702 Woodlark Building Portland, Oregon

BEND PUMICE

DESCHUTES COUNTY

Owner: Not known. Attention called to deposit by Don H. Peoples, Chamber of Commerce, Bend, Oregon.

Location: In the center of the NE¹/₄ of Sec. 7, T. 1 S., R. 12 E., about 2 miles south of Bend on the east side of the river, at the head of a small gulch just below irrigation ditch.

Area: Ownership of land not known.

Geology: The deposit appears to be a portion of the Deschutes
Formation (described in greater detail by Moore '37 and
others) rather than a part of the Crater Lake or Paulina
Buttes pumice falls; and thus may be of different grade
than most of the pumice derived from this part of the state.

The section as exposed in the tulch is as follows:

Deschutes lava flow		201
(level of irrigation	ditch)	
Fine-grained yellow tuff	(overburden)	101
Welded pumice-tuff, grey		31
Wash boulder beds		0-31
Unwashed pumice bed		151
Fine unconsolidated grey	ash	31
Deschutes lava	about	401
(river level)		

All of these layers, expecially the wash and welded tuff, are lenticular, and disappear or thicken within short distances. The pumice is entirely unsorted, and in size varies up to 3 inches in diameter. Probably 40% would go through a $\frac{1}{2}$ inch screen, and 55% would go through a 1/16 inch screen. In color it is very light grey and buff to white. It is rather fine textured and tough.

Over an area about 200 x 250 feet the overburden was only slight, and has been scraped off with a bulldozer. Possibly several acres are underlain by tuff without much overburden.

April 15, 1941 John Eliot Allen Geologist

702 Woodlark Building Portland 5, Oregon

Central Oregon Pumice Company (pumice)

Unclassified District Deschutes County

Old Name: Central Oregon Pumice Company Inc.

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Owner and
Operator: William E. Miller address c/o Miller Lumber Company, Bend
Oregon.

Location: Two pits, a county pit near Tumalo and another just south of Bend, as follows:

T 17 S; R 12 E; Section 7 (Tumalo)
T 18 S; R 12 E; Section 7 (Bend)

History: The original Central Oregon Pumice Co., Inc. was organized and in active operation in 1947 under the direction of a Mr. Albertus. Miller purchased this operation in July 1948, retained the old business name, dropping only the "Inc. portion."

General:

Production is made from both pits simultaneously with mining in each pit being done by means of dozers. The pumice occurrences are similar in all respects to those found in the Bend-Tumalo area at large. Most noteworthy difference between pits is that overburden at the Tumalo pit varies between 2 to 6 feet as compared to a thickness of 10 to 20 feet at the Bend pit. All processing is done at the plant which is situated in the Industrial District, East Railroad Street, Bend, Oregon.

Processing at this operation consists of crushing and screening (30 x 18 $^{+}$ 50° Universal rolls and vibrating screens). The rock is

given a preliminary screening, then over-size is crushed and

screened again. The finished product is stored in four bunkers with a total capacity of one thousand yards. These bunkers are equipped with a conveyor from the bottom for loading-out purposes.

Attention is now being given to the production of sized and segregated pumice products and to a blended aggregate of controlled proportions as compared to the former practice of just screening pit run material without regard to the proportion of various sub-sizes, particularly fines, contained in the finished product. A Ready-mix aggregate of 3/4 mesh down is also produced.

This company does its own trucking instead of contracting for same as do most of the other producers. Five to six men are therefore required for normal operation.

Report by:
Date of exam:
Date of report:
Informant:

N.S. Wagner
August 1, 1949
August 17, 1949
William E. Miller

702 Woodlark Building

BESCHUTES CONCRETE PRODUCTS CO. UNGLASSIFIED DISTRICT DESCRIPTS COUNTY (Pumice aggregate and blocks)

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Thester T. Lackey, Redmond, Oregon the Lavel of the bettern of the round elt.

Plant Manager is Keith Parkinson

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Foreword:

This company is in the building block business and produces both cinder and pumice aggregates for their own use. The block plant is located in Redmond. Pumice originates in a company leased pit near Tumalo. Cinders come from a pit owned by the city of Redmond and situated nearby.

Pumice Pit:

Owner: Deschutes County Municiple Improvement District, Rt. 2 Bend, Oregon.

Location: T16 S; R 12 E; S 36. This is about 1 mile north of Tumalo, and 14 miles via the old Bend Redmond road to the companys plant at Redmond.

Area. Leased area consists of a 40 acre tract.

