ELECTRO METALLURGICAL CO.

PRODUCTS COMPANY

Lynch Bros. Seattle Drillers

December 1947 January 1948

Hole Number	CeO	MgO	3102	R203	PHos.
1	97.96	. 84	.50	.22	. 023
2	98 12	.88	.18	11	.0177
3	90 58	.69	7.40	•49	.025
4	85 65	.71	12.29	.82	033
5	97 31	.63	1.37	.28	.0156
Average of 5 ho	les 93 92	•75	4.35	.38	.027

No 5 Hole 185 deep from floor down.

No 1 - No 2 Holes 385 feet each.

No 3 Hole 200 feet last 4 - 5 feet heavy Selica and stopped.

200 feet into Cave and Crevice. .

No 4 Hole 100 feet N and E Hole No 3. 12 to 15 feet at 195
In good limestone 210 Hole stopped. 225 feet.

Bert Mc Mair

Portland, Oregon April 29, 1945

Report on Marble Mountain Limestone Deposit near Grants Pass, Oregon, owned by A. A. Muck & Son

By Robert D. MacAfee

Introduction:

The following report on the limestone deposit on Marble Mountain covers the writer's inspection and study made, first when making an overall study of limestone deposits in the northwest for Presport Sulphur Commany and a more detailed study when retained by owners. It incorporates the U.S. Army Engineers' report on the area compiled by Dr. Hodges, and also detailed deta on adjoining Pacific Portland Company quarry which is operating. A general market survey by Mr. Wm. Derry, Industrial Engineer for Pacific Gas and Electric Company is attached.

Location and Ownership;

Marble Mountain is located about three and a half miles south of the hamlet of Wilderville, which is nine miles southwest of Grants Pass in Southern Oregon. See attached denoral township map.

The description is specifically:

Government Lots 4, 5, 6, and 7 covering We of We of Section 30, Township 37 8., Range 6 W. W. M. in Josephine County, Oregon, making a total of \$/160 acres.

This property comprising approximately 160 acres, covers a main part of the limestone deposits on Marble Mountain, as well as its apex, and is owned by A. A. Muck & Some of Portland, Oregon, having been located in 1906, and held since that date.

Adjoining on the north, the Beaver (now Pacific) Portland Cement Company have a quarry which is in active 800' ton a day operation.

The Beaver quarry is used to supplement and sweeten the limestone used in their cement plant at Gold Hill, and to fill orders in the northwest for limestone used in the paper industry. The description of this quarry, costs

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of mining, average analysis, etc., are set forth in attached report taken from Dr. Hodges' compilation referred to above. Also, description is given in Oregon State Department of Geology bulletin No. 14C. Vol. 11, Section 1 on pages 161-164.

Transportations

Paved highway runs from Grants Pass to Wilderville, and a gravelled road following old railroad grade runs to property along Cheney Creek. A new road is being put in on property eliminating steepest grades to the main limestone faces by Mr. Muck where quarry site will be located. This road will be wide enough to allow moving in of shovels, compressors, and other necessary quarry equipment without difficulty.

A standard broad guage railroad runs from Grants
Pass to Wilderville and a private spur runs to Marble Mountain which serves the Beaver quarry. This road is the
California-Oregon Coastline Railroad, and uses equipment
of the Southern Pacific Lines. It is under lease to
Portland Gement Company, who use the Marble Mountain siding
for loading their limestone. The limestone is brought down
the mountain side from the quarry to the railroad by a car
tram.

A car tram will be installed to bring limestone from the Muck quarry down the mountain thence by truck to the railroad siding at Wilderville. The tram will be about 1200° long from 2600° el. down to 1700° el. The plant site at Wilderville is also advantageous for the location of crushing plant with material flow through it by gravity. (See attached flow sheet). The line from Wilderville to Grants Pass is a public carrier and rates attached to Oregon points are from Wilderville.

Geology, Analysis and Tonnages:

Dimestone from several place on property was burned in 1898 by local people using wood-fired kilns, but since 1906, when Mr. Muck and partners acquired ground, they have only prospected and opened up the various faces without doing anything commercially. They have had several offers to sell but did not want to let the property go.

The limestone beds are massive and thick, dipping

steeply striking N. 30° East and running from 100' to 500' wide and are of unknown depth. Croppings on the mountain side offer a face of possibly 300' in width with 50' backs to start on, which will increase in ratio of 1 to 2 from starting face as quarry is mined as limestone rises to several hundred feet above site. The site lies advantageously for getting tonnages out rapidly and at low sosts. The grade from everall samples taken seems to have remarkably little variation. There are three prominent quarry sites eponed to some extent. See map.

