

File - Clay
Property File 015096
0935 020



INDUSTRIES LTD.

HEAD OFFICE • P.O. BOX 70 MEDICINE HAT, ALBERTA • POSTAL CODE T1A 7E7 • PHONE (403)-526-5901

DIVISIONS:
MEDICINE HAT BRICK & TILE - MEDICINE HAT ALBERTA
BRICK DIVISION
MEDICINE HAT BRICK & TILE - MEDICINE HAT ALBERTA
PIPE DIVISION
NORTHWEST BRICK & TILE - EDMONTON ALBERTA
REDCLIFF PRESSED BRICK - REDCLIFF ALBERTA
WESTERN CLAY PRODUCTS - REGINA, SASKATCHEWAN
RED RIVER BRICK & TILE - LOCKPORT MANITOBA
NATIONAL PORCELAIN - MEDICINE HAT ALBERTA

January 11, 1978

DEPT. OF MINES AND PETROLEUM RESOURCES	
Rec'd.	JAN 16 1978
Subject
File
PRINCE GEORGE, B.C.	

Mr. Gerald Klein, P. Eng.
District Geologist
Dept. of Mines & Petroleum Resources
1652 Quinn Street
PRINCE GEORGE, B.C.
V2N 1X3

Dear Mr. Klein:

RE: Your Clay Sample #93J2

We have passed your submitted sample through our Ceramic Laboratory and have the following remarks to make about it.

It appears to be a secondary kaolin, being a fine grained smooth quite plastic clay. It has a pyrometric cone equivalent of 30 1/2. It fires near white (may have a small amount of fine grained impurities such as iron oxide which is finely disseminated). It has a relatively low fired shrinkage of 3.9% at 2070°F (1132°C).

It could possibly be used as an additive raw material to pottery bodies, or other white ware bodies such as electrical porcelain or sanitary ware. If it were washed to remove the impurities it may lighten up in the raw color, (it could then be considered for paper use although there is some sign of quartz or fine sand present which perhaps makes it undersirable for paper use). Another use can be as a coating agent for herbicides, pesticides and fertilizer chemicals.

I enclose a copy of our work sheet and temperature gradient chart and a small hand pressed bar to give you an idea of the fired color of this material.

Yours sincerely,
I-XL INDUSTRIES LTD.

M. SHAYNA, P. Eng.
Director of Research & Product Development

MS:ld

Enclosures

Dec 8/77

Sample DEPT MINES & PET. RESOURCES
G. KLEIN - 1652 QUINN ST. PRINCE GEORGE BC

Lab. No. 77-44

Description: CLAY - 93J2
fine talcy feeling kaolinitic clay. lt grey - small lumps.

Location:

Geological Horizon:

PLASTICITY	WORKABILITY	HCI	DRYING	D.S.	T.S.	COLOUR
very good.	very good	NIL	good		10.2 cm - 9.8 " .4 " 3.92% Total shrink.	creamy white (no speck at 2070°F (1132°C
		pce - 30 1/2				

Remarks: Do pce - HAND PRESS + TGF bars.

This clay is a relatively good grade of kaolin - plastic type.
no too many impurities because of its near white color.

Date

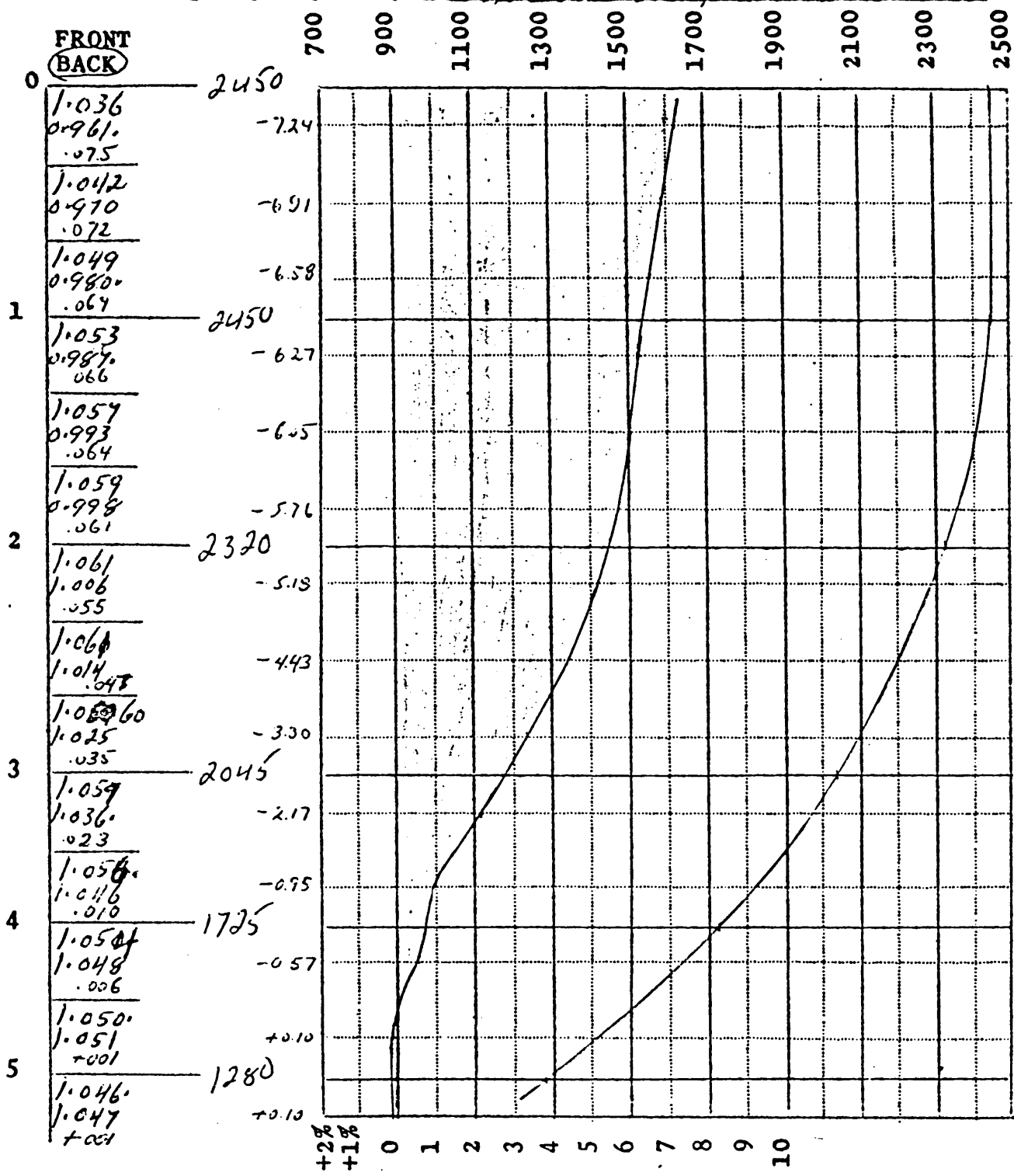
Signed

DATE: Dec 9/77

SAMPLE: 77-44

P.C.E. 30 1/2

CLAY 93J2 Dept Miner



FURNACE NO. 26981

BY: A.B.

SCHEDULE 2450

TEMP. GRADIENT FURNACE