Attidavitor Statement of Ar	mual Assessment Work
(PROOF OF I	LABOR)
ON UNPATENTED MI	NING CLAIM
TO ALL WHOM IT MAY CONCERN:	\(
The undersigned hereby certifies (certify) that \$5200.00 dollars for labor and imp the year ending September 1, 19.87, on the (list claim	n names here)
Dorothy Claim #'s 1 thro	ough 52
Placer Claims BLM NMC #	s 144267 through 144318
listed on attached page.	
loue (placer) mining claim(s) in Sectionsee atta Pioche Mining D owned by Karblehead Line Company for the purpose of holding said claim(s).	ched listing Range , in the istrict, in Lincoln County, Nevada,
	\ \ \
The claim map showing said claim(s) is filed as Lincoln Con	Document No. 67635 in the nty records.
Said labor was performed or improvements mad	c by (name and address) <u>Marblehead</u>
Lime Company, 222 North LaSalle Stre	
between the dates of September 1, 1986 and	August 31, 1987 and consisted of
Geologic Mapping and sampling of th	
units throughout the Dorthy Claim B	lock, and acrial mapping to
identify and develop different quar	ry site options.
/_/	
(Describe work done, and claim	or part of claim affected)
Dated thisday of	August , 19 87
\ \	Jane & Bath
	(Name of subscriber)
<i>/</i> / /	(Witness)
	//_
st it i	(Witness)
Subscribed and sworn to before me this	
day of lugust 1987.	
Judy Ario Attorner	RECORDER'S STANP
My on Control Stylic Adda	Ns. 87558
Note 1: This Affidavit or Statement of Annual Assessment work must be filed within 60 days	PLED AND RECORDED AT REQUEST OF Lames E. Bastian
after the performance of labor or making of improvements.	- 27 August 1987
Note 2: "Each locator shall file two coning of a	A: QL MINUTES PAST I.L O'CLOCK A.M IN BOOK
I map prepared in accordance with NRS 517 ngn	FECORDS, FAGE 488 LINCOLN
with the county recorder in which the claim is located not later than September 1, 1972." NRS	CLURIY, NEVADA
517.230, Subsection 3.	Frank C. Hulse COUNTY RECORDER
	,

