ARKANSAS LIMESTONE COMPANY - MYERSVILLE OPERATION

Superintendent - Mr. E. R. Nelson

Number of Employees - 27

Product - High Grade Chemical Limestone

Mining Method - Underground (room and pillar method)

Size - The underground operation is now approximately 1200' X 1200' at the widest points. 50' X 50' X 29' pillars are left for support and 45' X 45' X 29' rooms are taken. The pillars are all on line.

Operations - In blasting a V-cut drill face is used. Each face is 45' X 29' and has 72 holes drilled in it. Each hole is loaded with 20 sticks of powder. Both faces are blasted at once resulting in approximately 850 tons of limestone per blast. The limestone is then loaded into trucks by diesel operated shovels and hauled out of the mine to the crusher where it is dumped and crushed to specifications.

Approximate Tonnage Production per day - 1,700 tons.

History - Started in 1948 as an open pit quarry then went underground because of overburden to obtain a purer product.

Geology - Working the lower 29' of the Fernvale limestone and flooring on the Kimmswick limestone. Plan to take the Kimmswick at later date.

Uses of Product - (1) Mainly used for flux by the Reynolds Mining Company, Bauxite, Arkansas.
(2) Some used as an agricultural lime

June 12, 1958

Philip J. Sterling

Philip J. Sterling

July 22, 1958

Mr. David White
Geological Department
Alcoa Mining Co.
Bauxite, Arkansas.

Dear Dave:

Enclosed is a copy of our assay results of the limestone core you furnished us. We have a split of the core on file at our laboratory here in Little Rock in case you should wish to refer to it.

Thanks again for assisting with Dr. Chowdbury's tour.

Sincerely,

Drew F. Holbrook
Geologist

DFH/mlc
Encl.

2059

Mr. Drew F. Holbrook
White River Limestone Project

July 21, 1958

Analysis: Cores from Drill Hole No. C-303 Alcoa Limestone Property

ANALYSIS

SAMPLE NO.	FORMATION	DEPTH FROM	DEPTH TO	THICKNESS	$CaCO_3$	$MgCO_3$	SiO_2	Al_2O_3	Fe_2O_3
1	Lafferty	35	40	5	53.8	12.12	24.6	6.89	.83
2	Lafferty	40	45	5	65.5	8.16	19.0	5.55	.53
3	Lafferty	45	50	5	56.6	9.28	24.0	7.46	.74
4	St. Clair	50	55	5	76.6	6.04	13.2	2.73	1.27
5	St. Clair	55	60	5	84.5	3.93	9.0	1.70	1.14
6	St. Clair	60	65	5	92.0	2.50	4.2	1.25	.55
7	St. Clair	65	70	5	95.5	1.99	1.9	.88	.44
8	St. Clair	70	78	8	94.8	1.93	1.6	.06	1.42

Date completed 6/26/58

MICROSCOPIC DESCRIPTION (10X) OF ALCOA DRILL HOLE # C-303

(Head of Love Hollow Quarry)

Sample Int.	Description
28 - 30	Chert breccia, grey-white, with purple frag. incl. and pyrite throughout, scat. (St. Peter type) rounded and frosted sand grains, medium to coarse, with calcite filling veins, spherical green inclusions 1/2" in diameter (glau.?), decrease in sand, pyrite and glau. at 30'. (Penters-Lafferty cont. at 30')
30 - 34	Limestone, grey-white, very sil. with scattered foss. at 32', numerous at 33'.
34 - 35	as above with 3' of chert breccia dark grey and black, calc.
35 - 40	Limestone, grey-white, very sil.
40 - 49	Limestone, grey-tan, more calc.
49 - 50	Limestone, buff, calc., very foss. (Lafferty-St. Clair contact at 50')
50 - 54	Limestone, grey-tan, cypto, crystn.
54 - 58	Limestone, tan, crystn. with scattered foss., slightly sil.
58 - 64	Limestone, grey, crystn., matrix with scattered pink frag. and foss.
64 - 66	as above with incr. foss.
66 - 73	Limestone, tan, foss., and frag. with yellow argil. partings.
73 - 77	Limestone, grey, very fn. to fn. crysten. matrix, many foss. and frag.
77 - 78	as above with scat. foss. and frag. (St. Clair-Cason cont. 78')
78 - 83	Shale, grey-green, and mot. with red, calc.
83 - 84	Shale, green, with many phos. nod. and trace glauc.
84 - 85	Micro. breccia chert, phos., and glauc.
85 - 86	Shale, green, grey, red. (Cason-Fernvale cont. 86')
86 - 87	Limestone, pink and green, coarsely frag. and (?foss.)

End of Survey's portion of core

RECORD OF MINERAL ANALYSIS

Sample No. 2059

Date 6/2/58

From: Drew F. Holbrook

Report to DFH

White River Limestone Project

Letter Accompanying: Yes ___ No X File Under Limestone

Location: County Izard, SE¼ SE¼ Sec. 4 Twp. 8N Rge. 1W

Cores from Drill Hole No. C-303 Alcoa Limestone Property

Mineral Suspected By Sender: Chemical Limestone

Kind of Material: Lafferty and St. Clair Limestones

Test Recommended For: Run complete analysis only on those samples

98% or more carbonate. By:

ANALYSIS

SAMPLE NO.	FORMATION	DEPTH FROM	TO	THICKNESS	$CaCO_3$	$MgCO_3$	SiO_2	Al_2O_3	Fe_2O_3	MnO	P	S
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4	St. Clair	50	55	5	76.6	6.04	13.2	2.73	1.27			
5	St. Clair	55	60	5	84.5	3.93	9.0	1.70	1.14			
6	St. Clair	60	65	5	92.0	2.50	4.2	1.25	.55			
7	St. Clair	65	70	5	95.5	1.99	1.9	.88	.44			
8	St. Clair	70	78	8	94.8	1.93	1.6	.06	1.42			

Analysis By:

Date Completed:

Remarks: