THE UNIVERSITY OF BRITISH COLUMBIA Chisbako 881807



March 5, 1992

Department of Geological Sciences 6339 Stores Road Vancouver, B.C. Canada V6T 1Z4

Tel: (604) 822-2449 Fax: (604) 822-6088

Dr. R. Lett Analytical Sciences Lab 541 Superior Street Victoria, B.C. V8V 1X4

Dear Ray:

FILE NO:

Please find enclosed the results of the XRD clay analyses of your samples. Since the object was to determine the clays present I ran partial scans from 3 to 30 degrees. The patterns for illite and glauconite are identical; sample colour is probably the best way to determine the presence of glauconite. None of the samples were green so I have assumed that only illite is possible.

Sample 91112 contains quartz and kaolinite; the collapse of the kaolinite structure with heating is diagnostic. Sample 43744 contains illite with no quartz. Samples 43745 and 43746 have both illite and quartz. The untreated patterns for 43747 and 43748 are difficult to interpret, but with glycolation the (001) peak splits and the spectra can be interpreted as mixtures of quartz and illite-montmorillonite. With heating the montmorillonite layers collapse leaving strong (001) illite peaks.

If you have any questions about the results please call me at 822-8238.

Yours sincerely,			
Len	SAMPLE #'S		
Lee A. Groat Asst. Prof.	43744	= c5 = c6	
	46	= C7	
1	47	= C8	
LOG NO: APR 02 19	48	= $C9$	
ACTION:	9///2	is a standard.	

Souples were crusted

then powdered with a
mortand people; pessed

though 20 weak, then

270 mesh.

The -63 um fraction

was seperated of

then centrifuge

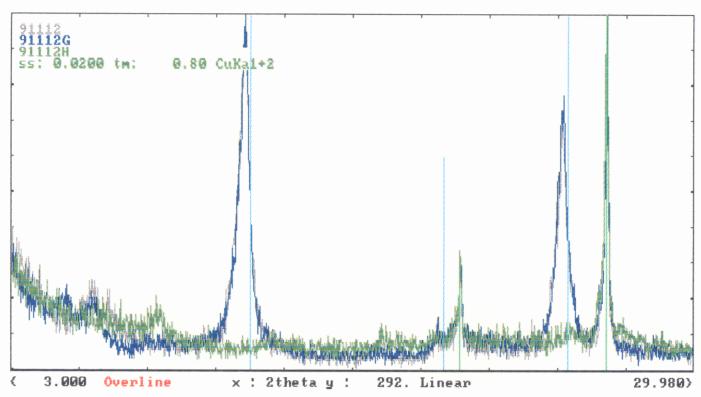
of -2 um.

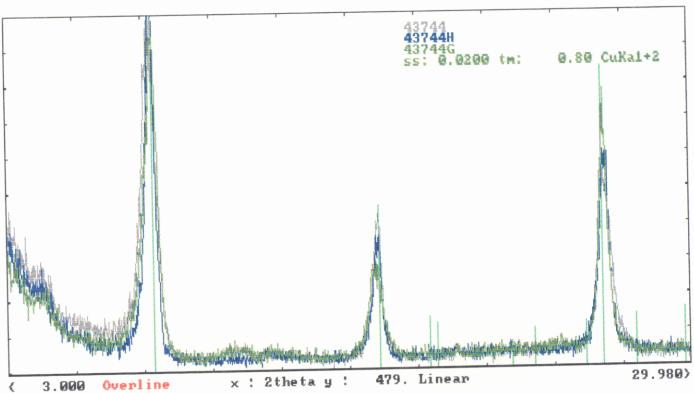
Civente Produce la prepunde

INVOICE - BCMEMPR, R. LETT (CLAYS)

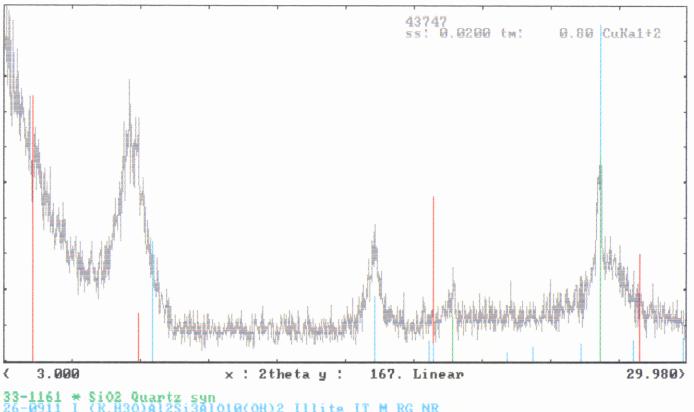
Method	Per hour	Hours	Total
SEM	\$90.00	0.00	\$ 00.00
XRD	\$40.00	3.90	\$156.00
Sample Preparation	\$70.00	0.75	\$ 52.50
Interpretation	\$70.00	0.50	\$ 35.00
TOTAL			\$243.50