CARLISLE FORM NO. 60 N

76 PAGE 488 BCCK

							- N
		***	\$00K1	PACE	. ₩	N HC I	
		000 DI T/// D	***	E4+	/7510	1527 A	111717
COROTAY # 1 , PLACER	R1/2,343/4,3E1/4,	SEC. ZS.TIX.R		541 542	67568 67569		141267
DOROTHY # 2 , PLACER DOROTHY # 3 , PLACER	\$1/2,53/4,53/4,			513			144268
CORDINY # 3 , PLACER ORDINY # 4 , PLACER	\$1/2,\$21/4,\$21/4, \$1/2,\$21/4,\$21/4,	SEE, 25,T1N,R SEE, 36,T1N,R		513 511	<i>155</i> 7€ 12571		144269
COROTHY # 5 , PLACER	\$1/2,161/1,151/1,	SEC. 36,TIX,R		545	8225		144271 144271
DOROTHY # 6 , PL/CER		SEE, 36 Tix.R		546	67573		111272
CORCTAY 1 7 , PLACER	\$1/2,5£1/1,1£1/1,	SEC. 36, TIR,R		517	6/5/4		14273
	N1/2, NE1/1, SE1/1,	SEC. 36, T1K, 2		548	P)2)2		111274
DORUTHY # 9 , PLACER	\$1/2, NE1/1, SE1/1,	SEE. 36 TIX.R		549	6/2/4	-	144275
DOROTHY # 10 , PLACER	K1/2,SC1/4,SE1/4,	SEC. 36.71%,R		550	<i>6</i> 7577		141274
DORUTHY # 11 , PLACER	E1/2,551/4,551/4,	SEC. 36, T1N, R		551	67573	1000000	144277
DORETHY # 12 , PLACER	\$1/2,582/4,582/4,	SEC. 31, T1N, R		557	67579		144278
DOKSTRY # 13 , PLACER	N1/2,S01/1,S01/4,	SEC. 31,TIN,R		223	67381		144279
DOROTHY # 14 , PLACER	\$1/2,841/4,541/4,	SEC. 31.T1N,R		554	67581		144288
CORPTHY # 15 , PLACER	K1/2,NG/1,SG/1,	SEC. 31,T1K,R		555	67582		141281
DORGTHY # 16 , PLACER	51/2,581/4,881/4,	SEC. 31, T1N, 9		554	67583	76.	111282
DORCTHY # 17 , PLACER	ki/2,83/1,81/1,	SEC. 31, T1X, 8	67E 35 🎤	227	67581	NC #	144283
DORUTHY # 1B , PLACER	S1/2,H3/4,H3/4,	SEC. 31,T1%,#	A/E 35 /	558	67585	RC i	144284
DOROTHY # 19 , PLACER	R1/2, R21/1, R21/1,	SEC. 31,112,5	۵7E 35	559	47586	HC t	1442B\$
DOROTHY # 28 , PLACER	51/7,541/4,541/4,	SEC. 30; TiN, 8	ట్: 35	560	67567	MC i	141268
DOROTHAY # 21 , PLACER		SEC. 30, T1X, 9	&FE 35	561	67588	NC #	14287
DOROTHY # 22 . PLACER	,,	SEC. 31, Tix, s	ಟಿ⊼ ್ 35	562	67539	NIC #	111298
DOROTHY # 23 , PLACER		SEC. 31.TIX.R		563	67570	NC #	141289
DOROTHY # 24 , PLACER		SEC. 31,TIX,X	157E 35	561	67591	NC 1	141291
DOKSTIKY # 25 , PLACER	-, , , ,	SEL. 31,TIR,8	LJE 35	565	67592	NC 4	144291
DOPOTHY # 25 , PLACER		SEC. 5,TIS,RI	ΣΣ 35	566	67573	NC I	144292
DORCTHY 1 27 , PLACSR		_SEC. 5,715,24		567	67394	HC #	144293
DOROTRY # 28 , PLACER		SEC. 5, T19,26		568	67595	NC #	111291
DOROTHY 1 29 , PLACER		SEC. 6,TIS.P.		569	67596	NC I	111295
DOROTHY # 50 , PLACER		SEC. 6,715,82		57.0	67597	NC (111294
DOROTHY # 31 , PLACER		The second secon		571	67598	HHC (141297
CORUTHY # 32 , PLACER		SEE. 6,715,R		572	67579	NC I	111298
DORUTHY # 33 , PLACER	30. 41	100		573	67600	WC f	144299
DOROTHY # 34 PLACER DOROTHY # 35 PLACER		SEC. 6,TIS,7		571	67601	785C #	144306
DOROTHY # 35 , PLACER DOROTHY # 36 , PLACER				575	6760Z	MD #	144301
DOROTHY 1 37 , PLACER				576	67603		144302
DEFECTAT / 38 , PLACER		SEC. 6, TIS, 2		577	67404	NOT:	144303
DOROTHY 99 PLACER				57B	67695	WHO #	111301
DOKUTIKY # 40 , PLACIN				58a	67606	NC #	111305
DOPUTHY # 11 , PLACER				581	67607	MC #	111304
DORUTHY # 12 PLACER				582	67608 67608	i#C ≢	111307
DORSTHY # 43 , PLACER				263	67619	NHC #	144301
DORSTRY # 44 , PLACER				584	67611	NC #	144307
DORDTHY # 45 , PLACER				585	67611 67612	HC I	144311 144311
DOROTHY # 46 PLACER				586	57613	AC I	144311
DONOTHY & 47 , PLACER				587	67614	HC I	144313
DOROTHY & 48 , PLACER				568	67615	NC 4	144314
DOROTRY # 19 , PLACES				589	67616	HC #	144315
CORDITAY # 50 PLACES				591	67617	NC 4	141314
DOROTHY # 51 , PLACES				571	67619	NC +	144317
DOROTHY # 52 , PLACED	H1/2, NE1/4, SH1/4,			592	67619	NC F	144318

