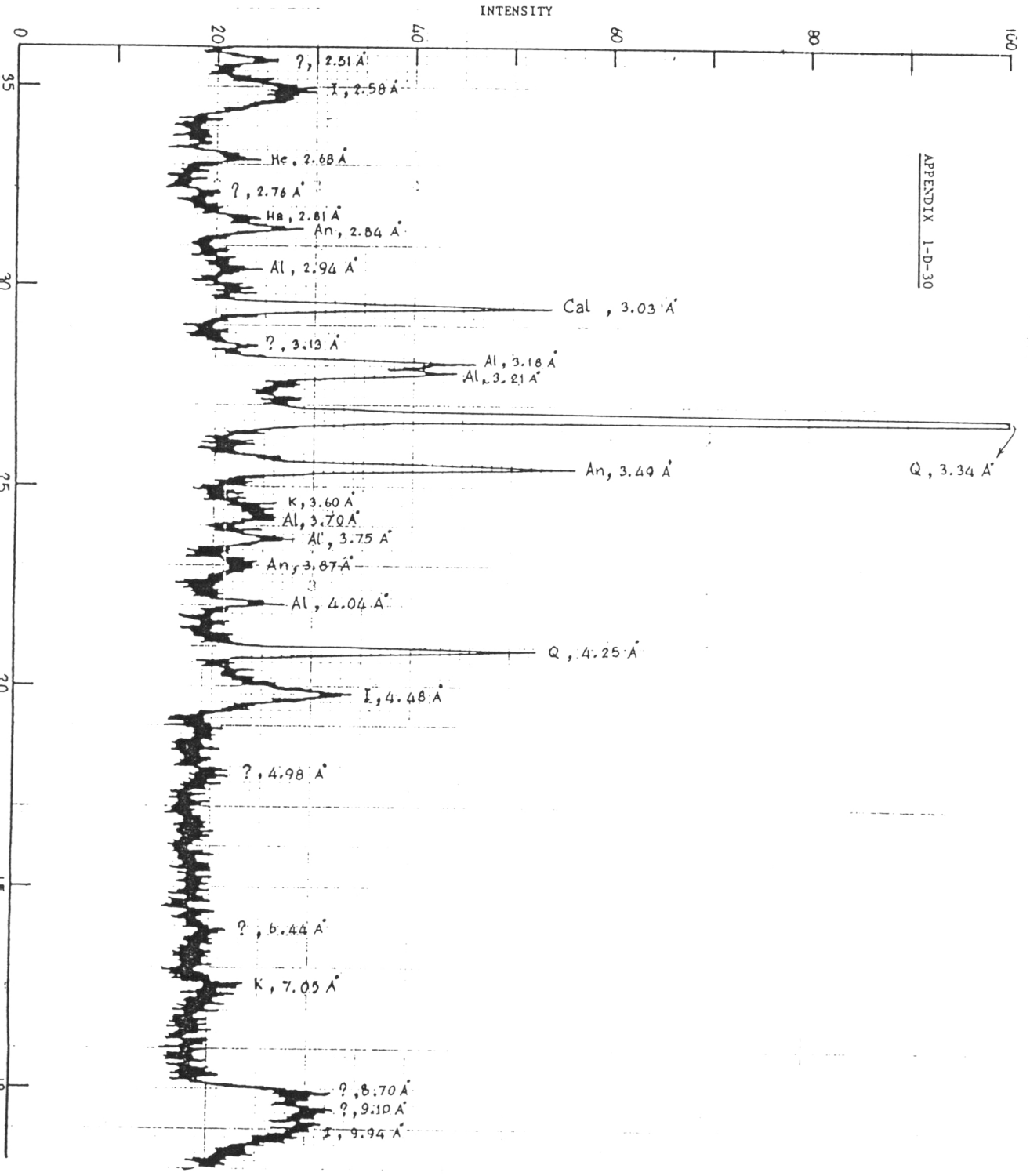
An, 2.33 Å
An, 2.47 Å
G, 2.79 Å
An, 2.84 Å
G, 2.89 Å
An, 3.11 Å
An, 3.49 Å
An, 3.87 Å
40
35
30
25
DEGREES 2θ


INTENSITY
0
20
40
60
80
100
?, 2.51 Å
I, 2.58 Å
He, 2.68 Å
?, 2.76 Å
Ha, 2.81 Å
An, 2.84 Å
Al, 2.94 Å
Cal, 3.03 Å
?, 3.13 Å
Al, 3.18 Å
Al, 3.21 Å
An, 3.49 Å
Q, 3.34 Å
K, 3.60 Å
Al, 3.70 Å
Al, 3.75 Å
An, 3.87 Å
Al, 4.04 Å
Q, 4.25 Å
I, 4.48 Å
?, 4.98 Å
?, 6.44 Å
K, 7.05 Å
?, 8.70 Å
?, 9.10 Å
I, 9.94 Å
APPENDIX 1-D-30

Appendix 1-E Analytical data of some trace elements (Mn, Fe, Sr, and Ba) of some representative samples of the anhydrite zones, calcareous sandstone zone, and ferrugenous sandstone zone in the lithostratigraphic sequences of the study area.

Remarks: chemical analyses are done by Leenanuphantu, V.; Rattanalert, N.; and Tungpittakul, P., the Office of Atomic Energy for Peace using the atomic absorption spectrophotometry method (Mn, Fe) and the isotope x-ray fluorescence spectrophotometry method (Sr, Ba).

Appendix 1-E (continued)

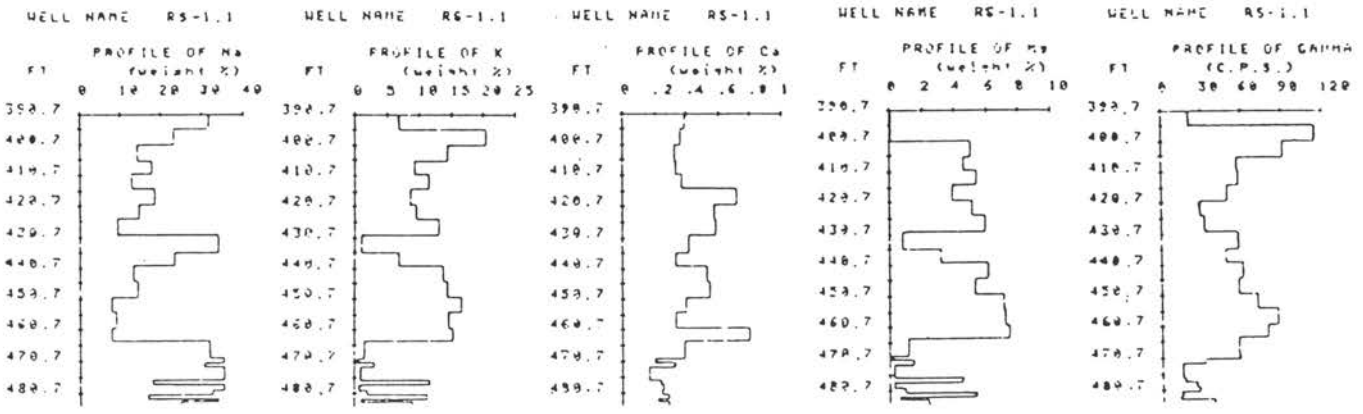
Sample no.	Well Ref. No. & Depth from Ground Surface (m.)	Position in the Lithostratigraphic Sequences	Manganese (ppm)	Iron (ppm)	Strontium (ppm)	Barium (ppm)
4-UCA	KB-21 (149.69-149.85)	Upper Cap Anhydrite Bed	65 ± 3	111 ± 3	540 ± 2	67 ± 1
5-UCA	KB-21 (151.80-151.96)		61 ± 1	75 ± 1	521 ± 6	< 50
6-UCA	KB-21 (152.77-152.90)		68 ± 2	115 ± 10	514 ± 3	< 50
13-MCA	KB-8 (55.14-55.29)	Middle Cap Anhydrite Bed	11 ± 1	811 ± 16	328 ± 1	< 50
14-MCA	KB-8 (56.00-56.10)		34 ± 2	104 ± 7	358 ± 14	< 50
15-MCA	KB-8 (57.15-57.27)		37 ± 2	101 ± 2	671 ± 18	< 50
19-MA	KB-2 (100.67-100.70)	Middle Anhydrite Bed	8 ± 1	185 ± 19	499 ± 5	51 ± 1
20-MA	KB-2 (100.87-100.92)		5 ± 1	75 ± 1	495 ± 5	< 50
21-MA	KB-2 (100.93-100.98)		12 ± 1	240 ± 8	629 ± 2	< 50
28-BC	RS-2.21 (66.00-66.13)	Basal Cap Anhydrite Bed	27 ± 1	206 ± 4	511 ± 7	< 50
29-BC	RS-2.21 (66.97-67.07)		8 ± 1	72 ± 10	674 ± 21	< 50
30-BC	RS-2.21 (68.11-68.17)		58 ± 2	164 ± 18	572 ± 6	< 50
47-BA	KB-2 (353.35-353.38)	Basal Anhydrite Bed	89 ± 1	433 ± 17	663 ± 6	< 50
48-BA	KB-2 (353.98-354.02)		39 ± 3	68 ± 4	827 ± 5	< 50
49-BA	KB-2 (354.27-354.31)		344 ± 8	216 ± 11	903 ± 5	< 50
50-BA	KB-2 (354.32-354.33)		1125 ± 38	1945 ± 129	879 ± 6	< 50
51-CS	KB-2 (354.33-354.37)	Calcareous Sandstone Bed	2755 ± 23	3422 ± 36	183 ± 2	222 ± 1
52-CS	KB-2 (354.41-354.45)		316 ± 4	3780 ± 35	346 ± 4	1055 ± 5
53-CS	KB-2 (354.56-354.59)		151 ± 2	3682 ± 78	364 ± 6	1241 ± 12
54-FS	KB-2 (354.93-354.97)		220 ± 4	4744 ± 151	269 ± 8	1055 ± 4
55 -FS	KB-2 (355.12-355.17)	Ferrugenous Sandstone Bed	300 ± 3	5112 ± 139	354 ± 6	2913 ± 15

Appendix 1-F Profiles and matrix correlations of some alkaline oxides content and gamma-ray (C.P.S.) in potash zone of 28 drill-holes in the study area.

(N, Na_2O; K, K_2O; Ca, CaO; Mg, MgO; and GAMMA, gamma ray)

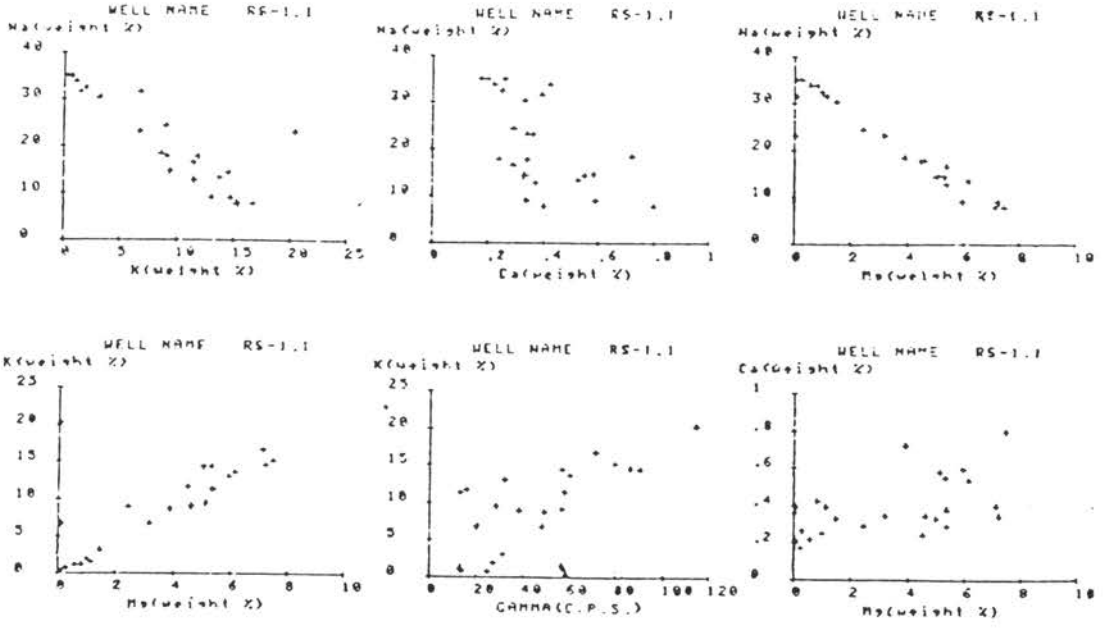
Remarks: chemical analyses are done by Phetlam, P., Geological Survey Division, Thai Department of Mineral Resources; and gamma ray logs are done by Geophysical Survey Division, Thai Department of Mineral Resources.

Appendix 1-F (continued)

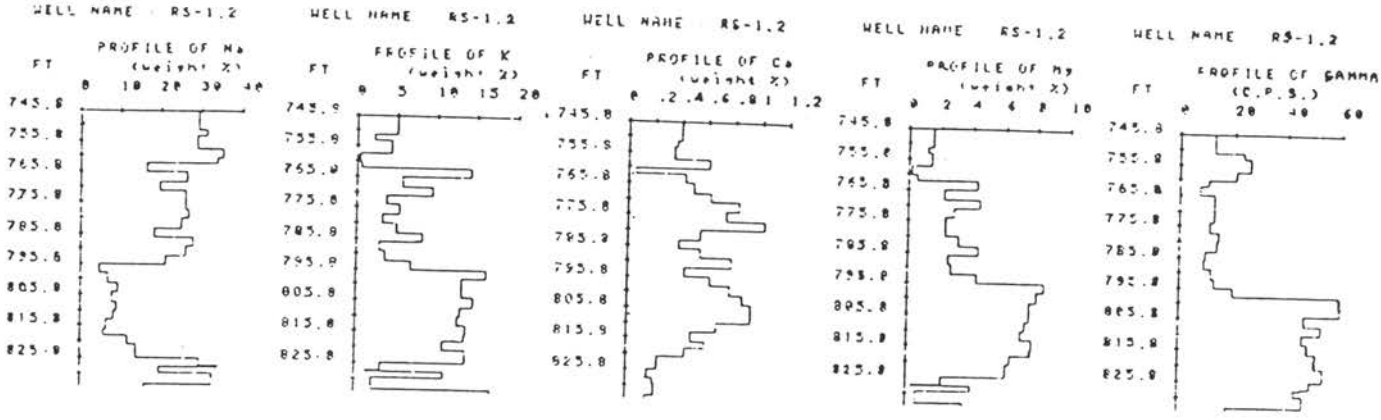


CORRELATION MATRIX OF RS-1.1

	Na	K	Ca	Mg	GAMMA
Na	1.000	.868	-.585	-.860	-.413
K	.868	1.000	-.453	-.722	-.592
Ca	-.585	-.453	1.000	.548	.250
Mg	-.860	-.722	.548	1.000	.294
GAMMA	-.413	-.592	.250	.294	1.000

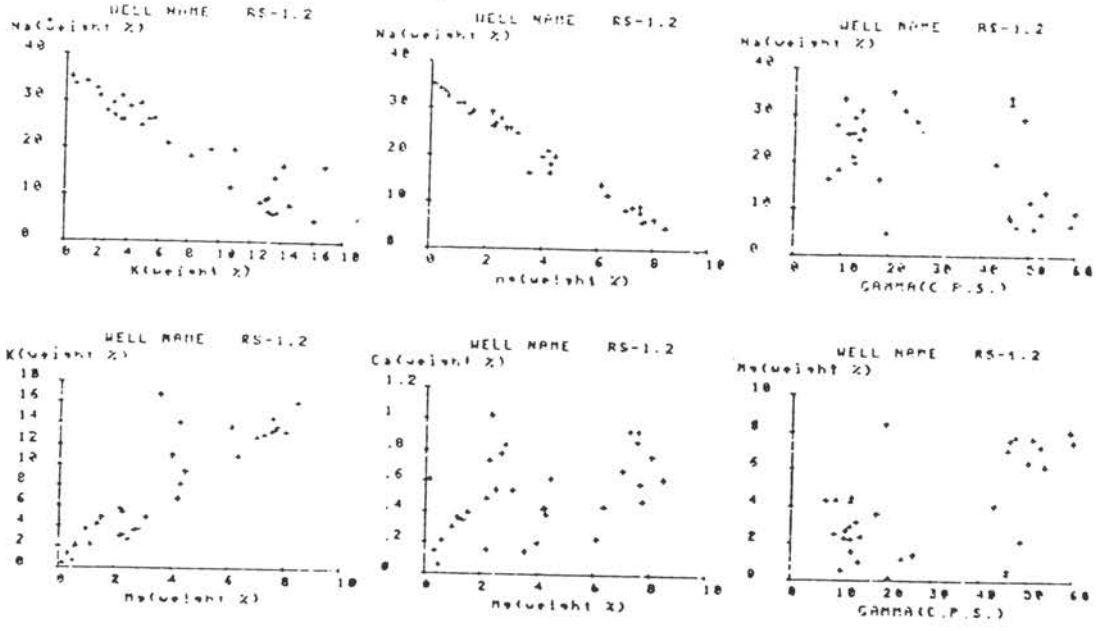


Appendix 1-F (continued)

