DMA-446

SWEETWATER MINING COMPANY
DOUGLAS COUNTY
NEVADA.

Location

The property is located in Township 9 North, Range 23 East, M.D.B. & M., Douglas County, Nevada. It is 9 miles from Topaz, on Highway 395. Topaz is 3 miles North of Coleville, California, The property is 50 miles from Bridgeport, California, 37 miles from Minden, Nevada, the County Seat of Douglas County. It is 80 miles South of Reno, and 415 miles from Los Angeles.

Property

The property consists of 30 claims and fractions located on Sweetwater Range of Mountains at an elevation of 6700 feet at the Camp and 8000 feet at Arrowhead shaft. The title to the property is held by location.

Transportation

The mine is reached from points North and South over Highway 395 to Topaz, thence over a good dirt road 9 miles to the mines. The nearest Railroad is at Minden, 37 miles on the V & T RR.

Geology

The principal country rock of the district is Andesite of the tertiary or triassic age. There is a rhyolite dyke running through the property on the Sweetwater claims with the general strike of N.E. and S.W. This dyke has a width of from 8' to 10' and is impregnated with crystals of iron pyrites. The dyke has a dip to the West of approximately 60°. There is a number of veins of ore on either side of this dyke running in the same general direction. About North 20° East and South 20° West. The vein filling is brecciated andesite silicified or partially silicified.

Development

The property is developed by numerous open cuts and short tunnels in addition to the Arrowhead Shaft and three major tunnels. The Arrowhead Shaft is located on Sweetwater No. 1 Claim at the junction of the No. 1 vein and the main vein running towards the Arrowhead Tunnel. This Shaft has a dip to the West of from 50° to 60° on the vein and is 280 feet deep on the incline. The width of the No. 1 vein in this shaft seems to be from 2' to 6'.

Development - Continued

The following samples were taken by Mr. J. W. Turner, E.M., in August, 1933:

		$20. Value	$35. Value
#1	Taken from 100 ft level 30 ft from shaft-across 3 ft.	$ .40	$ .70
#2	Taken from 127 ft level Drift 20 ft from shaft-across 2 ft	.40	.70
#3	Taken from 127 ft level Drift 110 ft from shaft-across 4 ft	3.20	5.60
#4	Taken from 127 ft. level Drift 25 ft from shaft-across 4 ft	34.40	60.20
#5	Taken from 127 ft level 50 ft from shaft-across 6 ft	44.80	78.40
#6	Taken from 176 ft level Drift at 60 ft point, or 10 ft beyond raise-across 6 ft	.80	1.40
#7	Taken from raise on 176 ft level Drift, 12 ft up-across 12 inches	18.40	32.20
#8	Taken from raise from 176 ft level Drift 16 ft up-across 2-1/2 ft	76.40	133.70
#9	Taken from face of small drift 12 ft up raise from 176 ft level across 4 ft	48.40	84.70
#10	Taken from 280 ft level 1 ft of back of shaft and 2 ft near bottom	11.20	19.60
#11	Taken from 280 ft level 3 ft north of shaft, west side across 30 inches	10.40	18.20

The following samples were taken by Mr. Turner, on November 3, 1934, and determinations made by Mr. Robb:

		Oz.Gold	Value
#1	West dump at main shaft Upper 1/2 portion E. side	.45	15.75
#2	West dump main shaft Lower 1/2 East side	.64	22.40

Development - Continued		Oz.Gold	Value
#3	West dump at main shaft Top of entire west dump	.66	19.60
#4	Ore pile, main shaft East of track (6 tons)	1.35	47.25
#5	Hanging wall side of bottom of shaft-across 4 ft.	1.00	35.00
#6	127 ft level, 95 ft south of shaft across 2 ft	.30	10.50
#7	Raise from 176 ft level to 127 ft level East side up 16 ft across 14"	14.70	514.50
#8	Main shaft at 100 ft depth across 6 ft taken near foot wall of shaft	.20	7.00
#9	Drift at 280 ft level, hanging wall, 3 ft north from shaft across 2 ft	.62	21.70
#10	127 ft level, 80 ft south from shaft, across 2 ft	1.50	52.50
#11	Raise on 226 ft level about 12 ft up across 2 ft	1.10	38.50

Gold at $35.00 per ounce

The samples from the large dump show an average of $19.25 per ton. There is about 600 tons of ore in this dump. The small pile of ore to the East of the tract assays $47.25 and contains about 6 tons of ore.