NOUNT DIABLO MERIDIAN

SUMMARY REPORT

on the

DOROTHY CLAIM BLOCK

PIOCHE MINING DISTRICT

LINCOLN COUNTY, NEVADA

By: James E. Bastian Marblehead Lime Co. Geologist

1970 Graduate from Central Missouri State -University with a Bachelor of Science Degree in Geology. Fifteen years experience in Industrial Minerals, specializing in Metallurgical Grade Carbonates

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Placer Claims Dorothy #1 through 52 are located over the east 'low lying foothills of the Highland Peak Range in Sections 35 and 36, Township 1 North, Range 66 East, Sections 30 and 31, Township 1 North, Range 67 East, and Sections 5, 6, and 7, Township 1 South, Range 67 East, Pioche Mining District, Lincoln County, Nevada. For specific locations, see the attached Plat Map.

The outcrop exposures throughout the claim block are middle and upper Cambrian in age and of the Highland Peak Limestone formation. Described by Wheeler and Lemmon; the Highland Peak Limestone formation consist of 17 lithologic units of light to dark grey limestone and dolomite with alternating thin, platty, and massive heds. The purpose of this study was to identify and map these units, some of which are metallurgical grade, within the claim block.

Numerous faults, of which the larger more prominent ones are shown on the attached colored map, resulted in frequent offsets and repetition of the different units exposed. To aid in identifying and determining the actual sequence of the different units as they occur within the claim block, a reconnaissance was made of the Highland Peak Limestone Formation as it is exposed in a type section located in the Panaca Hills about 3/4 miles

Northeast of Panaca, NV. Comparison of the two areas indicated that most of the units exposed within the claim block are from the very upper portion of the Highland Peak Formation.

⁽¹⁾ University of NV. Bulletin #31, p37-42, p45-47, 1939

The different units exposed on the Dorothy Claims are generally steeply dipping in an East to Northeast direction.

Mapping was done by making a series of traverses over the low lying ridges following along the contacts between the various units. Samples for chemical analyses were made by taking random composites from each unit at different locations throughout the claim block.

Starting at the top of the section and shown on the attached colored map, is the following sequence of the different units described.

Yellow

Alluvial cover.

Brown

limestone, medium grey, medium to coarse crystalline, gritty texture on weathered surface.

Orange

Alternating strata of light buff grey, fine crystalline limestone, off-white blocky to platty dolomite, and buff to light brown laminated argillaceous limestone. Down section the light buff grey, fine crystalline limestone beds become thicker and more frequent with a decrease in the dolomite and argillaceous sections (samples for chemical analyses of this unit were taken only from the thicker limestone beds near it's base).

Blue

Limestone, light grey on fresh surface, fine crystalline with frequent off-white to light yellow calcite stringers and blebs. Weathers very light buff grey with a slightly bumpy surface - a few thin beds weather with a very smooth flat surface.

Light Green

Dolomite, very light grey and coarse crystalline on a fresh surface. Weathers off-white with a coarse gritty surface. Very hard, thick bedded. In some locations there appeared to be a 3 to 4' thick alternating transition with the overlying limestone unit.

Dark Green

Dolomite, very hard, bright grey and coarse crystalline on a fresh surface. Weathers a soft dull grey with a fine gritty texture on the surface. Exposures, generally massive, were not as thick in the center of the claim block as they were at the north and south ends.

Purple

Limestone, dark grey, fine crystalline overall with occasional thin white calcite stringers on the fresh surface. Weathers dark to very dark grey with some sections having numerous light buff grey blebs. The visual transition with the overlying dolomite is only moderate but can be easily picked by using a solution of xylene cyanole.

