

*date*  
*7*

REPORT OF "NAVAHO" A N D "COCHITA" GOLD PROPERTIES.

LOCATION:

Situated in "Cochita" Mining District, Sandoval County, New Mexico, (30) thirty miles in a North-westerly direction from "Santa Fe" city, the capitol of the State, (50) fifty miles Northerly from the city of "Albuquerque" and (20) twenty miles North-westerly from "Domingo", a station on the "Atchison, Topeka and Santa Fe" Railroad, from which latter point one is conveyed by easy stage route to the town of "Bland", 7500 feet above sea level, -- about one mile distant from the property.

"COCHITA" GROUP:

Consists of (4) four full mining claims, viz: "Ontario", "Albemarle", "Pamlico" and "Huron", all patented and each (600) six hundred feet wide and (1500) fifteen hundred feet long - an area of (80) eighty acres.

These are located on the so-called "Albemarle" Lode or Vein, which courses the entire length of the property, a distance of (6000) six thousand feet.

The out-crop of this vein is very strong, being from (20) twenty to (40) forty feet high on the "Albemarle" claim.

Besides the "Cochita" Group are (20) twenty other mining locations, which include timber claims, placer claims and water rights, making a total area in this group of (480) four hundred and eighty acres.

"NAVAHO" GROUP:

Is divided into (4) four parts: --

First: A group of mining claims consisting of the Lone Star,

Free Trade, Dry Hopole, Uncle Joe, Red Cloud and Denver - all patented, approximate area (100) one hundred acres.

Second: Three claims (60) sixty acres, located in Media Dia Canyon - name not given - (1 1/2) one and one-half miles south-east of the Navaho Group.

On these latter is located a fully equipped modern saw mill - capacity 10,000 feet per day - office and several dwelling houses and a large quantity of cord wood and mine timbers.

Third: A timber claim of (340) three hundred and forty acres, located in Media Dia Canyon about (4) four miles north of the Saw Mill belonging to this property.

The owner holds a Warranty Deed to this acreage of timber land.

Fourth: A water right in Media Dia Canyon, and a pipe line four miles long extending from a Dam on the Southern end of the timber claim to a saddle or depression in the Mesa which separates Pine and Media Dia Canyons. This saddle or depression is about a mile below the mine and opposite the proposed Mill Site.

TOTAL AREA:

In the combined property there is a total area of (980) nine hundred and eighty acres.

TOPOGRAPHY:

Leaving Domingo the stage road runs along the Sandy River bottom of the Rio Grande for ten miles to the Mexican adobe town of Pena Blanca, thence across the river by ford, thence through the Cochita Indian Village, and then across the foot hills to the mouth of Pine Canyon.

These foot hills are the result of erosion in a low flat Mesa of volcanic ash, and the total rise in elevation is only about (500) five hundred feet.

From the mouth of the Canyon to Bland - about seven miles - the rise in elevation is about (1200) twelve hundred feet. Bland is 7500 feet above sea level.

There is a series of nearly parallel Canyons running from the North-east toward the Rio Grande River, which average 1000 feet deep and are generally very narrow.

They were eroded from a Mesa formed by successive flows of Lava, Volcanic Ash and Volcanic Tuff, super-imposed, which made a broad, nearly level table land.

The canyons are separated by Mesas about one-half a mile wide, called Portreos.

Beginning on the west these canyons are called Peralta, Colla, Pine, Media-Dia, Canada de Cochita, etc..

Of these Canyons the Mesas were very well timbered, but Colla and Pine Canyons have been heavily drawn on for the supply of various mining companies' operations.

At the head of these Canyons - Pine is about (10) ten miles long, the country rises into an irregular series of Mountain Peaks, attaining heights of 10,000 & 11,000 feet above sea level. All of these mountains are heavily timbered.

#### GEOLOGY:

The Cochita Mining District is a volcanic country, and has recently been the scene of active volcanoes, evidenced by the flows of pure Lava now existing in black porous sheets and volcanic ash, cinder and pumice.

A great variety of both crystalline and non-crystalline igneous rocks occur. There are no sedimentary rocks in this District.

A series of Porphyry Dykes has intruded the over-lying volcanic flows, and in "Pine" Canyon are first seen about two miles below the town of Bland, where they outcrop in the road bed.

They become more noticeable on proceeding up the Canyon until at the

town of Bland the West Mesa is entirely a Dyke Mass, the overlying Tuff having been wholly removed by erosion.

On the crest of this outcrop is located a United States Mineral Monument, to which all of this property is tied by actual survey.

(See accompanying Map.)

The East Mesa just above the town has been forced into an anti-cline, with a very thin capping of Tuff still existing over the Main Dyke. Here the Dyke has a general North and South strike and a nearly vertical dip and seems to be the eastern boundary of the Mineral bearing Zone of this District.

