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UNION PACIFIC RAILROAD COMPANY

PERLITE RESOURCES

Meadow Valley Wash Area

Clark and Lincoln Counties, Nevada

Beaver and Millard Counties, Utah

By K. L. Cochran, Geologist
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Only limited discovery work has been done on the property but development is not necessary at this time. There are no facilities of any kind either at or in the immediate vicinity of the property.

Geology at the property is quite simple. Igneous activity has produced a heavy thickness, in excess of 1,000 feet of dacitic, rhyolitic and perlite flows. The flows have been subsequently distorted, causing flow plane dips from horizontal to 80° .

The perlite occurs as lenticular inclusions between dacite and/or rhyolite. The inclusions vary in thickness from 4 to 50 feet and the length is difficult to determine in most instances. The northern section of the deposit shows perlite in apparent, but not actual, veins, striking N. 10° W. and dipping from 15° to 80° NE. The southern section, for the most part, strikes N. 40° E. and dips horizontally to 25° SE. Variations between a northeast and northwest strike are readily observed on all sections of the property.

The perlite appears to be of good quality although there are innumerable thin stringers of waste in practically every exposure. It is generally jet black in color with graduations toward lighter colors.

In almost every exposure, the perlite, due to dip, is soon covered with considerable overburden. This feature, plus the scattered nature of the perlite inclusions, eliminates this prospect as an immediate, cheap, source of crude perlite.

On the basis of numerous observed exposures, it is safe to say that there is a measured ore reserve of one million tons but at no place is there a sufficient concentration to allow mining of more than a few thousand tons from one operation. Indicated ore reserves are at least 5,000,000 tons.

Searchlight Insulation Products - Clark Co., Nevada

The Searchlight Insulation Products deposit is located two miles west of U. S. Highway No. 95 and six miles north of the town of Searchlight, Nevada. Mr. E. L. Tanner, owner and operator, lives at the deposit and his address is Box 1126, Las Vegas, Nevada. Specifically, the deposit lies in the $S\frac{1}{2}$, Section 9 and $N\frac{1}{2}$ Section 16, T.28S., R.63E. and consists of nine placer claims (180 acres) in Clark County, Nevada.

The deposit consists of two flow lenses and the occurrence is a typical perlite deposit. It is quite free of overburden and includes thin stringers of dacite or andesite. Usually the contamination is not extensive. It is more or less flat-lying and covers a wide area.

The deposit from which present production is obtained is 1500 feet long by 240 feet wide by 21 feet thick. The second deposit is 2600 feet long by 500 feet wide by an average of 100 feet thick.

Present workings consist of an open pit which is operated by first drilling and blasting and then loading broken material by hand on a conveyor belt from pit to mill. As production requirements increase, the mining problem will become simpler. (See Plate III)

The property is about 50 miles from Las Vegas and about 35 miles from a loading ramp at Boulder City. Mr. Tanner plans to ship crude material to distributing points in California.

Indicated reserves of good quality granular, gray perlite are estimated at 10,581,000 tons.

The plant is in position to produce both plaster and acoustic aggregate. The latter is a larger bubble product and has been found satisfactory. Some experimental work has been done toward production of a perlite aggregate building block and lightweight wall board or lath.

Leech Perlite Deposit - Lincoln County, Nevada

The Leech Perlite deposit is located 23 miles northeast of Pioche via 7 miles of oiled highway No. 93 and 16 miles of poor to bad desert road. It is situated in the SE $\frac{1}{4}$, Section 16 and NE $\frac{1}{4}$ Section 21, T.3N., R.68E., Lincoln County, Nevada, on the low foothills of the Wilson Range.

The property consists of two placer claims (40 acres) in an unorganized mining district. It is held by location by Mr. Paul Leech of Pioche, Nevada, and is 23 miles from the Union Pacific Railroad Pioche branch.

The deposit is, apparently, flat lying over an andesite flow. All of the capping material has been eroded away and there is but a minor amount of overburden. The perlite is dark gray to black, "onion skin" type, glassy and fairly free of contaminating materials. The deposit is 600 feet long by 500 feet wide by 50 feet thick, having an estimated reserve of 1,725,000 tons.