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pumice has been found to average 12' in thickness. This pumice like other occurrences in the vicinity, is an unserted accumulation of fragments ranging from 0 to possibly 12 in diameter. The overburden is largely soil about 2' in thickness at the pit, but thicker over other pertions of the occurrence. The lower postion of the section was obscured at the time of this visit, but repertedly the mineable pumice rests on pumice of an inferior grade, and with an uneven contact. An estimated three years reserves at the rate of 3500 cu. yds. a year remain as the good grade pumice feathers out to the south in a distance of 20 feet from the pit, changes to an inferior grade to the north, and is overlain by an excess of overburden to the west.

Mining and equipment: Pumise is dug and transported to a loading station by a small dozer. As all pumice produced here is used exclusively in the company's block plant, the crushing and sizing unit is situated at said plant. Thus pit run material is loaded out directly here. The loading station consists of a chute constructed over a truck pit sunk below the level of the bottom of the main pit.

sinder Pit:

Owner: City of Redmond

Location: T 14 S; R 13 E; S 33.

General: This pit was not visited. On a royality basis cinders are obtained here, excavated by company equipment.

Block Plant:

Location: Redmond, Deschutes County.

Foreword: This plant has been in production for over a year. It is well mechanized and housed in a large building made of pumice blocks. Both equipment and operating practice differs in many respects that is usage in other plants in Central Oregon.

Plant equipment and practice: Large stockpiles of pit run aggregate are maintained in the yards. This is processed as used, and for crushing a Symons horizontal disc is employed. The disc is situated in the yard outside of the building. Disc discharge is 2/8° maximum. This discharge is conveyed to a trommel situated in the building and above a 25 yard capacity, two partition bunker. Trommel products are sized -3/16 and 4.3/16-3/8°. A controlled charge of 60 parts of the fines to 40 parts of the coarse is mixed with standard cement in a $6\frac{1}{2}$ to 1 ratio. The mixer is set in the floor under the bunkers.

The block machine is a Stearns tamping machine which produces three-hole full standard, or 8 x 8 x 16" blocks.

Curing includes a 48 hour period of steaming at 125 degrees F. under no pressure plus 27 days of air drying in the stockyard.

Plant capacity is reported as 2000 8x 8 x 16* units per 8 hours with 7 men.

General: Specifications and prices of blocks produced here are:

Item	Weight(pumice)	Price at plant
8 x 8 x 16	$23\frac{1}{2}$ lbs.	\$ 0.25
4 x 8 x 16	$14\frac{1}{2}$ lhs.	\$ 0.15

Accessory and half size blocks are also made.

Informant:

Keith Parkinson

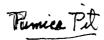
Report by:

N. S. Wagner

Date of Exam:

February 17, 1947





702 Woodlark Building Portland, Oregon

DESCHUTES BLACK SAND AND PUMICE

DESCHUTES COUNTY

Owner: At the request of Mr. H. H. Abbott, Rt. 1, Box 74, Redmond,, a visit was made to the localities given below. Mr. Abbott was not at home and therefore the information as to owners, area, etc. were not available.

Location: Two localities on the banks of the Deschutes River were visited. The first lies in Deschutes County at an elevation of 2,625 feet in the center of the No of sec. 23, T. 14 S., R. 12 E.; the second lies in Jefferson County about 10 miles north of the first (8 miles air line) at an elevation of 2345 feet in the center of the No of sec. 33, T. 13 S., R. 12 E.

History: For a number of years there have been attempts by various people and concerns to exploit reported values in the "black sands" occuring in lenses in the cliffs cut by the Deschutes and Metolius rivers north and west of Redmond and Terrebonne. Numerous assays running from \$2.00 to \$3.00 have been reported from the sands and interbedded conglomerates. Mr. F. W. Peck has been interested in the property for many years, and Henry Smith is said to have a process for recovering the values from the sand by cyanidation and electrolysis. A plant was built during 1940 to operate on this principle, but from evidence seen on the ground, no ore passed completely through it. The tanks were filled, and the electrolytic plant operated, but the tanks were never emptied. Operations ceased November 3, 1940.

Equipment: At the north locality the plant on the west bank of the river consists of a building 40 x 200 feet, with the following means of processing the sand from the cliffs above:

150 foot tram with dump bucket (all jerry built) to bring sand from cliff above.

Loading into two 10 foot cyanide tanks by wheelbarrow. Water from another tank.

Leached solution goes to 6 x 12 foot electrolytic tank, equipped with 20 copper plates, connected with automobile generator (?) run by auto motor.