The upper one which shows the lowest phospherous content will be developed first. This site was sampled by U.S. Army Engineers as noted in Dr. Hodges review attached, and is listed as deposit "B" (see map) with following average analysis:

Ca0 NgO Aloo, Pool 850 CO2 58,00% 42,00%

3/

Similar sample taken by MacAfee from above face and whalysed by Electro Metallurgical Company (Union Carbide) pant

Ca9 MgO Al₂O₃ and P CO₂ 55,59% 0.43% 0.10% Pe₂O₃ 0.003% 43.98%

Pacific Carbide Company made analysis of a 50 lb. sample and averaged phosphorous 0.0085. These general samples show this face to be extremely high grade and pure. The material meets all qualifications for metallurgical grade of lime and also earbide use, and can be classed as premium quality. The tonnage that shows is large and a survey is being made to block it in definite limits, also for exact detailed sampling. These results are attached.

The next face which has been epened is a little lower in elevation than above and has been epened for a width of over 100 feet. It is noted in Dr. Hodges report as bedy "e" (See map).

U. S. Army Engineers sample on this block are as follows:

GaO NgO AloO, PeO, 8eO, P. 60, 84.06% 0.41% 1.72% 0.06% 0.04% .01% 45.99%

Pacific Carbide analysis on Phosphorous was: 0.011\$

While the phospherous content is a little higher than upper site, this is very high grade and massive Br. Redges estimates 12,000,000 tons can be blocked out on above site. Present detailed survey and sampling results are attached.

The third limestone showing located in Section 25 (See map) had a kiln on it in early days. The tonnage that can be developed is largely due to its being at lower elevation. It is not planned to work this face at present.

Analysis from general sample across face by Electro Met. Co. is as follows:

800 MgO Al.O. and 800, P. Ign. less or 84.83% 0.48% 0.23% PagOg 0.6%% .014% 60.

The phosphorous content seems to be a little higher on this sample. Others are down to .00%. All the limestone expected is a clear grey to mottled lighter grey, even, fine-grained, hard, and brittle material. The mottled appearance, according to Hodies, being caused by an admixture of light-colored aragonite in places. Wall rocks are metamorphic sedimentaries of greenatone. Limestone is classified as Jurasaic age and as of Galice Series with greenatone being of elder age, possibly Triassia. As shown by geologic map some serpentine lenses show on contacts also.

From expased sections the townages that can be figured are large. Dr. Hodges gives a figure of 40,000,000 that can be developed. From my survey, possible townages can be computed at 18,000,000 minimum.

Limestone generally shows different grades in various strates or bods. The interesting and attractive feature of this deposit is the remarkably even analysis shown by the samples taken in the different sections. This is due to the massive character and thickness of strates.

In the Beaver quarry the deposit is somewhat different, being more stratefied with a fault cutting through on Mast side giving a width on one side of it, of 100 feet, where limestone is very high grade 98 4 0000ge

This section is being mined exclusively for paper rock, while the main body is a little lower grade running 32% 0000, which is used for sement-plant exectener. This deposit, however, is not continuous with the Muck deposit and is of different character. The old Beaver Portland Company twied for years to acquire the Muck property and they hold deposits farther south in Section 31.

General Uses and Standards:

In limestone deposits the impurites contained, in add tion to the Calaium Carbonate (CaCog) content, effect the uses that limestone is suitable for. Not deposits carry an excess of some one or more of these elements. The following table gives the limits allowable for the high-grade metallurgical uses. If the wantly is within these limits, it is glassed as premium, and will meet the various standards necessary for any use.

Constituents

Percentages

6a00 ₃
Oa0 MgO
Pedrides
Alg ⁰ 5 810 710
Imperitos
=

9745 54.3245 0.5 to 1.55 if uniformly distributed 0.035 to 0.55 0.s-1.05 1.2-3.05 if uniformly distributed 0.03-0.5 .004-.015 5.0 minus

The physical requirements are: (1) That in blasting and handling, the rock shall retain a lump form and produce little sand or dust; (2) That rock be not too dense nor coarsely crystaline and (5) That it burn to a high calcium (less than 5% MgO) lime.