The surface South of the Arrowhead Shaft is developed by a number of open cuts on the Sweetwater Claim. They should be developed by further work.

The Arrowhead Tunnel on Sweetwater No. 1 is being driven directly for the shaft. This tunnel is approximately 200 ft in length and shows a strong body of iron pyrites. From recent development, this tunnel has been driven parallel and approximately 40 ft from the ore vein and there should be cross cuts driven from this tunnel to the East to intersect the vein.

Development - Continued

Near the North end of Sweetwater No. 6, there has been opened a very promising vein of copper and sheelite ore. At the surface a cut across the 8 ft vein gives the following assay:

Copper .5%; Tungsten Oxide .32%;

An average sample taken from the dump shows the following:

Copper .8%; Tungsten Oxide .71%;

The company is now sinking a shaft and are down 10'. The values are increasing with depth and look promising

To the S.E. of the camp there is an outcrop of promising ore which has been developed by a pit. The vein is horizontal and dipsslightly into the hill to the east . A width of 2 feet gives an assay of 4.2% copper. This point should be further developed.

New Era No. 2 and New Era No. 3 Claims. The main No. 1 vein passes through these claims and extends south about 2500 feet to the arrowhead shaft on Sweetwater No. 1 claim. This No. 1 vein system is from 40' to 90' in width. The veins are composed of Braseated Audesite with quartzite and in some places showing iron pyrities. The foot walls are composed of Audesite and the hanging walls varying from shists, calcites, slates, etc.

Veins No. 2 and No. 3 intersect from No. 1.on New Era No. 3 and should prove good points for development. No. 2 gein shows good copper values and both show sheelite, assaying from 1% to 2.5% WO3.

WATER

Water for domestic purposes is secured from springs a few hundred feet from camp. It is claimed that abundance of water for milling purposes can be produced from additional springs above the mill site. Topaz Lake a large body of water is 8 miles from the mine.

EQUIPMENT

The property is well equipped with all mining machinery.needed to develop and place this property in production, this includes the following:

Equipment - Continued

Hoisting engine, 25 h.p.
1 - 210 cu. ft. compressor
1 - 320 cu. ft. compressor
Mine cars and track
1 Truck
Jack Hammers
Elect lighting plant
Blacksmith shop
Machine shop
Complete Assay office
Cook house & dining room
Supt. House
Sleeping quarters

SUMMARY:

The Sweetwater mining property is located in a highly mineralized area, the principal minerals being gold, copper and sheelite. The average gold values in the arrowhead shaft being over $25.CC per ton. The copper value in the copper veins run from 3% to 12%. The sheelite values average from 1% to 2½% W.C.3. These values, if maintained in operation, should be very profitable.

RECOMMENDATIONS

The prospecting and development work heretofore done on this property show results that amply warrant the expenditure of the funds necessary to continue the development and operation of the mine. I would recommend the sinking of the shaft on Sweetwater No. 6 - to at least 200 feet, providing the ore continues and maintains its value.

Run two cross-cuts to the east in the arrowhead tunnel on the gash veins to contact the main view, then extend the tunnel south on the vein.

Recondition the arrowhead shaft and drifts on the levels, showing good grade ore and extend these to block out additional ore. Extend the shafts and tunnels on No. 2 and 3 veins where prospects for ore justify it, especially where the veins show sheelite.

It might be desirable to put down some diamond drill holes at the above points to ascertain the depths of the ore bodies. This can be done at a comparatively small expense.

This property should require a mill within a short time to secure maximum mining results. At the present time the ore could be shipped to one of the custom mills at Bishop, 150 miles by truck, but this would add considerably to the cost of operation,

RECOMMENDATIONS - Continued

and they are not equipped to handle this complex ore.