Solution goes to final tank. The complete process could not be deduced from the equipment left in the plant.

At the south locality the equipment consisted of a small building with shaker screen, 2 cyanide tanks, engine and car generator. Zinc shavings also in evidence.

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Geology: The cliffs consist in both localities of the Deschutes formation, amply described by Stearns (30) and Moore (37). The material to be mined consists of a "black sand" made up of basaltic fragment, sometimes scoriaceous, with minor amounts of pumice. No sulphides were seen. The sand occurred in horizontal lenses up to 20 feet thick, with overburdens of tuff, gravel and lava ranging from 50 feet up. Underground mining would be necessary after the removal of a few thousand tons of outcrop and talus.

Economics: No remarks required.

April 14, 1941
John Eliot Allen

702 Woodlark Building Portland 5, Oregon

DEVILS HILL OBSIDIAN

Deschutes

Howel Williams describes an occurrence of obsidian at Devils
Hill in "Volcanoes of the Three Sisters Region, Oregon Cascades"
University of California Geological Science Bull. vol. 27, no. 3, p. 58.

Devils Hill is located in sec. 3, T. 18 S., R. 8 E., Deschutes County.

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FINLEY BUTTE CINDERS

Deschutes County

Cinders from Finley Butte have been used for road ballast by the State Highway Department. The butte is located about 4 miles east of Lapine in southern Deschutes County. Legal description is secs. 20, 21, T. 22 S., R. 11 E.

Informant: Don C. Birch

Report by: R. S. Mason

2-11-52

Central Oregon F	Pumice Co		Pumi	Ce		
NAME		OLD NAMES	PRINC	IPAL ORE	MINOR	MINERALS
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Deschutes		COUNTY				
unclassified	• • • • • • • • • • • •	AREA		1	:	
•••••		ELEVATION	MISCELLANEOUS RECORDS			
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•••••••••••••••••••••••••••••••••••••••		DISTANCE TO SHIPPING POINT				
PRESENT LEGAL OWNER	(S) Wm. E	Miller	Address %. Miller	Lumber Company	r. Bend	
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OPERATOR	Wm E. Miller	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
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EQUIPMENT ON PROPER	ory see re	port				
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Deschutes Black	Sand + Purmice		74
NAME	OLD NAMES	PRINCIPAL ORE	MINOR MINERALS
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Deschute	COUNTY		
	AREA		
2625	ELEVATION	MISCELLANEOUS RECORDS	
•••••••	ROAD OR HIGHWAY		
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PRESENT LEGAL OWNER (S)	Address	•••••••••••
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OPERATOR		•••••••••••	• • • • • • • • • • • • • • • • • • • •
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EQUIPMENT ON PROPERTY			

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3 m. S. Bud.

OH Poeples
Claybough, Pornerelle Fair grade.
Tom Fitch, Bend.
H. H. Abbott. Rt 1 Box 74. Note at
Spokesman
Riley Rauch fairly good.

Respira Bend Pumice

Owner: Not known. Attention called to deposit by Don H. Poeples, Chamber of Commerce, Bend, Oregon.

Location: In the center of the NE 2 of section 7, T. 18 S., R. 12 E., about 2 miles south of Bend on the east side of the river, at the head of a small gulch just below irrigation ditch.

Area: Ownership of land not known.

The section as exposed in the gulch is as follows:

Deschutes Madrax lava flow x32x	3 0 '
(level of irrigation ditch)	
Fine grained vellow tuff (overburden	
Wash boulder beds Welded pumice-tuff, grey Unwashed pumice bed 6-31	5 3½
/Unwashed pumice bed	15'
Fine unconsolidated grey ash	3 1
Deschutes lava about	40 '
(river level)	

Over an area mx about 200 by 250 feet the over-burden was only slight, and has been scraped off with a bulldozer. Possibly several acres are underlain by tuff without much overburden.

April 15, 1941
Sohn Eliot / 11en
geologist

State of Oregon Department of Geology & Mineral Industries Portland, Oregon

Earl K. Nixon, Director

Sec. 7 T. /8'S R. 12E Cent NE 1/4 Date April 15,1941 Name of Survey Poerles Pomice
County Deschates Quadrangle Beard? Notebook Page No.

Scale: 1000 ft. l inch

section in punied deposits + 55 -Rive 40% Hilz" wash & wilded haff days out.

Deschutes County by Don H. Poeples,

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250 feet the over-burden ed off with a bulldozer. h by tuff without much

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