The Mick deposit shows it to be well within the minimum standards hence, ideal. The grade for Serbide limestone has been hard to maintain in W. W. as lew phosphorous deposits worked have been depleted and new ones are, in many eases, too isolated from railread er econ transportation to develop with any reasonable sublay. Those producing have been unable to fill Oregen's demand. The Padific Carbide Company need 100 tens of this grade daily to make 80 tons of Carbide grade burned lime. Alestre Metallurgical Company need 150 tens for the same use. Both companies would be willing to fill these daily needs from Marble Mountain due to the lew phosphorous content which at upper face runs from 0,005% to .01% as against 0.015% that is best that they can get from present sources in Mastern Oregen. Carbide grade must

have very low photoberous content and brings promites

The paper industry requires a high grade pure limestone on 94% of better, taken as lump material of
4 5"te-18". About 500 lbs of limestone is used per tem
of pulp and total market in N.V. is now 120,000 tone
yearly. On agrigultural limestone, ground to mimes
10 mesh, fregen's needs are well ever 200,000 tone
yearly. These demands and the various ether uses are
detailed in the attached general report on N.W. limestones by MacAfee and also the report by Pr. Wm. Derry.
The main fact is that the market demand is not being
met, and What limestone is one of the four basic products
that must be produced for industry to progress in N.W.
Thus, increasing production is essential.

Surned lime has always ecumanded a premium price in the West above the U.S. national average of \$7.80 per ton. This has been due to freight differential, and lack of adequate modern kilms to supply demand. With facilities available to furnish lime a definite market is here that will be profitable and continually increase in sise. The Stauffer Chamical Company distributes a large daily tonnage through their morthern states, retail outlets, and have expressed their interest in handling the plants distribution.

In summation, the tennage of limestone needed with the known steadily increasing demands in post war period both in manufacture and agriculture is in excess of 500,000 tons in N.W. as shown by Derry's Market Survey.

Programs

Mr. Muck has road into property and is gotting it completed and surfaced. He has shovels, belidespre, compressors, trucks and tools on hand, for the mining side.

A trammy and grushing plant with adequate storage bins must be installed. Estimates on this equipment, also flow sheets and costs are attached herewith. The plan is for 500 tons production per day, which, with a 5-day operating week, will reduce 150,000 tons per year. This amount can be disposed of without corrying any large stock pile and plant layout and distribution is so designed.

There has been a successful development of a small lime burning furnace worked out by Utah Lime Stone Company, this is known as the Ellernan kiln. These kilns are being used in direct competition with rotarys there, and have been successful. They can be installed in small units of 5 to 10 ton capacity at an installation cost of \$1,000 per ton. One operator per shift can handle several as they are continuous and are oil fixed. It is planted to put in 15 tons capacity as a trial pilot / ant at a later date and to increase them as needed. Costs of burning lime are shown in enclosed breakdown.

The magainment and material on hard furnished by My. Mak represents an investment of \$50,000 exclusive of property valuable. The preparation, crushing plant, and operating capital, will represent an additional investment of \$75,000.

Sosts and Sales;

preparation of various grades of limestone including sising, ready for shipment, will average \$0 cents per ton. Americation of investment distributed over 4 years at the rate of minimum production of 130,000 tons per year, will be 96 cents per ton. The loverall costs as computed ave. \$2.86 per ton that is given above is for raw limestone production. The selling prices f.o.b. plant range from \$1.60 for paper rock, \$3.50 to \$4.50 for agriculture use with specialised products still higher so it is safe and conservative to estimate a minimum net ave. profit of \$1.04 per ton for all material marketed. This would amount to \$136,000 per year on a \$-day week production schedule of 500 tons per day.

On burned line plant planned later the breakdown of costs including the \$1.86 per ton mining, crushing and amortisation write-off attached gives \$6.25 per ton. As shown by market price, burned line in the West has averaged from \$11.00 per ton to \$24.50 present price for high grade material or \$17.50 everage selling price, f.o.b. plant; less production costs of \$6.25 and adding \$1.25 per ton for amortisation of investment on kilns hydrator, etc. A profit of \$10.00 per ton is left which on a 15 ton per day rate is 5,000 tons a year burned line operation to start. This tonnage would show a possible \$50,000 net return yearly. One and a half tons of raw limestone are needed to produce 1 ton of lime.

Attached are cost figures (for burning) of 50 representative operating lime plants in the U.S. compiled

by Mr. Dohrer of Kennedy Van Saun Company. These burning easts vary from \$4.25 per ton down to \$2.50 giving an average of \$3.50. In above estimates this average cost is doubled for safety so it is well within operating range in the west.