Slashed Purple

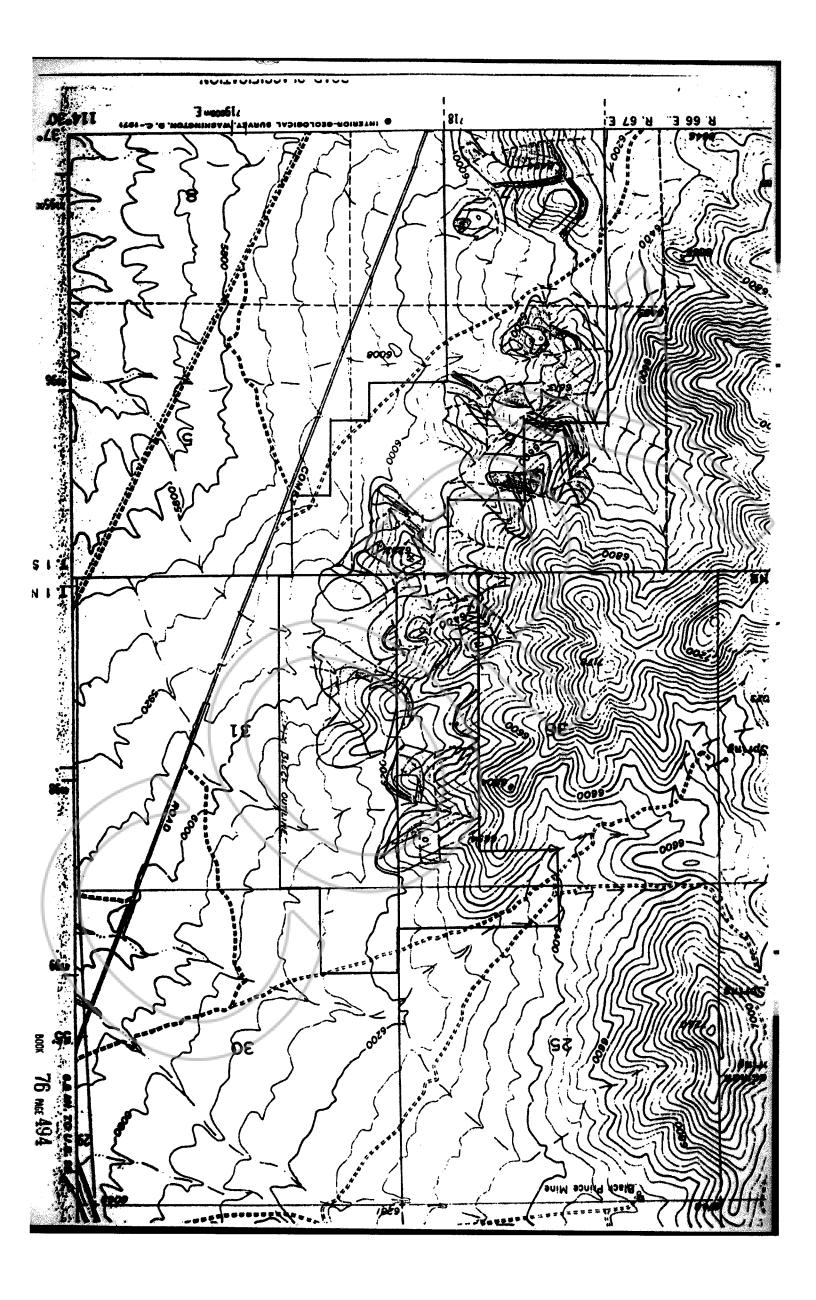
Dark to medium grey beds of limestone alternating with some buff to off-white thin blocky beds of dolomite and thick sections of very platty argillaceous limestones. (For the current study this unit was not mapped in detail).

