This is the Taylor Mine

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REPORT OF A PRELIMINARY EXAMINATION OF THE BASTER MINE,

LOCATED ABOUT TWENTY MILES SOUTHWEST OF CALIENTE,

LINCOLN COUNTY, NEVADA, ON JUNE 16, 1983.

By Alfred Merritt Smith, E.M.

#### INTRODUCTION

This examination was made while the writer was employed as mining engineer for the Nevada State Bureau of Mines. At the time I was making a study and report of the mineral resources of southern Nevada in the vicinity of Boulder Dam, with the idea of listing these numerous resources and assembling the data for publication by the Bureau. On this examination I was accompanied by Mr. E. C. D. Marriage, the principal owner of the property, himself a graduate mining engineer from the University of Cambridge, England. The several assay certificates and smelter statements of the shipments made from the property were supplied by Mr. Marriage.

Chokecherry Mtn. Quad.

TOPOGRAPHY 7 55, R 66 E

The mine lies in a rough area of high, broken volcanic mountains. It is reached over a road running southerly down the canyon from Caliente, to a point seme twelve or fifteen miles south of the town, and thence westerly over a winding mountain grade some four or five miles, reaching an estimated elevation of about six thousand feet. Not far to the west of the property, over the summit of the mountain possibly five miles, is the famous mining

#### district of Delamar.

#### GEOLOGY

The district is composed of igneous rocks of Tertiary origin, mostly andesites and rhyolites. These occur in the form of distorted flows, dykes and tuffs. Insufficient time was spent to pass on the complex. I am of the opinion that it is not far from a contact with rocks of sedimentary origin which predominate in the Delamar district to the west, where the principal ore bodies are found in quartzite.

The geological feature most pertinent to this report in the vicinity of the mine is a normal fault which has a general northwesterly strike, being almost north and south at the southern end, but curving westerly through an exposed length of about one thousand feet. The footwall of this fault is exposed for a vertical height of three hundred feet or more, and to a large extent is covered with a layer of hard quartz, which has given rime to a false impression that the entire mountain is composed of quartz. The sheet of quartz is merely an exposed portion of the footwall of a vein which had been formed along the fault prior to the time the eastern side had been depressed - or the western side elevated. Because of the hard nature of the quartz on the footwall of this vein it has resisted erosion, and in many places stands as an inclined wall showing plainly the striations scoured by the descending hanging-wall area to the east. The total vertical displacement may have been considerably more than three hundred feet, for there is no means of determining how much of the top portion of the west

side has been eroded away. West of this rhyolite dyke is a bed of light colored comparatively soft rhyolite tuff which has been eroded away more than the dyke, thereby leaving the rhyolite dyke standing up as a ridge or comb, extending northerly and southerly.

Subsequent to the formation of the vein and the formation of the fault, additional faulting took place easterly and westerly across the dyke, as indicated in the accompanying sketch. is very little mineralization along these east and west faults, and the displacement on all of them has been very slight, amounting in most cases to not more than from two to eight feet. these cross fractures some slight silicification and mineralization has taken place at their points of intersection with the large north and south fault. This mineralization is adjacent to the hard quartz footwall. This mineralization is only at the point of contact with the main north and south vein, as proved by an adit at the point marked "A" on the plat, which was driven through the quartz wall into the rhyolite dyke on one of the east and west fractures. A few feet beyond the mouth of the tunnel the fracture is tight and shows but little silidification, and no mineralization. This condition will undoubtedly prove to be true with all of the series of six or seven observed cross fractures which occur at intervals of from fifty to two hundred feet along the course of the main vein adjacent to and parallel to the rhyolite dyke. only points where any important mining has been done are marked "A" and "B" on the accompanying sketch. "A" is the tunnel referred to above, the face of which is in the barren rhyolite dyke, and which if continued will eventually penetrate the bed of soft rhyolite tuff. "B" is a shaft, slightly inclined to the east. It passed through a mineralized zone formed on the contact of the east-west fracture with the main vein, and at the bottom, estimated to be some forty feet from the surface, was still in the east-west cross fracture, and had apparently passed through the mineralized zone and was bottomed in the barren dyke. It was suggested that the owners drift easterly from the bottom of the shaft and thereby ascertain if the pay shoot which had produced substantial amounts of good grade gold-silver ore, would not be found to continue downward along the true footwall of the main north and south vein. Some months later I heard that this suggested work had been carried out and that a substantial body of milling grade ore had been encountered east of the bottom of the shaft.