Independent cost estimates on limestone production are attached herewith by Mr. Dohrer consulting engineer of Seattle with Kennedy Van Saun Mfg. and Engineering Company who has made examination study of the property. Mr. Dohrer has recently completed two large plants in the Morthwest, both in Washington. Ar. Dohrer's estimates on dosts per ton are considerabl lower than the ones estimated by MacAfee in this report.

August 11001

The Marble Mountain deposit of limestone can be put into production in a few months, or as soon as crushing plant and tram are installed and completed. On a 500 ten per day behedule, a ready sale is assured. The nueds in the northwest are or wing, and are not being met, due to difficulty in finding rew material of high grade quality in an economically advantapeous location. Added investment needed will be \$75,700 to put in complete plant. This investment can be amontized in 4 years or sooner if desired. Year around operation is assured in southern Oregon due to favorable climatic conditions. Therough investigation has been conducted on all phases. State Bureau of Coolegy, Foundville Administration Engineers, and outside consulting engineers have inspected deposits and verified quality and grades. Market surveys and assurances of sales have been conducted, which leads to the conclusion that this operation can be classed as a basic and essential one that will fill a need that is not being met to date in Oregon, Northern California, and Southern Washington industries.

Re: Grants Pass Lime Products, Inc. - Limestone

Sec. 30, T37S, R6W, W.M.

Wilderville, Oregon

From: R. L. Anderson

This property was presented by Mr. O. W. Sorensen, Vice President of Uranium Corporation of America, 527 Failing Building, Portland 4, Oregon. The property is under 99-year lease—about 90 years yet to run—to Grants Pass Lime Products, Inc., the stock of which is all owned by Mr. and Mrs. Muck and Mr. and Mrs. Conley. The ground is held as unpatented mining claims, there being seven Terry claims, eight Portland Rock claims, eight Carly Ann claims, and eight Virginia claims. Only two of the latter are not completely under control of Mr. Muck and one other closely associated individual. The claims cover the following:

October 29, 1957

The W_2 of the W_2 of Section 30, T37S, R6W, WM, The E_2 of Section 25, T37S, R7W, WM. The SW_4 of Section 25, T37S, R7W, WM.

According to Mr. Sorensen, the property can be delivered for a total price of about \$350,000.

The property was inspected alone October 7, 1957. It is reached by proceeding along the Redwood Highway 199 ten miles from Grants Pass to Wilderville, thence two miles up the Applegate River southeasterly, thence about three miles up Cheney Creek on County road, thence three miles southeasterly up private, well-graded road to the quarry.

The property immediately lost part of its value upon the realization that the California and Oregon Coast Railway track had been taken out not only down Cheney Creek but also all the way to Grants Pass. This necessitates an eighteen mile truck haul.

The quarry already opened by Grants Fass Lime Products exposes lime across 200 feet and about 150 feet vertically. The beds immediately adjacent to, and above, a 14-foot porphyritic sill have been the major source of production. Sampling by the writer indicates as expected that this is the purest lime. A 23-foot sample assayed 54.4% CaO, equivalent to 97.1% CaCO3. A sample of thirty pieces taken from a pile which had been hauled down the hill and sized assayed 54.1% CaO. The three other samples were 52.7%, 53.7%, and 53.2%.

Bedding at the northeast exposure strikes NIOE and dips 60SE. The porphyry sill exposed at the floor of the quarry strikes N2OE and dips 60SE. A shale footwall exposure at the NW end of the quarry strikes N3OE and dips 30SE. These give the general attitude of the bedding.

Sunshine samples have been plotted on the accompanying sketch and their true lengths perpendicular to the dip are shown. They are tabulated below.

	Feet		Calculated	<i>4</i> 0	%	
	Cut	CaO	CaCO3	Insol.	$R_{2}O_{3}$	%F
SM 509	120	52 .7	94.1	2.5	1.0	
510	100	53.7	95.9	0.6	1.0	
511	23	54.4	97.1	0.6	1.0	
512	15	53.2	95.0	1.2	1.2	
513	Crab from Pile	54.1	96.6	0.6	0.5	

Electro Metallurgical Company apparently had Lynch Bros. of Seattle drill five holes on the property during December and January of 1947 and 1948. Their limes were good but the phosphorus is too high in every case. Their results are tabulated below.