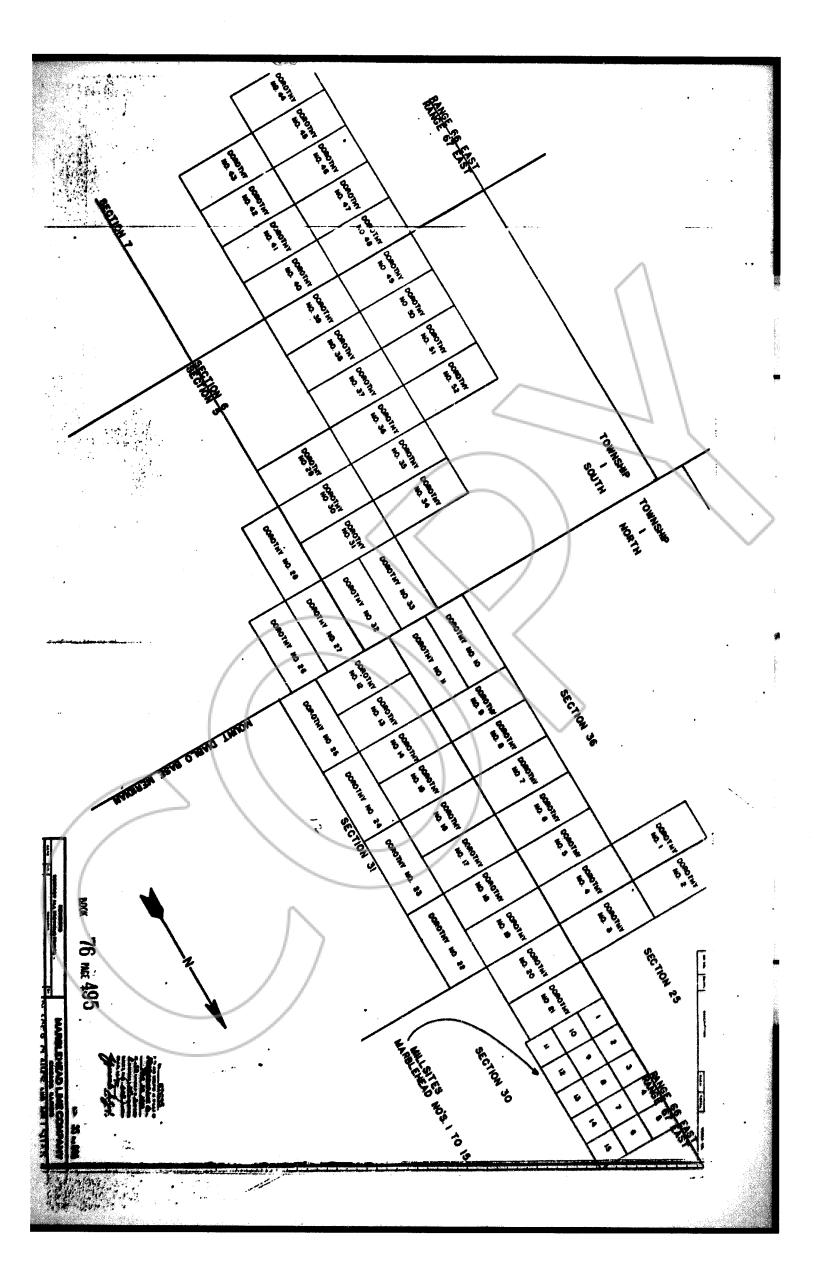
Composite samples taken were chemically analysed by a Bausch and Lomb - ARL 840 XRF. Overall averages of these analyses, for 6 of the 7 units described above, attached.

(Note: The two dolomite units colored light and dark green in this report are classified as a single unit by Wheeler and Lemon). Specific analyses, field measurements, and tonnage calculations are currently considered confidential.