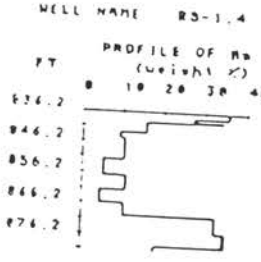


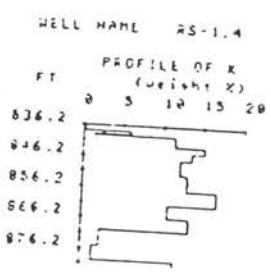
CORRELATION MATRIX OF RS-1.2

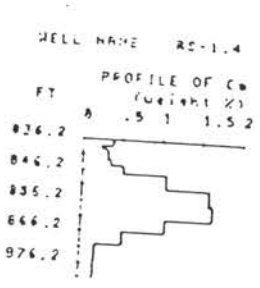
	Na	K	Ca	Mg	GAMMA
1.000	-.935	-.484	-.909	-.512	
0.000	1.000	.223	.886	.479	
0.000	0.000	1.000	.458	.051	
0.000	0.000	0.000	1.000	.546	
0.000	0.000	0.000	0.000	1.000	

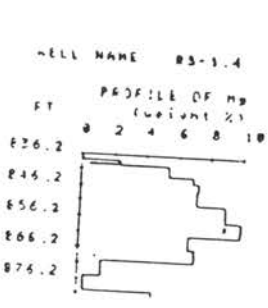


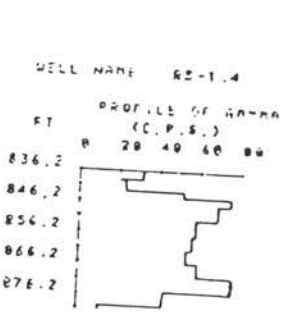
Appendix 1-F (continued)





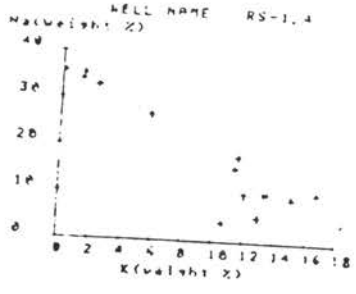


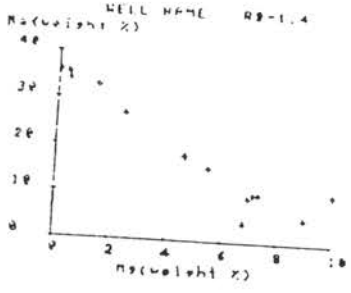


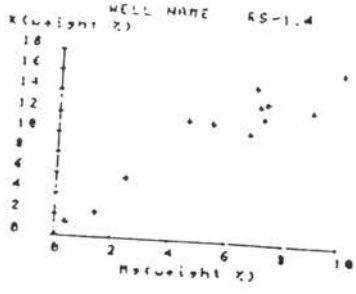


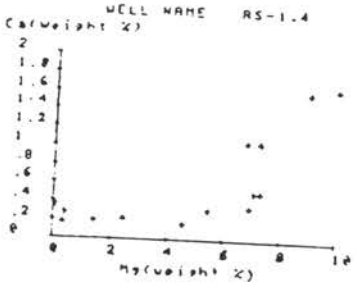
CORRELATION MATRIX OF RS-1.4

	Na	K	Ca	Mg	GAMMA
Na	1.000	.927	.658	.953	.383
K	.927	1.000	.564	.968	.303
Ca	.658	.564	1.000	.755	.414
Mg	.953	.968	.755	1.000	.438
GAMMA	.383	.303	.414	.438	1.000

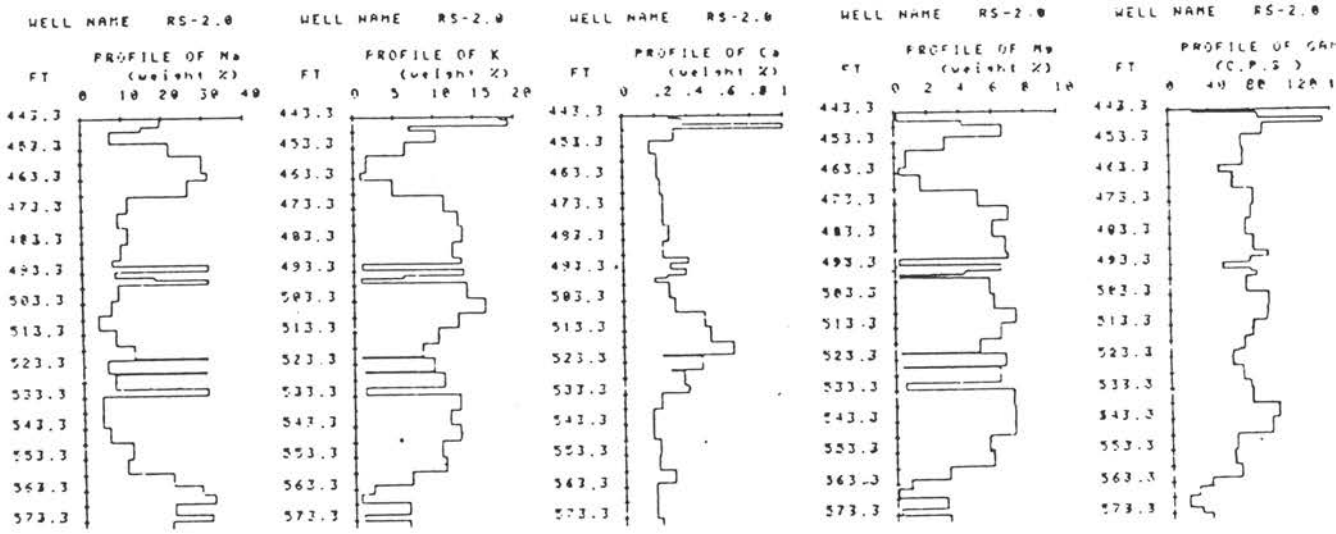






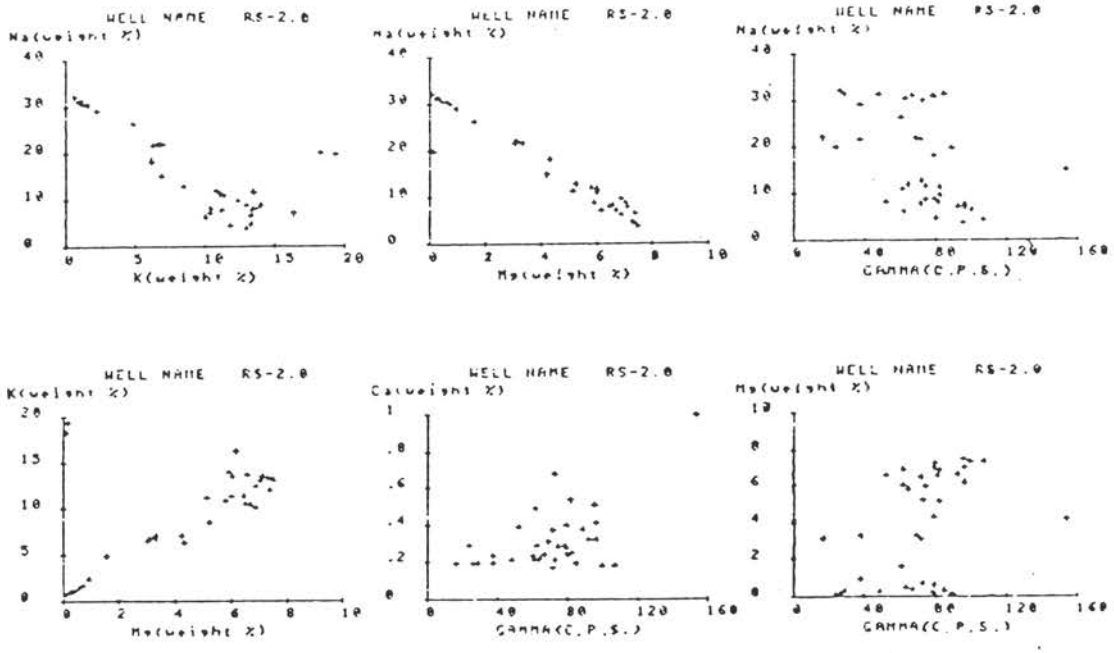


Appendix 1-F (continued)

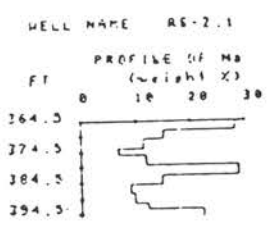


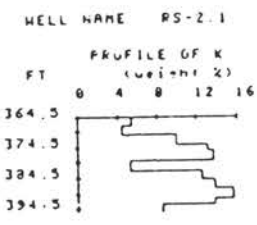
CORRELATION MATRIX OF RS-2.0

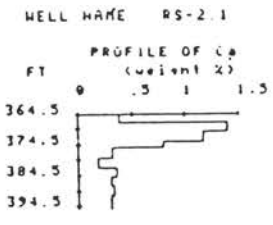
Na	K	Ca	Mg	GAMMA
1.000	-.825	-.289	-.958	-.463
0.000	1.000	.167	.663	.282
0.000	0.000	1.000	.231	.528
0.000	0.000	0.000	1.000	.447
0.000	0.000	0.000	0.000	1.000

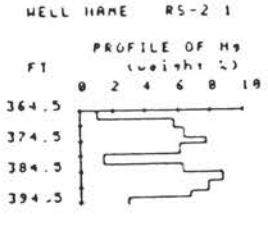


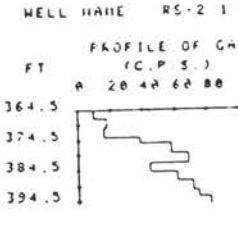
Appendix 1-F (continued)





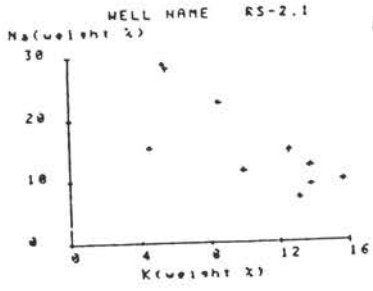


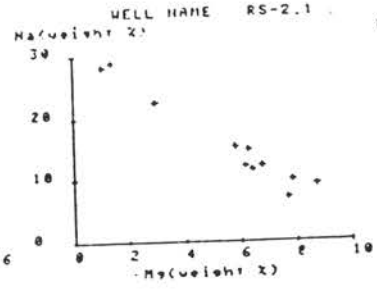


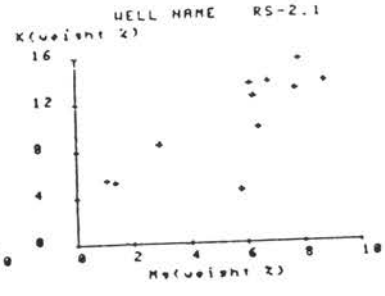


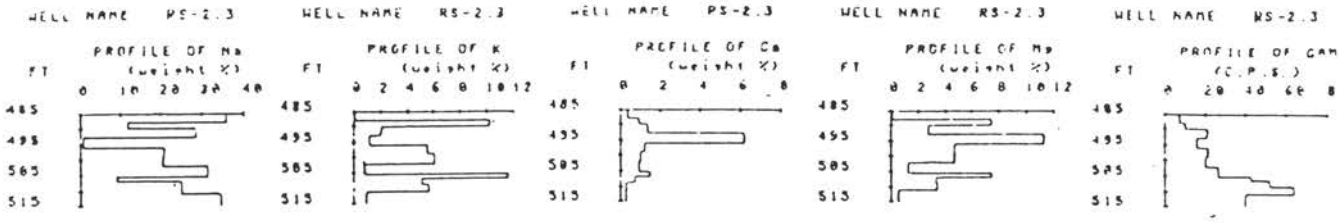
CORRELATION MATRIX OF RS-2.1

Na	K	Ca	Mg	GAMMA
1.000	-.787	-.291	-.580	-.053
0.000	1.000	-.333	.794	.459
0.000	0.000	1.000	.221	-.706
0.000	0.000	0.000	1.000	.116
0.000	0.000	0.000	0.000	1.000



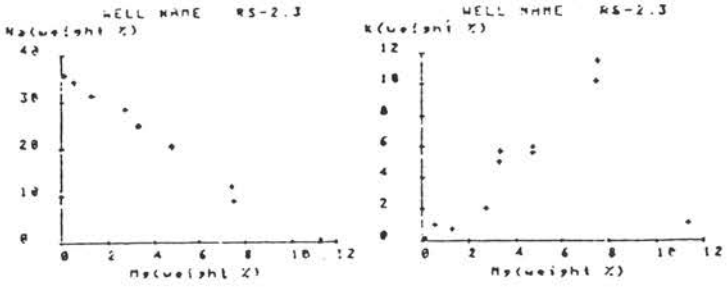


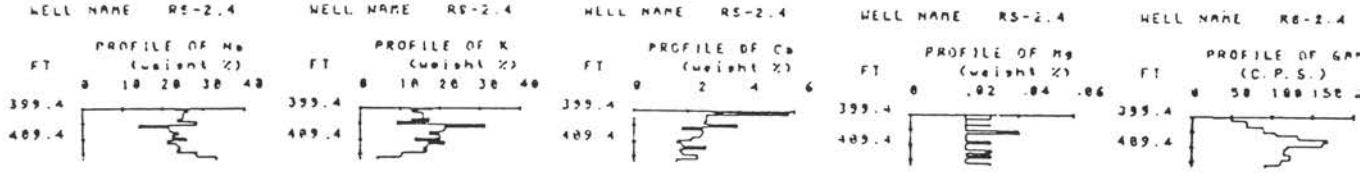




CORRELATION MATRIX OF RS-2.3

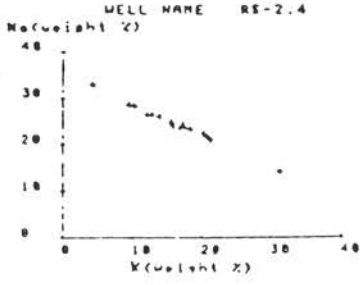
Na	K	Ca	Mg	GAMMA
1.000	-.540	-.734	-.995	.115
0.000	1.000	-.168	.488	.218
0.000	0.000	1.000	.775	-.296
0.000	0.000	0.000	1.000	-.159
0.000	0.000	0.000	0.000	1.000



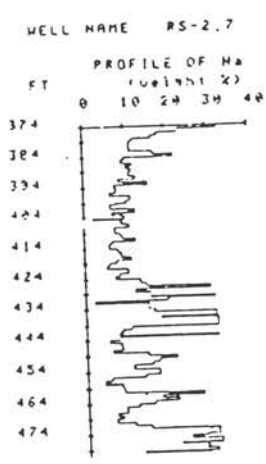


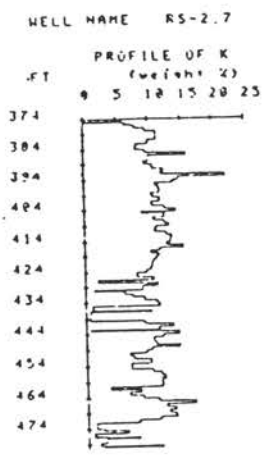
CORELATION MATRIX OF RS-2.4

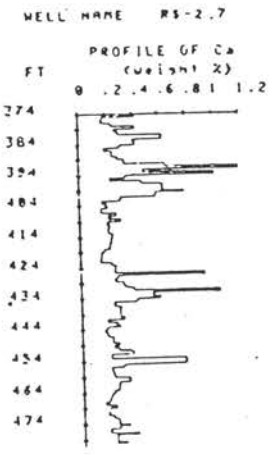
Na	K	Ca	Mg	GAMMA
1.000	-.994	.218	-.332	-.203
0.000	1.000	-.234	.317	.233
0.000	0.000	1.000	.050	-.310
0.000	0.000	0.000	1.000	-.217
0.000	0.000	0.000	0.000	1.000

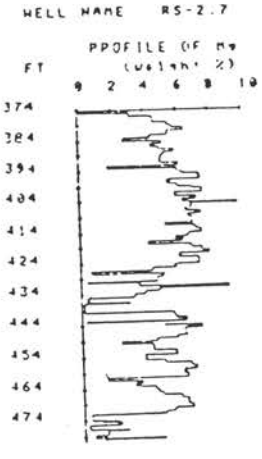


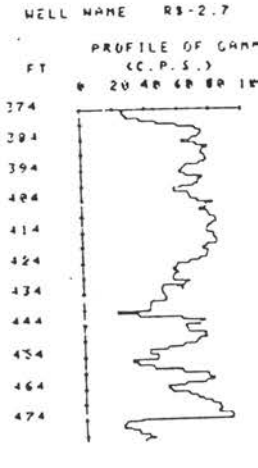
Appendix 1-F (continued)





