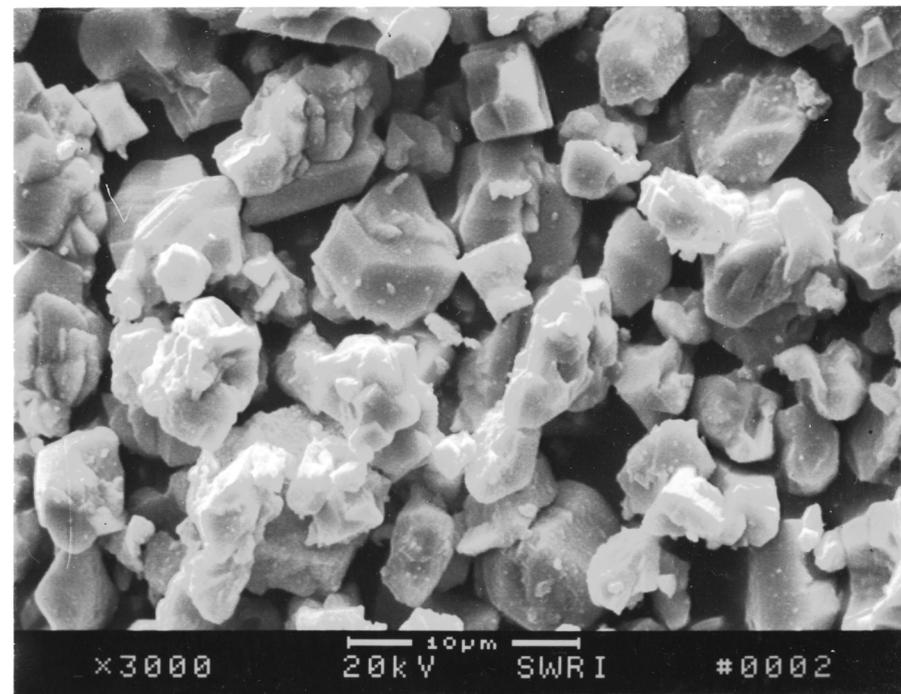
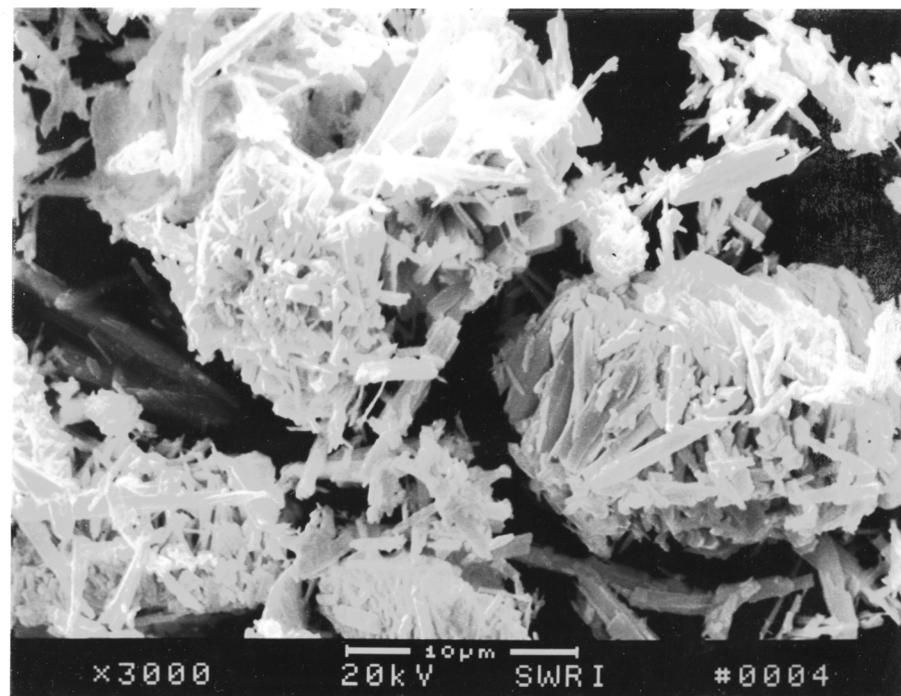
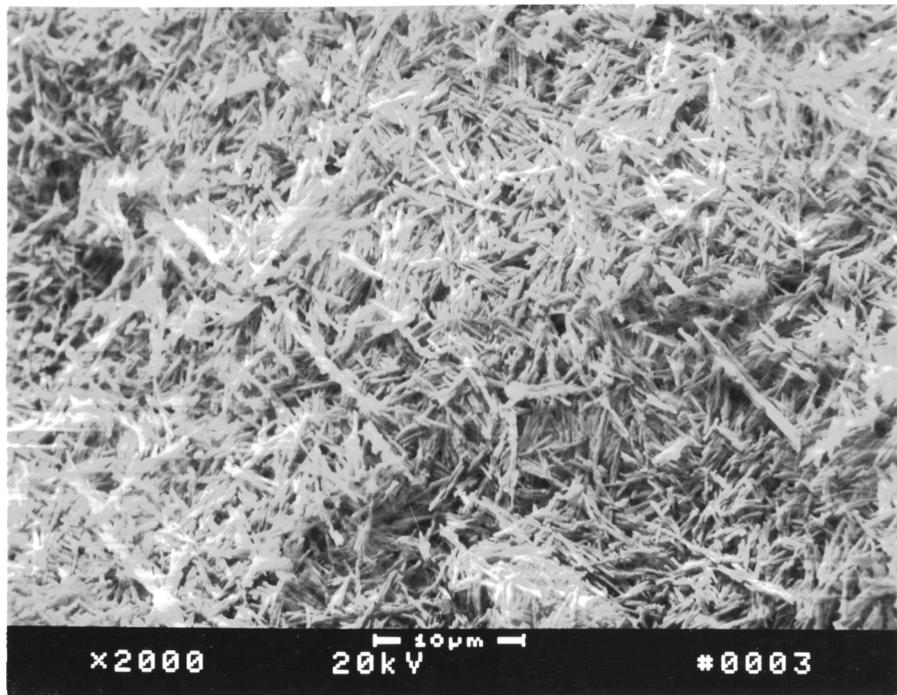


NEAR-FIELD PROJECT PHOTOS

U RAN * SYN * 9

U RAN * SYN * 10



SEM/EDS Analyses

12/8/95 JF

- 1) URAN*SYN*9
- 2) URAN*SYN*10
- 3) SODD*SYN*7
- 4) SODD*SYN*9

~~Photo~~ URAN*SYN*9

Photo 1 - URAN*SYN*9

EDS - URAN SYN 9 amorphous area

URAN SYN 9a acicular crystals

Photo 2 - URAN*SYN*9

EDS - URAN SYN 9b amorphous area

URAN SYN 9c acicular crystals

Photo 9 -

Photo 10 -

Photo 11

URAN*SYN*10

Photo 3 - EDS - URAN SYN 10 acicular crystals

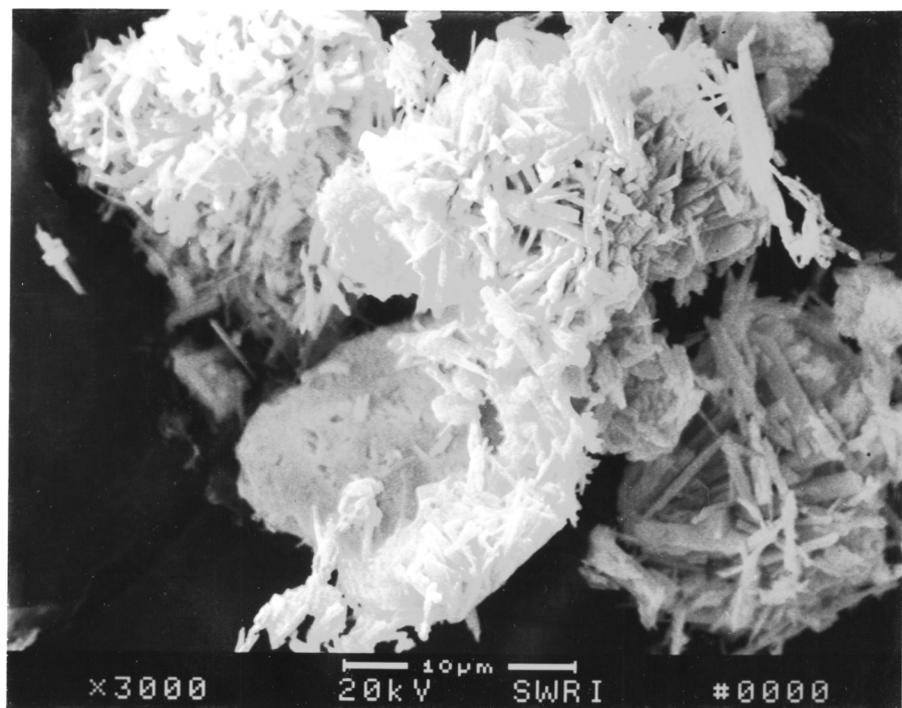
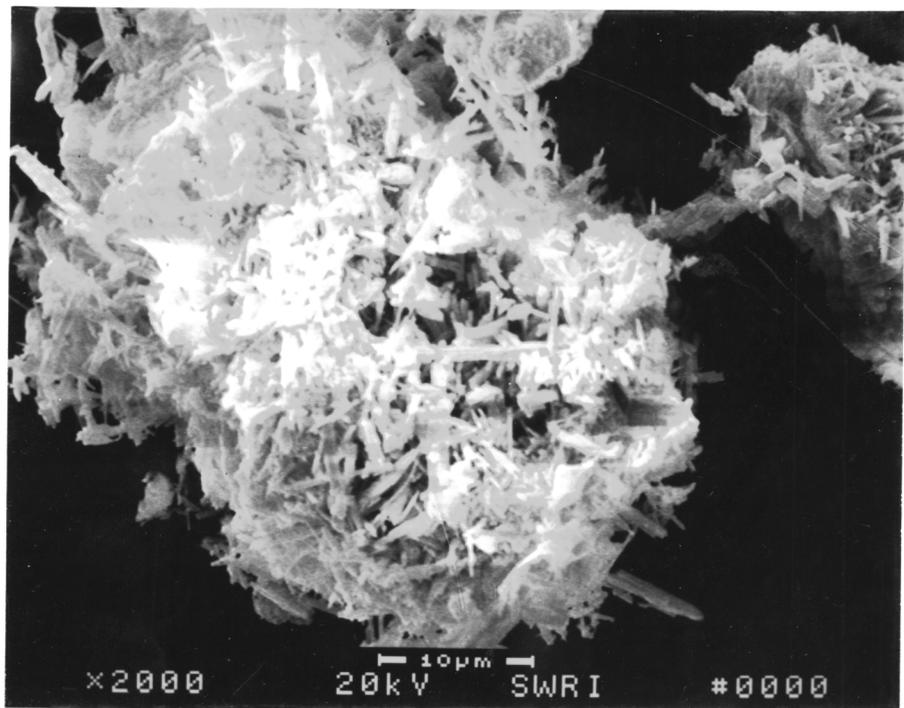
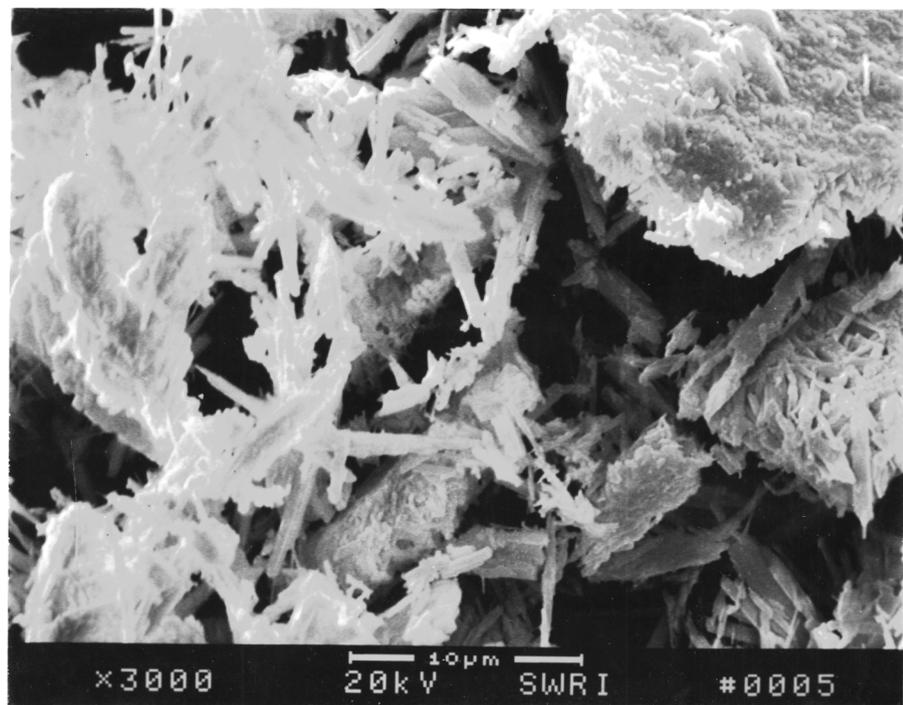
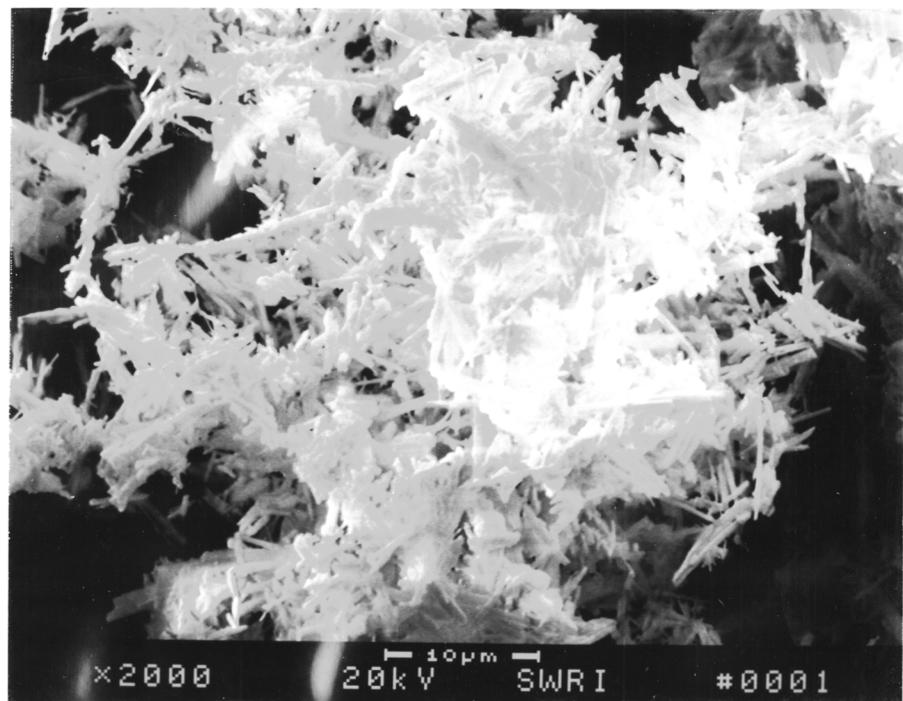
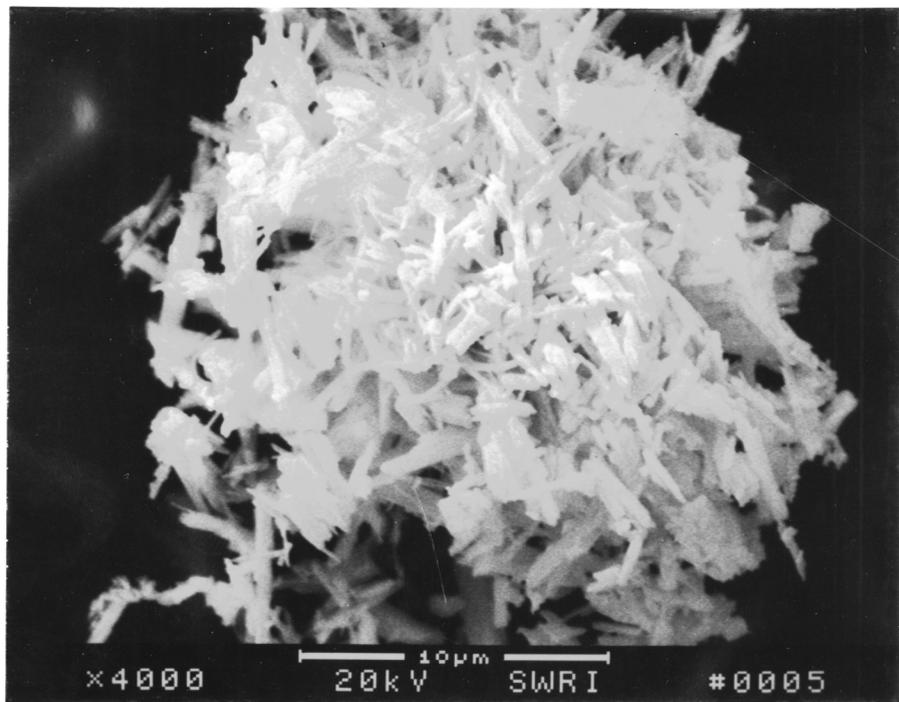