Hole No.	Depth	$CaCO_3$	MgO	$\operatorname{\mathtt{SiO}}_2$	R ₂ 0 ₃	P
1	385	97.96	.84	.50	.22	.023
2	385	98.12	.88 40	.18	.11	.018
3 1.	200 225	90.58 8 5. 65	.69 .71	7.40 12.29	•49 •82	.025 .033
5	185	97.31	.63	1.37	.28	.016
Ave.		93.92	.75	4.35	.38	.027

Sampling by the Army Engineers and by MacAfee are reported from upper and from lower outcrops but which of these corresponds with the Electro sampling and with Sunshine sampling is not clear because of the absence of Lr. Hodges' map. The results follow, showing very slight phosphorus at the upper face.

	CaO	MgO	A1203	Fe ₂ 0 ₃	Si0 ₂	c o ₂	P
Upper Face:	55 . 85	0.33	0.01	0.31	0.06	42.00	
Army Electro	55.39	0.43		.10	0.00	42.00	0.003
Pacific Ca		0.149		• 40		46.77	0.0055
Lower Face:							
Army	54.06	0.41	1.72	0.06	0.04	43.99	0.01
Pacific Ca	ırbide						0.011

Conclusions:

Sunshine sampling results indicate that high-grade limestone is available at the property but that its true thickness is 23 feet perpendicular to the dip into the hill. Most of this bed has been mined which will necessitate starting a new cuarry floor. To achieve 40 feet horizontally of mineable high-grade limestone bed, 120 feet horizontally of shale, two porphyry sills, and a poor limestone bed would need to be removed. This would give an additional 30 feet of elevation on the good bed. The next bench 30 feet lower would necessitate removing 160 feet for another 40 feet of good lime.

Most of the deposit is not as high-grade as represented, is too poor for burning and carbide use. The really good bed will become increasingly more expensive to produce. The removal of the railroad is a further deterrent.

Recommendation:

This deposit is not thought to warrant further consideration at present.

UTAL DEPARTMENT OF GEOLOGY AND HINELE INDUSTRIES

2033 First Street Baker, Oregon 1069 State Office Building
Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name	me in full_		Damon Le 1	лерт, а т 3				
Post of	fice addres	S		Box 0, He	eth Plains	regon		
Are you	a citizen	of Gragen	. yes D	ate on wh	in sample	is sent	July 2, 1	1957
Name (o	r names) of	owners o	f the prop	erty	Leonard A	& Associates		
Are you	haring lab	or' <u> </u>	M.	ALE JOU II	dilling or e	shipping ore	no Ro	
Name of	claim samp	ole obtaine	ed from	The B	Rock			
, Lo						description ographical p		m,
Con	inty Ya	salington.			Mining Dist	crist	· · · · · · · · · · · · · · · · · · ·	
								of SE
How far	from passa	ble road?	بلان		····	Name of	road Skyl	ne Blvd.
0 1	Char	nel (lengt	th) Grab	Assay Silica		Descr 1000 ft.		
	no. 1					25		
Sample	no. 2	(Samp	les for a s	sav shoul	d be at lea	ast 1 pound	in weight)	
,		, <u>1</u>				· · · · · · · · · · · · · · · · · · ·		
				(Signo	d) <u>Damon I</u>	L. Leonard		
DO	NOT WRITE	BELOW THIS	LINE - F	OR OFFICE	USE ONLY -	- USL CTHER	SIDE IF DES	IRED
Sample 1	Description	3au	xite.					
July 1	o o o o a a post o i o				·			· · · · · · · · · · · · · · · · · · ·
							Je: 20,	.90%
Sample		LD		VER	SILICA	IRON	ALUMINA	TITABIUM
number -21495	oz./T.	Value	oz./T.	Value	\$102	Fe203	11209	T10 ₂
10 × 1	• ~ ~	• •	• • •	ers seg	2.684	29.88%	41.54%	1.30%
Report :	Lssued	Ca	ard filed		Report ma	ailed 7-16-	57 Called	for