Marblehead Lime Company James E. Bastian Geologist

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MARBLEHEAD LIME COMPANY

222 North LaSalle Street - Chicago, Illinois 60601

ANALYSIS OF LIMESTONE OR LIME PRODUCTS

ample Marked (Nate Received AU			Plant_PIOCHE_NV.
CONSTITUE	NTS DETERMINED	7	CONSTITUENTS CALCULATED*
NAME	FORMULA	Per Cent	NAME FORMULA Per Cen
ilics	S10 ₂	1.41	Calcium Carbonate } CaCO ₃
ron Oxide	Fe ₂ 0 ₃	.120	Calcium Hydroxide Ca(OH) 2
luminum Oxide	A1 ₂ 0 ₃	.28	Magnesium Carbonate } MgCO3
alcium Oxide	CaO	43.40	Magnesium Hydroxide } Mg(OH)2
lagnesium Oxide	МgO	9.71	Calcium Sulphate } CaSO ₄
Total Sulphur	S		Available Calcium Ca(OH) ₂ Hydroxide
Sulphur Trioxide	so ₃		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Phosphorus Pentoxide	P ₂ O ₅	.005	
Carbon Dioxide	co ₂		SIEVE ANALYSIS U. S. Sieve Series
Free Water	н ₂ о		Sieve No.
Fluorine	F		Opening in Microns
Manganese	Mn	.005	% Passed
Loss on Ignition		45.02	REMARKS: Note: Each 0.0001% to 1 Part Per Million
Titanium Dioxide	TiO ₂	.008	
Heavy Metals	as Pb		AVERAGES OF COMPOSITE SAMPLE M3500 SE
Specific Gravity			
Available Lime			
Total Neutralizing	Calc.		
Value in Terms of CaCO3	Det.		
Plasticity			
Soundness			

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MARBLEHEAD LIME COMPANY

222 North LaSalle Street • Chicago, Illinois 60°01

ANALYSIS OF LIMESTONE OR LIME PRODUCTS

MaterialL	IMESTONE			110	- William		
Sample Marked <u>LICHT</u>	BUFF GREY LIY	LESTONE MA	COLOR ORANGE	ab No	SEE REMA	RKS	
Date Received		<_			TOCHE. NV		
CONSTITU	UENTS DETERMINED		CONST	TITUENTS	CALCULATED	•	
NAME	FORMULA	Per Cent	NAME		FORMULA	Per	Cent
Silica	Si02	.57	Calcium Carbon	ate	} ceco3		
Iron Oxide	Fe ₂ O ₃	.049	Calcium Hydrox	ide	Ca(OH) 2	<u> </u>	
Aluminum Oxide	A1203	.30	Magnesium Carb	onate	} MgCO3	<u> </u>	
Calcium Oxide	CaO	54.66	Magnesium Hydr	oxide	Ng(OH) ₂	_	
Magnesium Oxide	MgO	.60	Calcium Sulphs		} CaSO ₄	<u> </u>	
Total Sulphur	s	.002	Available Calc Hydroxide	14m	Ca(OH) ₂	-	
Sulphur Trioxide	so ₃						
Phosphorus Pentoxi	de P ₂ O ₅	.005	1 1				
Carbon Dioxide	co ₂				ANALYSIS ieve Series	·	
Free Water	н ₂ о		Steve No.				
Fluorine	F		Opening in Microns			1	
Manganese	Mn	.005	% Passed				<u> </u>
Loss on Ignition		43.59	Note: Each		ARKS: % == 1 Part	Per Mill:	ion
Titanium Dioxide	TiO2	.013					
Heavy Metals	as Pb		AVERAGES OF	COMPOS	ITE SAMPL	E M3500	SERI
Specific Gravity							
Available Lime							
Total Neutralizin Value in Terms of CaCO3			_				
Plasticity							
Soundness							
NOTE: Unless of hm by the Ame	herwise noted all erican Society fo culation must be	r Testing Ma	teriais.	ide accoi	rding to me	thods pre	escrib

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76 PAGE 497 Signed 1 E BASTIAN / CRETA

