State Department of Geology and Mineral Industries

Owner of property: Mrs. Amanda Myers
(Mrs. Kartes' mother)

1069 State Office Building Portland 1, Oregon

Investigation of Anomalous Radioactivity in the SEt sec. 12, T. 30 S., R. 2 W., Douglas County, Oregon

Introduction:

This investigation was made at the request of the Bureau of Land Management to determine whether radioactive minerals are present along the existing road that crosses the SE¹/₄ sec. 12, T. 30 S., R. 2 W.

The area was visited first on Feb. 20, 1961. Mr. Jack Berkshire and Paul Sangor, of the Roseburg B.L.M. office accompanied me to the property, showed me the right-of-way where the radioactivity was reported to be and then left me to make an inspection of the area.

The property was visited again on March 14, 1961 with Mrs. Dorothy Kartes.

General Geology:

The following observations were made from examining rock outcrops adjacent to the existing road.

The predominant rocks in the SEt sec. 12 are vari-colored, white, tan, reddish-brown rhyolite tuffs of Tertiary age. The texture and composition of the tuffs ranges from fine-grained crystal tuffs to lapilli and pumice lapilli tuffs. Most appear to be of rhyolitic composition. They are massive and commonly form prominent erosional outcrops on the hillsides. The rocks are randomly jointed and cracked causing them to break into large irregular shaped blocks. These joints and cracks commonly show iron staining and bleaching from normal weathering. Narrow zones of clay alteration are also present.

Where the attitude of the tuffs could be determined they generally strike from N. to N. 10° W. and dip about 15° to the northeast.

Two narrow basalt dikes intrude the tuffs along the road near the center of sec. 12.

Rocks of rhyolitic composition generally contain a higher uranium content than rocks with a lower silica (more basic) composition.

A slightly higher than background radioactivity appeared to be present in this area especially where the rhyolitic tuffs were prominently exposed. along the existing road. This is probably the result of the mass effect of a large body of tuffs containing a slightly more than average uranium content. During the inspection the geiger counter used began to operate erratically because of weak 45 volt batteries.

No discreet radioactive minerals were seen, or indicated from checking cracks, joints, or rusty zones with the geiger counter before it began to operate erratically. Rock samples collected from various points along the road were checked later in the office for fluorescence with Ultraviolet light and for radioactivity with a radioassayer. The results were negative.

Date visited: February 20 and March 14, 1961.

Report by: Norman V. Peterson, March 17, 1961.

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Addendum to: Investigation of Reported Anomalous Radioactivity in the SE4 sec. 12, T. 30 S., R. 2 W., Douglas County, Oregon

After the first inspections were made Mrs. Kartes called at our Grants

Pass office to show us samples that she obtained from the SE¹/₄ of sec. 12.

abundant

Three samples contained/fluorescent radioactive minerals. The composition of the rocks in these samples is the same as the predominant rock type in the area and they probably came from the immediate area.

Because of the similarity of the samples to the rhyolitic tuffs that outcrop along the road in the SE_{+}^{1} of sec. 12 another inspection was arranged to determine whether or not the radioactive minerals occur as reported.

This inspection was made on March 22, 1961 with Mrs. Kartes and Mr. W. R. Purvine. The rock outcrops along the road were again carefully examined and checked with our geiger counter. The background radioactivity again was found to be slightly higher than the level at Tiller. No anomalous radioactivity was found.

Date visited: March 22, 1961.

Report by: N. V. Peterson, March 22, 1961.

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Inspection of 56'14 Sec. 12, T. 305. R. Zw. for the Bureon of fand Management. Reason for the inspection to check for the presence of radioactivity or urandem minerals. Subject: on. Paul Sangor was contacted and are arrangement made to meet at the Postoffeir en Canyonirele on Monday, Feb. 20 to visit the property. Mr. Dangor and Mr. Jack Berkshire the area to be examined! The self-top center was examined by making a traverse along the existing road, by chacking all rock orderopality visible moneralization and for radioactivity with a give countered. The cheek was traversed were cheched as before. were checked as before.

The predominant on the SE1/4 of sec. 12 are white to buffandreddish brown rhyslite teeffes of Testerry age. Bestire and small fragments of olbedian are common in these Juffer, They are massive and soul joint and bracks randomly oriented much Couse the rocks to break into rather large irregula blocks. The joints and cracks commonly show iron staining and bleaching from normal weathering from present. In the cleek and on the slope to the east of N to N10°W and sigs 150 to the At. Thos narrow basalt dikes the trude the Luffer of the forthedge of sec. 12 are exposed in the west bank to the Deskman Creek. Lethough should the forthe are considered to be favorable from mineraling was seen either along the road or along the Creek. No radioactive rocks were indicated and the creek. by checking the roch outerogs with the gives count Roch sangles collected from road cutter were checked for fluorescence dith an ultin Violet

Check of S614 of sec. 12 for Ladivacturity.

Rocks from sec. line are light gray to white brotile shydit tuffor-instances

1 N-5 fracture zone 1 to 2 for thick broken clayer rock - shallow dip abundant obsidian fragments - rock sample with large bleached from normal weathering - somezones of clay alteration are present. the spring the rock type again is yellowish to white - luft To south of one where road crosses east trending stream there is a small les block - came from west and all outs show imported debris. Large orthogo of the yellowish-while shyplite teef can be seen on the singe justo the NW At the north property line of on point their are an abrugt change in roch type to surligue, course grainer basset highly fractures and iron stained - fractures are contact with rele iron oxide hematite ?). N-S trending bosalt dike - 8 to 10' wide - Caked + reddene e tuffs on either side - dip vertical - another parallel dike wide column jointer - black -Downstram - similar tuffs - readish - proper to white almost crystal July in some glaces - very likely nuce adent seposited - antorops along east side of creek are 200' king massive - fairly good attitude in Creek down near the ser line. 12-13-0 NIO'W sig 20° to th 3E,