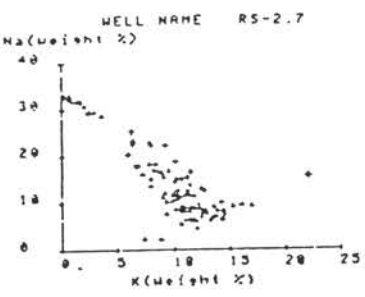


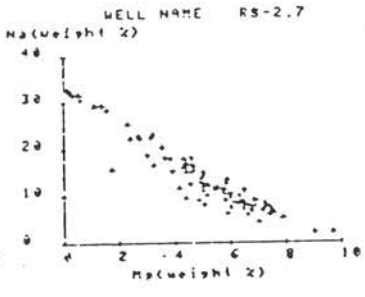


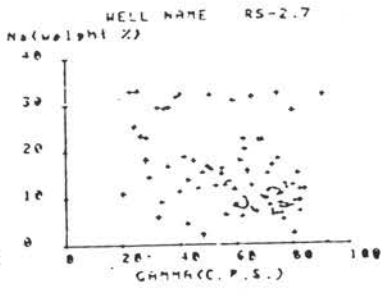


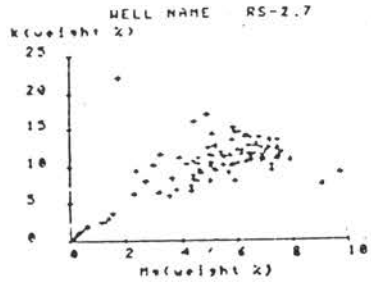
CORRELATION MATRIX OF RS-2.7

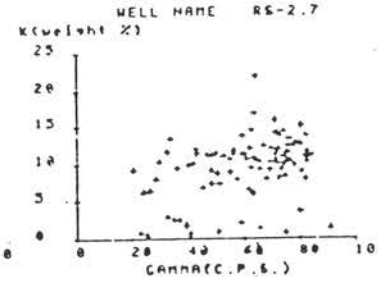
	Na	K	Ca	Mg	GAMMA
	1.000	-.834	-.847	-.961	-.418
	-.834	1.000	.824	.694	.378
	-.847	.882	1.000	.821	-.485
	-.961	.694	.821	1.000	.399
	-.418	.378	-.485	.399	1.000

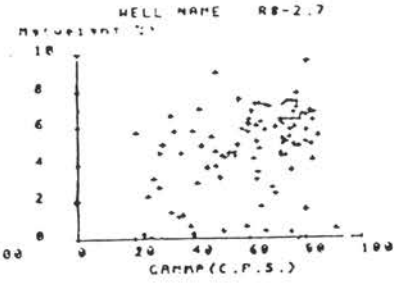


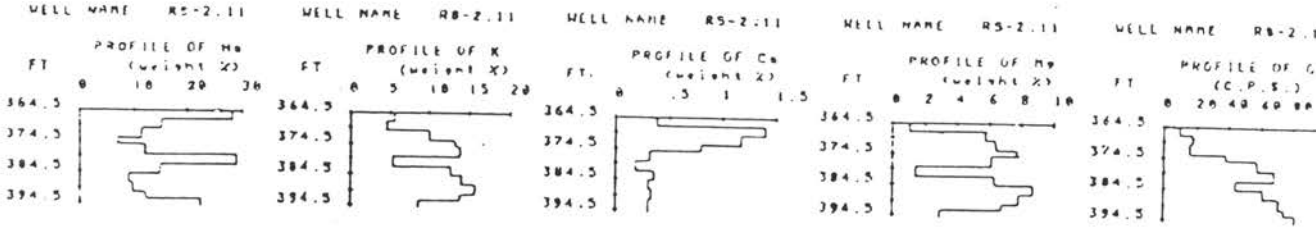






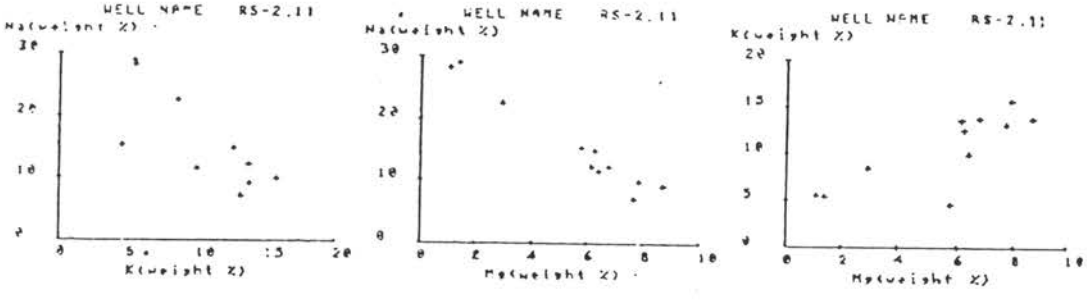


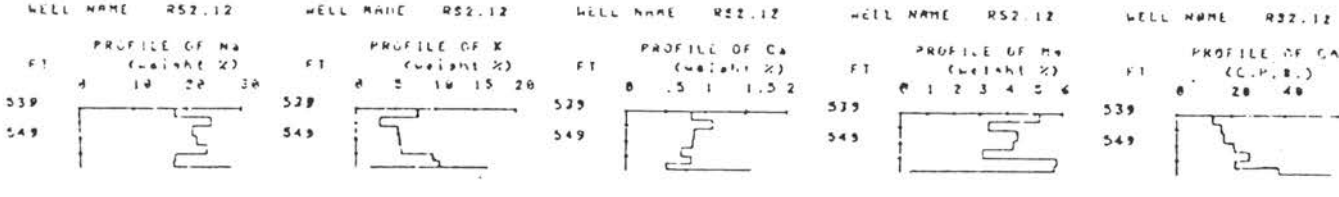




CORRELATION MATRIX OF RS-2.11

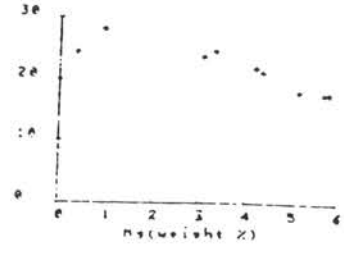
	Na	K	Ca	Mg	GAMMA
	1.000	-.787	-.291	-.988	-.853
	-.787	1.000	-.333	.794	.459
	-.291	-.333	1.000	.221	-.796
	-.988	.794	.221	1.000	.716
	-.853	.459	-.796	-.716	1.000

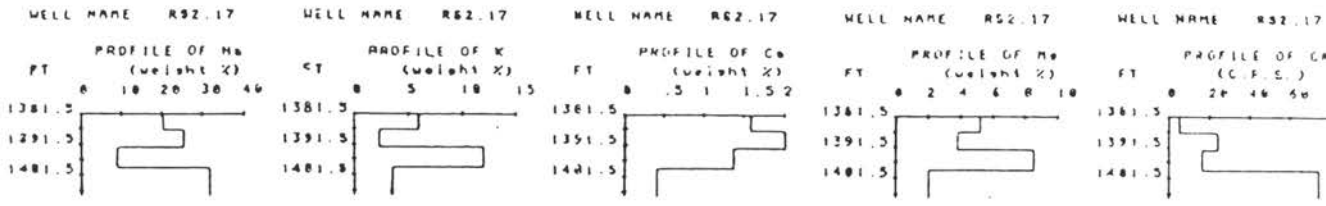




CORRELATION MATRIX OF RS2.12

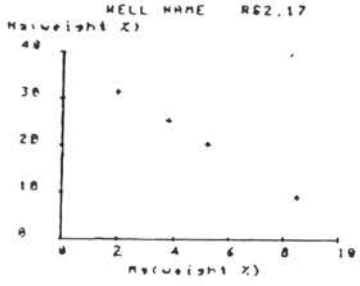
	Na	K	Ca	Mg	GAMMA
	1.000	-.377	.733	-.891	.475
	-.377	1.000	-.626	.038	.453
	.733	-.626	1.000	-.327	.191
	-.891	.038	-.327	1.000	-.726
	.475	.453	.191	-.726	1.000

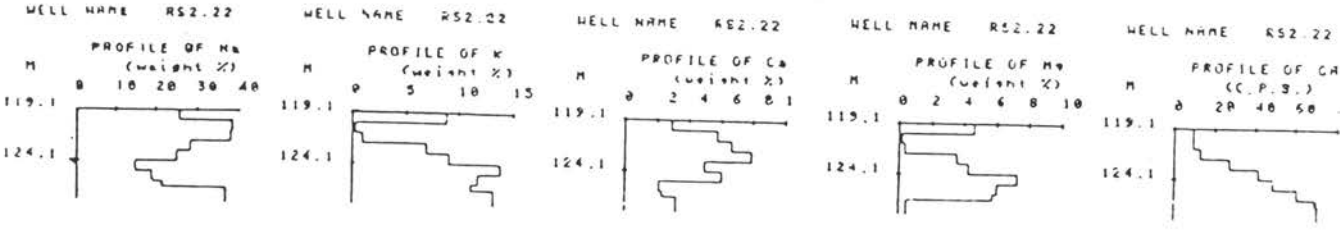




CORRELATION MATRIX OF RS2.17

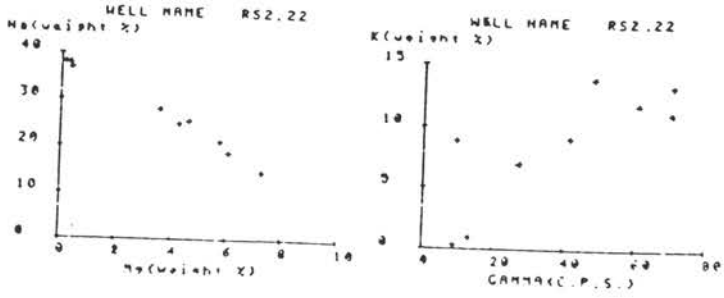
	Na	K	Ca	Mg	GAMMA
	1.000	-.923	-.393	-1.000	.715
	-.923	1.000	.616	.923	-.435
	-.393	.616	1.000	.393	-.833
	-1.000	.923	.393	1.000	-.715
	.715	-.435	-.833	-.715	1.000



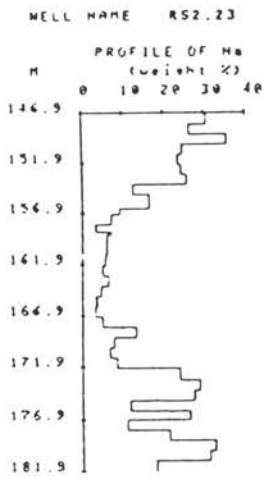


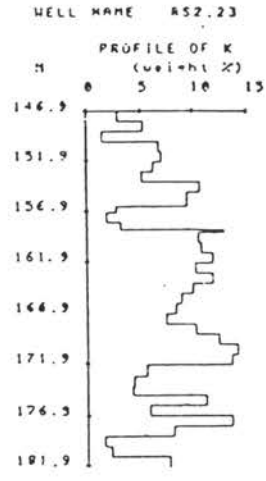
CORELATION MATRIX OF RS2.22

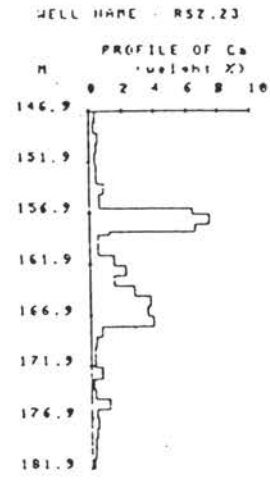
	Na	K	Ca	Mg	GAMMA
	1.000	-.693	.298	-.996	-.424
	-.693	1.000	-.536	.672	.003
	.298	-.536	1.000	-.310	-.554
	-.996	.672	.310	1.000	.389
	-.424	.003	-.554	-.389	1.000

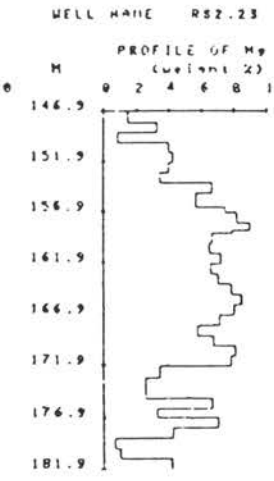


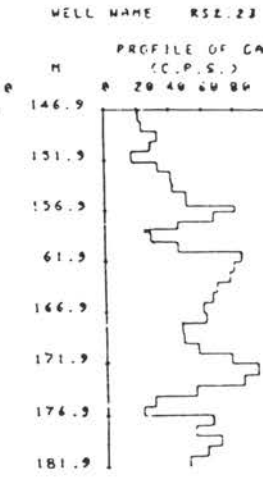
Appendix 1-F (continued)





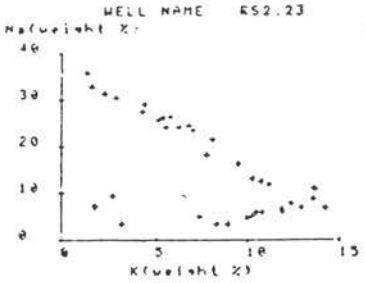


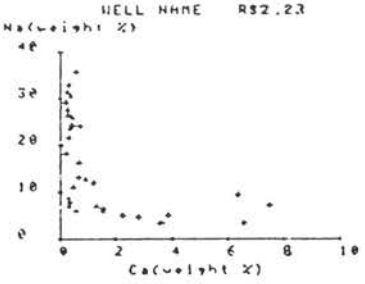


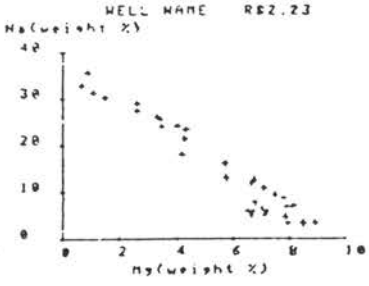


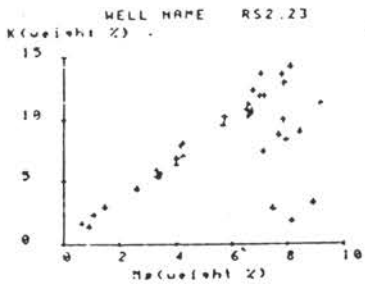
CORRELATION MATRIX OF RS2.23

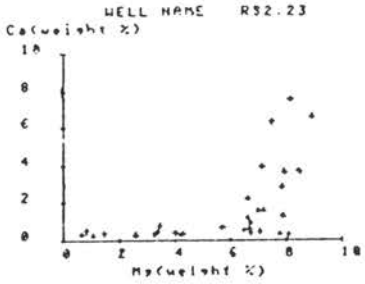
Na	K	Ca	Mg	GAMMA
1.000	-.641	-.538	-.970	-.284
0.000	1.000	-.259	.628	.059
0.000	0.000	1.000	.574	.305
0.000	0.000	0.000	1.000	.234
0.000	0.000	0.000	0.000	1.000

