

WHITE SWAN/DEWEY

ALSO: LUCKY BILL @ BAYARD

Mr. Green states that his Co. will pay \$5.00 per o/o of V_2O_5 and \$10.00 per o/o of U_3O_8 , but they can ship nothing poorer than 3-1/2 o/o of the oxides, and they will buy nothing in which the o/o of V_2O_5 is not greater than that of U_3O_8 .

Vanadium Mines Co. Plant,

15-20 mi. S.W. of Engle, N.M.,

Aug. 20, 1911.

Permission to go into the mines was absolutely refused by Mr. Poillon on the ground that it was against the Co.'s rules.

The mines, two, known as the White Swan and the Dewey are on the S. & N. sides, respectively, of a canon running transversely across the Caballos Mts., known as Palomas Gap.

The Mts. run about N.25°W. at this point and are apparently bounded on the N.E. by a fault valley. The beds on the N.E. are in the main a red muddy sandstn. and comparatively undisturbed, but the Caballos Mts. rocks are in open folds.

The veins in the two mines run apx. N.E. and S.W. and about vertical, and cut across the strike

of the country rock, a l.s. The vein is crushed l.s. cemented + calcite. At the surface there is some galena but it is said to disappear below. The veins are about 200 yards apart.

Ralph Widener, Cutter, N. Mex., was the discoverer in 1906. There is some barite, chalcopyrite and fluorite in the ore.

The White Swan is said to carry considerable S/400 wulfenite. The wulfenite and vanadinite are in very small particles and can hardly be seen in most of the ore.

The shaft is said to be down 400' and there is said to be 800-900' of drifts.

S/404 The vein is said to vary from 5 to 30' in width.

The Dewey vein dips steeply N.W. 60 - 70° and reaches 10' in width and is said to carry much purer vanadinite and is said to carry no wulfenite.

A few feet 100 ± S.W. of the White Swan shaft surface workings expose the vein for a short distance, about 100'. The vein here is about 4'-6' wide, composed of crushed l.s. with a filling of S/401-2 calcite; silica; fluorite (white and amethystine);

and barite. There is some galena in glassy barite (fluorite?) and there are some Cu. stains (green). There is very little vanadinite in sight.

The Dewey vein crosses Palomas Gap and a drift has been run in on the S.W. side about 100' and stoped out for 30 to 40 ft. in height. The ore has been stoped to a width of 12', averaging perhaps 6'. The face of the drift was not examined.

On the N.E. side of Palomas Gap a prospect hole 8' or 10' deep has been dug on the vein and S/403 in it a green coating shows on the surfaces of joints which is said to run high in V.

At the mouth of the Gap a shaft has been sunk on the vein and is said to be down 280'. A piece of ore picked up on the dump shows a thin dark coating S/404 of vanadinite.

From a nail-keg a specimen of a powdery clayey material containing dark crystals of vanadinite near-S/405 ly an inch long by 1/16" thick, was taken.

Mr. J. H. Hardin gave me a specimen made up of an aggregate of similar crystals which his son had S/406 mined in the Dewey.

Ralph Widener (P.O. Cutter, N.Mex.) has claims called the Gladys, Red Top, Red Top Annex and Billiken on a vein thought to be the same. In an exca-

vation (shaft) about 15' deep, on the Gladys, the vein strikes N.60°E. (using a variation of about 14°E.) Dip 60°N.W.

The vein as shown up is 3' wide, and there is probably some in the footwall.

The vein carries white and pink fluorspar, gale-
na, calcite, and vanadinite in very fine brown crystals which are fuzzy, they are so small.

The vein is a crushed zone in the l.s. (dark) filled with the gangue. About a foot is very spongy and in the vugs are the vanadinite crystals. Only a little silica is to be seen, much less than in the ore of the White Swan and Dewey.

Some of the velvety crystals are yellow, as if
S/407 they were wulfenite.

On the Red Top ^{is} a green coating on some pieces,
S/408 similar to that in the Dewey.

Mr. J. H. Hardin has a claim called the "Owl" on the N.E. extension of the same vein. It shows some V. Not examined but a piece was picked up on the
S/409 dump.

John Gardner, Engle, E. Mex., is interested in
& 3 mi. S.E. of Ft. Bayard
the Lucky Bill claim, 1-1/2 mi. E. of Bayard. On
this claim is a carb. of lead ore which is colored

Little

in line

country.

side of

green like epidote. It is said to carry 8% mt.

V. Mr. Gardner promises to send a piece to the office.

He is going to the claim soon.

The ore is said to also carry 1-2% of Mo.

Paul A. Larsh, Bayard Station, and

Tom J. Ross, San Marcial, are also interested in

the claim.

The copper occurs in replace rock and also in
bones? and equisetes. About 50 feet above the copper sand-
stone is a heavy cherty limestone containing layers and
irregular nodules of chert much of it red (jaeger), part
of which appear like angular fragments.

Boulders of limestone contain productus semireticulatus
and another shell. Just how far above the strata from
which the block came may be is unknown, as only a little
more than an hour could be spent at the place.

The strata are bent in such a manner, and so cut by
the river (Green River) that they have not quite reached
a horizontal position on the east side in their flattening
from the steep dip on the west side.

There is some faulting and the sandstone in which
the copper occurs is broken by the overcasts. Part of
the limestone beds are greatly crushed, and a carbonaceous