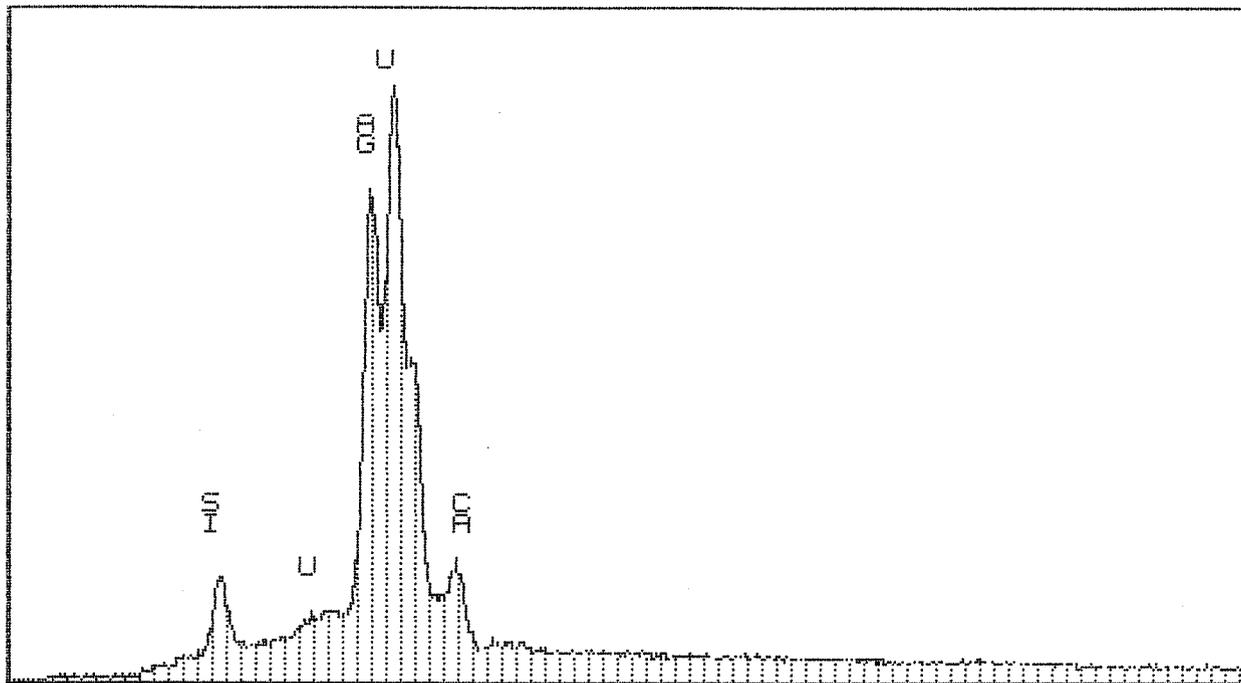
Photo 9

7/6 261





Cursor: 0.000keV = 0

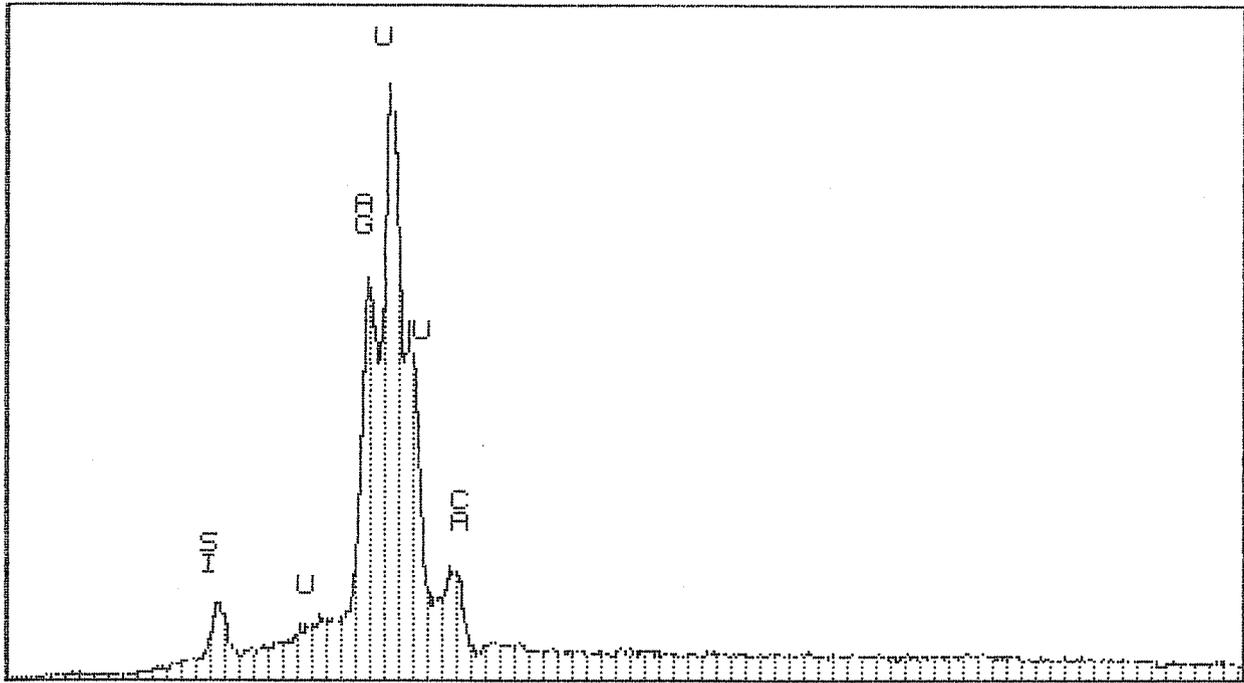


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VFS = 2048 10.240

85 URAN SYN 9 - 20KV, 10MM

Cursor: 0.000keV = 0

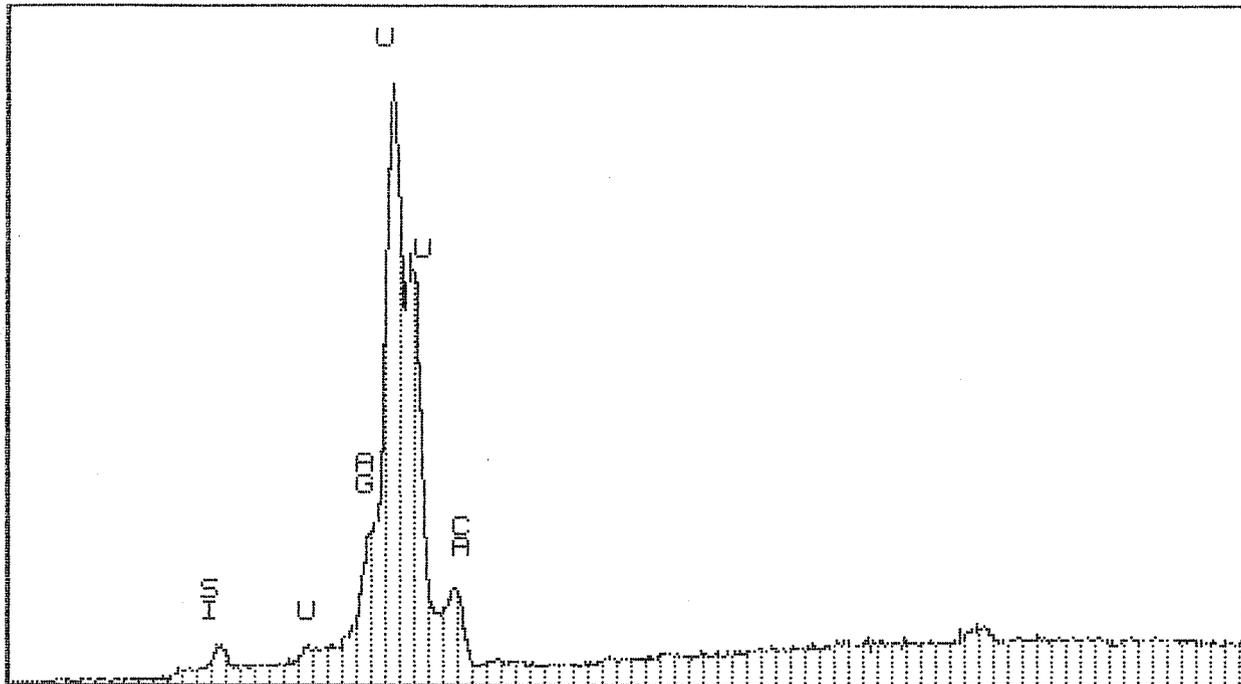


0.000

VFS = 2048 10.240

94 URAN SYN 9A - 20KV, 10MM

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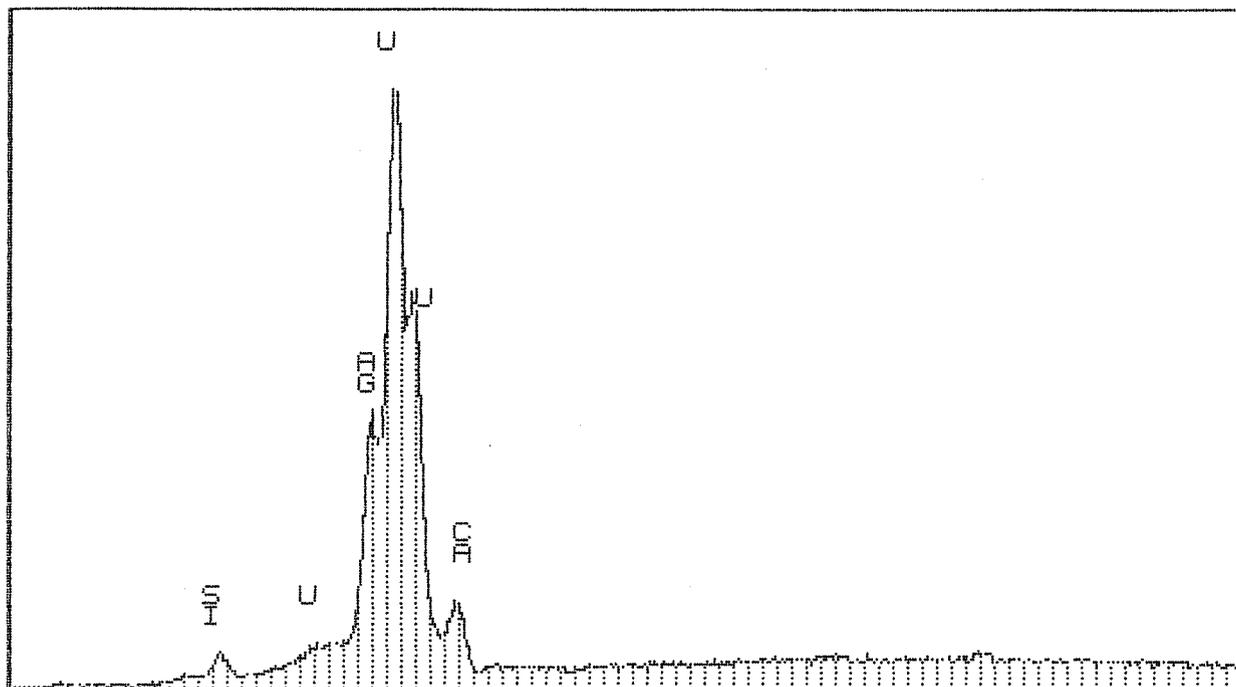


0.000

VFS = 2048 10.240

131 URAN SYN 9B - 20KV, 10MM

Cursor: 0.000keV = 0

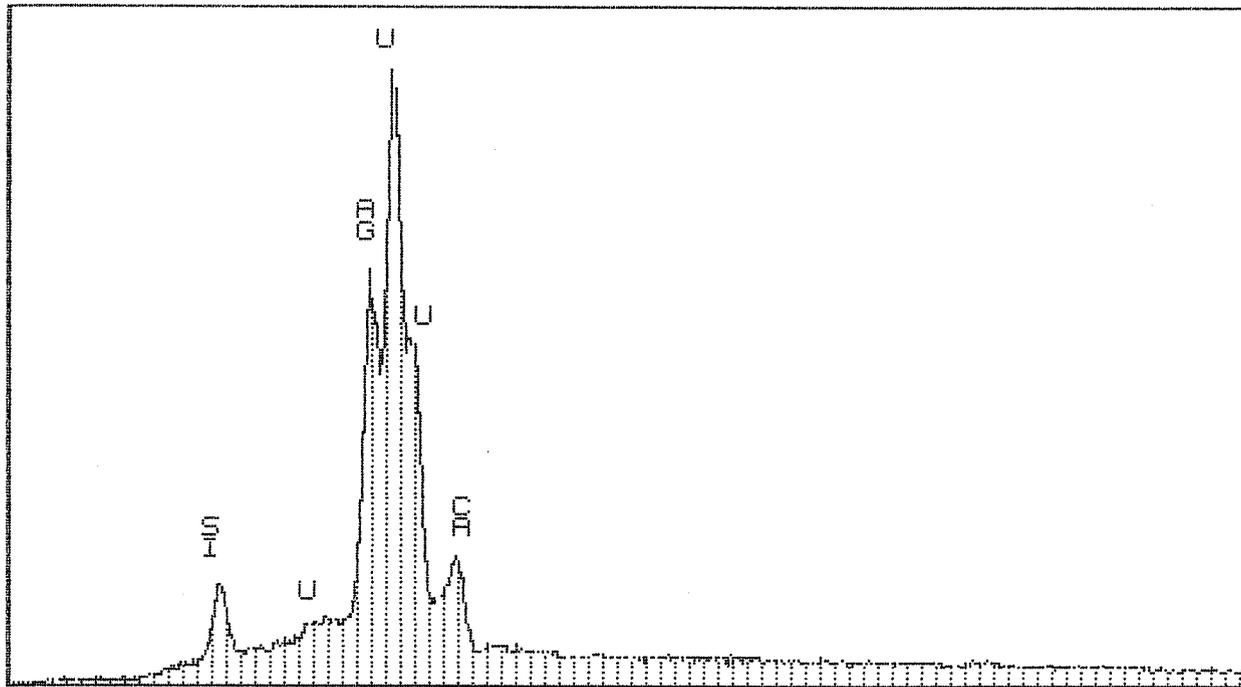


0.000

VFS = 2048 10.240

105 URAN SYN 9C - 20KV, 10MM

Cursor: 0.000keV = 0



0.000

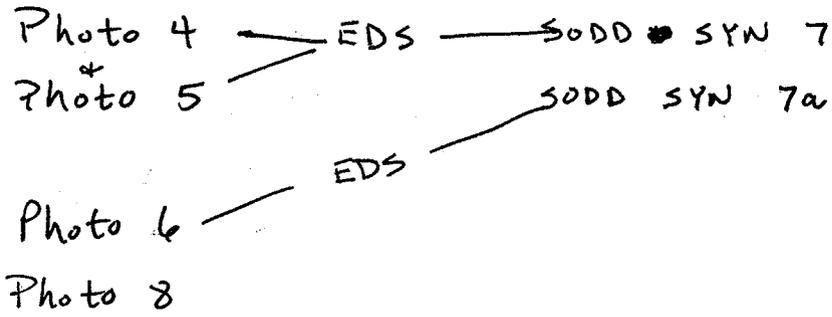
VFS = 2048 10.240

95 URAN SYN 10 - 20KV, 10MM

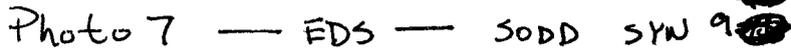
S0DD*SYN*7

S0DD*SYN*9

SODD*SYW*7



SODD*SYW*9



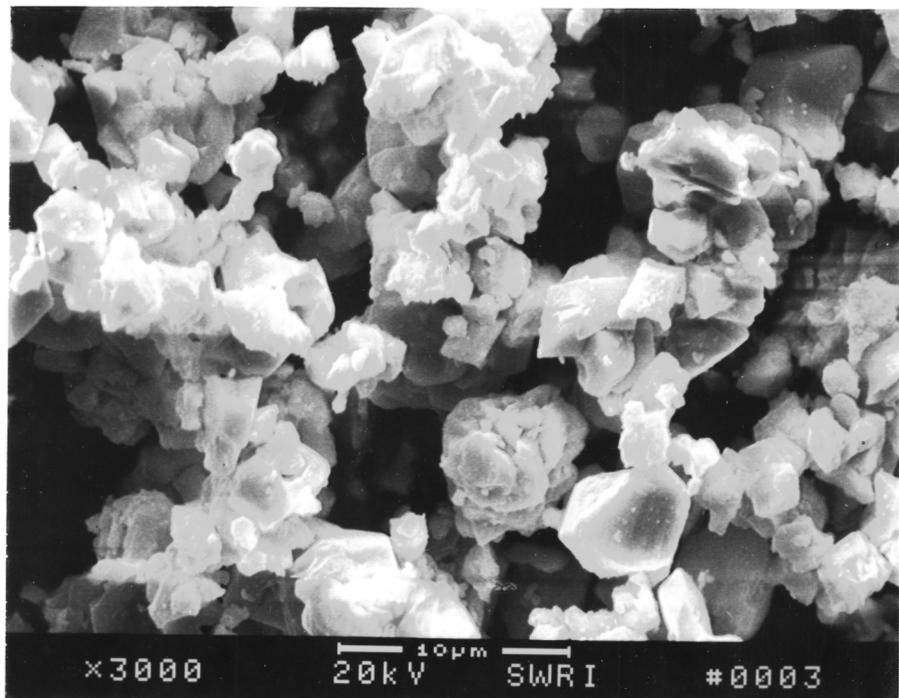
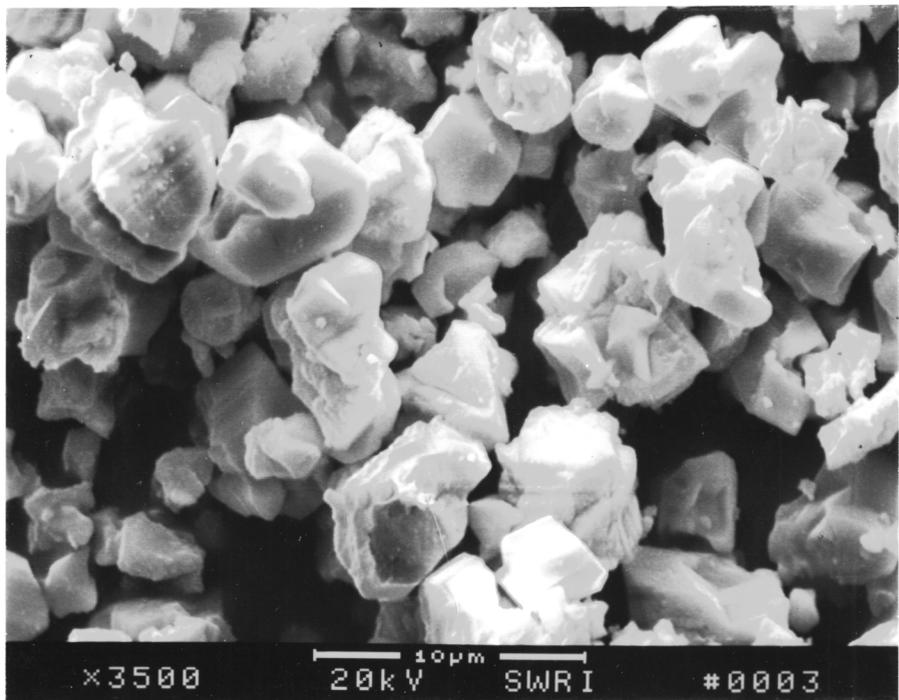