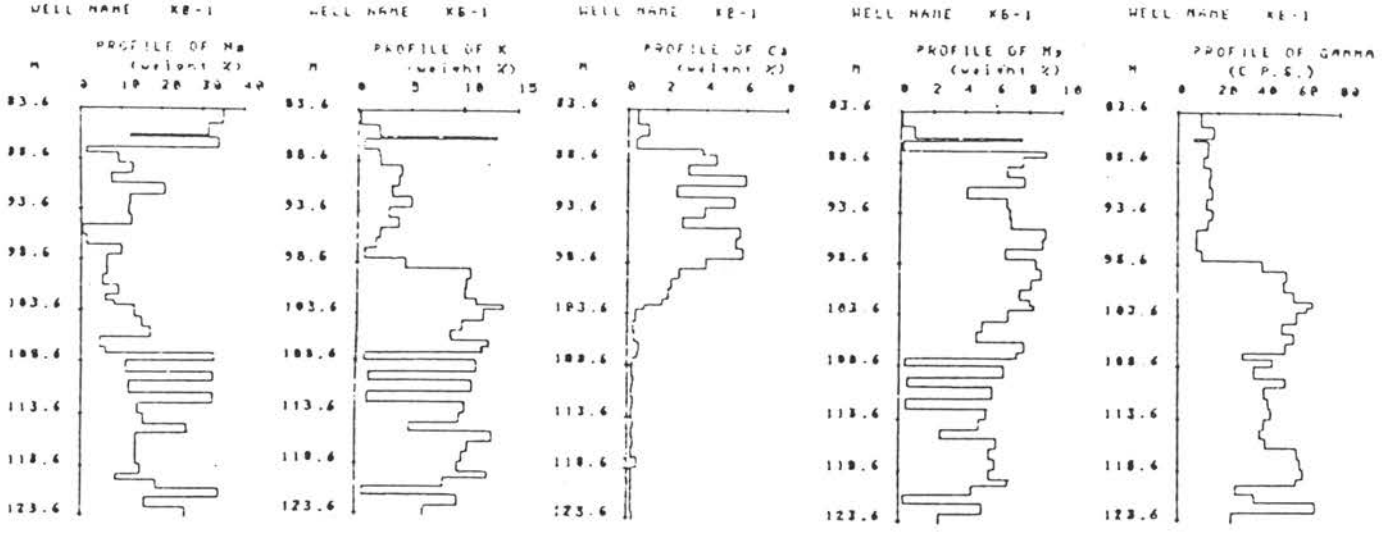






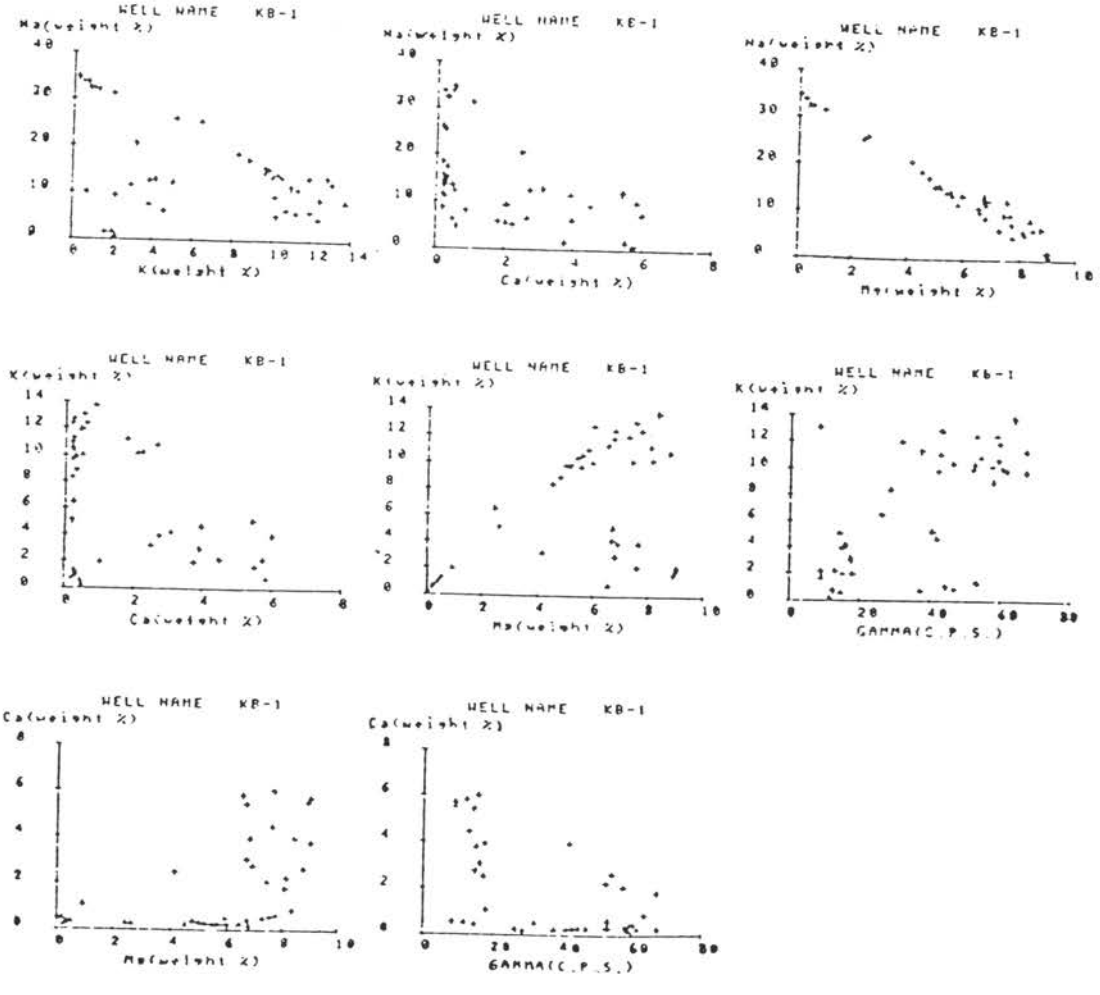


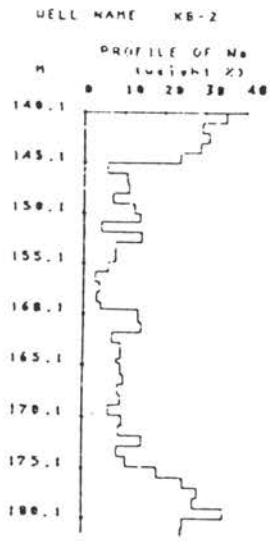


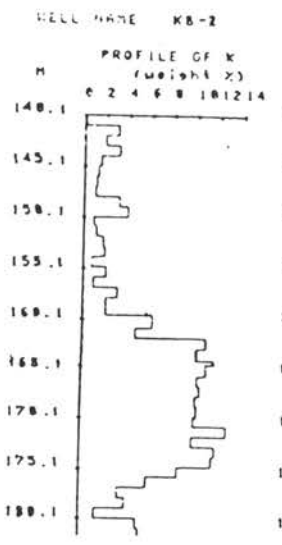


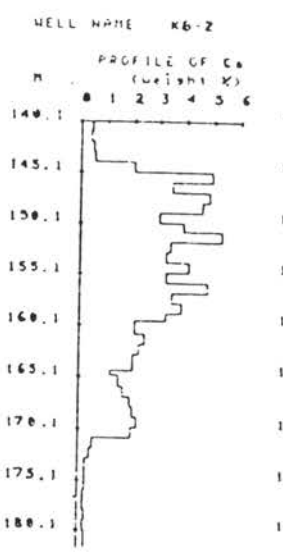
CORRELATION MATRIX OF KB-1

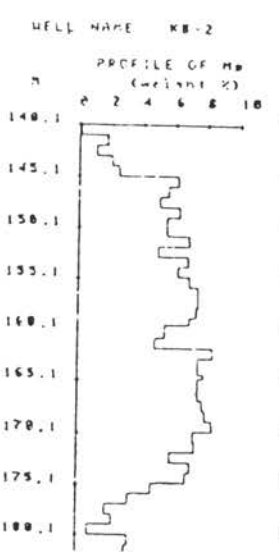
Na	K	Ca	Mg	GAMMA
1.000	-.458	-.529	-.986	-.838
0.000	1.000	-.451	.456	.630
0.000	0.000	1.000	.529	-.579
0.000	0.000	0.000	1.000	.815
0.000	0.000	0.000	0.000	1.000

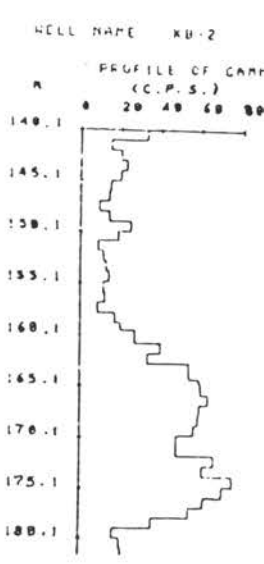






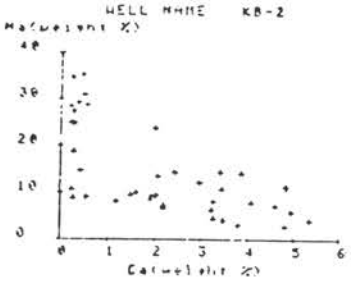


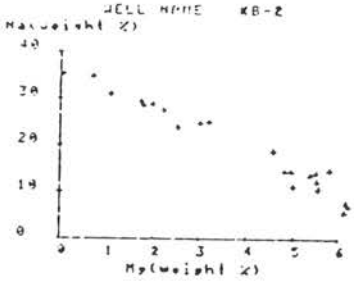


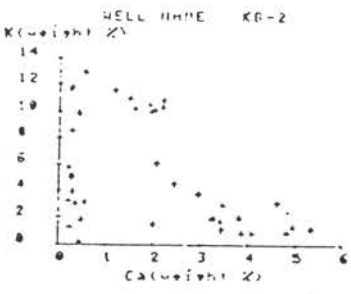


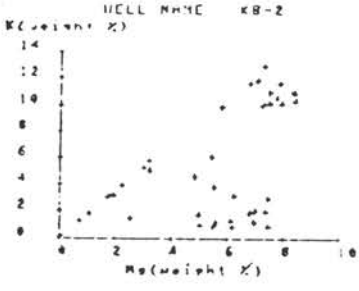
CORRELATION MATRIX OF KB-2

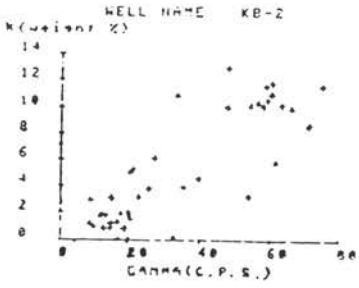
Na	K	Ca	Mg	GAMMA
1.000	-.231	-.679	-.957	-.815
.231	1.000	-.472	.487	.849
.679	.472	1.000	.487	-.508
.957	.487	.508	1.000	.231
.815	.849	.508	.231	1.000

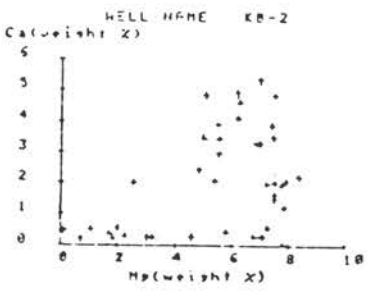


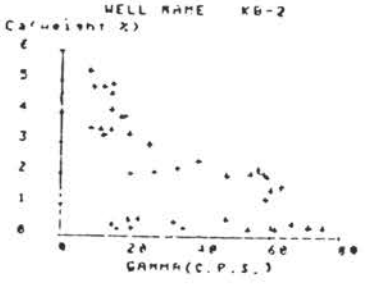




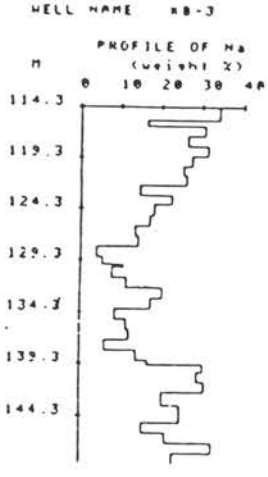


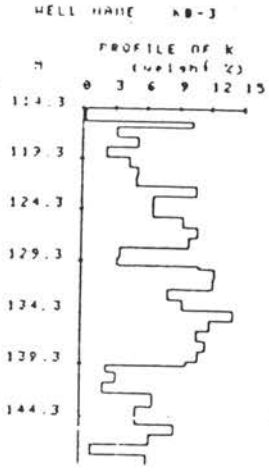


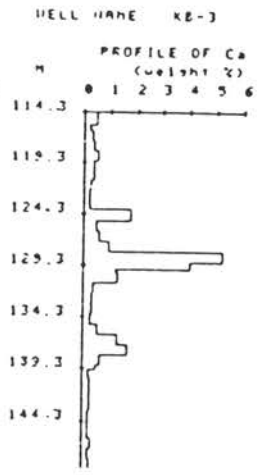


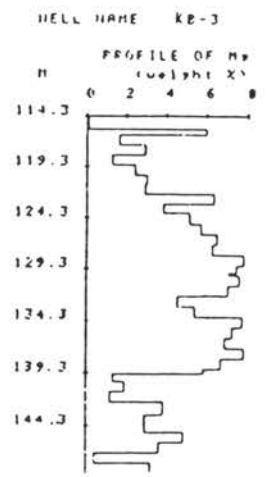


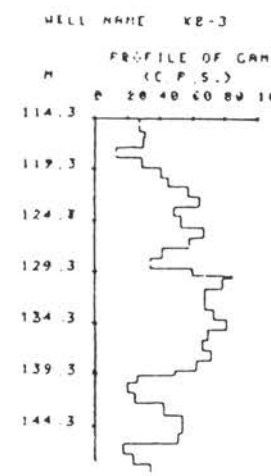
Appendix 1-F (continued)





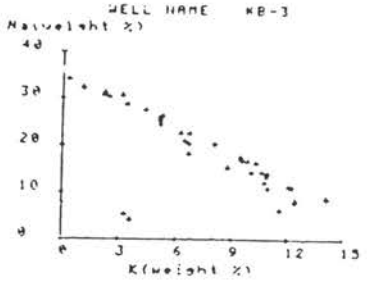


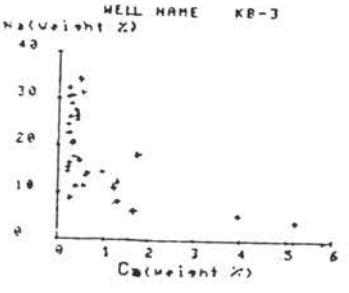


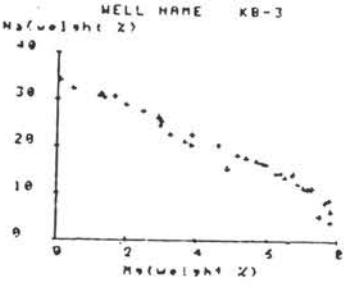


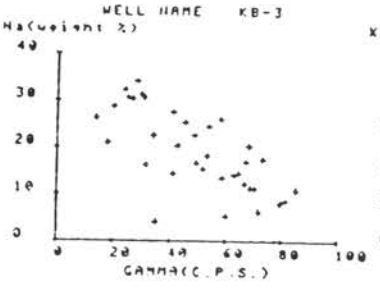
CORRELATION MATRIX OF KB-3

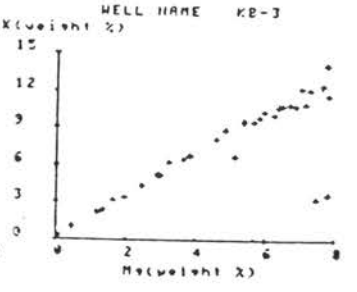
	Na	K	Ca	Mg	GAMMA
Na	1.000	-.782	-.578	-.963	-.699
K	-.782	1.000	-.982	.832	.762
Ca	-.578	-.982	1.000	.472	.122
Mg	-.963	.832	.472	1.000	.745
GAMMA	-.699	.762	.122	.745	1.000

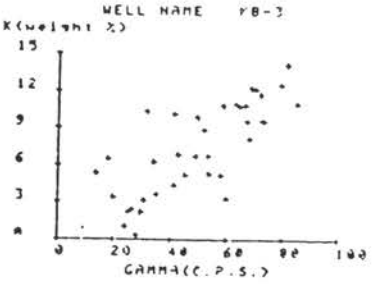


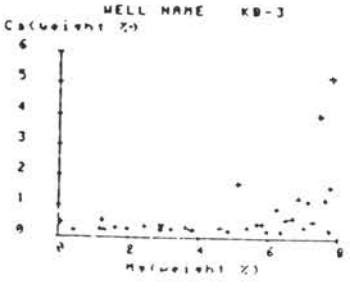


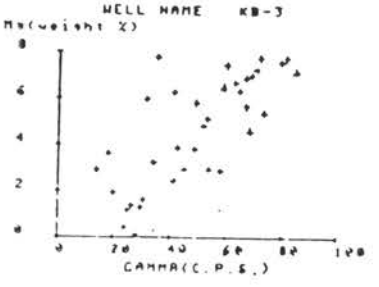


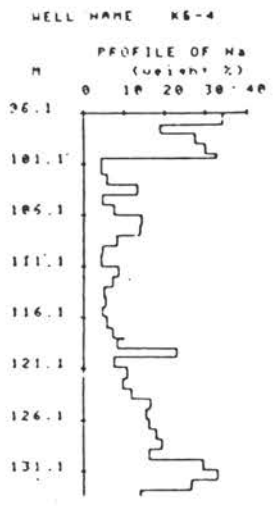


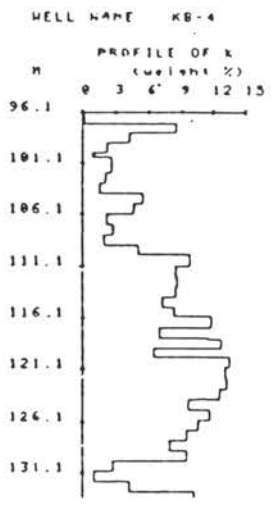


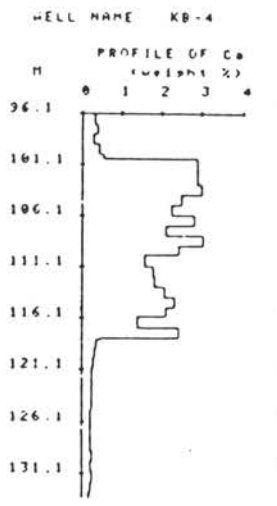


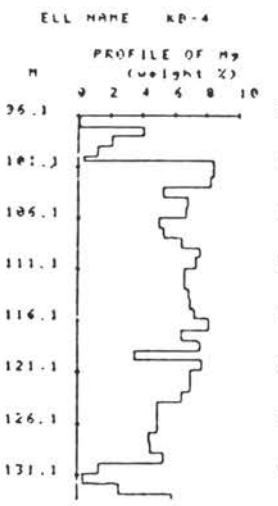


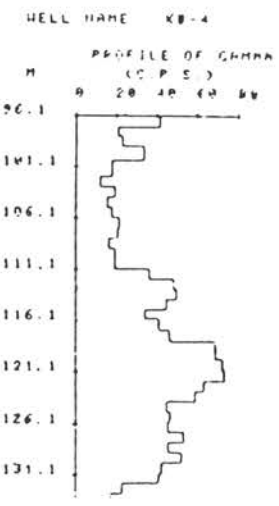






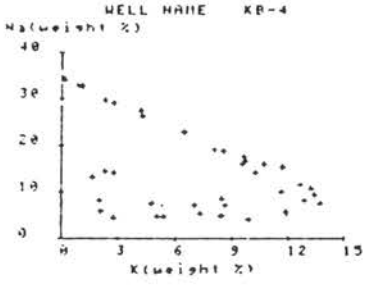


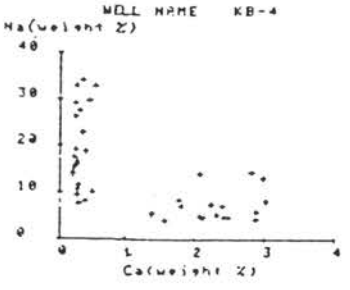


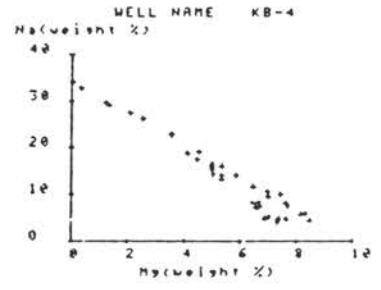


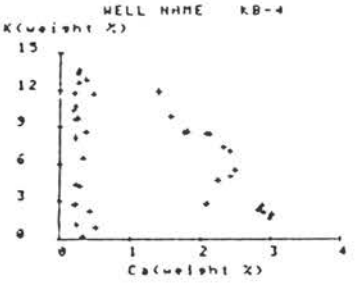
CORRELATION MATRIX OF KB-4

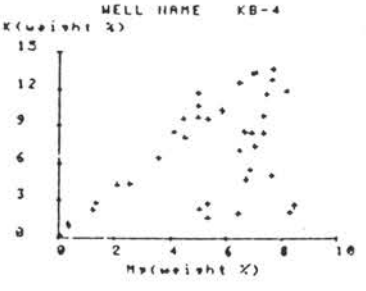
Na	K	Ca	Mg	GAMMA
1.000	-.451	-.603	-.978	.036
0.000	1.000	-.416	.527	.636
0.000	0.000	1.000	.499	-.563
0.000	0.000	0.000	1.000	.039
0.000	0.000	0.000	0.000	1.000