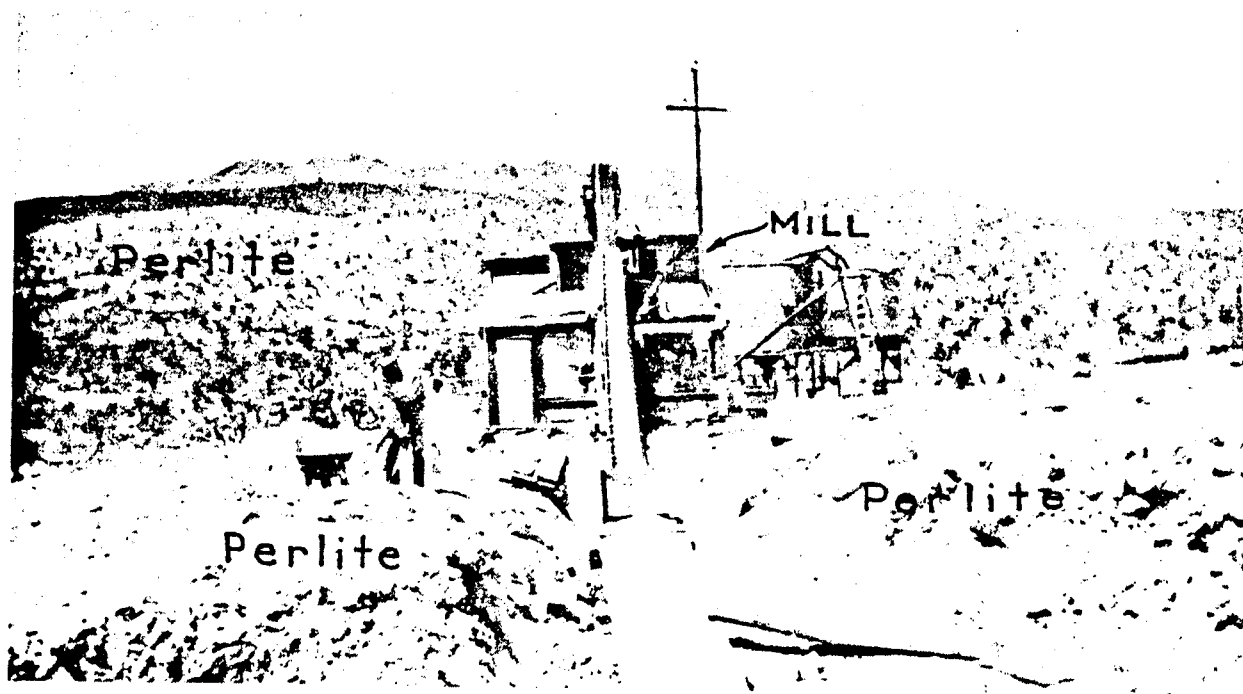
Snow Perlite Deposit - Lincoln County, Nevada

The Snow Perlite deposit consists of two lode claims located in the Goldsprings Mining District, Section 23, T.1N., R.70E., Lincoln County, Nevada. It is owned jointly by Messrs. Wayne Snow, W. Atkin and Gile Hardy, all of St. George, Utah, and is under lease to Canadian Global Investment Company, Toronto, Canada. There are two deposits, one of which is reached via 13 miles of fair desert road northwest of Modena, Utah. By road improvements, the second and larger of the two could be reached by ten miles of road from Modena. There are no excessive grades and both properties are easily accessible.

Of the two deposits, the first is part of a dacite flow and considerable contamination is evident. The perlite is quite glassy, greenish-black in color and covers an area 1320 feet long by 600 feet wide by 50 feet thick. The second is a blackish-gray, granular flow and covers an area some 2640 feet long by 1320 feet

SEARCHLIGHT INSULATION PRODUCTS

Searchlight, Nevada



View showing perlite quarry
and expanding furnace plant

SUMMARY NEVADA - UTAH PERLITE DEPOSITS

Name of Property NEVADA DEPOSITS	Name and Address of Owner	Estimated Ore Reserves			Tons Present Monthly Production	Distance from Railroad (Miles)
		Indicated	Inferred	Total		
Eccles & Minto Deposits	Combined Metals Reduction Co. 218 Felt Building Salt Lake City, Utah	19,281,000	9,640,000	28,921,000	-	1
Acoma Perlite	J. Pulcopher Overton, Nevada J. L. Boykin Little Rock, California	39,700,000	21,850,000	60,550,000	-	6 to 10
Hollinger Perlite	J. Hollinger Pioche, Nevada (Leased to Combined Metals Reduction Company)	6,000,000	3,000,000	9,000,000	4,000	14
Fairview Perlite	Combined Metals Reduction Co. 218 Felt Building Salt Lake City, Utah	4,038,400	2,000,000	6,038,400	-	24
Emery & Henry Perlite	A. C. Emery & J. R. Henry Box 53 Searchlight, Nevada	214,450,000	-	214,450,000	600	21
Kopenite, Inc.	Kopenite, Inc. 169 No. La Brea Los Angeles 36, California	10,460,000	5,000,000	15,460,000	200	35
Robb Perlite	Jay Robb Glendale, Nevada	16,000,000	8,000,000	24,000,000	-	14
Johnston-Fitchett Perlite	S. Fitchett Carp, Nevada	2,680,000	1,000,000	3,680,000	-	13
Free Perlite	Darrel Free Panaca, Nevada	450,000	1,000,000	1,450,000	-	14
Leech Perlite	Paul Leech Pioche, Nevada	1,150,000	575,000	1,725,000	-	23
Searchlight Insulation Products	B. L. Tanner Box 1126 Las Vegas, Nevada	10,581,000	-	10,581,000	-	35
U. S. Perlite Products	A. R. Chandler 609 So. Grand Avenue Los Angeles, California	1,000,000	1,000,000	2,000,000	-	12
Snow Perlite	Wayne Snow St. George, Utah	29,615,000	-	29,615,000	-	13
Total Nevada Deposits		338,405,400	53,065,000	391,470,400	4,800	
UTAH DEPOSITS						
Huntsman Perlite	Allonzo Huntsman Fillmore, Utah	500,000	1,000,000	1,500,000	-	5
Utah Pumice and Perlite Co.	Byron A. Ray 409 Ness Building Salt Lake City, Utah	5,000,000	-	5,000,000	3,000*	5
UTCO Products Co. Perlite	H. H. Flierbeck 1210 Continental Bank Building Salt Lake City, Utah	5,000,000	2,500,000	7,500,000	400	8
Total Utah Deposits		10,500,000	3,500,000	14,000,000	3,400	
GRAND TOTALS		348,905,400	56,565,000	405,470,400	8,200	