Please make out your cheque to Dr. L.A. Groat, and send it c/o the Department of Geological Sciences, University of British Columbia, 6339 Stores Road, Vancouver, B.C. V6T 1Z4.

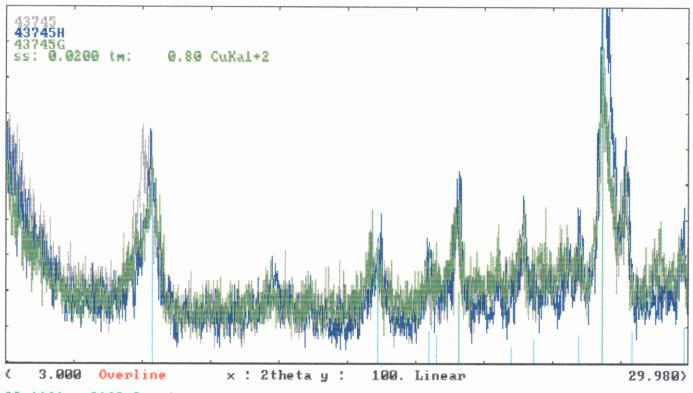




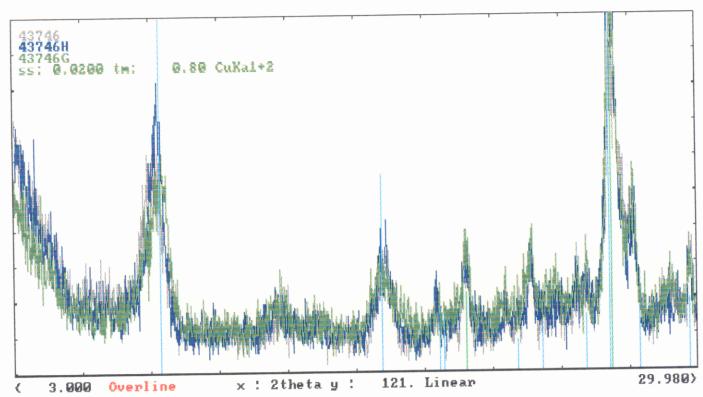
26-0911 I (K,H30)A12Si3A1010(OH)2 Illite IT M RG NR



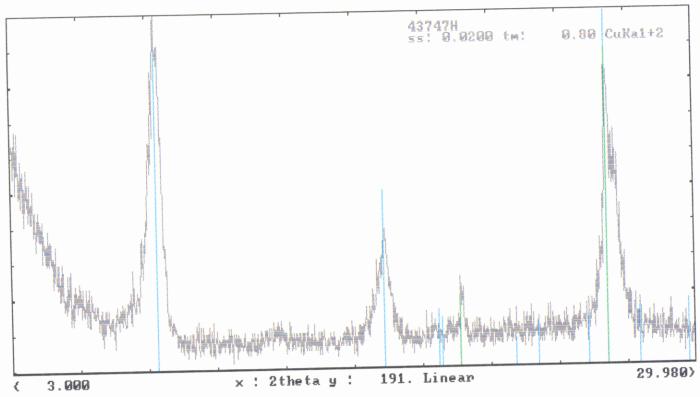
33-1161 * \$i02 Quartz syn 26-0911 I (K,H30)Al2Si3Al010(OH)2 Illite IT M RG NR 29-1499 Na0.3(Al,Mg)2Si4O10(OH)2.xH2O Montmorillonite A



33-1161 * \$i02 Quartz syn 26-0911 I (K,H30)A12\$i3A1010(OH)2 Illite IT M RG NR



33-1161 * \$i02 Quartz syn 26-0911 I (R,H30)A12Si3A1010(OH)2 Illite IT M RG NR



33-1161 * \$i02 Quartz syn 26-0911 I (R,H30)A12Si3A1010(OH)2 Illite IT M RG NR