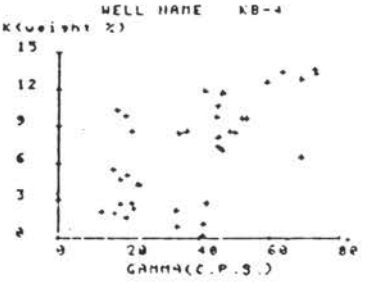


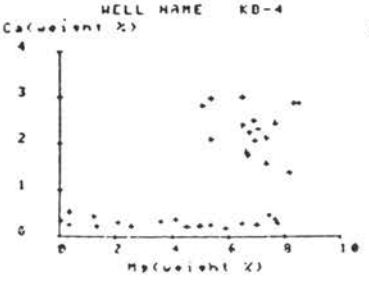


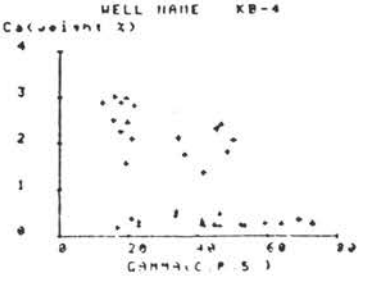




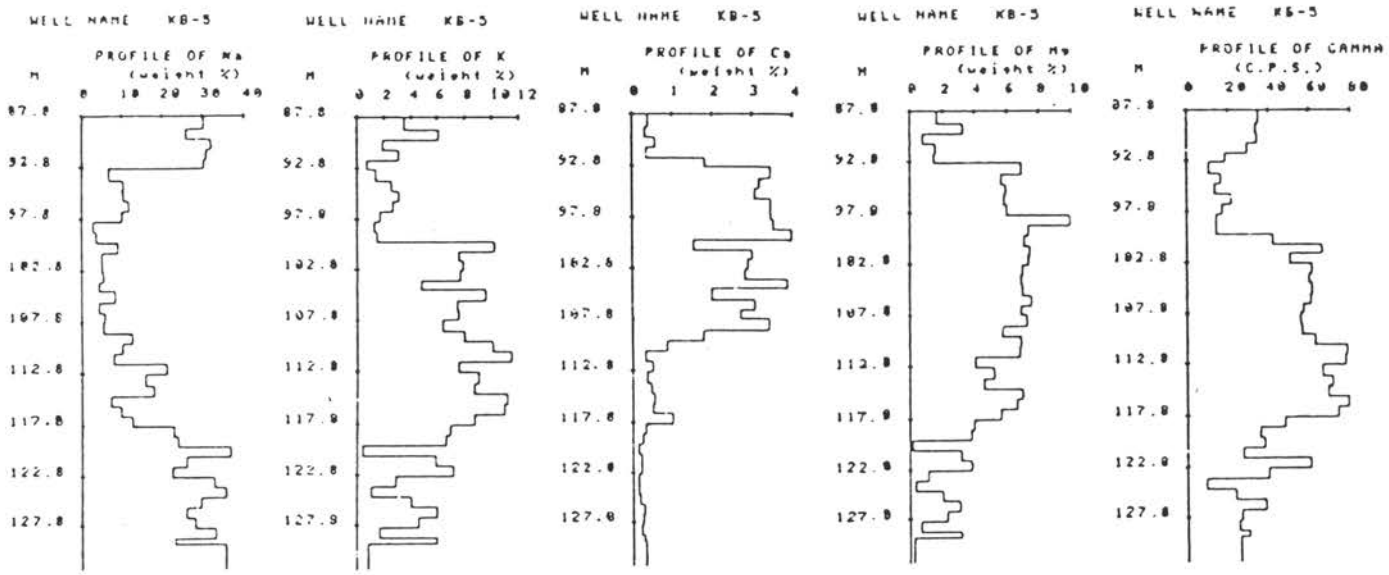






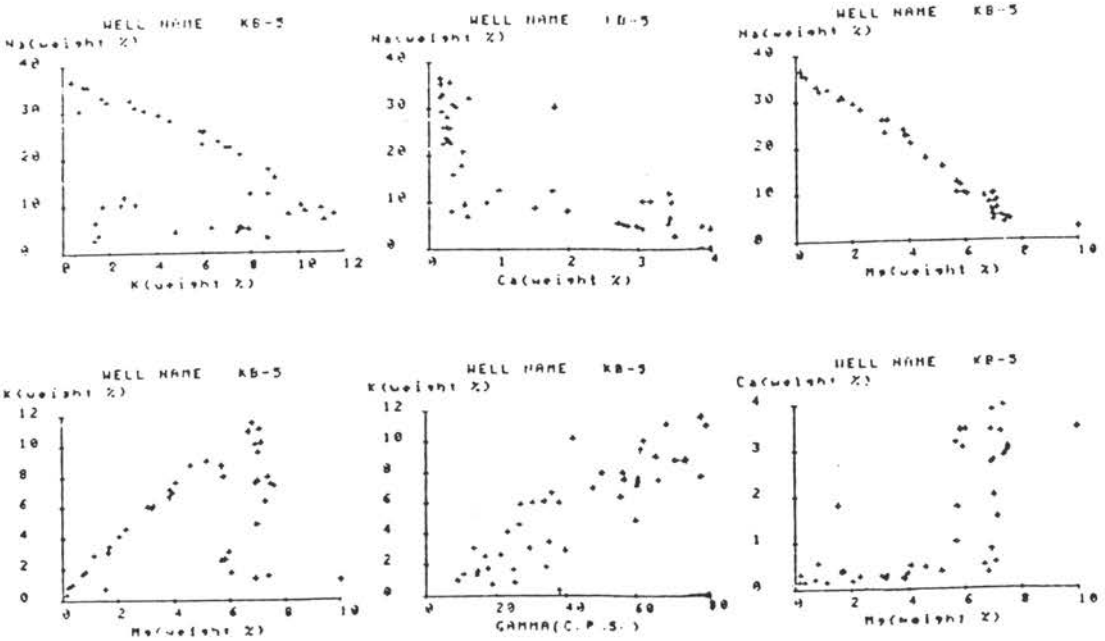


Appendix 1-F (continued)

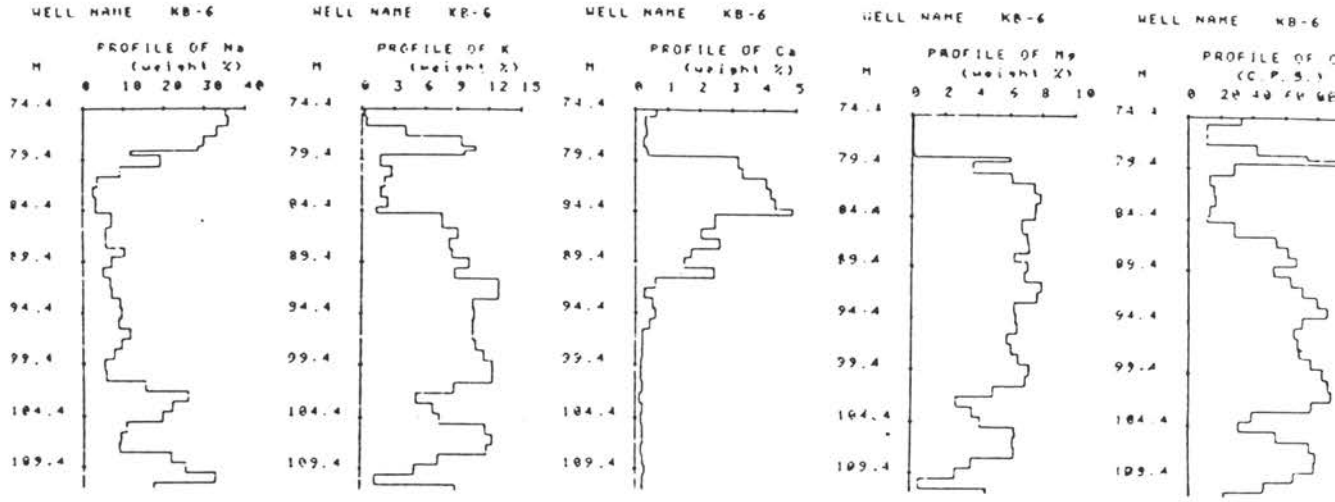


CORRELATION MATRIX OF KB-5

	Na	K	Ca	Mg	GAMMA
	1.000	-.464	-.758	-.986	-.360
	0.000	1.000	-.173	.493	.850
	0.000	0.000	1.000	.706	-.161
	0.000	0.000	0.000	1.000	.360
	0.000	0.000	0.000	0.000	1.000

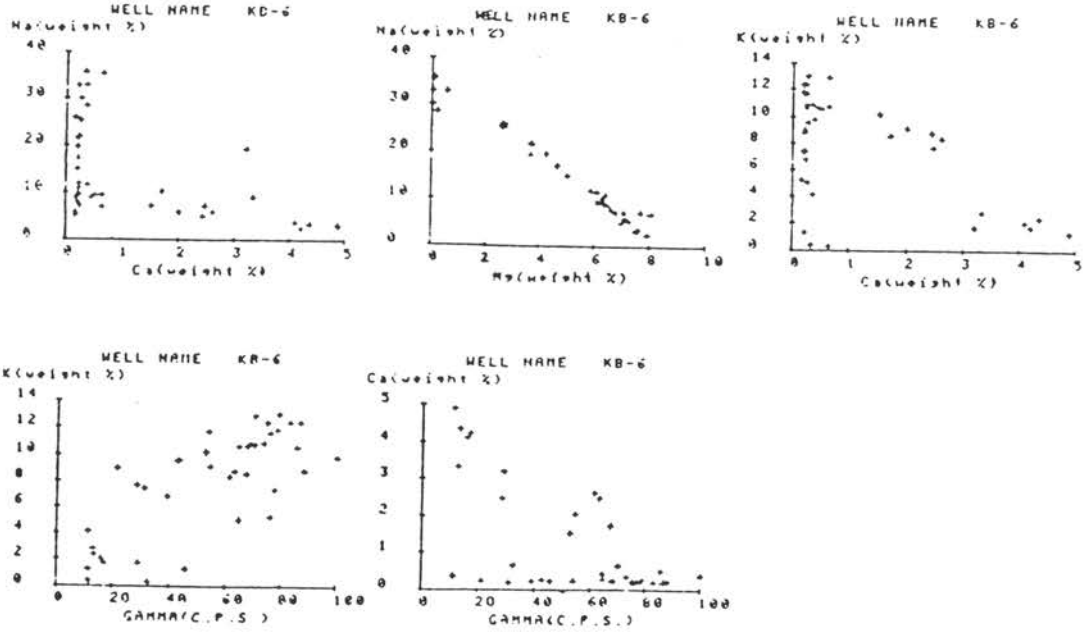


Appendix 1-F (continued)

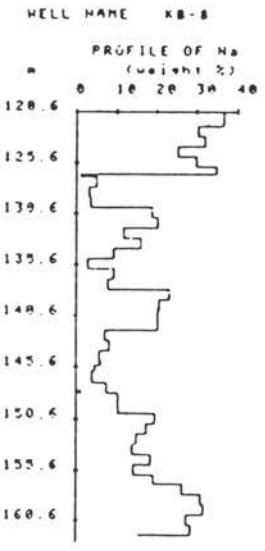


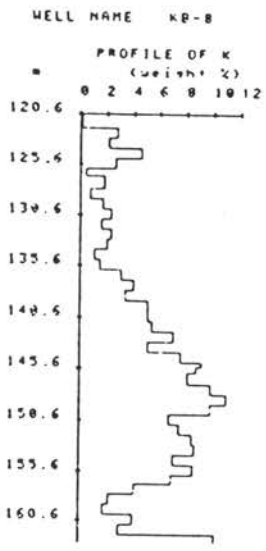
CORRELATION MATRIX OF KB-6

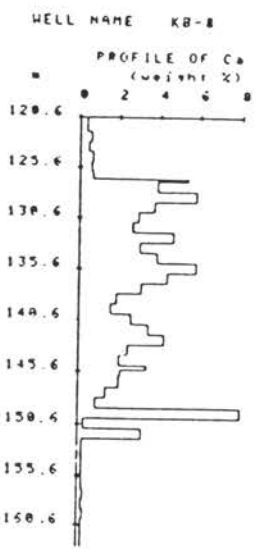
Na	K	Ca	Mg	GAMMA
1.000	-.288	-.471	-.985	-.186
6.000	1.000	-.546	.397	.762
0.000	0.000	1.000	.489	-.590
0.000	0.000	0.000	1.000	.213
0.000	0.000	0.000	0.000	1.000

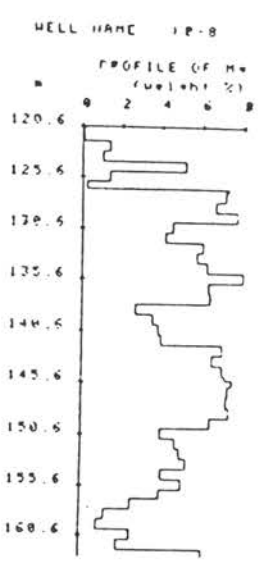


Appendix 1-F (continued)



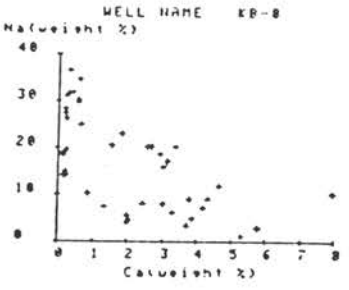


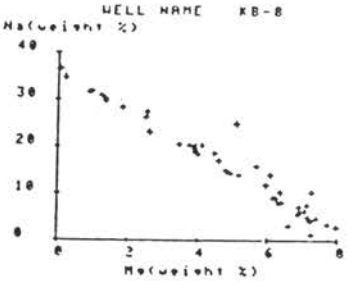


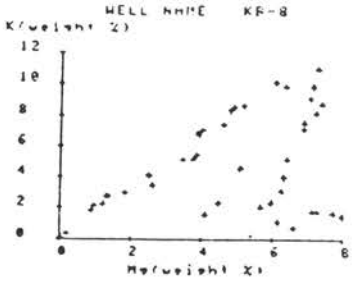


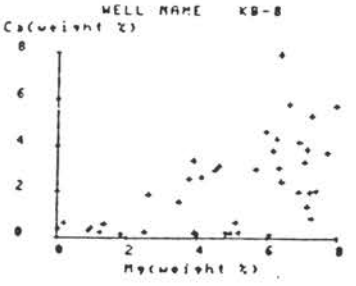
CORRELATION MATRIX OF KB-8

Na	K	Ca	Mg	GAMMA
1.000	-.337	-.646	-.972	
0.000	1.000	-.154	.336	
0.000	0.000	1.000	.609	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	

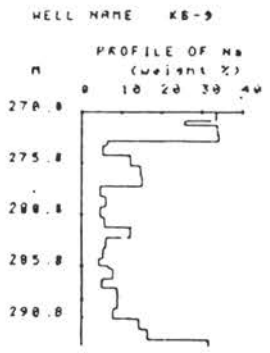


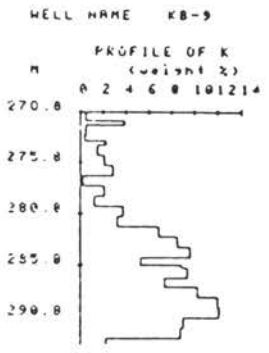


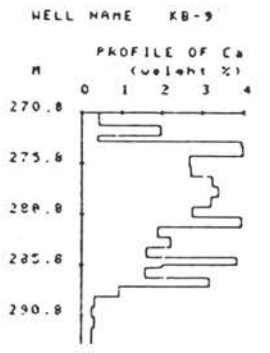


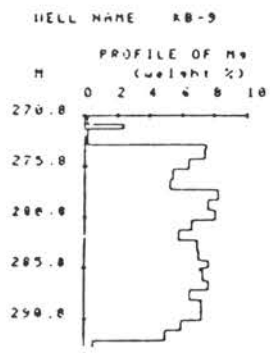


Appendix 1-F (continued)



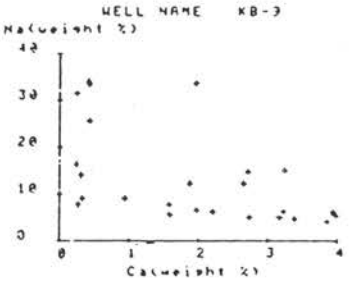


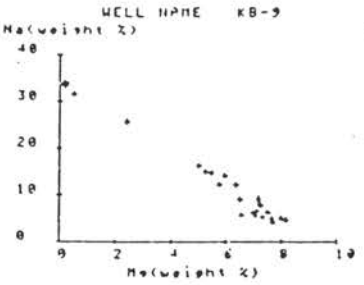


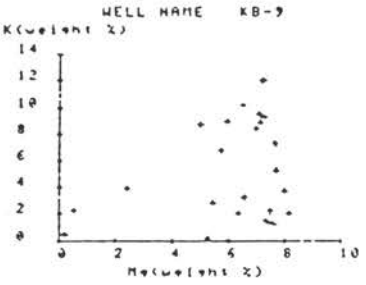


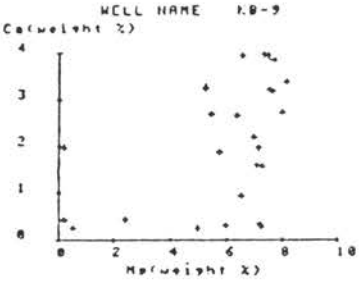
CORRELATION MATRIX OF KB-9

Na	K	Ca	Mg	GAMMA
1.000	-.442	-.564	-.991	
0.000	1.000	-.421	.433	
0.000	0.000	1.000	.526	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	

