Report on THE NEVADE WONDER MINE. ---000---HOLDINGSI The property embraced in this mine consists of five patented mining claims, known as the Nevada Wonder, Nevada Wonder No. 2, Ruby No. 1. Blue Jan and Last Chance No. 1. having a total acreage of between 90 and 100 acres. Title is vested in the undersigned, of Reno. Nevada. All taxes have been paid, and there are no liens no encumbraces against the property. LOCATION: The mine is located in the Wonder Mining District, Churchill County. Nevada. Wonder is 55 miles east of the town of Fallon, the county seat of Churchill County and the nearest railroad point. Forty of the fifty-five miles are over the paved Lincoln Highway, and for the remaining distance there is a good dirt auto road. There is a gentle grade from the highway to the camp of Wonder, the rise being approximately two thousand feet in fifteen miles. HISTORY: The history of the Wonder Mine is well known in this part of the Nevada. Discovered in 1905 by Murray Scott, William Mays and others. the rich gold and silver cres caused a stampede to the camp. Prospectors, miners, promotores, merchants, salcon men and the usual array of camp followers flocked to the new strike, and it was not long before a camp of several thousand people was established. Values were found over a wide area, but no permanent ore bodies were opened up except in the ground that afterward became the Wonder mine. The property was taken over by a group of eastern capitalists and they began a thorough, systematic development campaign. An immense tonnage of ore was blocked out and in 1913 a 200-ton cyanide plant was installed. Electric power was brought in from Bishop, California, and at the time of its installation this hydro-electric power plant held the distinction of being the longest transmission line in the world. The mine and mill were completely equipped with the most modern, up-to-date electrically driven machinery obtainable, and production commenced which eventually yielded over six million dollars. In 1919 the mine and mill were suddenly closed down and theproperty remained idle until 1924, when the machinery was placed on the market. In 1935 the mine and what machinery remained were purchased by the present owner, who continued to sell off the equipment. In the meantime, with

the closing of all operating mines in Rawhide, Nevada Hills and Wonder, the principal points of power consumption, the transmission line was removed and all mining operations ceased. But the Wonder mine holds the distinction of being the only mine in the west where company operations were not followed by lessees or tributers.

Early in the year 1931 a lease on the property was grated to a well known Tonopah lessee and operator. He found a man's size job confronting him, for during the long period of idleness the three compartment main working shaft that had been sunk to the 1300 ft. level was found to

be in bad repair and required considerable re-timbering. Having full faith in the property, the lesses set about the task of timbering the shaft and old workings, which work was completed only to the 200-ft. level, when lack of funds prevented further activities along those lines.

The surrounding country is mountainous but only moderatly reagged. The hills form a part of the Clan Alpine range, an off-shoot of the Sierra Nevadas. All working places at the mine are accessible by wagen road.

The alevation at the main shaft is 6000 feet. Monder Peak, just back of the main working shaft, attains a height of 6200 feet.

The climate is the same as prevails over all of western Revada.

TIMBER:

There is no timber on the ground, but a plentiful supply of mine timbers and lumber to obtainable at our entmarket prices and within easy reach from the many saw mills and lumber occupanies on the eastern slope of the Sierra Sevada mountains.

there being no excessive heat in the summer nor severe cold in winter. Operations were carried on 365 days in the year, so far as weather was

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The old company's requirements were supplied by a ten mile pipe line from Horse Oreck, north of the damp, but this pipe line was taken up and sold several years ago. There is still a pipe line with water which formerly supplied the town of to bder now owned by a ranch some five or six miles distant to the east, but there is some question whether it could be acquired on favorable terms. However, mater can be developed in the West Jate wash some ten miles to the south and near the Lincoln Highway, and this would seem under the circumstances the logical point to build the mill, and take the ore to the water, which in this case would be cheaper than taking the water to the cre. The cost of hauling should not exceed 75% per ton, and could probably be some for 50%.

VILLE and DEVILOPMENT:

conserved, when the wine was wunning.

There are two strong, well defined weins on the property from which former production some. These voins very in width from four feet to forty feet.

The development consists of a pain three-compartment working shaft from surface to the 1205 ft. level, and an admiliary shaft 2000 feet distant from the main shaft which was comb to the 800 ft. level, from which verious sub-shafts and winnes continued on down to the 1900 ft. horison. Numerous levels connect the two shafts and exteen far beyond them on either end of the veins. Altogether there are in excess of eight miles of undergound workings.