photo 6

76258

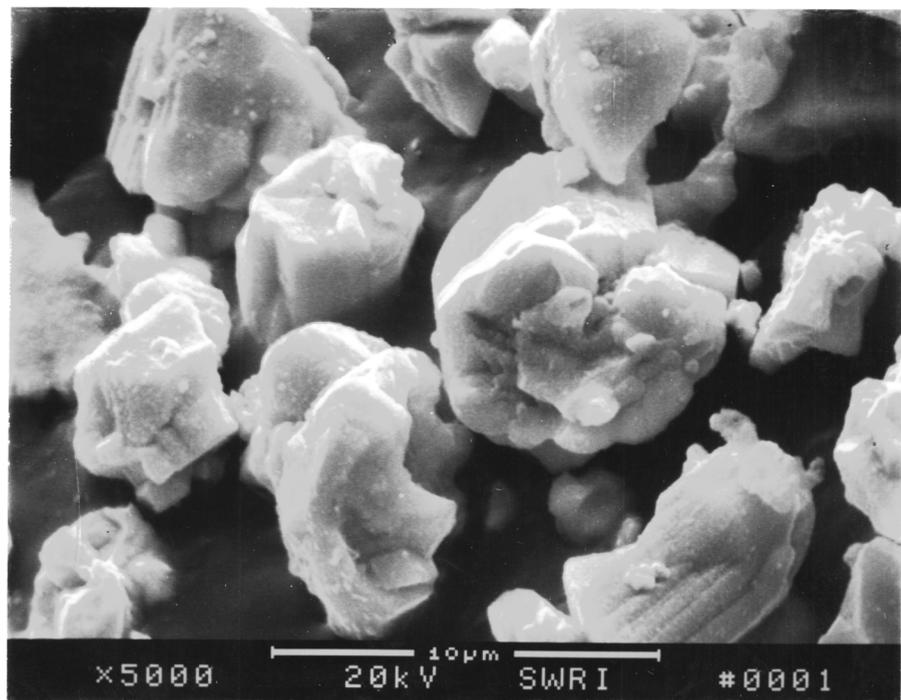


Photo 5

76257

Polaroid

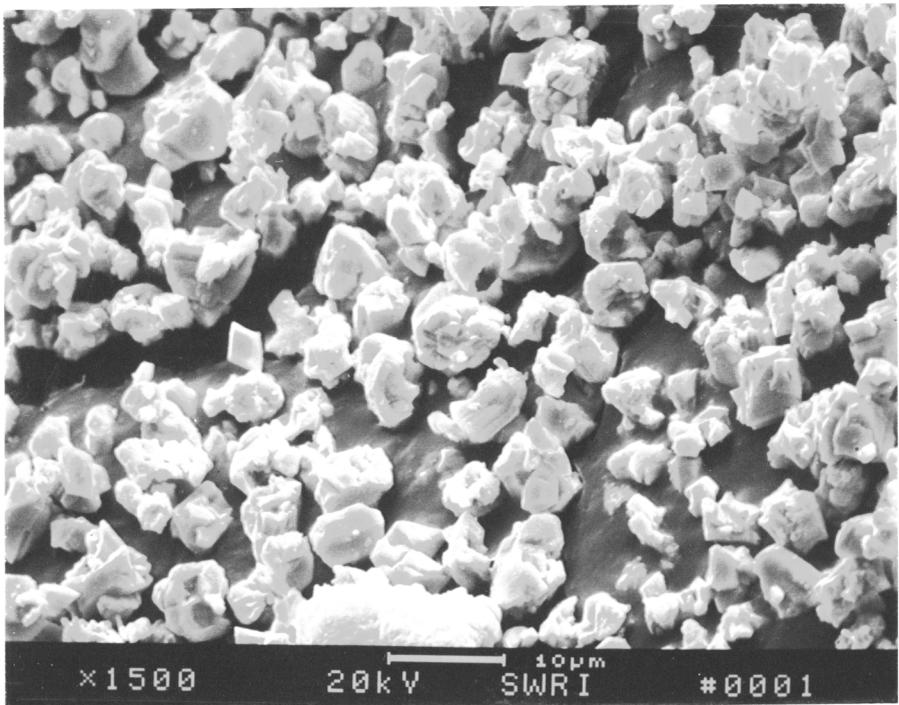
D56535A55928B

Photo 7

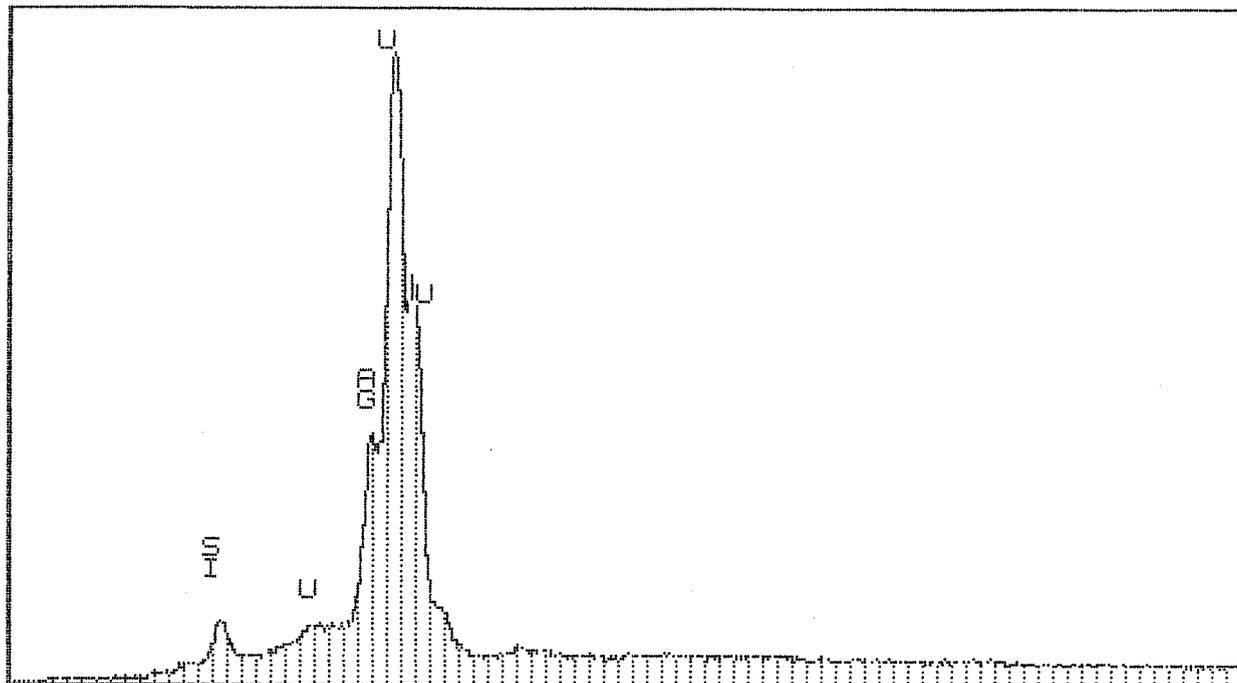
76259

Polaroid

D56535A55928B



Cursor: 0.000keV = 0

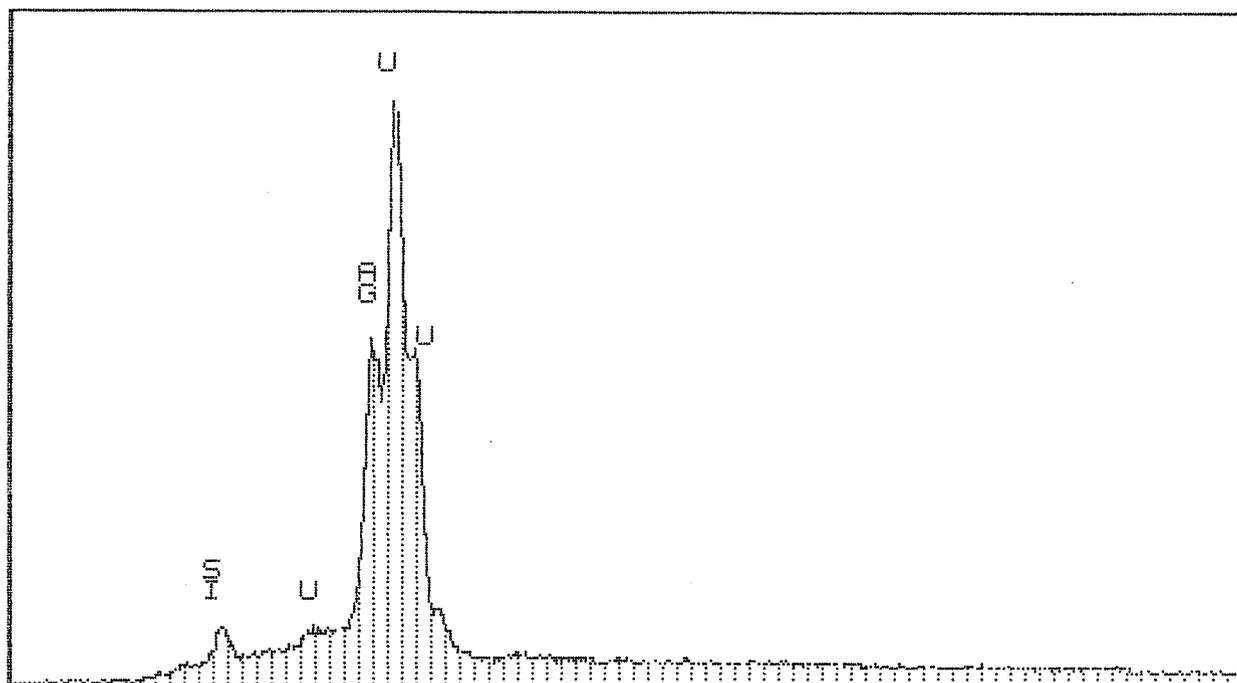


0.000

VFS = 2048 10.240