This system of parallel Dykes has been very thoroughly examined for a distance of several hundred feet, at right angles to the strike, across the property.

The Dyke rocks are various forms of Diorite, varying from the coarse grained Granistoid texture of the Green - speckled white variety to the fine-grained, dark greenish - grey type.

#### VEINS:

There are four well defined, independent Veins, practically parallel, which define the vein system as northerly and southerly.

Beginning on the east these veins are the Washington, Iron King, Lone Star and Crown Point.

Each vein has been opened up more or less by a mine of the same name, and from each considerable of the ore was shipped to Pueblo, Colorado, for reduction and netted handsome profits.

The Washington Vein out-crop dips west; the Iron King is very nearly vertical; the Lone Star dips east; and the Crown Point dips west.

#### THE LONE STAR VEIN:

The vein on the Navaho property, as exposed by the out-cropping and by the mine workings, principally on the Lone Star Claim, is a perfectly defined Fissure Vein of Quartz, between like walls of a very dark greenish-grey, compact, fine grained Diorite.

The strike is northerly and southerly and the Dip east 80 degrees from the horizontal.

The Vein on C level at Cross-cut (4) four shows a width of 70 feet, but the average width throughout the entire length and depth is 25 feet.

The ore appears to lie in Chutes in the vein itself, which chutes pitch northerly about 45 degrees. Thus far in the workings one "Chute" only has been exposed and developed.

In this Chute the vein is ore from wall to wall. The course of this vein is easily traced by the Stopes on the various levels. This Chute extends in breadth from the surface to a point in the main Raise #1 about 67 feet below "A" level, showing a total breadth of 275 feet.

Raise #1 connects the main tunnel level and "A" level, it is in low grade Quartz on the lower level, and its upper level and for 67 feet, as stated, is in ore; between these two points is Country rock.

From "A" level to the 67 foot station Raise #1 is vertical, then it dips east at varying angles the remainder of its length down to the big tunnel; it also pitches northerly more or less irregularly all the way from this point to the bottom.

The important fact is that the Vein is in Place on the tunnel level.

To the east of the Lone Star vein is another vein running through the Iron King claim, which lies north of the Lone Star, and is called the King Vein. This vein is (10) feet wide, is nearly vertical and has been cut by the Lone Star workings in Cross-cut #1, east in "A" level.



#### ORE:

The ore is a hard, white quartz which becomes flinty as it gets lower in grade, with irregular streaks, bunches and clouds of discolorations throughout the mass, due to the mineral bearing Sulphide.

Small grains of Pyrite sparke through the black portions, but nowhere appear in the white quartz.

The flashes of Argentite or sulphide of silver are frequently visible.

The values are wholly in gold and silver and with silver at 50 cents and gold at \$20.00 per ounce each, the ore in this property will average from \$10.82 to \$12.15, the latter predominating, per ton.

#### UNDERGROUND WORKINGS:

Originally the property was opened up in (6) six different levels known as A, B, C, D, E, F, - beginning with the lower one. The upper part of the ore body has never been worked because of the crude and expensive methods over the steep hill-side.

All the openings above named are in the Star Gulch.

The Navaho has a tunnel on the Uncle Joe claim in Pine Canyon, which will cut the vein (300) three hundred feet below "A" level.

This tunnel is driven 10' x 10' in the clear, double tracked with 56 lb. T-rails, and is in 1094 feet from its portal in a straight line.

This tunnel in its course cuts through various kinds of Diorite, separated from each other by breaks generally running northerly and southerly for about 700 feet, where a vein of quartz is encountered. This is without doubt the Washington Vein, but where cut it is in the North Star claim. At an additional 300 feet in another vein of quartz was encountered that, beyond all question, is the King vein.

The fact that only low values appear in the quartz at these two points is because the ore chute in the vein proper was, unfortunately for the management, left above the points of intersection; in other words, the work was done directly under the vein.

All tramming under ground was done by man power to the Mill Chute, which extends from "F" to "A" level and is connected with the main tunnel by Raise No. 1 at "A", so that all ore was taken out by gravity and from this point was trammed out by mules to the mill chute.

#### MILLING PROCESS:

Numerous tests of these ores have proven their amenability to the Cyanide process, giving an extraction of 90%. Therefore, with the installation of a modern Cyanide plant an economical and successful method is assured.

#### TONNAGE, VALUE, WATER CONDITIONS:

An average of three independent examinations by three competent mining engineers give a total of (115,000) one hundred and fifteen thousand tons of ore in sight, showing a value of \$10.98 per ton, or,  $\$10.98 \times 115,000 = (\$1,262,700.00)$  One Million, Two Hundred Sixty-two Thousand, Seven Hundred Dollars..