PRODUCTION:

The old records of the company show that over six million dollars was produced, and in crosse of one end one-half million paid in dividends prior to December 1915. Bor work was performed thereafter until 1951, when lesses made shipments as per schedule following:

1931 Date	Dry Tons	1ry Toba	Gold	aye	Silver Price	Value Ton	Gross Value
May 23	34.35	24.006	.36	31.76	*89	\$16.00	0547.17
June 2	.186	.105	26.076	190.40	.261	572.42	104.18
June 4	50.20	49.448	+20	27.71	.25	24.80	731.97
Jun 15	49.76	40.765	.41	32.08	.26}	26.70	814.37
Jul 19	51.45	60.318	.37	25.96	,29 <u>}</u>	25.00	754.62
Jul 22	53.09	58.651	.49	26.15	.20	17.00	899.14
Aug.31	52.31	51.63	.50	38.80	.872	20.68	2077.80
oet. 3	41.00	39.565	.295	34.20	.20	15.48	612.59
00t.20	38.11	34.045	.348	36.75	.29}	17.78	657.72
Dec. 18	87.60	25.944	.262	32.25	.287	24.95	387.37
	398.53 Aver	ogo -	.40	32.00	.27-7/8	17.00	6586-91

It will be noted that the ore chipped contained .40 os. gold and 32 os. silver, which at the prices prevailing in 1931 of \$20 per curse for gold and 27-7/84 per curse for cilver, yielded an average of \$17.00 per ton. The prices prevailing in 1936 would have made this ore worth \$38.80 per ton, as follows:

.40 os. gold \$ \$35.00 ---- \$14.00 32 os. silver \$.776 ---- \$24.80 Total value ---- \$38.80

ORE RESERVED:

During the lessess' later prospecting and development work there was opened on the surface what appeared to be either a new vein or a faulted segment of the Badger vein, and this ore yielded good values. The ore has been out on the 70 and 200-ft. levels and a considerable quantity shipped, but most of it remains.

In the summer of 1932, when gold was selling at \$20 per os. and silver below 30¢, Mr. W. B. Edwards, a well known and able mining engineer who had been working the property for many months and was therefore thoroughly acquainted with it, made the statement to the cuner that there were between 25,000 and 30,000 tons of medium and low grade ore above the 70-ft. level. On July 6, 1932, Mr. Edwards wrote as follows:

"Re Wonder mine: The writer wishes to advise you that in his opinion there is blocked out above the 70-ft. level approximately 25,000 tons of ore available for immediate operations without undue expense to rehabilitate that portion of the mine. While this ore is not of a shipping grade at present prices, it is quite evident from pilot sampling that the value would range at or near \$7.00 per ton at the present prices of gold and silver."

This ore at 1956 prices would be worth in excess of \$15.00 per ton, and the 25.000 tons above the 70-ft. level would have a gress value of over \$575.000.

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As heretofore stated, no late work has been done below the 200 level, due to the condition of the shaft timbers. From the 200 ft. level to the surface there is an estimated tommage of 40,000 toms of medium and low grade ore which will probably run from 20 to 216 per ton, with occasional bodies of ore of a much higher grade. This ore is contained in supporting pillars, stope fills and unstoped portions of the ore bodies. The same relative conditions are found on the 200 ft. level as on the 70, and there is no reason to doubt that these conditions prevail on the lower levels. If so, the tomage of ore would be greatly augmented with the reclamation of the lower levels and the quantity should reach 300,000 tons having a gross value of between three and four million Gollars, perhaps were.

The stope maps of the old company show large areas of unerplored territory in the ore bearing sone, some of which would undoubtedly proce productive with further development, while many places show

The stope maps of the old company show large areas of unexplored territory in the ore bearing zone, some of which would undoubtedly proce productive with further development, while many places show ore, both developed and undeveloped, which has never been extracted. The maps also show in many places blocks of unstoped ground where ore has notually been taken out on three sides. Such ground should be theroughly developed; and with the known conditions existing on the 70 and 200 ft. levels there seems no room to doubt that further ore bodies of magnitude will be opened on the lower levels.

Prom general indications and the maps of the old company, there is every reason to believe that the same or greater ore reserves will be found on each and every level as on the 70 and 200-ft. Should this prove to be the case, it rould mean, as stated before, that the mine contains not less than 300,000 tone of good commercial ove, all of which will be found to be fairly well developed. That the known overlands but undeveloped tarritory will produce is a satter of conjecture, but it provides a strong incentive for thorough prospecting. We already know there is ore above and below this sone, and it seems incredible that the intermediate territory should prove unproductive.

MILLINO:

During the period of production of the Revada Wonder mine, a 150-200 ton dyanide plant was kept in operation, employing the odutinuous current decentation process. The results were most gratifying, even during the period when the cyanide process had not been developed to the fine point it has today, for the 1919 report of the company showed an extraction of 93.99% for the year. It has thus been descrip proven through big scale demonstration that cyanide is an ideal process and that the ore is amenable to treatment by that method.

In the year 1931 some preliminary tests were made by flotation and an extraction around 90% was obtained. Late in 1934 a fifty
pound sample of ore was taken from near the surface and sent to the
International Smelting Co., who ran a series of tests, the best of
which showed a recovery of 91% of the silver and 85% of the gold.
The ore was not thoroughly representative as it came from near the
surface and was pretty well oxidised and was rather high grade, running \$23.25 per ton to start with. The tests, however, showed a minimum recovery that sould be expected by flotation, and results would
be better as the lower level ores were reached.