A mill erected at the property should be of 100 tons daily capacity and capable of treating a complex ore including copper and sheelite. There are several other properties adjacent to the Sweetwater mine that would commence mining sheelite if a convenient mill was available, so this mill could arrange for considerable custom ore which would add to company revenue.

To carry through the above program it will require an investment of $225,000.00 of which $75,000.00 will be needed for development work and equipment and operation, and $150,000.00 for the mill.

Respectfully submitted,

J. A. Vandegrift, E.M.

Los Angeles
January 8, 1951

C O P Y

MINERALS ENGINEERING CO.

ENGINEERS Meco ASSAYERS

1299 SUBWAY TERMINAL BLDG.
417 SOUTH HILL STREET
LOS ANGELES
MUTUAL 6793

THIS CERTIFIES THAT THE SAMPLES DESCRIBED BELOW SUBMITTED BY DATE Dec. 28, 1950

CHARGES $ Paid

J. A. Vandegrift ASSAY AS FOLLOWS:

LABORATORY NO.	OWNER'S MARK ON SAMPLE	Gold at $35.00 Per Oz.		Silver at $0.90 Per Oz.		TOTAL VALUE PER TON	PERCENTAGE OF
		OZ. PER TON	VALUE PER TON	OZ. PER TON	VALUE PER TON		

23442 Sweetwater SPECTROGRAPHIC QUALITATIVE ANALYSIS

ELEMENT	ESTIMATED QUANTITY
Silicon) Iron)	Main Constituents
Aluminum	10%
Calcium	1% - 10%
Tungsten	1% - 10%
Sodium	1%
Magnesium	0.1% - 1%
Manganese	0.1% - 1%
Copper	0.1% - 1%
Titanium	0.01% - 0.1%
Zinc	0.01% - 0.1%
Zirconium	0.01% - 0.1%
Strontium	0.01%
Vanadium	0.01%
Molybdenum	0.01%
Barium	0.001% - 0.01%
Gallium	0.001% - 0.01%
Nickel	0.001%
Chromium	0.001%
Lead	0.001%
Cobalt	Trace

MINERALS ENGINEERING CO.

BY N. W.

Lewis & Walker
111 West Eleventh Street
Los Angeles, California

Mr. Eric Flodine
2021 Wellington Road
Los Angeles, California

CERTIFICATE OF ASSAYS

Sample	Gold Oz.per ton-	Gold Value Per ton @$35.00 Oz.	Silver Oz. per	Silver ton-value Per ton	Copper Per cent	Tungsten Per cent (WO3)
1- Shaft					.12	.50
2- Hill top					.33	2.50
3- Apex	Trace	None			.26	2.38
4-Dump	.10	$3.50	.50	$ .45		