All the available water rights in this district are entirely owned and controlled by this property.

#### IMPROVEMENT AND EQUIPMENT:

The mine is elegantly equipped with machine drills, drill steel, pipe and fittings, cars, buckets and winze hoists, etc., etc., etc..

At the mouth of the tunnel is a large and well equipped Blacksmith shop and a repair and supply shop, stocked sufficiently well to operate the mine for many months.

At the foot of the tunnel dump and 100 feet distant is the Compressor plant. In it are a six-drill Compressor, a 40 H.P.

boiler and feed pump, tools, etc., etc., etc., and in an adjoining building are (2) two additional 20 H.P. boilers with feed pumps.

All the boilers are of the multi-tubular type, and in good condition for mine operations.

A plentiful supply of water for power purposes is obtained from a well, sunk directly outside of the power house.

Near the Compressor are four dwellings, an office building and a barn.

Cord wood is used for fuel and there is over 500 cords stacked at the compressor ready for use.

At various places about the property is an additional 500 cords of wood, cut and stacked for use.

On the Charm Claim, in Media Dia Canyon, is a complete modern equipped saw mill; capacity is 10,000 feet per day.

Above the saw mill about four miles is the timber land - heretofore described - of "Red Spruce" and "Yellow Pine", many of the "Pines" measuring over (11) eleven feet in circumference.

#### C O N C L U S I O N :

A property of such acknowledged merit, so richly endowed by nature, so extensively developed, with such a large tonnage of ore in sight - awaiting only extraction and reduction - and with so much costly improvement and equipment, should be on the market in this age is simply phenomenal. Nevertheless, it is true and the property as described is available, to be delivered without the nefarious handling of dozens of brokers and middle men.

The entire aim and endeavor in the presentation of this proposition is to be as clear and comprehensive as is possible, yet it is fully realized that there is such a multitude of detail that cannot be encompassed in a Report shown on a map, and with which only a personal investigation can one become familiar, that my



weakness in vocabulary is here freely admitted.

However, a careful consideration of the data herein contained and upon the Map should, in a large measure, demonstrate the exceptional merit and capability of this property, and differentiate it from the ordinary property that is magnified and hawked about daily by the unprincipled Promoter and through him dozens of others, all casting about for a purchaser.

In fact, the acquisition of this property has been made possible only by a combination of circumstances which are met with but rarely, among which is the age of the principal - now in his 83rd year.

Respectfully submitted,

(Signed) Chas. M. Lang..

---

Recapitulation:

WHAT THE PURCHASER GETS FOR HIS MONEY.

- |     |   |   |   |   |   |           |
|-----|---|---|---|---|---|-----------|
| 1.  | Cochita Group of Mining Claims  | - | - | - | - | 80 acres  |
| 2.  | 20 claims, timber, water rights and placer ground   | - | - | - | - | 400 "     |
| 3.  | Navaho Group of Mining Claims   | - | - | - | - | 100 "     |
| 4.  | 3 claims in Media Dia Canyon  | - | - | - | - | 60 "      |
| 5.  | Timber property held by Warranty Deed   | - | - | - | - | 340 "     |
|     | Total area  | - | - | - | - | 980 acres |
| 6.  | A saw mill, 10,000 ft. daily capacity;  |   |   |   |   |           |
| 7.  | Several dwellings and office building, same point;  |   |   |   |   |           |
| 8.  | A water right and 4-miles of pipe line;   |   |   |   |   |           |
| 9.  | One tunnel, 1094 ft. long, 10'x 10' in the clear, double tracked with 56 lb. T-rails, and equipped; |   |   |   |   |           |
| 10. | All available water rights in district;   |   |   |   |   |           |
| 11. | 1 - 6-drill compressor;   |   |   |   |   |           |
| 12. | 1 - 40 H.P. boiler and feed pump;   |   |   |   |   |           |
| 13. | 2 - 20 H.P. " "   |   |   |   |   |           |
| 14. | Blacksmith shop with very complete equipment;   |   |   |   |   |           |
| 15. | Repair and supply shop equipped for many months;  |   |   |   |   |           |
| 16. | A well of water doubly ample for all power purposes;  |   |   |   |   |           |
| 17. | Four dwellings, an office and a barn;   |   |   |   |   |           |
| 18. | Over 1,000 cords of wood, cut and stacked;  |   |   |   |   |           |
| 19. | 115,000 tons of ore in sight, value \$10.98 per ton = \$1,262,700.00                                |   |   |   |   |           |

One Million, Two Hundred Sixty-two Thousand,  
Seven Hundred Dollars.