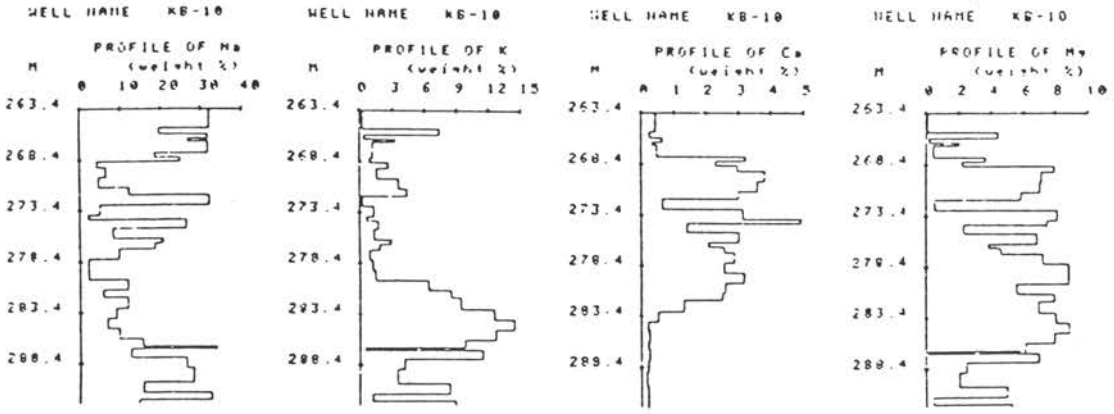






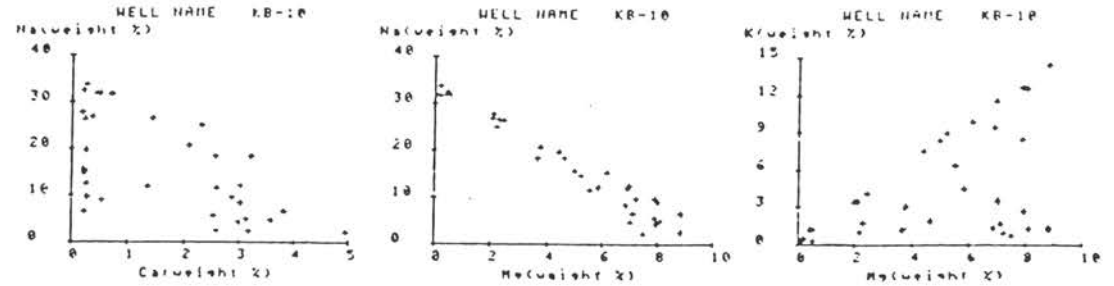


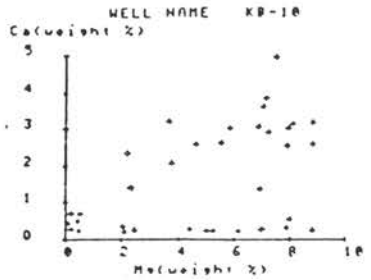
Appendix 1-F (continued)



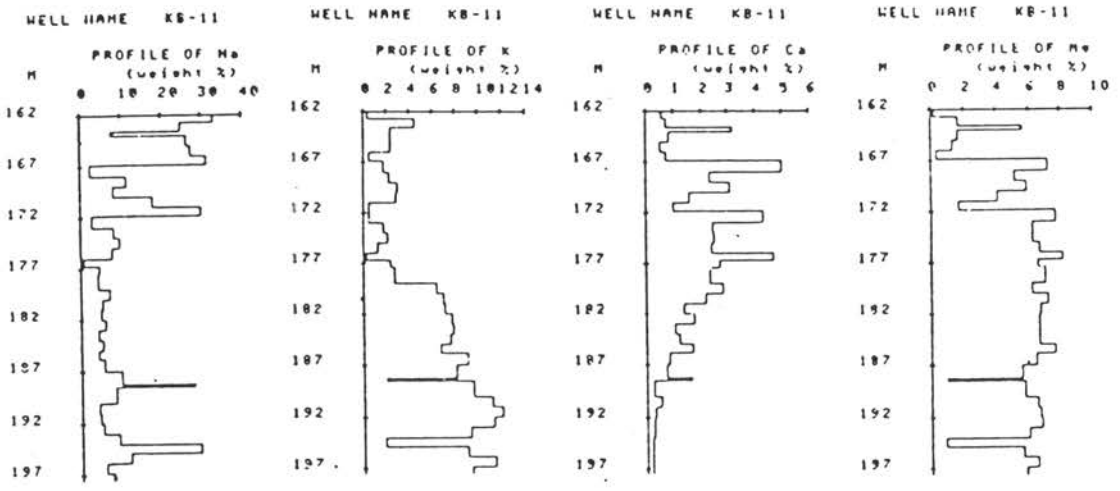
CORRELATION MATRIX OF KB-10

Na	K	Ca	Mg	GAMMA
1.000	-.334	-.619	-.979	
0.000	1.000	-.432	.463	
0.000	0.000	1.000	.483	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	



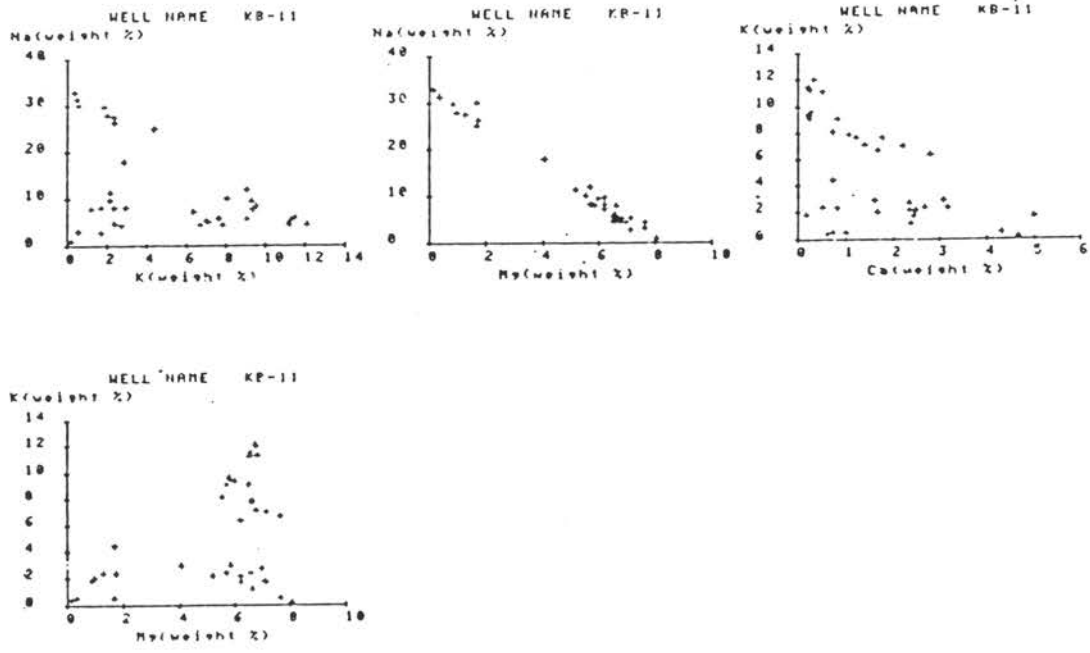


Appendix 1-F (continued)

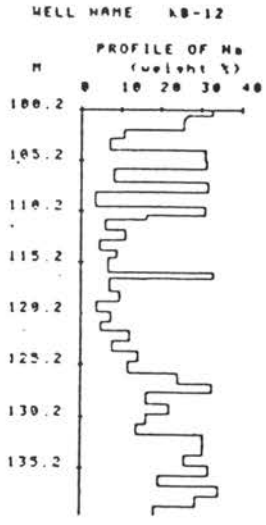


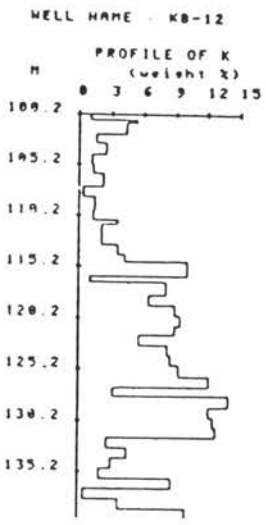
CORRELATION MATRIX OF KB-11

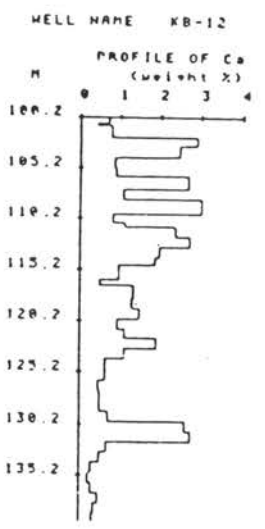
Na	K	Ca	Mg	GAMMA
1.000	-.456	-.403	-.991	
0.000	1.000	-.564	.426	
0.000	0.000	1.000	.414	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	

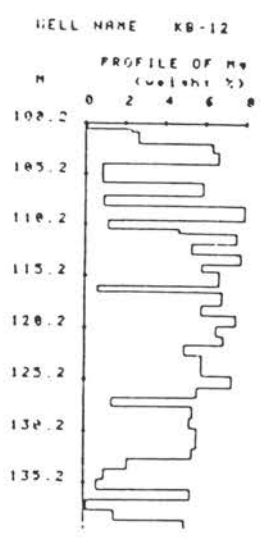


Appendix 1-F (continued)



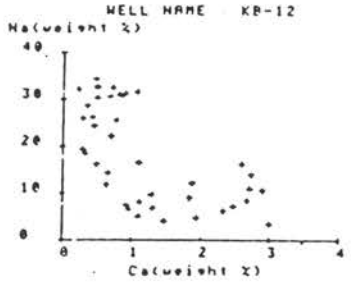


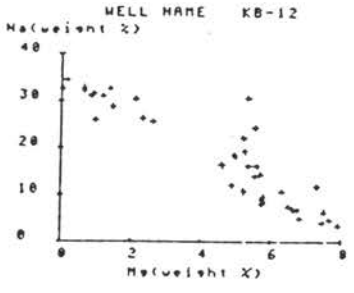


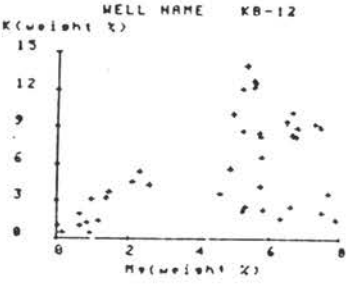


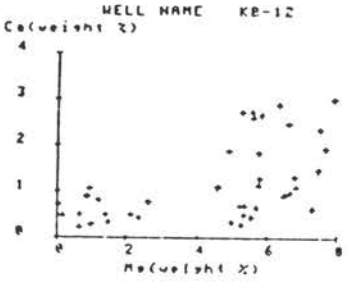
CORRELATION MATRIX OF KB-12

Na	K	Ca	Mg	GAMMA
1.000	-.377	-.638	-.919	
0.000	1.000	-.095	.500	
0.000	0.000	1.000	.550	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	

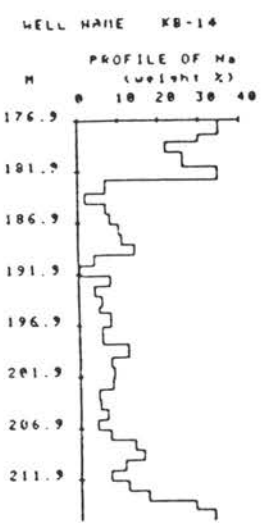


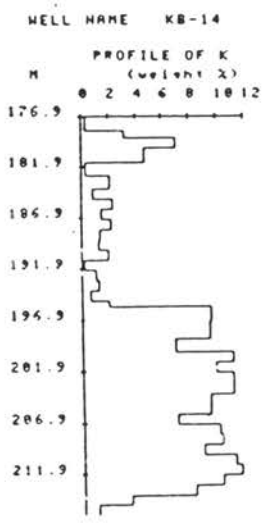


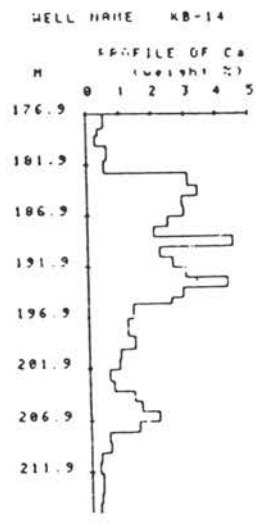


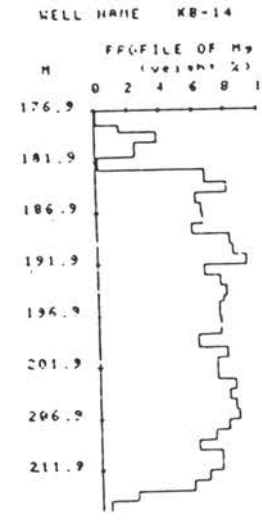


Appendix 1-F (continued)



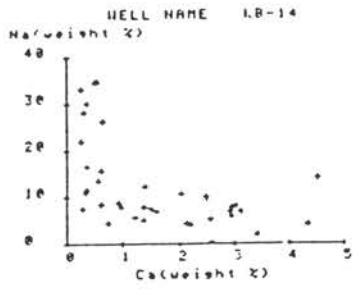


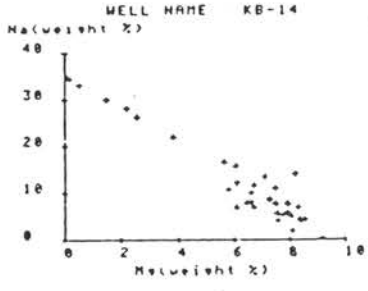


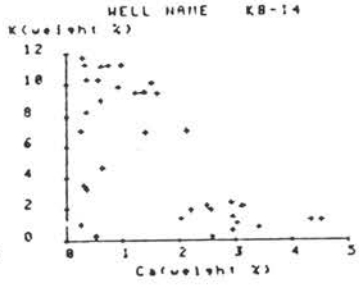


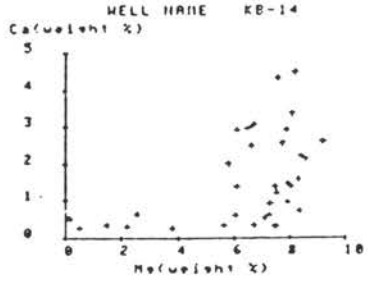
CORRELATION MATRIX OF KB-14

Na	K	Ca	Mg	GAMMA
1.000	-.227	-.546	-.961	
0.000	1.000	-.576	.346	
0.000	0.000	1.000	.475	
0.000	0.000	0.000	1.000	
0.000	0.000	0.000	0.000	

