## STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building - Portland, Oregon 97201

## REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information requested completely, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

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Location	of propert	y or sour	ce of samp	ole. (If	legal descr	iption is no	ot known, g	ive location	
Location of property or source of sample. (If legal description is not known, give location with reference to known geographical point.)									
County Lake trope and to an administration and light of the department of the depart									
County	37S	ecope and	112 2	Minin	ng district	nitouhann ai	Hota .		
Township	37S	Range	(8E):	8E Sect	ion 8	Quar	ter section		
How far	from passal	ole road a	nd name of	road bo	th samples	un sell (d) along loggin	ng roads	1	
o mou	the Co	ar received	in the ords	department	for vd bezyl	ssaved or and	be a		
3m	Channe	el (length	) Grab	Assay	for	De	escription		
Sample No. 1 Expansibility Linds tuo fines montanimistrab to allusar bina beviages nontaminated to allusar b									
	sent out sha	rermination	esults of de	ived and r	ormation rece	Ini IIA (a)			
Sample N	lo. 2 taemt	y the depar	published b	nd Imay be	inspection a	pildug of neg	o 5d		
(Samples	for assay	should be	at least	1 1b. in	weight; clay	v samples fo	or ceramic	testing at	
					be taken in				
from wal	1 to wall.	Location	of sample	in the w	orkings, to	gether with	the width		
should b	e recorded	ne departme			ne time such c	caunt from th			
			(	(Signed) _	Norman V.	Peterson			
Г	O NOT WRITE	E BELOW TH	TS LINE -	FOR OFFIC	E USE ONLY	- USE OTHER	SIDE IF DE	STRED	
Descript	ion Both	samples p	erlitic rh	yodacite					
Sample	GO	T.D	STI	VER	EXPANSION				
Number	oz./T.	Value	oz./T.	Value	AT 1850° F				
2-33117	-		_		180%				
ACG-162					100%				
2-33118					220%				
ACG-163									

Report mailed 8-30-68

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Кеер а с	opy of the	informati	on on each	sample f	for your own			
br	N. V. Pe	terson			Cities (ithin the ed within 10 v	niptdo at luss	is sent:	
ent,	Grants I	Pass, Orego	on 97526		in exchange M and relidence	ame of claim	m sampled:	
Please	print you	r name and	address i	in space a	above	ineral, civin		
					ching the sam	eneficial tou	d ed	The State of the S
					es and regulated and service and regulated a			
Location with ref	of proper erence to l	ty or sour	co of comp	ole. (If point.)	legal descr	iption is no	ot known, g	ive location
County	Lake	ers of the di	d by memb	Minir	ng district	ysis, except	ano.	
Township	41 S	Range	18 E	Sect	ion 5	Quart	ter section	-
					Along loggi			
				1	alyzed by the		escription	
Sample N	0.1		x	Expans	ibility	- TA		
					inspection a		be o	100
least 5 from wal	lbs.) IMPO	DRTANT: A Location	vein sampl of sample	e should in the w	weight; clay be taken in workings, tog N. V.	an even cha	annel across	s the vein
D	O NOT WRITE	E BELOW TH	IS LINE -	FOR OFFIC	CE USE ONLY .	- USE OTHER	SIDE IF DE	SIRED
Descript	ion Mass	ive perlit	e					
			4		EXPANSION			
Sample	the state of the s	LD		VER	20-28 mesh			
Number 2-32287	oz./T.	Value	oz./T.	Value	1850° F.			
ABG-188					100%			

Report mailed 10-19-67

References - Calif. Des of Mino Ball 176 p. 433 USB Mines Ball. One - Bins -Stein H. A., and Murach 1955 the growing of Serlit - Cates going mine processing of and Gerl. 1955 1, 700.2. p. 105-116 Chip Dir mire. Puliti-Serlite strictly defined, is a glassy volcanie rock characterine by an "onion skin" fracture, and which breaks just minute opherical fragments. Explite as well as many other silicens volcanie Oglasses well, upon rapid controlled heating, expand into a Grothy, white material that resembles purice and is valued as a light weight aggregate. In an industrial sense, all expandible volcanie glass is referred to as purlite. In general the chemical composition of perlite range from shyoleter to deciter; and most gerlite contain from 3 to Is percent water. It is usually gale gray, but some is black, reddish - brown, or ever green. Therrarysts of quarte feldspan, biolite, and homblende commonly are present, and in Some deposits are abundant enough to render the perlit unsuit able to commercial use, Many Eleposit are flows associated with thick accommedations of tuffs and flows of other volcanic rocks. In most places, flows of perlite bearing rocks are so recent that they Jane nearly bring netal, but lossely they are moderately deformed. Individual flows of perlite range in thickness from a few feet to several ten of feet, to and commonly Cover several square miles. Bolis of gerlite also occur as domes, dike, and selvages bordering andesitée and shypliter intrusive bodies. Most gerlites are formed from obsidian or othe glassy volcanie rock by a process of "perlitination", By the process a volcanie glass, originally containing and breceister, and hydrates to perlite. The completine of the hydration of the glass depends on the degree of becers permitter the water vapor. The water necessary for perlitigation appears to have been derived partly from the intruder works and garlly from appointe bodie that were being emploied nearby ??) In 1956 - growne perlite work needy for expansion sold set the plant In about 6.00 per ton - Expanded, in 1954 the price was about \$43.00 per

and some surplus is again creates. While future exploration are recovery of ores may be more coully than previous operations, there is a strong feeling by some that significant assitional low-cost wranium will be forms.

Perkite Feb. 1968 Mining Engineering p.124 to reflect an upward trend on both a domestic and world-wille scale. 414,000 - 1967 Domestin production increased from: 40t,000 - 1966 leading producers 1 New Mexico 2 Arizona 3 California 4 Nevada Greeke produces -100,000 tpy. plaster use is declining but still is an important volume Masonry fill

Cryogenic insulation in
silicone treatment to improve water regellancy is gaining acceptance Anticultural uses are increasing Carrier for fertilingers Structural concrete - lightweig Portable Expanders for job site expansion. "Predictions are that within 10 years bulk delivery of perlite aggregate will be the most popular method of handlings