Charge$ 12.50
Paid 10.00
Bal. Due 2.50

Lewis & Walker

BY _____
Edward Roach, Assayer

No. 11 and 3 on Sweetwater No. 6

No. 2 on Sweetwater Claim

Nevada Mineral Laboratories
336 Morrill P.O. Box 387
Reno, Nevada

ASSAY CERTIFICATE

Mr. W. W. Whiting

December 8, 1950

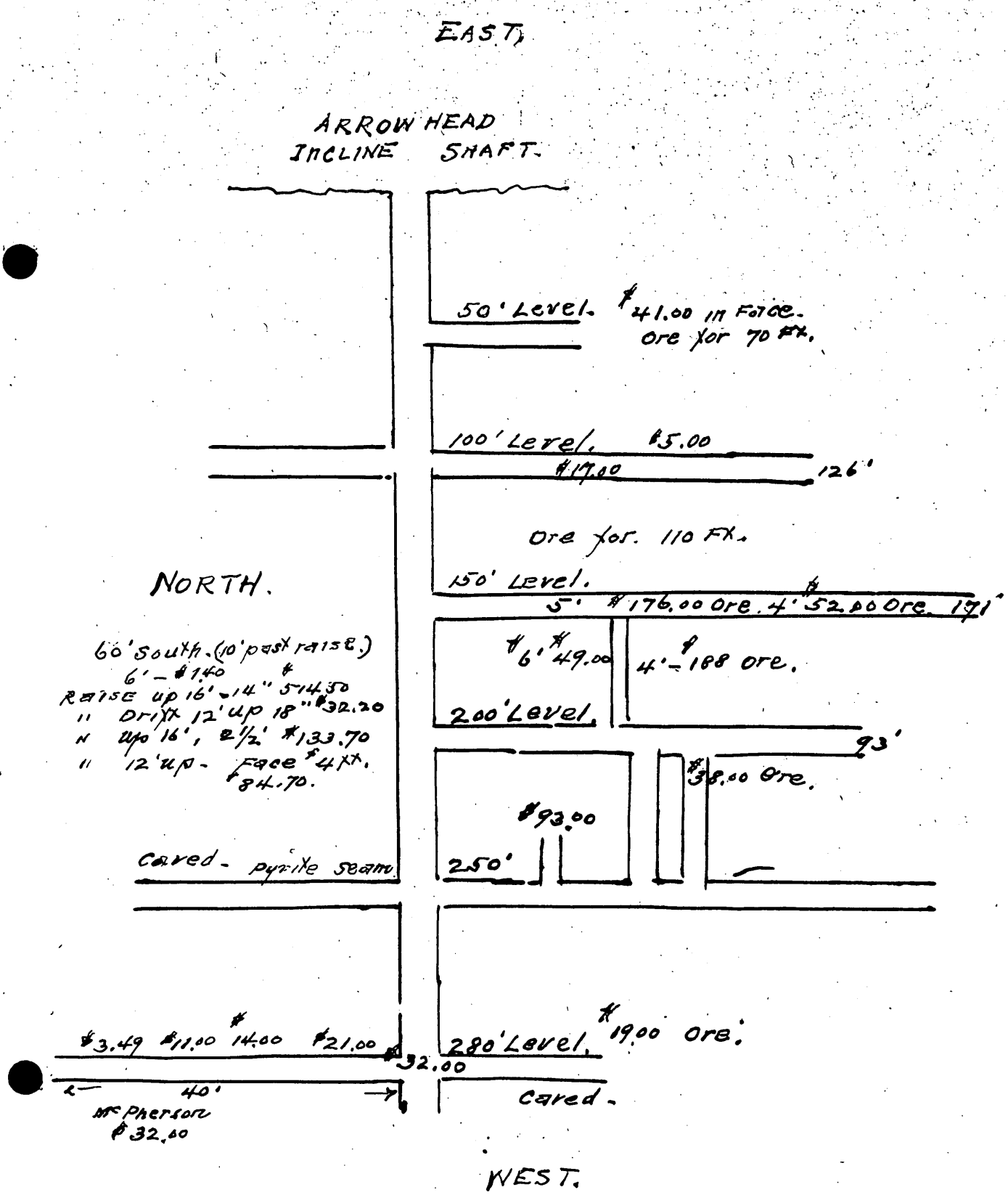
We have assayed your samples and find _____contains: (per ton of 2000 lbs.)

No.	Mark	Gold Ozs. per ton	Value Gold	Silver Ozs. per ton	Lead	Copper	Zinc	WO	Per Cent
1-	1-					12.0		1.4	

