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SAND SPRINGS, CHURCHILL CO. Reno Sheet.

Sources: P.G. Dobson, 1940, Bralorne's Nevada enterprise. The Miner (Vancouver, B.C.) 13(8):31-33.

F.C. Lincoln, 1923, Mining districts and mineral resources of Nevada, Nevada Newsletter Pub. Co., Reno, 8-9.

W.O. Vanderburg, 1940, Recon. of mining districts in Churchill Co., USBM Inf. Circ. 7093, 40.

#### REGIONAL SETTING

Structure: Probably on S extension of major anticline.

Production Belts: On W edge of National-Mina high-production belt.

Lithology: At S end of volcanic field 30 mi. N-S x 10 mi. E-W. Topo map shows elevation at camp about 4400'; surface to NE rises above 5000'.

#### LOCAL GEOLOGY

Country Rock: Schist, limestone, andesite.

Structure: Unknown.

#### ORE DEPOSITS

Veins in a silicified zone striking eastward, with moderate dip to S, carry free gold. Zone traced on surface for several miles. Silver as the chloride; gangue is sugary quartz and crushed andesite.

Production to 1940, \$403,000. Principal mine is the Dan Tucker. Shipping ore ran to \$300 per ton. 1938, optioned to Bralorne Mines, who organized Summit King Mining Co. Bralorne venture was a failure; Joralemon knows about it.

#### CONCLUSIONS

Ore probably lay near base of andesite series; andesite crops out several hundred feet higher to the northeast. Regional structure probably promising; district on W edge of productive belt. Worth a visit.

## SAND SPRINGS\*ADDENDUM

Source: Unpublished report on the Carson Sink Rea, F.C.Schrader.  
Field work 1911-1920.

297. Country rock Jura-Trias limestone, shale, sandstone, intruded by granite, and in places overlain by Tertiary rhyolite, andesite, and basalt. Fig. 4 is a general geologic map of the region.

The Dan Tucker mine lies in the Jura-Trias sediments.

299 Kenney prospect: 4 miles SE of Sand Springs. Elevation 4800'. Main lode strikes NE, dips 50 S; in much altered basaltic andesite, with hydrothermally altered rhyolite in the footwall. Traced for 1 mile; 12' wide.

Gangue is laminated, bedded quartz and adularia pseudomorphic after spar. Vuggy. Manganese oxide. Ore minerals: hornsilver, argentite, gold.

There is a 100' incline on the vein; values mainly in gold. Ore runs \$5 to \$28 in the workings.

### CONCLUSIONS

The Dan Tucker mine in the Mesozoic basement is probably epithermal; details can be obtained from Horalemon.

From the Reno sheet, the Kenney prospect may correspond to one of two symbols for mines, close to Highway 50, in a low pass. 4800' is about the lowest elevation at the north end of the Sand Springs Range. Dan Tucker mine probably at same or lower elevation. At these places erosion seems to have cut down into the ore zone. The Kenney prospect shows favorable gangue minerals and might be worth exploring in itself.

Figure 4, Schrader's map covering his reports, should be checked to determine limits of Tertiary volcanics in this region. In fact, this map should be copied. Tertiary volcanics at higher elevations than the Dan Tucker and Kenney should be examined for strong fracture patterns.

FALLON

TRAVEL LODGE



Sand Springs 5/25/65

Broad zone of intense HT alteration, E-W t.  
CR mainly Mesozoic granite schist, biotite schist,  
Shale. At least one mineralized break dips S as  
per description. Small operation - shaft, probably on E  
extension of Dan Tucker mine.

Above the Mesozoic is andesite, porphyritic, & mineralized  
in at least one place (within the zone). High hill,  
SW of zone S of 150 looks like Meso Redmonts dykes,  
W. part of altered zone. Basalt front E of here; probably  
Sand Springs range to S capped by basalt. Also, small  
exposures of basalt appear in altered zone. Possibly com-  
plex post-basalt faulting.  
But bulk of SS range may well be made up of  
andesite.