Refore the erection of a new will further tests should be made, and if it is found that the ore can be estimated to handled by flotation that method should be adopted, as any slight loss in recovery would be offset by the lower cost of mill installation. On the other hand, we know that the ore is perfectly adapted to cyanidation and probably a simpler process than continuous decantation and an all-bliming plant could be worked out.

The ore extracted by lessees during the year 1931 was sent to custom mills and smelters. On \$17.00 ore the cost closely approximated \$12 per ton for trucking, freight, setal looses, smelting and smelter deductions. The ore can be handled, hauled and milled on the ground or at a point not far remote from the mine at a cost not to exceed \$4.00 per ton and a saving of \$8.00 per ton thereby effected. This saving alone would pay the cost of a 50-ton mill in three menths. REMOMBERDATIONS: The connage is sight, together with the probable and possible ore recoverable, fully justifies the rehabilitation of the shaft and mine workings and the erection of a 40-50 ten mill. For the purpose of ascerbaining the best method of treatment - extraction and installation costs considered - further tests should be made by two or three independent ore testing plants and the results checked. With this formation in hand, a small mill can be erected at a reasonable cost. with this inusing good machinery where obtainable. A Diesel engine should be in-stalled, and probably an electric generator. It would also be necessary to find a water supply, and it is known that this can be done by sinking a well in the test date week where an abundance of water has been found in two wells already sunk but which are too far away to be utilized. These wells do not exceed 50 feet in depth, and the cost of a new well would be nominal. One good five-ton truck of late design will handle the ore from mine to mill. The program, then, would be as follows: Provide becomeny sine equipment. 8. Re-timber chaft. Make tests on ore to determine best method of treatment. 30 a 4. Sink well for water. 5. Build 40-50 ton mill and provide Diesel power plant. This program can be carried out, if the proper economy is exercised, at an expenditure not exceeding \$50,000, and possibly for considerably less. CONCLUSION: The ore estimates do not take into eccount anything except known tomage from the 200-ft. level to the surface. There is every reason to expect that the same conditions will prevail on every level between the 200 and the 1200 ft. Beither do the estimates take into consideration the possibility of virgin ore bodice which there is every likelihood of discovering. And they do not take into account those blooks of ground shows on the old company's own maps as ORE and POSSIBLE ORB; nor those blooks of ground not so designated but which have been stoped on three, and in some cases four, sides. We know of no other mining property in the west that offers the same inducements for successful and profitable operation as does the wonder mine, nor one then can be purchased today and ore extracted tomorrow. It has already produced six million dollars from a comparatively limited area and affords excellent possibilities for another heavy production from undeveloped territory; while the ore already in eight, with a mill available, puts the property more in the montacturing class then a mining venture. Respectfully submitted: Reno, Nev., Jan. 2, 1936. win James

LAPER:

Since the foregoing report was written, a lease on the property was granted, effective June 1, 1935, since which time the following shipments have been made:

Dat		Wet Yone	Dry Fons		aya Silver	Silver	Value per ton	THE RESERVE OF THE PARTY OF THE	
Juni	22/3	6 26.00	25.48	.225	20.98	.77	824.03	8610.88	
	22	20.98	10.77	.375	43.90	.77	46.93	505.56	
July	7 23	57.72	55.59	*445	-20.50	.77	87.62	2085.66	
Aug	17	64.25	62.70	.88	84.10	.77	29.82	1860.30	
	21	61.58	60.68	*31	29.00	.77	33.19	2023.57	
Sept	. 4	43.15	48.01	.115	14.69	.77	16.34	659.77	
	29	39.43	29.53	.12	16.48	.77	26.90	664.70	. 6
oot.	. 20	55.86	667	.657	27.63	.77	51.99	2672.24	No.
Deo.	7	88.88	60.49	.330	31.78	.77	36.24	2119.77	Man Hall Harm
Apr.	1/3	, 57.54	57.43	.20	86.98	.77	37.48	2152.37	1 1
	28	60.85	60.80	.43	40.85	.77	46.50	2810.86	
May	21	60.37	60.10	.445	39.03	.77	45.62	2741.93	
June	88	48.20	42.03	.755	45.57	.77	61.58	2585.75	
	30	41.62	41.47	.00	58.47	.77	75.83	3145.01	
Aug.	17	70.00	70.00	.31	29.78	.77	33.74	2361.66	
Sept	.10	63.41	52.91	.475	87.03	.77	28.05	2013.15	
oot.	6	49.57	49.50	-408	22.25	-77	31.23	1544.23	
		883.39	845.25	•40	20.26	.77	30.74	32747.36	

During the moaths of December, January and Petruary, little or no work was performed on account of the lessees not being properly equipped for winter weather, so that this production of \$32,747.36 really represents about twelve months work. Under the terms of this less, no ore having a value of less than \$25 per ten was permitted to be shipped, so that the reserves of medium and low grade area have not been depleted.

It should also be added that the above shipments came from the territory between the surface and the 200-ft. level. Ho work was performed below the 200.