Sample
at New Draft
Sweetwater No. 6

Remarks

Charges $6.00

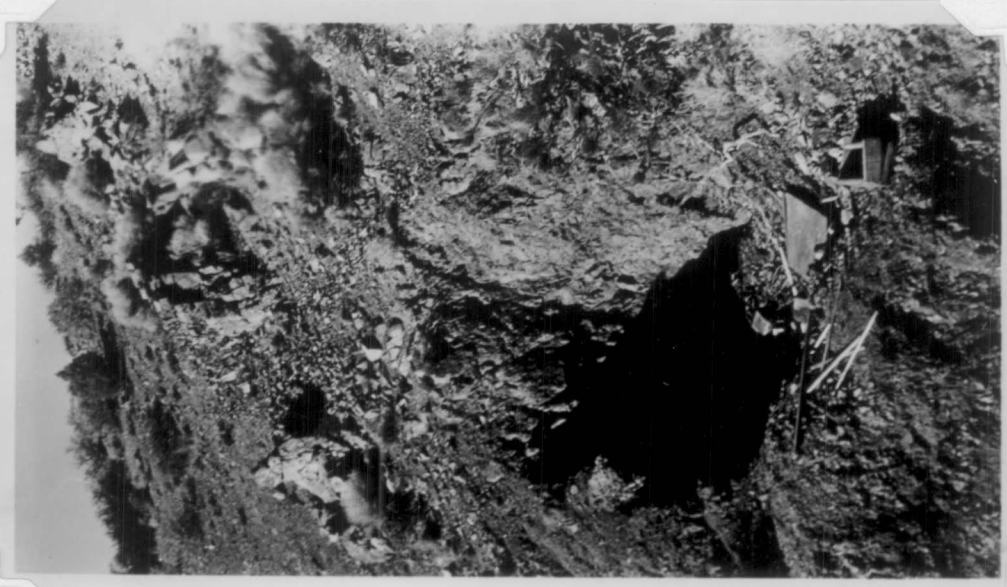


SKETCH
BY.
Peter. Fox.

J.A.V.
1/8/51.

Sheelite Vein, Open Cut.
Sweetwater Claim.

Sheelite open Cut.

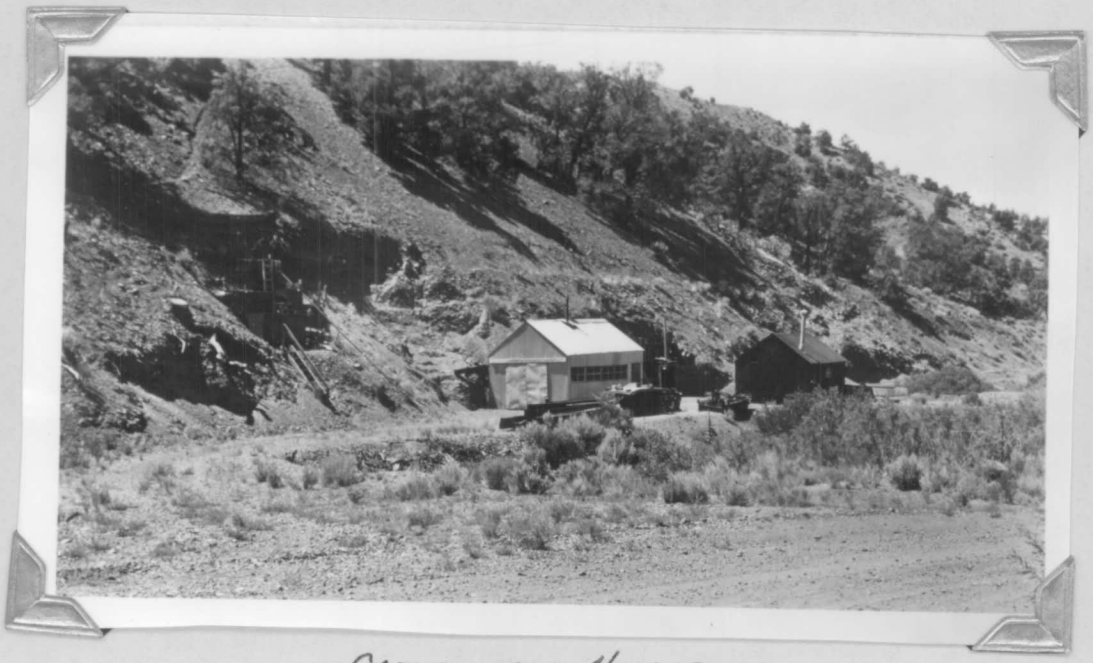


10ft. Sheelite Vein.
Sweetwater Claim.

Sweetwater Claim.

Sweetwater, Camp.

Part. of Camp.



Compressor House.