86 SODD SYN 7 - 20KV, 10MM

Cursor: 0.000keV = 0

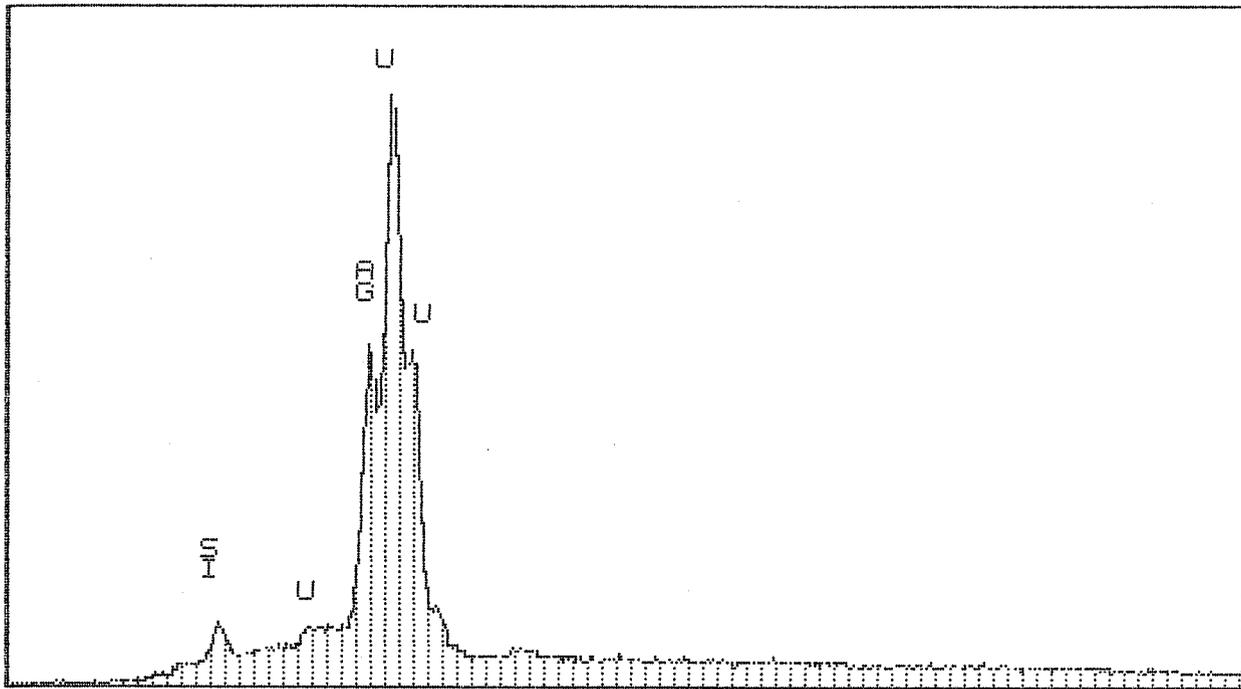


0.000

VFS = 2048 10.240

219 5000 SYN 7A - 20KV, 10MM

Cursor: 0.000keV = 0

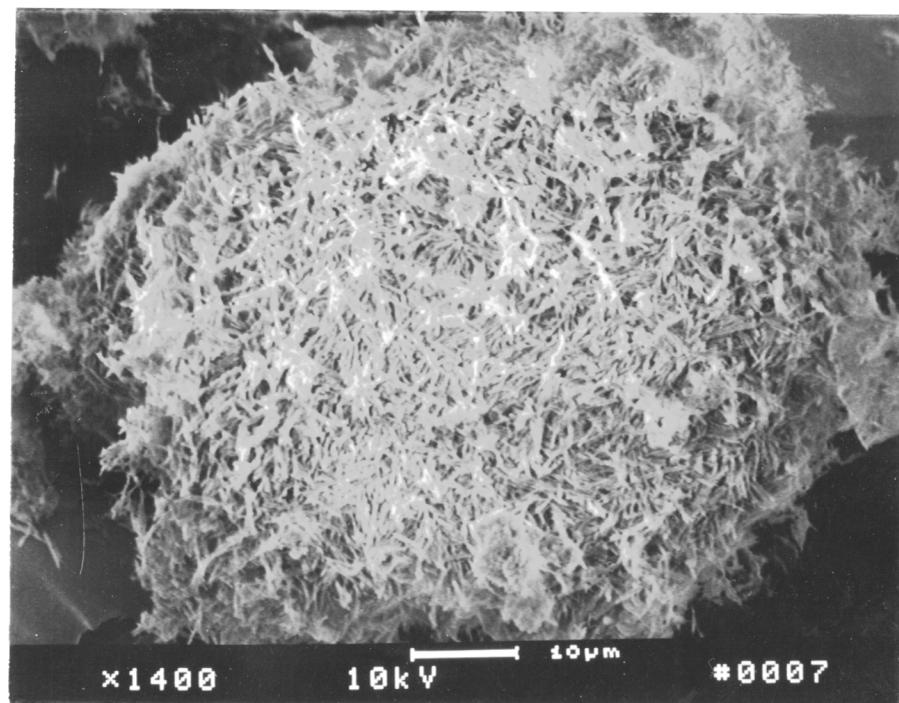
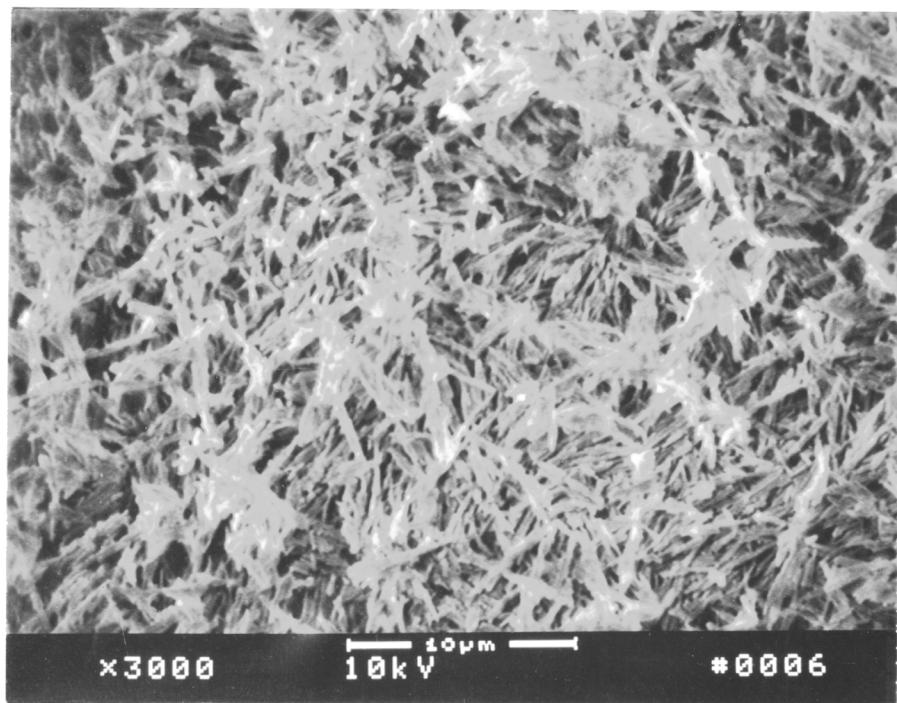
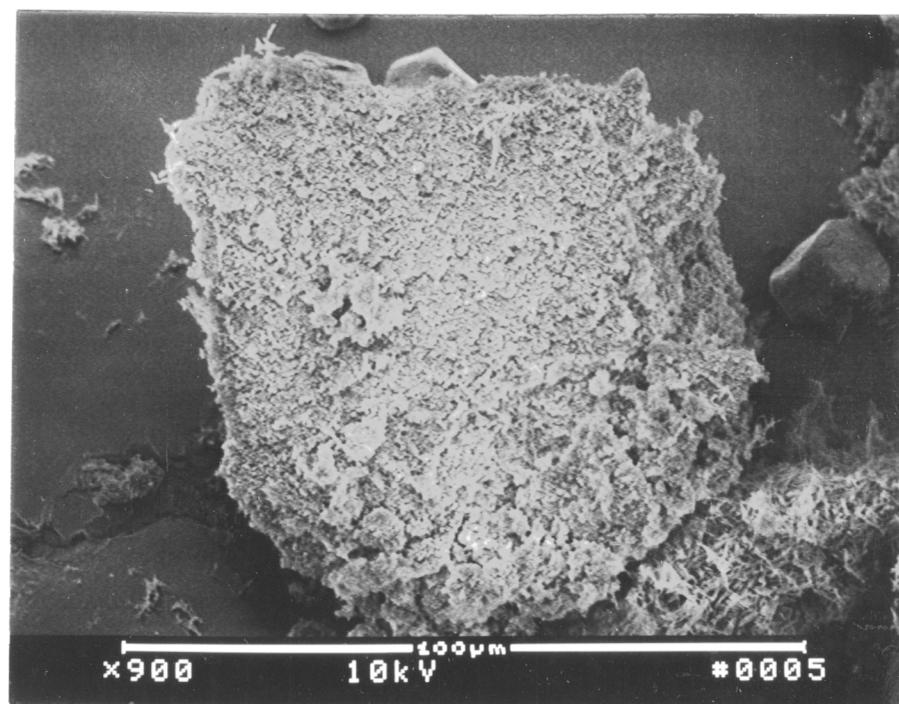
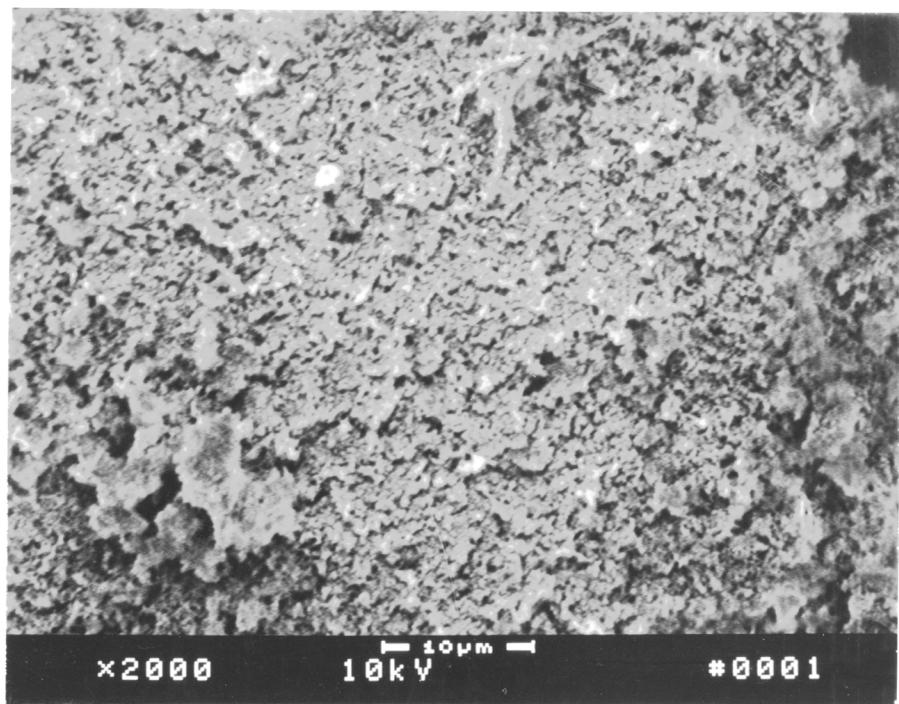