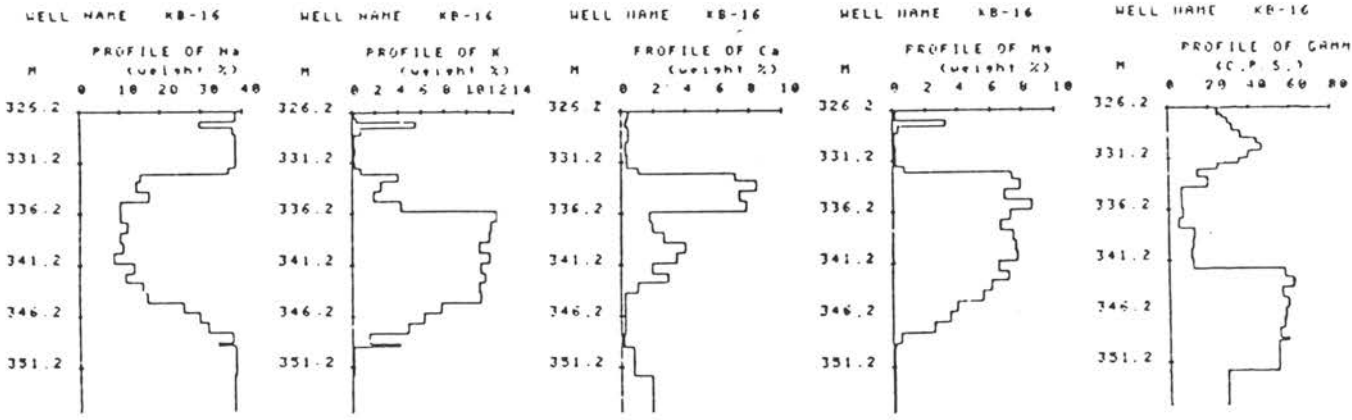






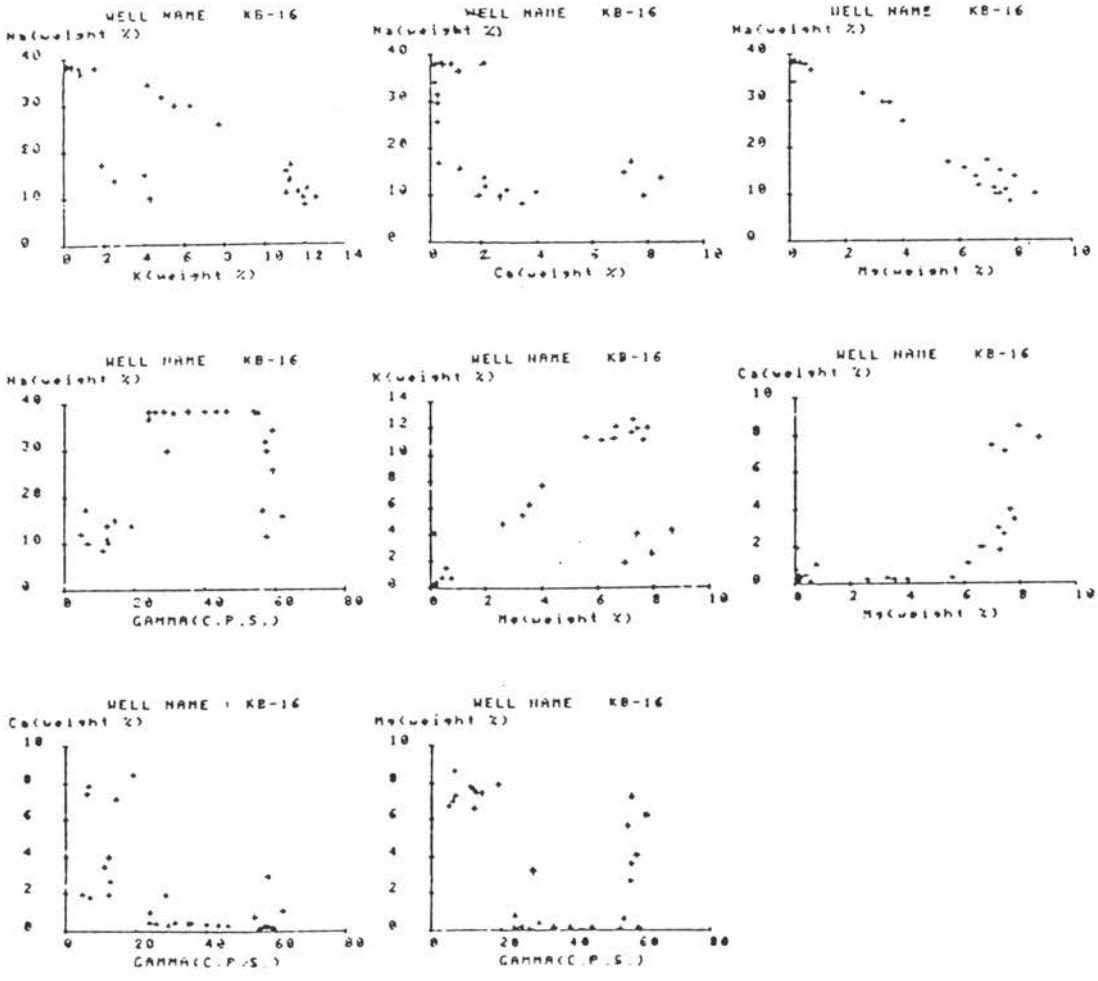


Appendix 1-F (continued)

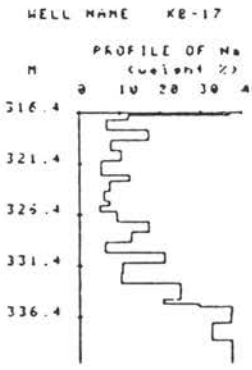


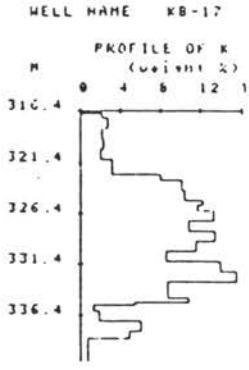
CORRELATION MATRIX OF KB-16

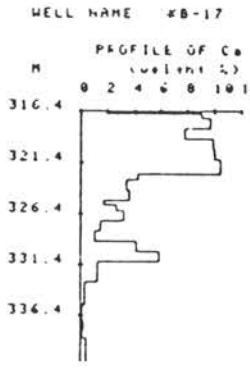
Na	K	Ca	Mg	GAMMA
1.000	-.837	-.640	-.586	.470
0.000	1.000	.125	.772	-.156
0.000	0.000	1.000	.718	-.603
0.000	0.000	0.000	1.000	-.475
0.000	0.000	0.000	0.000	1.000

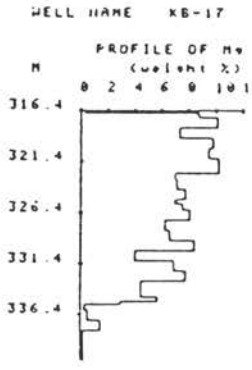


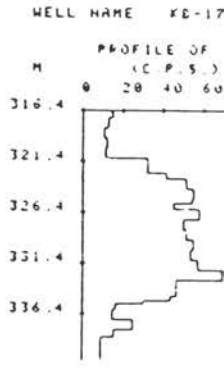
Appendix 1-F (continued)





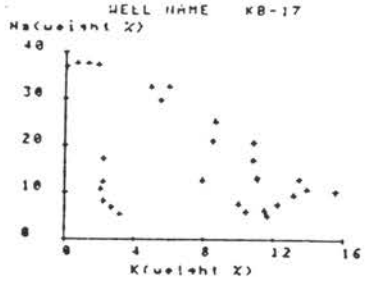


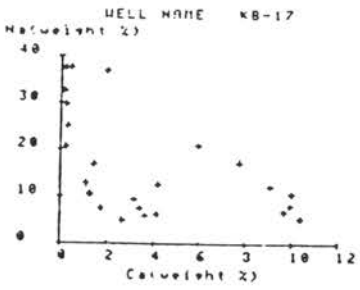


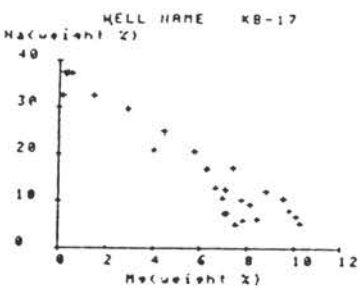


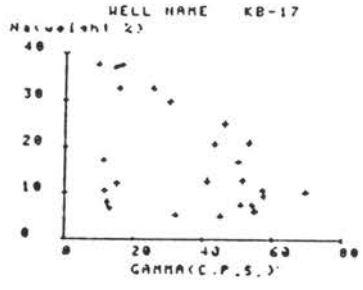
CORRELATION MATRIX OF KB-17

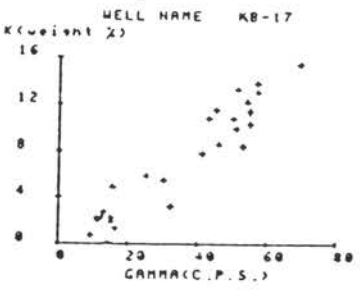
Na	K	Ca	Mg	GAMMA
1.000	-.508	-.568	-.953	-.497
0.000	1.000	-.362	.326	.952
0.000	0.000	1.000	.712	-.308
0.000	0.000	0.000	1.000	.317
0.000	0.000	0.000	0.000	1.000

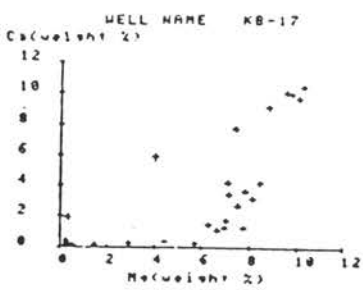




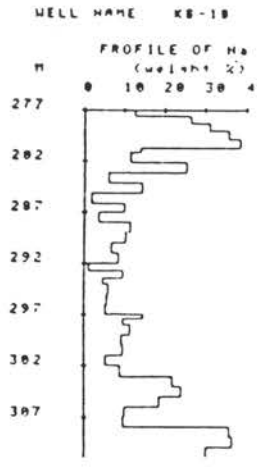


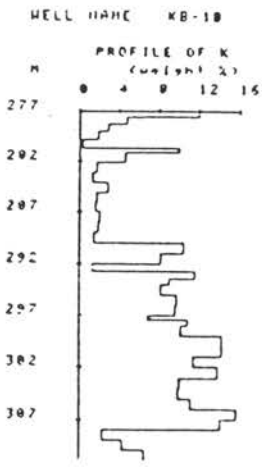


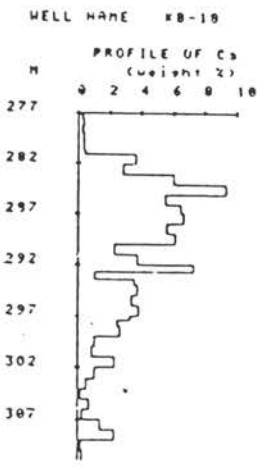


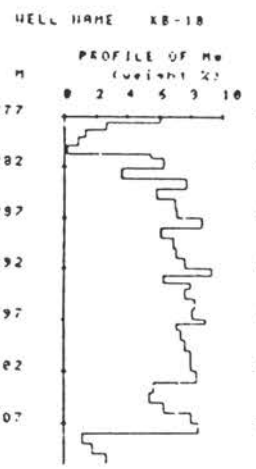


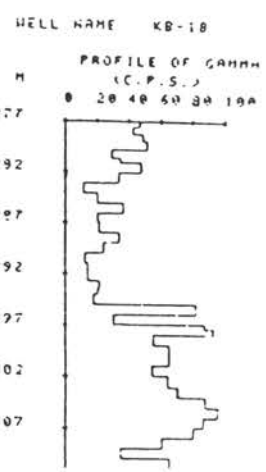
Appendix 1-F (continued)





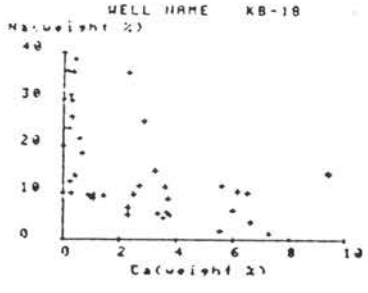


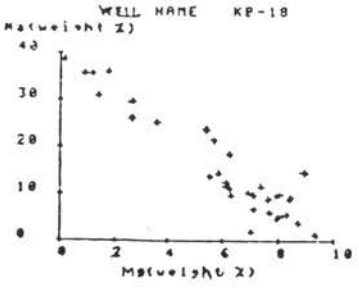


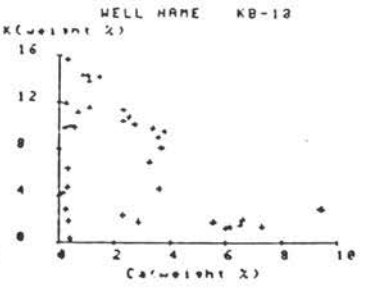


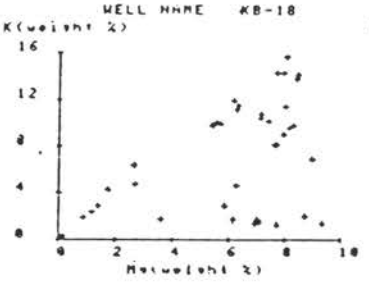
CORRELATION MATRIX OF KB-18

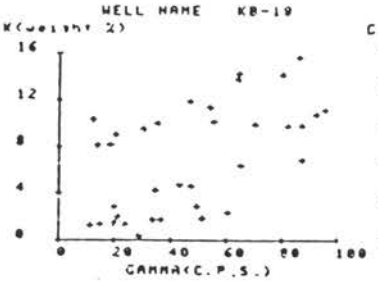
Na	K	Ca	Mg	GAMMA
1.000	-.331	-.525	-.943	.194
0.000	1.000	-.523	.449	.529
0.000	0.000	1.000	.438	-.534
0.000	0.000	0.000	1.000	.014
0.000	0.000	0.000	0.000	1.000

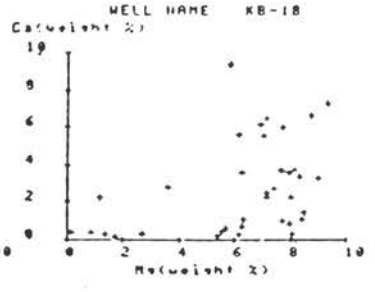


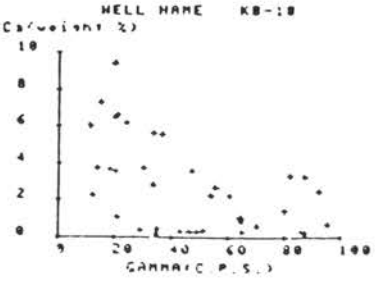




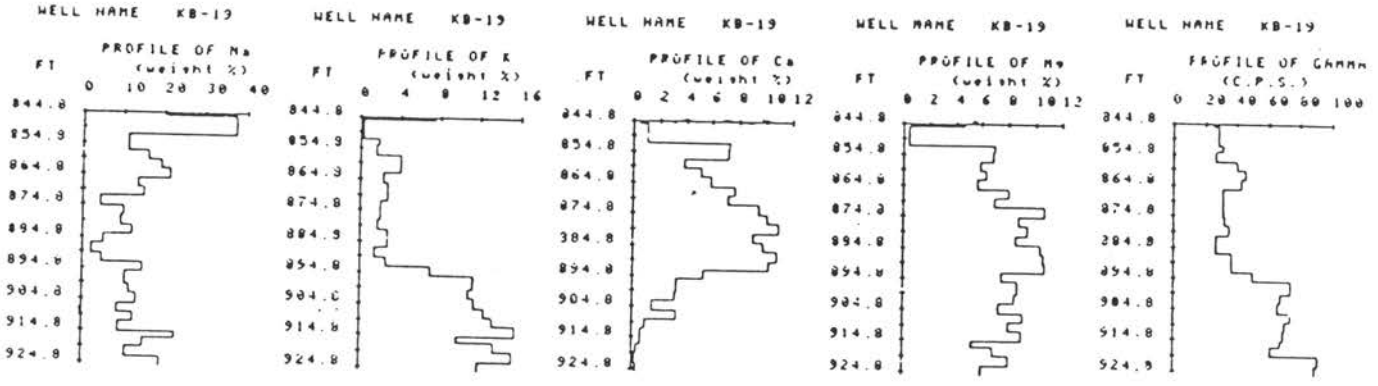






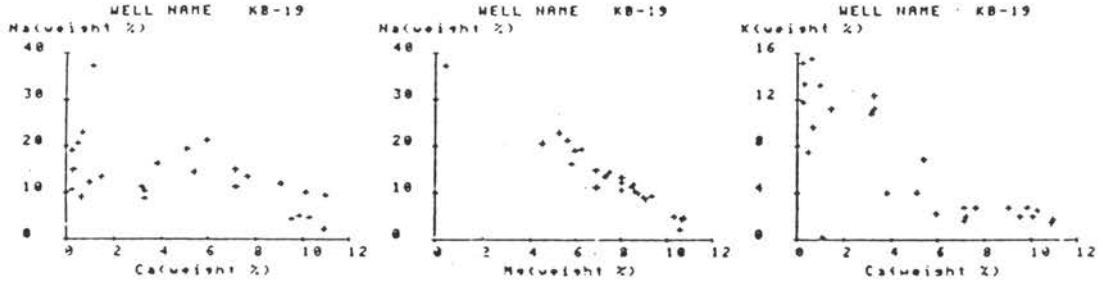


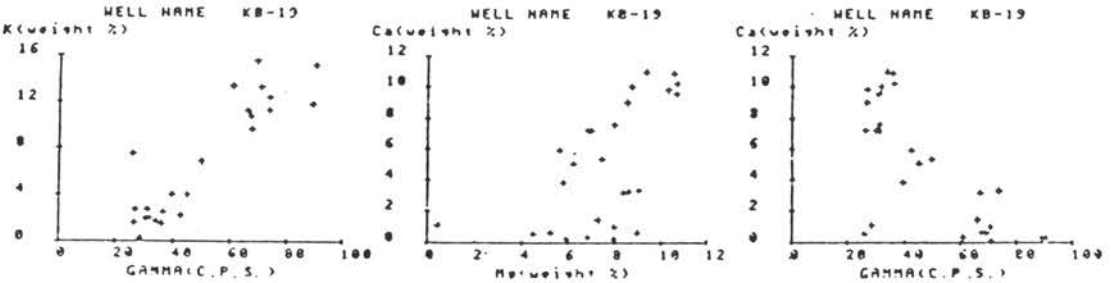
Appendix 1-F (continued)



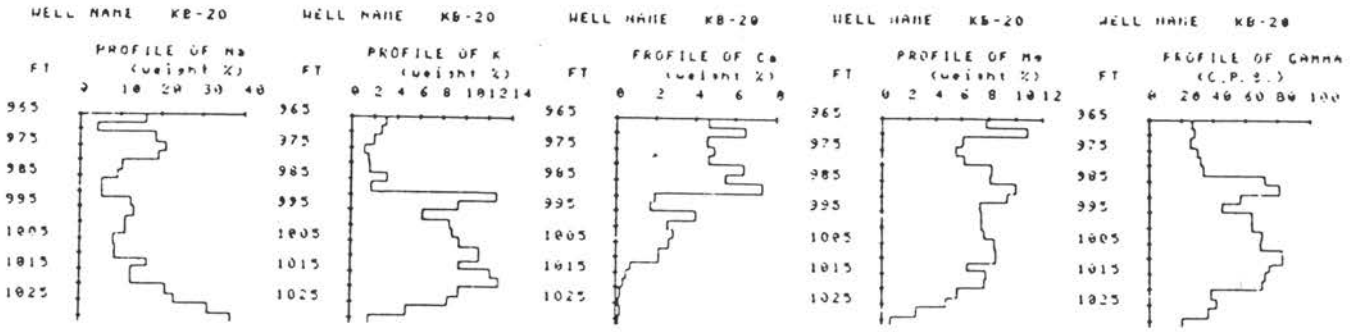
CORRELATION MATRIX OF KB-19

Na	K	Ca	Mg	GAMMA
1.000	-.033	-.546	-.969	.007
0.000	1.000	-.786	.033	.504
0.000	0.000	1.000	.574	-.700
0.000	0.000	0.000	1.000	.026
0.000	0.000	0.000	0.000	1.000