STATE DEPARTMENT OF GEOLOGY AND LINERAL INDUSTRIES

2033 First Street Baker, Oregon

Your name in full Damon L. Leonard

1069 State Office Building Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SALPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Post office add	iress	Во	x G, Koz	th Plains,	Oregon		
Are you a citiz	zen of Oregon	? <u>yes</u> Da	te on wh	nich sample	is sent	July 2, 19	57
Name (or names) of owners o	f the prope	rty	Leonard &	Associates		
Are you hiring	labor	n o A:	re you n	milling or	sh i pping or	e? 20	
Name of claim	sample obtain	ed from	Не	achas		······································	
Location	of property c give locati						wn,
County_	Washington			Mining Dist	trict		
	2 N. Ra						ET OF HAS
How far from pa							
Sample no. 1 (1	~- 554?-11)	<u> </u>	Fego.	11203 1, 8102			
Sample no. 2	(Samp	les for ass	ay shoul	d be at lea	ast 1 pound	in weight)	
			(Signe	ed) Dem	on L. Leona	rd	
DO NOT VIRI	ITE BELOW THI	S LINE - FO					SIRED.
Sample Descript	tion Ba	urites					
Jempio Dobotip	32011					· · · · · · · · · · · · · · · · · · ·	
		··· ··································				Fo: 6.08	<u> </u>
Sample	GOLD	SILV	ER	SILICA	IRON		TITATIUM
number oz./	. Value	oz./T.	Value	\$102	Fe203	11203	T102
P-21496 No. 2		~ ~ ~		3.62	8.69%	55.26%	1.42%
Report issued_	C	ard filed_		Report ma	ailed 7-16	-57_Called	for

TATE DEPARTMENT OF GEOLOGY AND MINERAL AND STRIES

2033 First Street Baker, Oregon 1069 State Office Building Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SALPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in full	Damon L. Leons	ird			
Post office address	Box G. Nor	th Plains, O	regon		
Are you a citizen of Orego	on? yes Date on	which sample	is sent	June 16, 1	957
Name (or names) of owners	of the property	Damon L.	Leonard &	Associates	
Are you hiring labor?	Are you	milling or	shipping ore	? 100	
Name of claim sample obtai	ned from	Meacham		······································	
Location of property give locat	or source of samplion with reference	7.00	-		m,
County Washingt	oń	_ Mining Dist	trict		
Township 2 No					d or and
How far from passable road	? 100 ft.		Name of	road Pumpk	in Ridge
Channel (ler	ngth) Grab Assa	for tron.	Descr	ription	
Sample no. 1 (P-5547-10)		ina, silica			
Sample no. 2(San	ples for assay sho	ıld be at lea	ast 1 pound	in weight)	
,	,		r r		
	(Si g	ned) Descr	L. Leonard		
DO NOT WRITE BELOW TH	HIS LINE - FOR OFFI	CE USE ONLY	- USE CTHER	SIDE IF DES	IRED
Sample Description Bs					· · · · · · · · · · · · · · · · · · ·
Sample GOLD	SILVER	SILICA	IRON	Fo: 22.	TITATIU
number oz./T. Value	oz./T. Value	8102	Te ₂ O ₂	A1.03	710,
-21429 547-10)	•••	1.56%	31.7%	41.30%	1.46%
Report issued	Card filed	Report ma	2-16	-57 Called	f

かけ First Street Baker, Oregon

Fortland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon.

REQUEST FOR SAMPLE INFORMATION

The State law governing analysis of samples by the State assay laboratory is given on the back of this blank. Please supply the information requested herein as fully as possible and submit this blank filled out along with the sample.

Your name in fu	11	Damer L.	Lesnard				
Post office add	ress	Box G,	North F	laius, Oreg	gon.		
Are you a citiz	en of Oregon	? Ds	ate on wh	mich sample	is sent	June 16, 19	57
Name (or names)	of owners o	f the prope	erty	Damon Leon	ard & Assoc	iates	
Are you hiring	labor?	nė ,	ire you n	filling or a	shipping ore	ne ne	
Name of claim s	ample obtain	ed from	Meach	4			
Location o	f property o give locati				-		n,
. County	Washington			Mining Dist	trict		
	2 Nr 112						d of NW
How far from pa	ssable road?				Name of	road Pumpk	da Rädge
	hannel (leng						
Sample no. 1 (P			Alumint	a. iron			
Sample no. 2 _	(Samp	les for ass	say shoul	d be at lea	ast 1 pound	in weight)	
	•		•		•		
			(Signe	ed) Damor	L. Leonard	<u> </u>	
DO NOT WRI	TE BELOW THI	5 LINE - FO	R OFFICE	USE CHLY -	- USE OTHER	SIDE IF DES	IRED
Samula Daganint	dan Ben						
Sample Descript	10n	X1 00 0					
Sample	GOLD	SILV	<i>[</i> ਜ਼ਾਮ	SILICA	IRON	: 11.17%	TITANIUM
number cz./T		03./T.	Value	\$102	Fe ₂ O ₂	Al ₂ 0 ₃	T10,
P-21428 5 <u>547-12)</u>		ي. رو مد	••	3.82%	15.97%	50.36%	1.70%
Report issued_	c	ard filed_		Report ma	niled 7-16 -	-57_Called	for

SIR-5