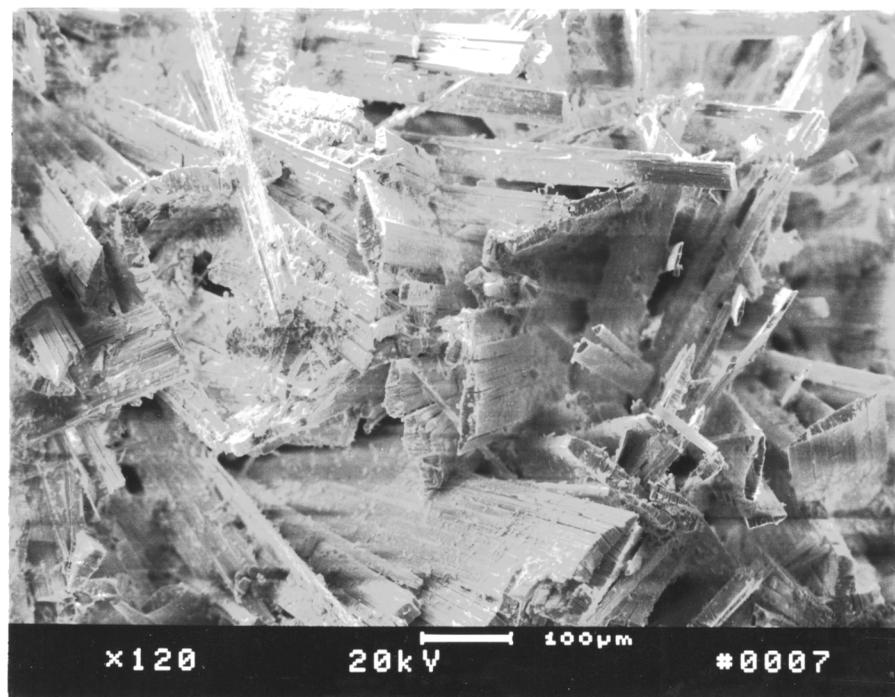
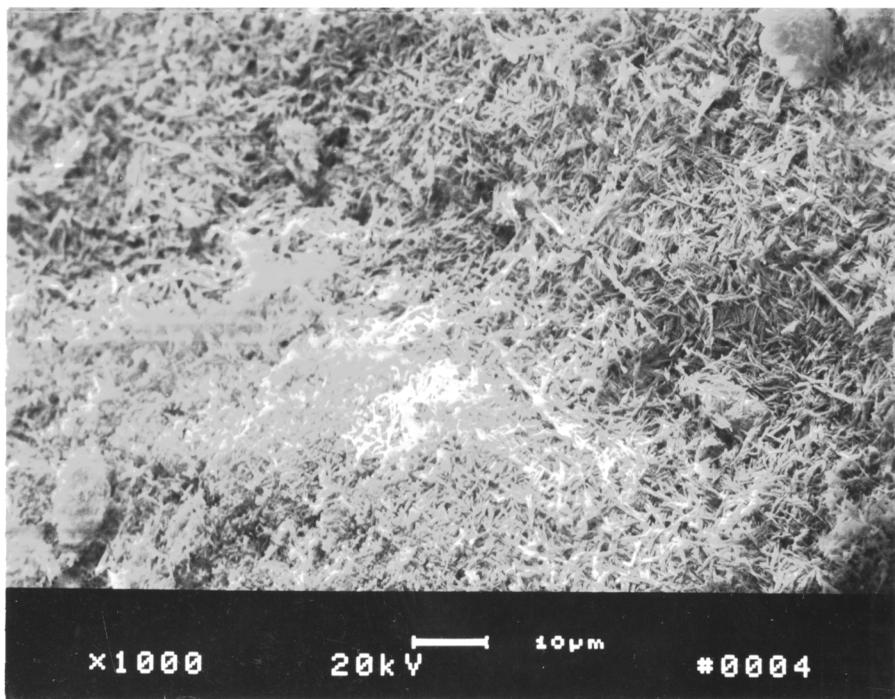
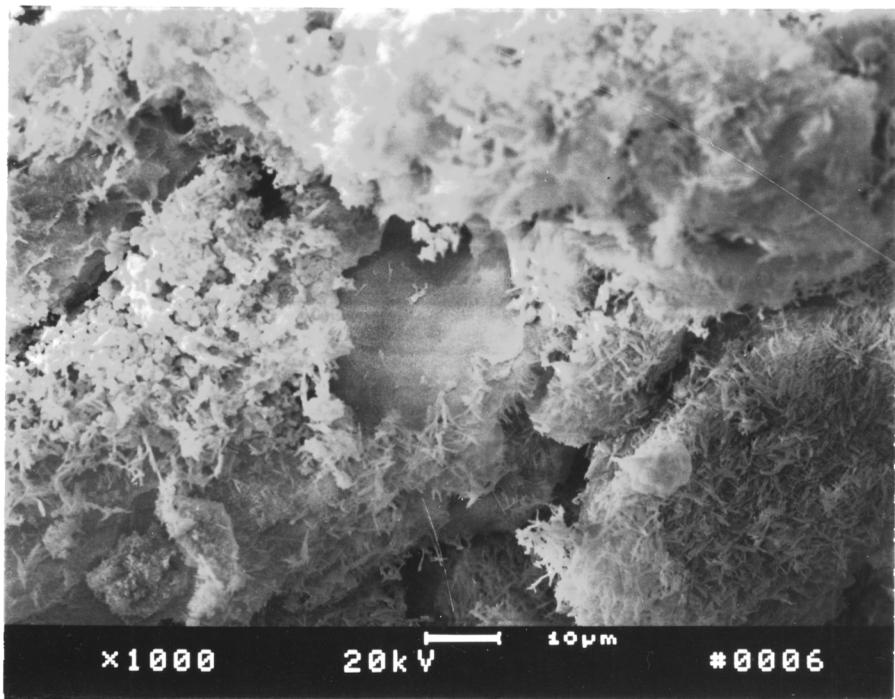
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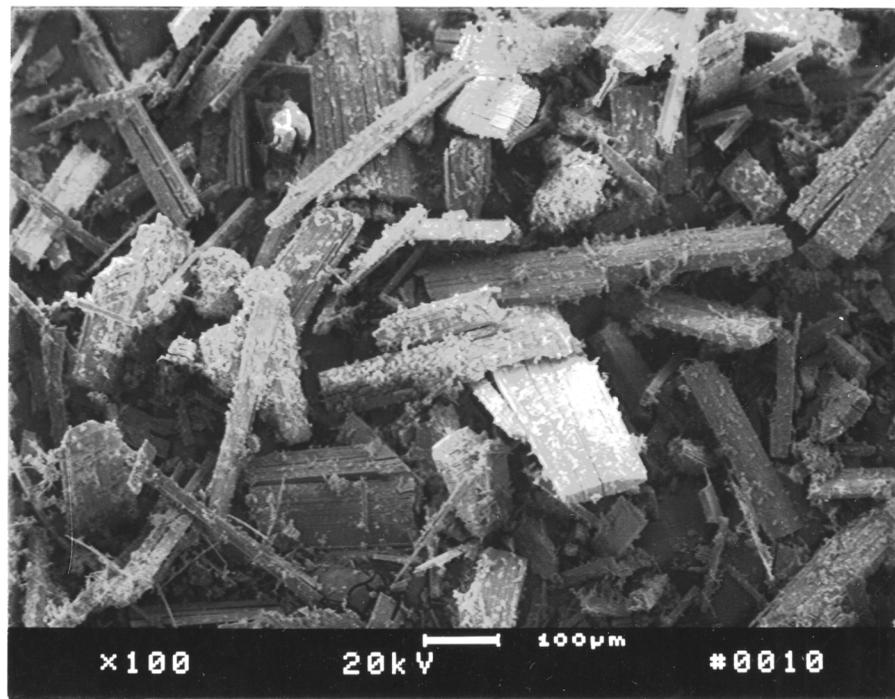
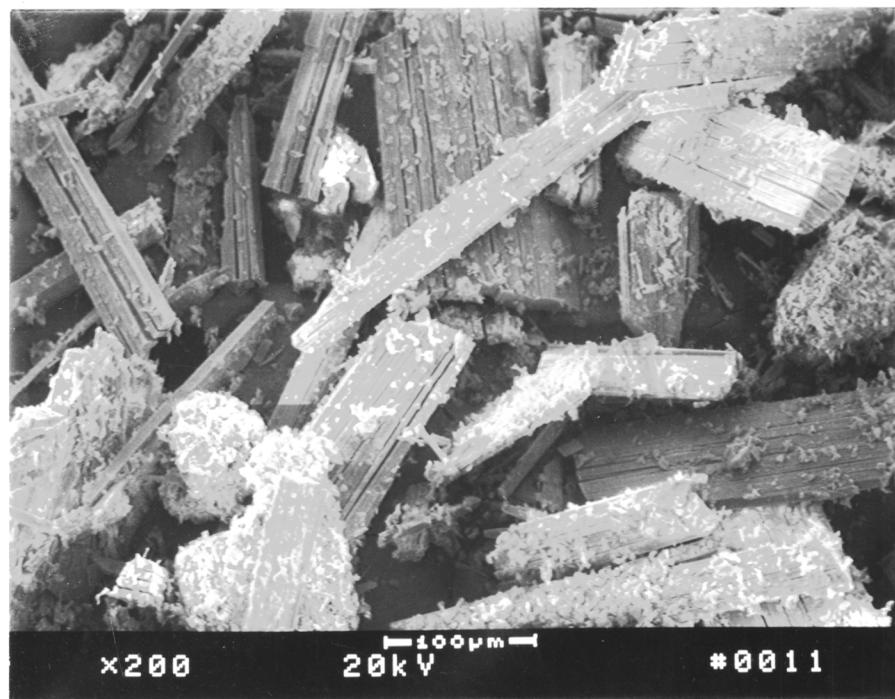
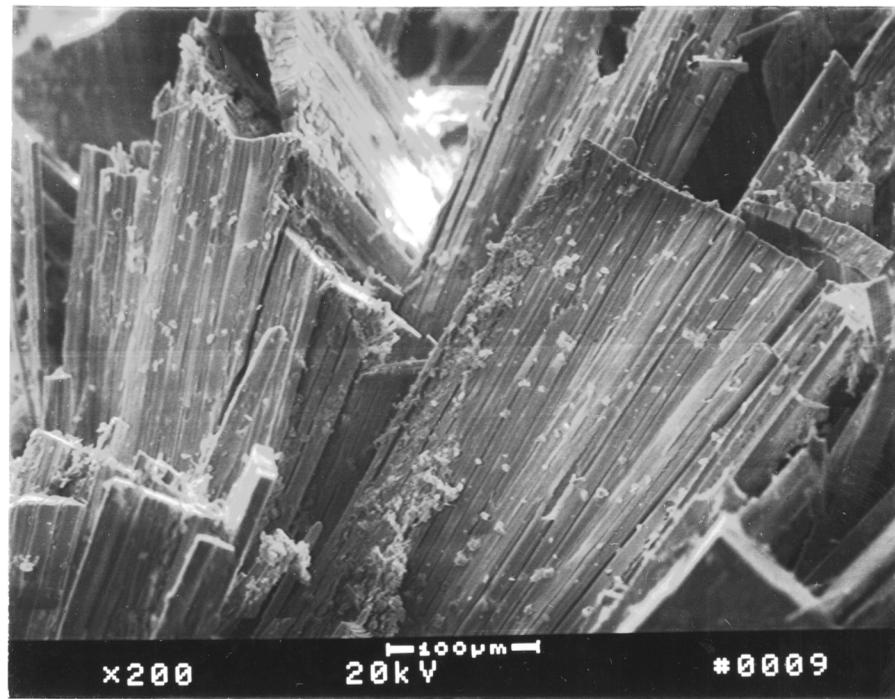
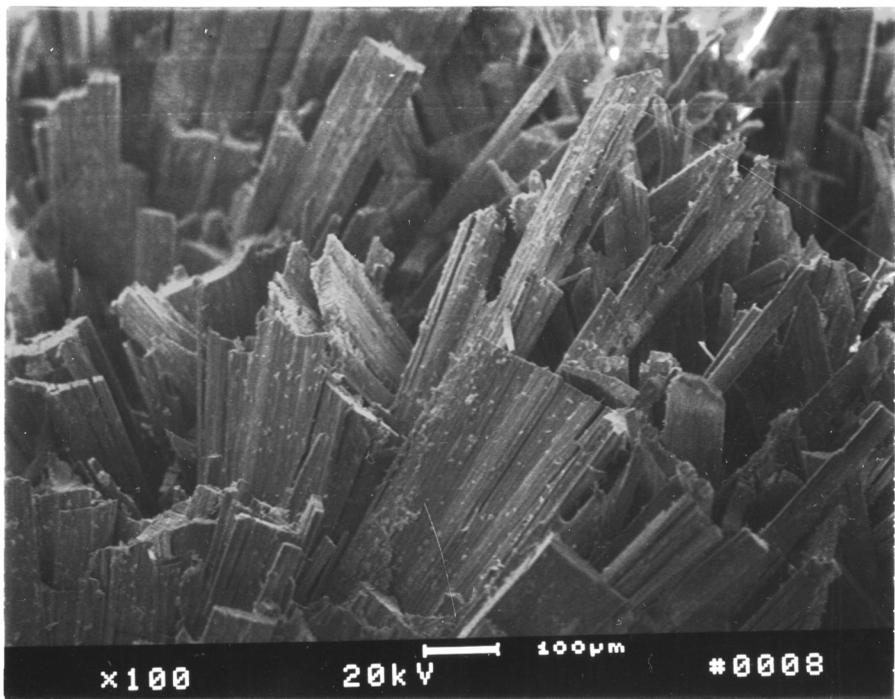
VFS = 2048 10.240