222 North LaSaile Street • Chicago, Illinois 60601

ANALYSIS OF LIMESTONE OR LIME PRODUCTS

Material HIGH CALCIUM LIMESTONE	Date8/12/87
Sample Marked LIGHT BUFF GREY (MAP COLOR BL	UE) Lab No. SEE REMARKS
Date ReceivedAUGUST 1987	Plant PIOCHE NV.
	CONSTITUENTS CALCITATED*

CONSTITUENT	S DETERMINED		CONSTITUENTS CALCULATED*
NAME	FORMULA	Per Cent	NAME FORMULA Per Cent
Silica	SiO2	.48	Calcium Carbonate } CaCO3
Iron Oxide	Fe ₂ 0 ₃	.057	Calcium Hydroxide Ca(OH) Ca(OH)
Aluminum Oxide	A1203	. 26	Magnesium Carbonate } MgCO3
Calcium Oxide	CaO	54.77	Magnesium Hydroxide } Mg(OH)2
Magnesium Oxide	MgO	.57	Calcium Sulphate } CaSO ₄
Total Sulphur	s	.004	Available Calcium Ca(OH) ₂
Sulphur Trioxide	⁵⁰ 3	·	\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Phosphorus Pentoxide	P ₂ 0 ₅	.004	
Carbon Dioxide	co ₂		SIEVE ANALYSIS U. S. Sieve Series
Free Water	н ₂ о	_	Sieve No.
Fluorine	1		Opening in Microns
Manganese	Ma	.002	% Passed
Loss on Ignition		43.80	REMARKS: Note: Each 0.0001% = 1 Part Per Million
Titanium Dioxide	τ10 ₂	.010	
Heavy Metals	as Pb		AVERAGES OF COMPOSITE SAMPLE M3500 SERIE
Specific Gravity			
Available Lime			
Total Neutralizing Value in Terms of CaCO3	Calc. Det.		_
Plasticity			_
Soundness			

NOTE: Unless otherwise noted all determinations have been made according to methods prescribed hum by the American Society for Testing Materials.

* Method for calculation must be noted for each constituent.

BIOX 76 PAGE 498 Signed J E BASTIAN /GRETA BATES

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			t • Chicago, Illino			Annual Control
		IS OF LIMESTO	ONE OR LIME P	PRODUCTS		
Material DC				Date_	8/12/87	1
Sample Marked <u>OFF</u>		GREEN)		The state of the s	o. SPE REMAR	8 K G
Date ReceivedAU				N.	PIOCHE NV	
	NTS DETERMINED	,		CONSTITUE	NTS CALCULATED*	
NAME	FORMULA	Per Cent	NAME		FORMULA	Per Cent
Silica	SiO ₂	.13	Calcium Ca	rbonate	} caco3	Fer com-
Iron Oxide	Fe ₂ 0 ₃	.167	Calcium Hy	/droxide	} Ca(OH) ₂	
Aluminum Oxide	A1 ₂ 0 ₃	.05	Magnesium	Carbonate		
Calcium Oxide	CaO	30.57	Magnesium	Hydroxide		
Magnesium Oxide	Mgo	21.41	Calcium Su	794	}caso ₄	
Total Sulphur	s	.006	Available (Hydroxide	Calcium	Ca(OH) ₂	
Sulphur Trioxide	so ₃					
Phosphorus Pentoxide	P2 ^O 5	.005	\ \			
Carbon Dioxide	co ₂				E ANALYSIS	
Free Water	H ₂ O		Sieve No.	T " " "	Sieve Series	- -
Fluorine	F		Opening in	/ 		
Manganese	Mn	.005	% Passed	+-+		
Loss on Ignition		47.53		RET	MARKS:	
Titanium Dioxide	TiO ₂	.018	Note: Ea	ach 0.00015	% = 1 Part Per	Million
Heavy Metals	as Pb					
Specific Gravity	^		AVERAGES O	F COMPOSI	ITE SAMPLE MO	3500 SERIE
Available Lime			-			
Total Neutralizing Value in Terms of CaCO ₂	Calc.					
Plasticity						
Soundness	/	·			•	
NOTE: Unless otherwis m by the American Method for calculati	ion must be not	ted for each	constituent.	_		
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222 North LaSalle Street • Chicago, Illinois 60601 ANALYSIS OF LIMESTONE OR LIME PRODUCTS