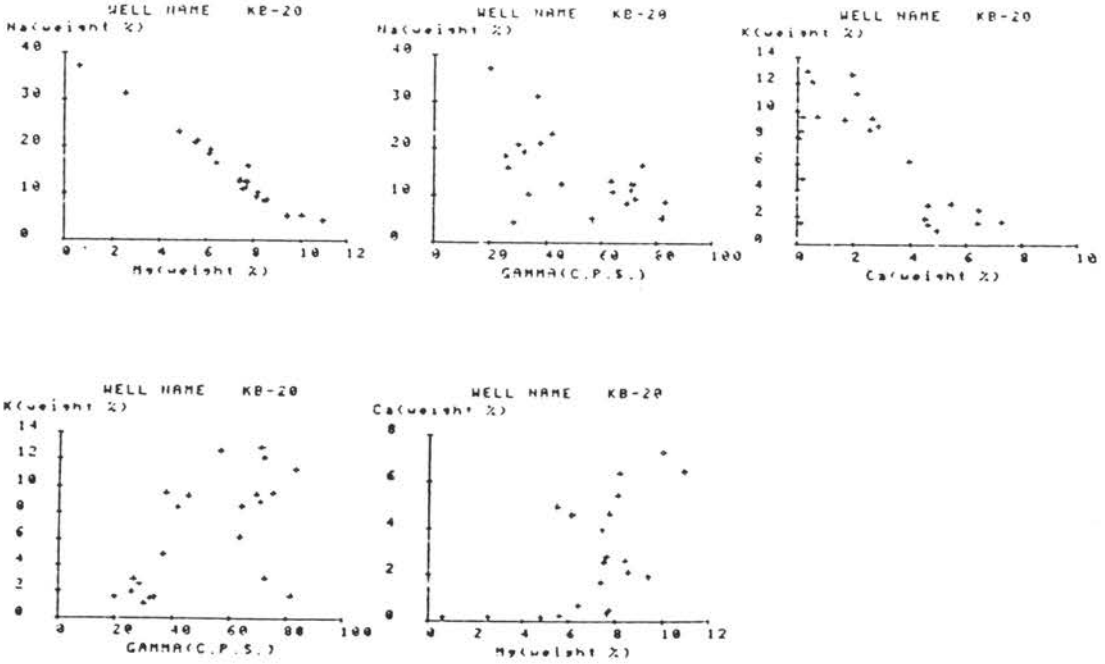


Appendix 1-F (continued)

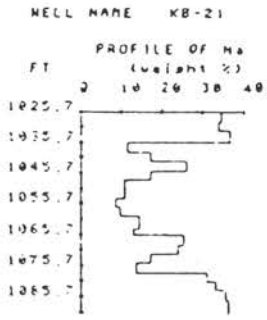


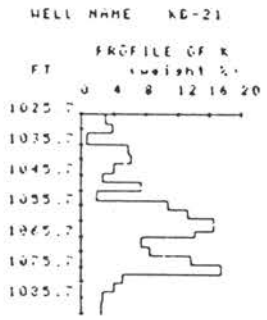
CORRELATION MATRIX OF KB-20

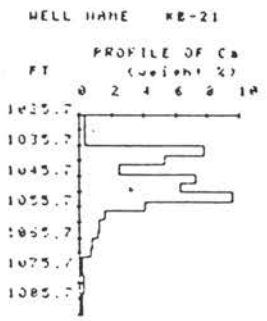
Na	K	Ca	Mg	GAMMA
1.000	-.279	-.495	-.965	-.571
0.000	1.000	-.686	.201	.594
0.000	0.000	1.000	.555	-.102
0.000	0.000	0.000	1.000	.478
0.000	0.006	0.000	0.006	1.000

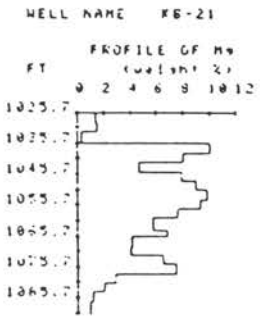


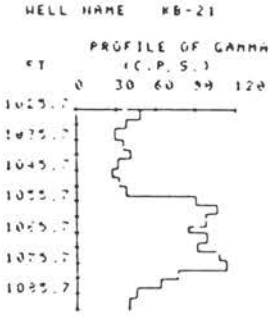
Appendix 1-F (continued)





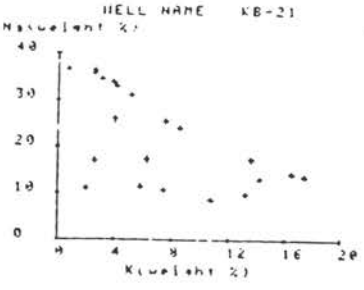


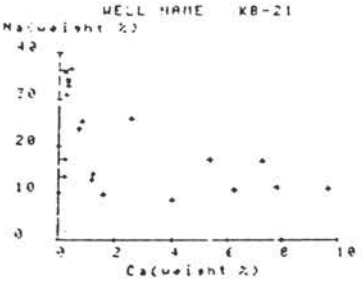


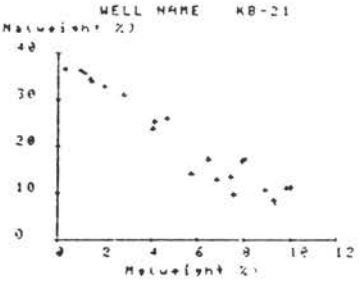


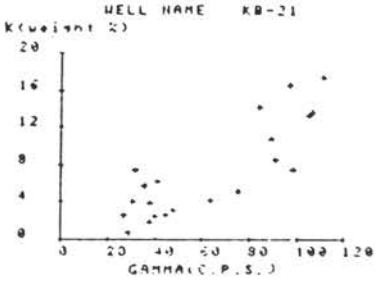
CORRELATION MATRIX OF KB-21

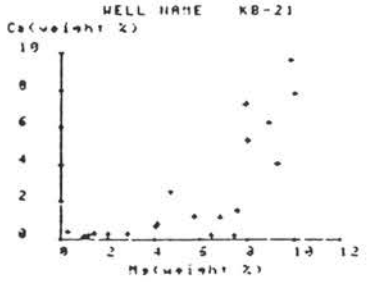
Na	K	Ca	Mg	GAMMA
1.000	-.623	-.603	-.962	-.345
0.000	1.000	-.224	.431	.844
0.000	0.000	1.000	.762	-.460
0.000	0.000	0.000	1.000	.154
0.000	0.000	0.000	0.000	1.000











BIOGRAPHY

Mr. Sombat Yumuang was born in Changwat Prachinburi, Thailand, on January, 1957. He graduated from the Department of Geology, Faculty of Science, Chulalongkorn University in 1980 with a B.Sc. degree in Geology. He was employed by the Thai Department of Mineral Resources (TDMR) for 4 months in 1981. During that time, he had been trained in the field of geological and geophysical drill-hole loggings as well as sampling programme of Potash and Rock-Salt Exploration Project. At the present moment, he is working as an instructor in the Department of Geology, Faculty of Science, Chulalongkorn University.

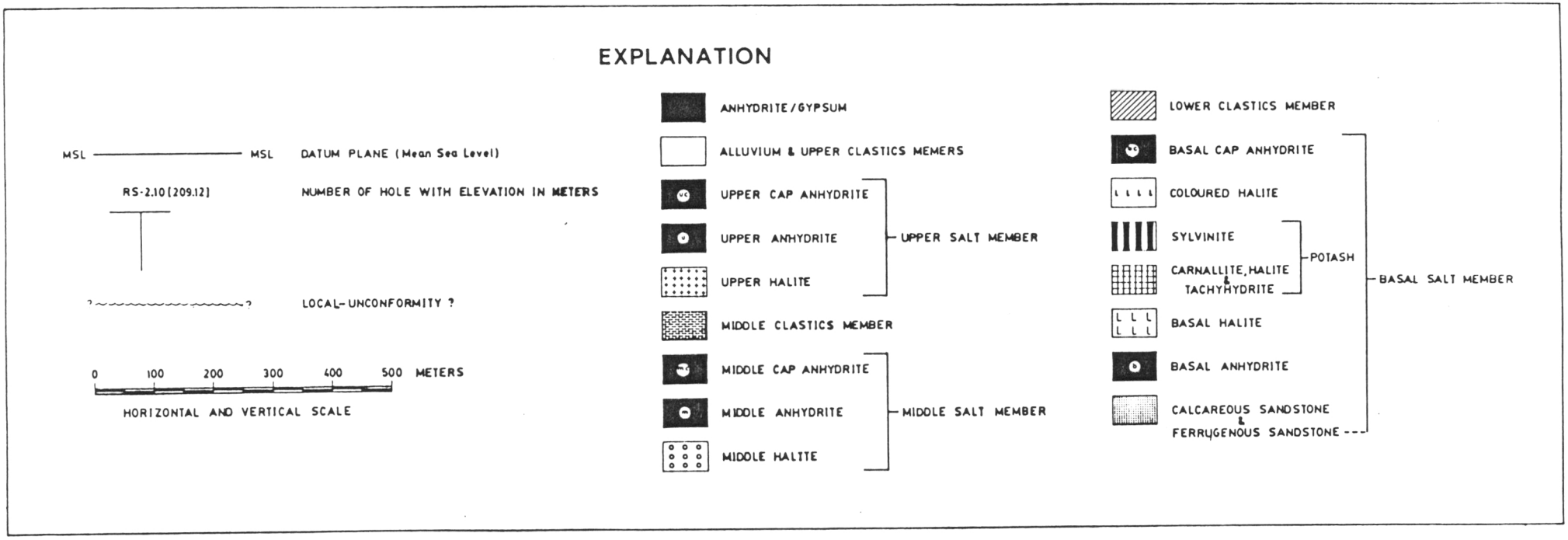

EXPLANATION
MSL
MSL
DATUM PLANE (Mean Sea Level)
RS-2.10 (209.12)
NUMBER OF HOLE WITH ELEVATION IN METERS
?
?
LOCAL-UNCONFORMITY ?
0
100
200
300
400
500
METERS
HORIZONTAL AND VERTICAL SCALE
ANHYDRITE/GYPSUM
ALLUVIUM & UPPER CLASTICS MEMERS
UPPER CAP ANHYDRITE
UPPER ANHYDRITE
UPPER HALITE
UPPER SALT MEMBER
MIDDLE CLASTICS MEMBER
MIDDLE CAP ANHYDRITE
MIDDLE ANHYDRITE
MIDDLE HALITE
MIDDLE SALT MEMBER
LOWER CLASTICS MEMBER
BASAL CAP ANHYDRITE
COLOURED HALITE
SYLVINITE
CARNALLITE, HALITE & TACHYHYDRITE
POTASH
BASAL HALITE
BASAL ANHYDRITE
CALCAREOUS SANDSTONE & FERRUGENOUS SANDSTONE
BASAL SALT MEMBER

PLATE 1

PLATE 1 CROSS-SECTION ALONG LINE HOLE RS-2.11 THROUGH HOLE KB-2 (A-C)
BAMNET NARONG AREA

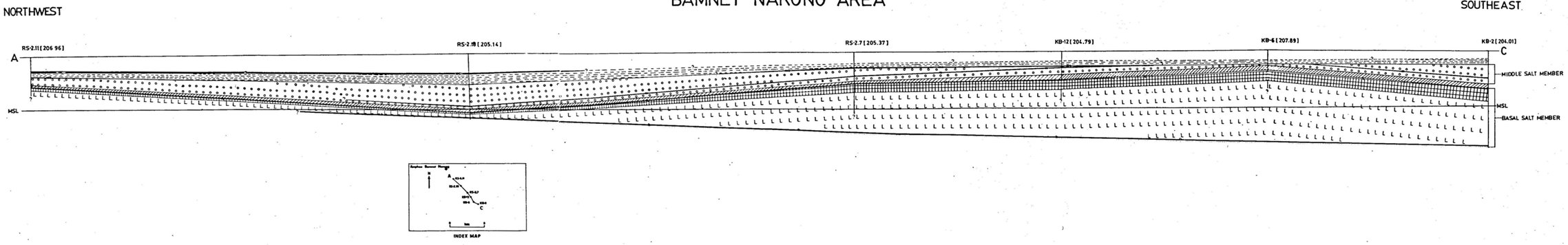


PLATE 2

PLATE 2 CROSS-SECTION ALONG LINE HOLE KB-2 THROUGH HOLE RS-2.17 (C-C')
BAMNET NARONG AREA

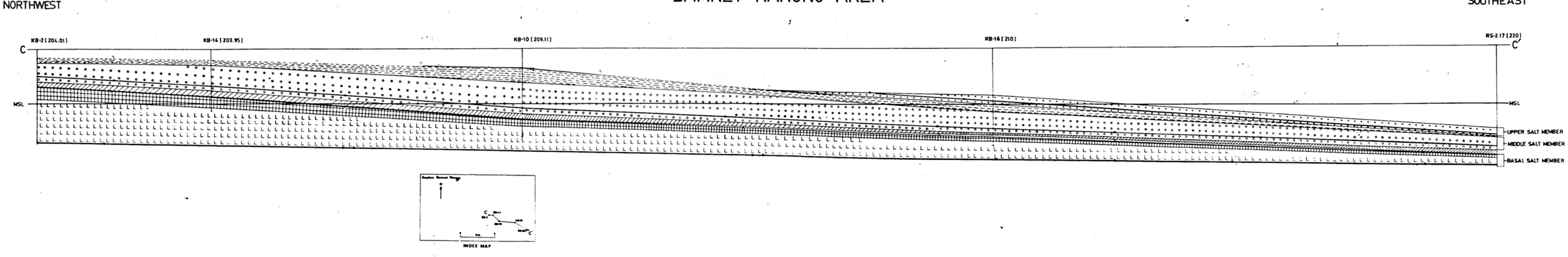


PLATE 3 CROSS-SECTION ALONG LINE HOLE RS-2.11 THROUGH HOLE KB-21 (A-A')

BAMNET NARONG AREA

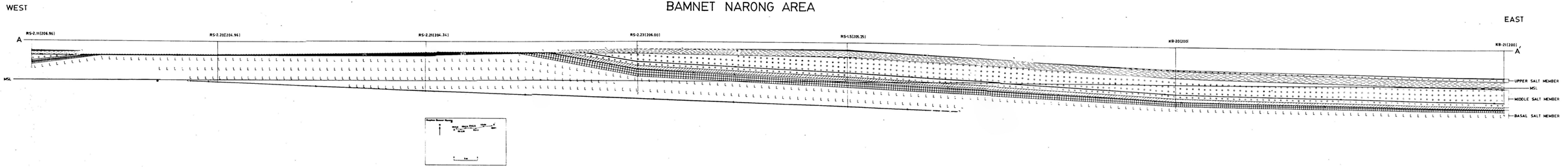


PLATE 4 CROSS-SECTION ALONG LINE HOLE RS-2.10 THROUGH HOLE KB-19 (B-B')

BAMNET NARONG AREA

PLATE 4

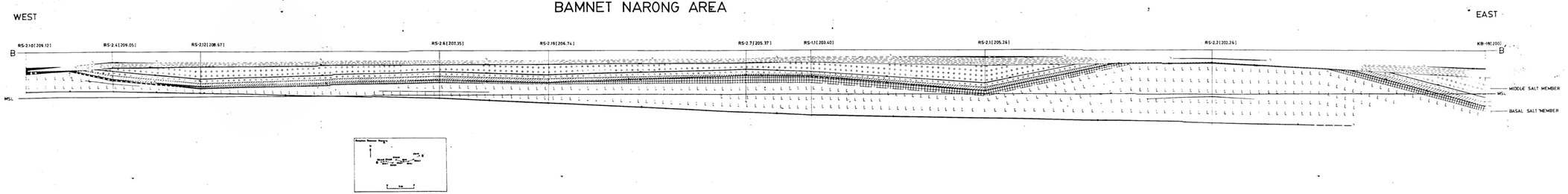


PLATE 5

PLATE 5 CROSS-SECTION ALONG LINE HOLE PQ-3 THROUGH HOLE PQ-7 (D-D')

BAMNET NARONG AREA

NORTH

SOUTH

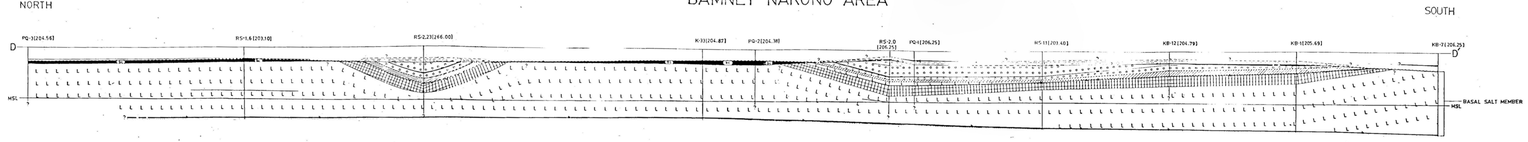


PLATE 6

PLATE 6 CROSS-SECTION ALONG LINE HOLE KB-20 THROUGH HOLE KB-18 (E-E')

BAMNET NARONG AREA

NORTH

SOUTH