229 SODD SYN 9 - 20KV, 10MM

URAN*SYN







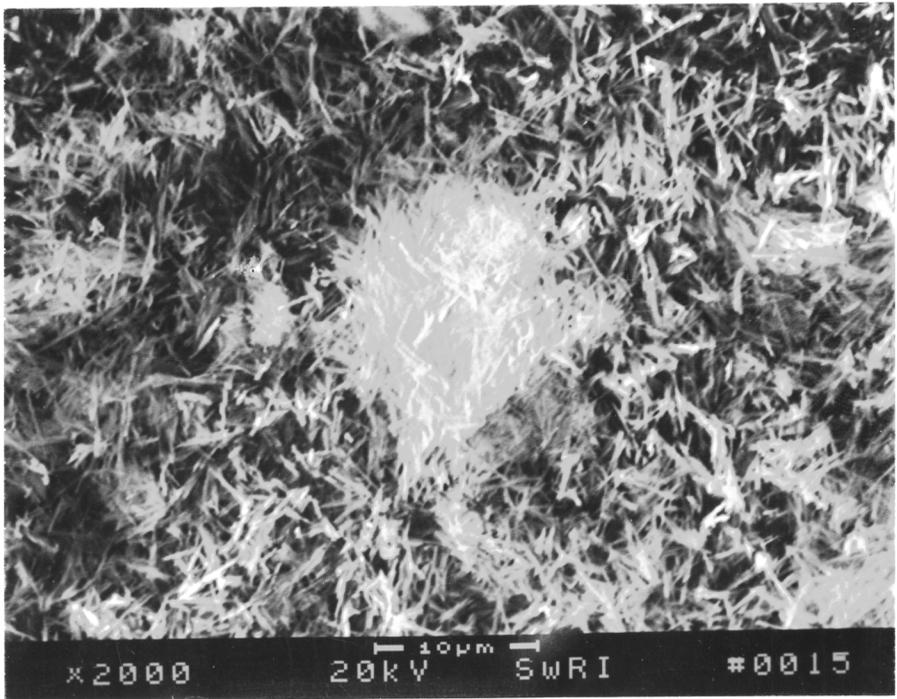
URAN*SY*3
11 *4



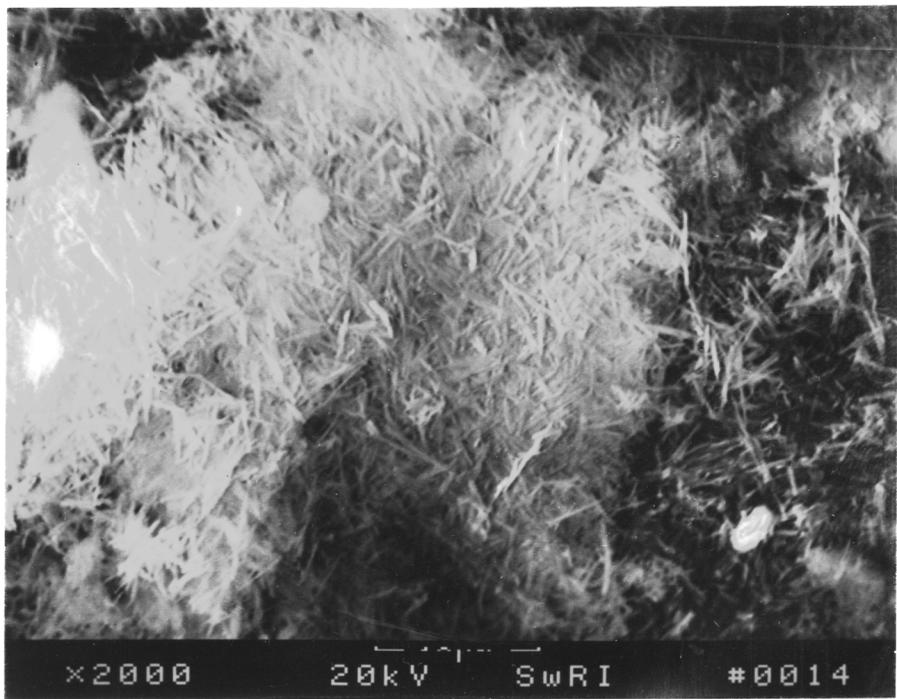
7/14/95 #1

2000

73676



7/14/95 #1



7/14/95 #1

73675

x2000

20kV

SWRI

#0014

x2000

20kV

SWRI

#0015

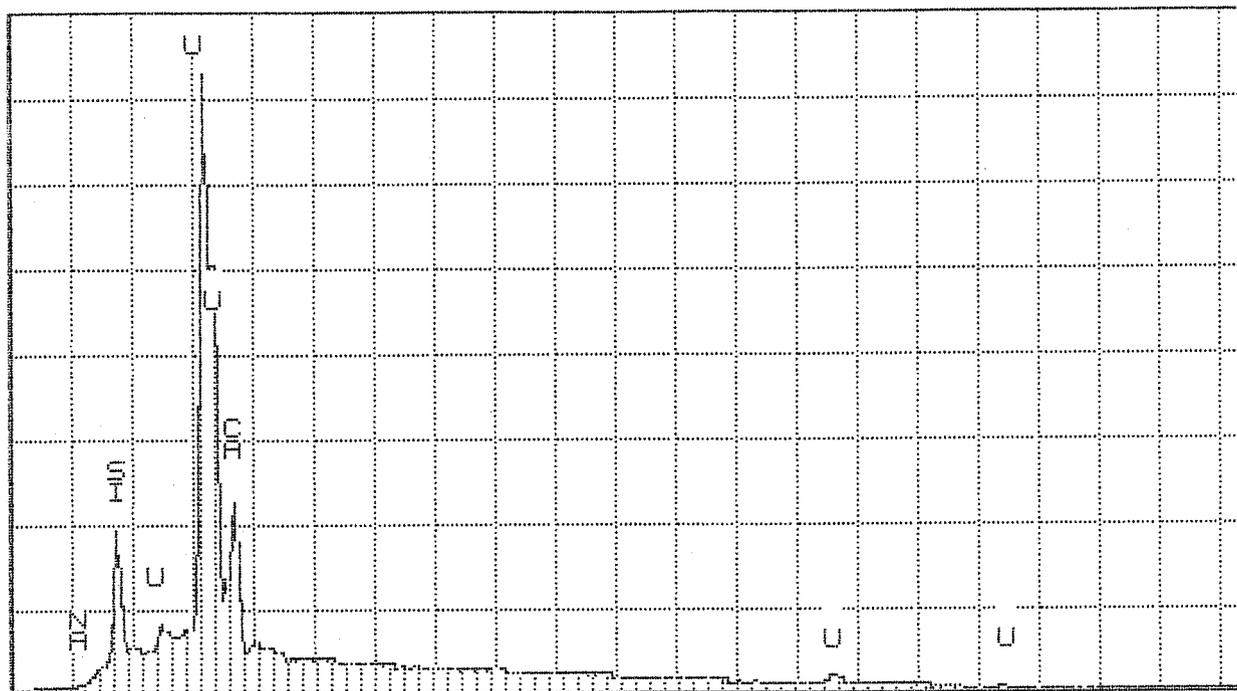
10µm

1,30

Series II Southwest Research Institute

FRI 14-JUL-95 14:27

Cursor: 0.000keV = 0

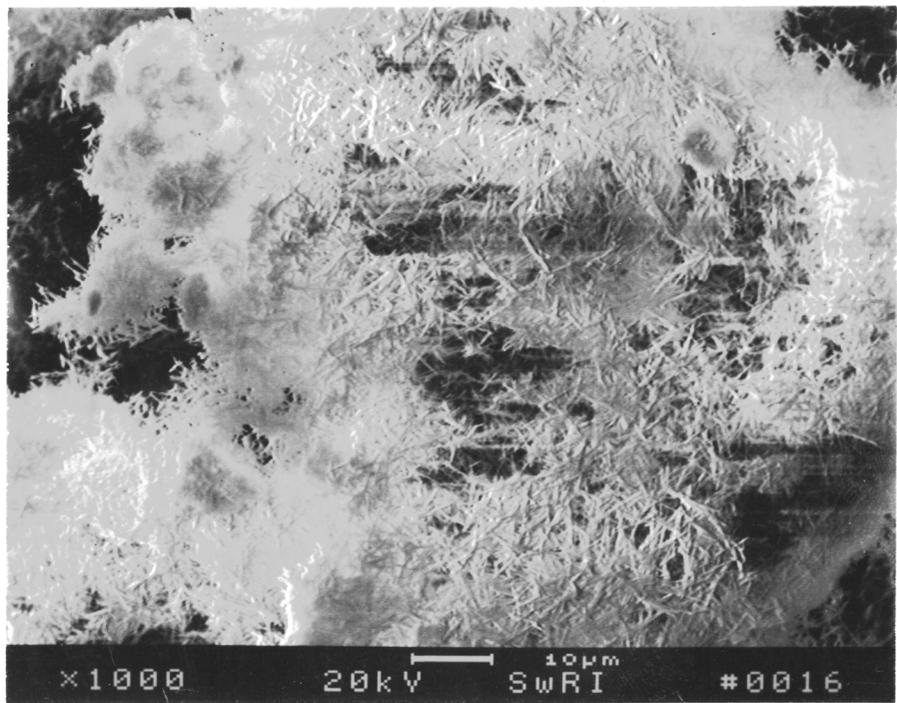


0.000

VFS = 4096 20.480

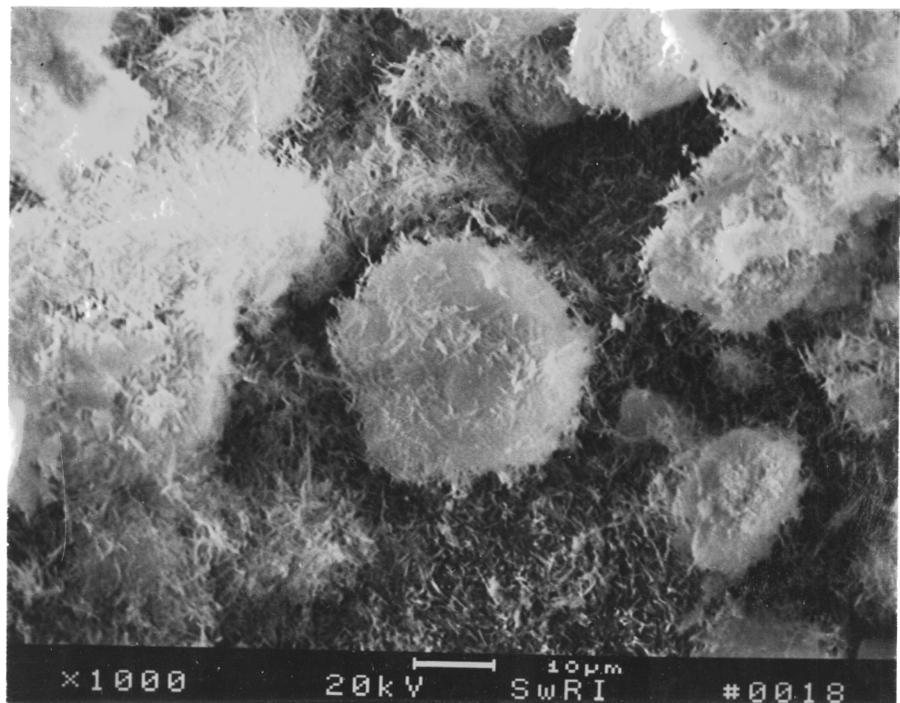
152

7/14/95 - Uranophane #1



73677

7/14/95 #2



73678

7/12/95 #3

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56762

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20A	Si as SiO ₂	16.6%
	Mg as MgO	0.300%
	Ca as CaO	6.31%
	P as P ₂ O ₅	0.179%
	LOI (Loss @ 1000°C)	13.0%
	U as U ₃ O ₈	60.0%
	TOTAL	96.3%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56762D

Project No.: 20-5704-152

Sample ID	Analysis	Duplicate Result
20A	Si as SiO ₂	16.8%
	Mg as MgO	0.318%
	Ca as CaO	6.32%
	P as P ₂ O ₅	0.142%
	LOI (Loss @ 1000°C)	13.0%
	U as U ₃ O ₈	60.1%
	TOTAL	96.6%

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET FOR MINOR METALS

Sample ID

20A

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56762

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Duplicate Result (ug/g)	Detection Limit (ug/g)
Aluminum	<10	<10	10
Antimony	<10	<10	10
Arsenic	<25	<25	25
Barium	<4	<4	4
Beryllium	<2	<2	2
Boron	<20	<20	20
Cadmium	<4	<4	4
Chromium	<4	<4	4
Cobalt	<10	<10	10
Copper	<4	<4	4
Iron	154	177	10
Lead	<10	<10	10
Lithium	<4	<4	4
Manganese	<4	<4	4
Molybdenum	<4	<4	4
Nickel	<12	<12	12
Potassium	<40	<40	40
Selenium	<10	<10	10
Silver	<10	<10	10
Sodium	<25	<25	25
Strontium	<10	<10	10
Thallium	<10	<10	10
Tin	<20	<20	20
Titanium	<8	<8	8
Vanadium	<20	<20	20
Zinc	<20	<20	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56763

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20B	Si as SiO ₂	74.7%
	Al as Al ₂ O ₃	12.6%
	Fe as Fe ₂ O ₃	1.72%
	Mg as MgO	0.251%
	Ca as CaO	1.06%
	Na as Na ₂ O	4.36%
	K as K ₂ O	4.58%
	Ti as TiO ₂	0.248%
	LOI (Loss @ 1000°C)	1.11%
	TOTAL	101%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20B