Material Do	OLOMITE		Date 8/12/87
Sample Marked GREY	DOLOMITE (MA	P COLOR D	ARK GREEN) Lab No. SEE REMARKS.
Date ReceivedA			Plant PIOCHE, NV.
CONSTITU	ENTS DETERMINED		CONSTITUENTS CALCULATED*
NAME	FORMULA	Per Cent	NAME FORMULA Per Cent
Silica	SiO ₂	1,38	Calcium Carbonate } CaCO ₃
Iron Oxide	Fe ₂ 0 ₃	.191	Calcium Hydroxide Ca(OH) ₂
Aluminum Oxide	A1 203	. 20	Magnesium Carbonate } MgCO3
Calcium Oxide	CaO	30.57	Magnesium Hydroxide } Mg(OH) ₂
Magnesium Oxide	MgO	20.80	Calcium Sulphate } CaSO ₄
Total Sulphur	S	.005	Available Calcium Ca(OH) ₂
Sulphur Trioxide	so ₃		\ \
Phosphorus Pentoxid	e P ₂ O ₅	.005	
Carbon Dioxide	CO ₂		SIEVE ANALYSIS U. S. Sieve Series
Free Water	н ₂ о		Sieve No.
Fluorine	- E		Opening in
Manganese	Mn	.005	Microns 7 Passed
Loss on Ignition		46.69	REMARKS: Note: Each 0.0001% = 1 Part Per Million
Titanium Dioxide	T102	.028	
Heavy Metals	as Pb		AVERAGES OF COMPOSITE SAMPLE M3500 SERI
Specific Gravity	1 7		
Available Lime			
Total Neutralizing Value in Terms of CaCO ₃	Calc. Det.		
Plasticity			_

NOTE: Unless otherwise noted all determinations have been made according to methods prescribed hum by the American Society for Testing Materials.

• Method for calculation must be noted for each constituent.

Signed___

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222 North LaSalle Street • Chicago, Illinois 60601

ANALYSIS OF LIMESTONE OR LIME PRODUCTS

Date Received <u>AUGUST 1987</u>		Plant PIOCHE NV
CONSTITUENTS DETERMI	NED	CONSTITUENTS CALCULATED.
NAME FORMULA	Per Cent	NAME FORMULA Per Cen
Silica SiO ₂	1.17	Calcium Carbonate } CaCO3
Iron Oxide Fe ₂ O ₃	071	Calcium Hydroxide Ca(OH) 2
Aluminum Oxide Al ₂ 0 ₃	.31	Magnesium Carbonate } MgCO3
Calcium Oxide CaO		Magnesium Hydroxide } Mg(OH)2
Magnesium Oxide MgO	1.52	Calcium Sulphate CaSO4
Total Sulphur S	.006	Available Calcium Ca(OH) 2
Sulphur Trioxide 503		__\
Phosphorus Pentoxide P ₂ 0 ₅	.003	
Carbon Dioxide CO ₂		SIEVE ANALYSIS U. S. Sieve Series
Free Water H ₂ O		Sieve No.
Fluorine F	•	Opening in Microns
Mangane se Mn	.002	% Passed
Loss on Ignition	43.62	REMARKS:
Titanium Dioxide T10 ₂		Note: Each 0.0001% = 1 Part Per Million
Heavy Metals as Pb		AVERACES OF SOMPOSITE SALES
Specific Gravity)	AVERAGES OF COMPOSITE SAMPLE M3500 SER
Available Lime		
Plesticity		
Soundness		

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