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56763

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	866	4
Beryllium	2	2
Boron	<20	20
Cadmium	<4	4
Chromium	12	4
Cobalt	<10	10
Copper	16	4
Lead	25	10
Lithium	64	4
Manganese	282	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	126	76
Selenium	<10	10
Silver	<10	10
Strontium	106	10
Thallium	<10	10
Tin	<20	20
Vanadium	<20	20
Zinc	32	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56764

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20C	Si as SiO ₂	17.5%
	Mg as MgO	0.417%
	Ca as CaO	6.53%
	P as P ₂ O ₅	0.176%
	LOI (Loss @ 1000°C)	12.5%
	U as U ₃ O ₈	62.2%
	TOTAL	99.3%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20C

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56764

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Aluminum	<10	10
Antimony	<10	10
Arsenic	<25	25
Barium	<4	4
Beryllium	<2	2
Boron	<20	20
Cadmium	<4	4
Chromium	<4	4
Cobalt	<10	10
Copper	<4	4
Iron	120	10
Lead	<10	10
Lithium	<4	4
Manganese	<4	4
Molybdenum	<4	4
Nickel	<12	12
Potassium	<40	40
Selenium	<10	10
Silver	<10	10
Sodium	<25	25
Strontium	<10	10
Thallium	<10	10
Tin	<20	20
Titanium	<8	8
Vanadium	<20	20
Zinc	<20	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56765

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20D	Si as SiO ₂	17.5%
	Mg as MgO	0.392%
	Ca as CaO	6.47%
	P as P ₂ O ₅	0.167%
	LOI (Loss @ 1000°C)	13.0%
	U as U ₃ O ₈	61.1%
	TOTAL	98.6%

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MINOR METALS

Sample ID

20D

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56765

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Aluminum	<10	10
Antimony	<10	10
Arsenic	<25	25
Barium	<4	4
Beryllium	<2	2
Boron	<20	20
Cadmium	<4	4
Chromium	<4	4
Cobalt	<10	10
Copper	<4	4
Iron	221	10
Lead	<10	10
Lithium	<4	4
Manganese	<4	4
Molybdenum	<4	4
Nickel	<12	12
Potassium	<40	40
Selenium	<10	10
Silver	<10	10
Sodium	<25	25
Strontium	<10	10
Thallium	<10	10
Tin	<20	20
Titanium	<8	8
Vanadium	<20	20
Zinc	<20	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56766

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20E	Si as SiO ₂	67.2%
	Al as Al ₂ O ₃	18.7%
	Fe as Fe ₂ O ₃	5.35%
	Ca as CaO	1.11%
	Na as Na ₂ O	10.6%
	K as K ₂ O	5.07%
	Ti as TiO ₂	0.135%
	Mn as MnO	0.248%
	P as P ₂ O ₅	0.195%
	LOI (Loss @ 1000°C)	1.70%
	TOTAL	110%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20E

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56766

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	598	4
Beryllium	9	2
Boron	<20	20
Cadmium	<4	4
Chromium	11	4
Cobalt	<10	10
Copper	4	4
Lead	16	10
Lithium	38	4
Magnesium	588	19
Molybdenum	<4	4
Nickel	<12	12
Selenium	<10	10
Silver	<10	10
Strontium	706	10
Thallium	<10	10
Tin	<20	20
Vanadium	<20	20
Zinc	260	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56767

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20F	Si as SiO ₂	74.6%
	Al as Al ₂ O ₃	13.0%
	Fe as Fe ₂ O ₃	1.96%
	Mg as MgO	0.223%
	Ca as CaO	0.900%
	Na as Na ₂ O	5.23%
	K as K ₂ O	4.48%
	Ti as TiO ₂	0.226%
	Ba as BaO	0.106%
	LOI (Loss @ 1000°C)	0.691%
	TOTAL	101%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20F

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56767

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Beryllium	3	2
Boron	<20	20
Cadmium	<4	4
Chromium	9	4
Cobalt	<10	10
Copper	6	4
Lead	15	10
Lithium	48	4
Manganese	403	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	115	80
Selenium	<10	10
Silver	<10	10
Strontium	65	10
Thallium	<10	10
Tin	<20	20
Vanadium	<20	20
Zinc	59	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56768

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20G	Si as SiO ₂	17.5%
	Mg as MgO	0.378%
	Ca as CaO	6.22%
	P as P ₂ O ₅	0.159%
	LOI (Loss @ 1000°C)	12.8%
	U as U ₃ O ₈	58.5%
	TOTAL	95.6%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20G

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56768

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Aluminum	<10	10
Antimony	<10	10
Arsenic	<25	25
Barium	<4	4
Beryllium	<2	2
Boron	<20	20
Cadmium	<4	4
Chromium	<4	4
Cobalt	<10	10
Copper	<4	4
Iron	104	10
Lead	<10	10
Lithium	<4	4
Manganese	<4	4
Molybdenum	<4	4
Nickel	<12	12
Potassium	<40	40
Selenium	<10	10
Silver	<10	10
Sodium	<25	25
Strontium	<10	10
Thallium	<10	10
Tin	<20	20
Titanium	<8	8
Vanadium	<20	20
Zinc	<20	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56769

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20H	Si as SiO ₂	59.6%
	Al as Al ₂ O ₃	16.0%
	Fe as Fe ₂ O ₃	1.41%
	Mg as MgO	5.35%
	Ca as CaO	0.803%
	Na as Na ₂ O	2.83%
	K as K ₂ O	0.144%
	Ti as TiO ₂	0.195%
	Mn as MnO	0.180%
	LOI (Loss @ 1000°C)	14.9%
	TOTAL	101%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20H

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56769

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	266	4
Beryllium	4	2
Boron	<20	20
Cadmium	<4	4
Chromium	25	4
Cobalt	<10	10
Copper	<4	4
Lead	41	10
Lithium	256	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	<80	80
Selenium	<10	10
Silver	<10	10
Strontium	112	10
Thallium	<10	10
Tin	<20	20
Vanadium	62	20
Zinc	75	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56770

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20I	Si as SiO ₂	46.7%
	Al as Al ₂ O ₃	12.5%
	Fe as Fe ₂ O ₃	1.11%
	Mg as MgO	4.43%
	Ca as CaO	1.99%
	K as K ₂ O	0.153%
	Ti as TiO ₂	0.161%
	LOI (Loss @ 1000°C)	25.5%
	TOTAL	92.6%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

201

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56770

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	299	4
Beryllium	3	2
Boron	<20	20
Cadmium	<4	4
Chromium	9	4
Cobalt	<10	10
Copper	<4	4
Lead	26	10
Lithium	212	4
Manganese	562	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	<80	80
Selenium	<10	10
Silver	<10	10
Sodium	605	25
Strontium	286	10
Thallium	<10	10
Tin	<20	20
Vanadium	57	20
Zinc	53	20

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56771

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20J	Si as SiO ₂	53.5%
	Al as Al ₂ O ₃	14.3%
	Fe as Fe ₂ O ₃	1.27%
	Mg as MgO	4.84%
	Na as Na ₂ O	3.44%
	Ti as TiO ₂	0.185%
	LOI (Loss @ 1000°C)	23.4%
	TOTAL	101%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56771D

Project No.: 20-5704-152

Sample ID	Analysis	Duplicate Result
20J	Si as SiO ₂	55.0%
	Al as Al ₂ O ₃	14.8%
	Fe as Fe ₂ O ₃	1.31%
	Mg as MgO	5.00%
	Na as Na ₂ O	3.61%
	Ti as TiO ₂	0.190%
	LOI (Loss @ 1000°C)	23.4%
	TOTAL	103%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20J

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56771

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Duplicate Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	<10	10
Arsenic	<25	<25	25
Barium	53	53	4
Beryllium	4	3	2
Boron	<20	<20	20
Cadmium	<4	<4	4
Calcium	253	251	20
Chromium	8	12	4
Cobalt	<10	<10	10
Copper	<4	<4	4
Lead	26	29	10
Lithium	226	229	4
Manganese	263	263	4
Molybdenum	<4	<4	4
Nickel	<12	<12	12
Phosphorus	<80	<80	80
Potassium	530	550	40
Selenium	<10	<10	10
Silver	<10	<10	10
Strontium	<10	<10	10
Thallium	<10	<10	10
Tin	<20	<20	20
Vanadium	<20	<20	20
Zinc	63	61	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56772

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20K	Si as SiO ₂	58.1%
	Al as Al ₂ O ₃	15.3%
	Fe as Fe ₂ O ₃	1.37%
	Mg as MgO	5.46%
	Ca as CaO	2.49%
	K as K ₂ O	0.191%
	Ti as TiO ₂	0.199%
	LOI (Loss @ 1000°C)	25.5%
	TOTAL	109%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20K

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56772

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	315	4
Beryllium	3	2
Boron	<20	20
Cadmium	<4	4
Chromium	9	4
Cobalt	<10	10
Copper	<4	4
Lead	21	10
Lithium	221	4
Manganese	594	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	<80	80
Selenium	<10	10
Silver	<10	10
Sodium	629	25
Strontium	299	10
Thallium	<10	10
Tin	<20	20
Vanadium	61	20
Zinc	59	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56773

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20L	Si as SiO ₂	61.4%
	Al as Al ₂ O ₃	16.7%
	Fe as Fe ₂ O ₃	1.47%
	Mg as MgO	5.63%
	Na as Na ₂ O	4.07%
	Ti as TiO ₂	0.213%
	LOI (Loss @ 1000°C)	24.4%
	TOTAL	114%

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET FOR MINOR METALS

Sample ID

20L

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56773

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	52	4
Beryllium	3	2
Boron	<20	20
Cadmium	<4	4
Calcium	261	20
Chromium	8	4
Cobalt	<10	10
Copper	<4	4
Lead	20	10
Lithium	230	4
Manganese	258	4
Molybdenum	<4	4
Nickel	<12	12
Phosphorus	<80	80
Potassium	560	40
Selenium	<10	10
Silver	<10	10
Strontium	<10	10
Thallium	<10	10
Tin	<20	20
Vanadium	<20	20
Zinc	58	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56774

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20M	Si as SiO ₂	68.6%
	Al as Al ₂ O ₃	14.4%
	Fe as Fe ₂ O ₃	5.47%
	Mg as MgO	2.81%
	Ca as CaO	2.64%
	Na as Na ₂ O	1.12%
	K as K ₂ O	3.29%
	Ti as TiO ₂	0.578%
	P as P ₂ O ₅	0.238%
	LOI (Loss @ 1000°C)	10.0%
	TOTAL	109%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20M

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56774

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	613	4
Beryllium	<2	2
Boron	<20	20
Cadmium	<4	4
Chromium	74	4
Cobalt	16	10
Copper	29	4
Lead	28	10
Lithium	48	4
Manganese	419	4
Molybdenum	<4	4
Nickel	29	12
Selenium	<10	10
Silver	<10	10
Strontium	174	10
Thallium	<10	10
Tin	<20	20
Vanadium	142	20
Zinc	119	20

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

FOR MAJOR METALS

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Lab System ID: 56775

Project No.: 20-5704-152

Sample ID	Analysis	Sample Result
20N	Si as SiO ₂	74.7%
	Al as Al ₂ O ₃	14.8%
	Fe as Fe ₂ O ₃	5.62%
	Mg as MgO	2.93%
	Ca as CaO	2.74%
	Na as Na ₂ O	1.19%
	K as K ₂ O	3.43%
	Ti as TiO ₂	0.613%
	P as P ₂ O ₅	0.271%
	LOI (Loss @ 1000°C)	10.0%
	TOTAL	116%

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET
FOR MINOR METALS

Sample ID

20N

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SWRI

Date Received: 07/13/95

Matrix: Solid

Date Analyzed: 08/07/95

Lab System ID: 56775

Project No.: 20-5704-152

Analysis	Sample Result (ug/g)	Detection Limit (ug/g)
Antimony	<10	10
Arsenic	<25	25
Barium	582	4
Beryllium	<2	2
Boron	<20	20
Cadmium	<4	4
Chromium	66	4
Cobalt	19	10
Copper	28	4
Lead	23	10
Lithium	46	4
Manganese	388	4
Molybdenum	<4	4
Nickel	28	12
Selenium	<10	10
Silver	<10	10
Strontium	165	10
Thallium	<10	10
Tin	<20	20
Vanadium	130	20
Zinc	108	20