A similar condition exists at the points marked "C", "p", "E" and "F" on the sketch, where cross fissures exist and where there has been a slight east and west displacement of the vein. It is suggested that these points be carefully prospected by sinking.

At the point marked "C" on the plat a short tunnel was driven into the rhyolite dyke. The miner who did this work may have assumed that the entire mountain was quartz, for it is not apparent that this work was done upon a cross fissure. As soon as the hard quartz wall had been penetrated the drift entered the barren rhyolite dyke. I was reliably informed that the entire face of the mountain, covered with the quartz sheet, carries low values in gold and silver, running from one to three dollars a ton.

#### TRANSPORTATION

Railroad passes through Caliente, which is a railroad division point. Caliente has a population of about five hundred, has several stores and two hotels, and from there improved highways extend north and south. From Caliente a good natural dirt county road, gravelled in places, also extends southerly down Meadow Valley Wash and Meadow Valley Creek through a chain of small ranches. Some fifteen or twenty miles south of Caliente along this county road a new grade road has been constructed up the mountain by the mine owners for a distance of seme four miles. Although this road is narrow, steep in places and has numerous sharp turns, it is passable to automobiles and all supplies have gone in and ore has been trucked out over it.

WATER

vation are springs that could be utilized to bring in water sufficient for a small milling operation, and amply sufficient for mining and domestic purposes. About a mile east of the mine and at a lower elevation is located Mud Springs, from which water for present use is hauled in tanks. Until two years ago some water flowed down the canyon by the mine and a small spring was located in the canyon about a quarter of a mile above the mine, from which water was obtained. The continued drought has caused this source to dry up, and water no longer flows by the mine. In most of the adjacent canyons are located springs, and it is probable that from

some of these sources a suitable water supply can be obtained to carry on both mining and milling operations.

#### TIMBER AND VEGETATION

There is a rather scattered growth of juniper and pinon pine over the area in which the mine is located. Some of this can be used for mine timbering and it does very well for fuel. In general, the country is covered with black sage and supports a trulent fair growth of natural weeds and grasses suitable for the grazing of livestock.

#### MINING AND ORE VALUES

The cross fracture or vein in the tunnel at the point marked "A" on the plat has a strike of South 80° East and dips 70° North. At its juncture with the main fault the ore shoot on this vein is from six to eight feet wide and carries values of from \$10 to \$20 per ton in gold and silver. A winze was put down that feet on this pay shoot, from which one or more shipments of ore have been made yielding values as shown on the accompanying reports from the American Smelting & Regining Company. A tunnel was driven on this cross fissure for a distance of about one hundred and twenty feet from the mouth. As the tunnel progressed the fissure became tight and the mineralization decreased. The pay shoot was encountered only twelve feet in from the mouth of the tunnel, and was drifted on northerly and southerly for a total distance of about twenty-two feet. There is good reason to assume that this pay shoot may extend downward to a considerable depth.

The shaft shown at the point "B" was driven completely through this pay shoot and bottoms in barren dyke rock. If it had been inclined more to the east it probably would have been in ore for its entire depth. The main fault or vein is an excellent zone for mineralization at the intersection of cross fractures such as this. The movement on the main fault has been so profound that the fault and vein undoubtedly extend to great depth.

Desultory prospecting was done at the points marked "C", "G". "L" and "M". At the point marked "C" ore of milling grade was said to have been found in the mouth of the tunnel, as might have been expected; but, similar to the condition existing at "A", the face of the tunnel is in barren dyke rock. The work at "G" seems to have been done on the assumption that the entire hillside is quarts, and that by boring into it better values might be found. The work at this point does not seem to have been on a cross fracture, and of course there is no hope of finding any ore at such a point. The point marked "F" shows a pronounced cross fracture having a horizontal displacement of several feet. It is partly obscured by massive blocks of quartz which have fallen down the hill, and no mining has been done there. It is a most likely place and should be prospected. No doubt a study and search for small veins intersecting the main fault would reveal a number of other places favorable to prospecting.

#### CONCLUSION

In conclusion I will state that for the amount of mining and prospecting that has been done, the Easter Mine is a very

promising property. There is reason to believe that ore shoots may extend to great depth along the principal north and south fault. An examination of the surrounding country will probably show several springs from which gravity flow of water may be obtained to reduce the cost of mining. It is probable that more mining and development would have been done if the area was more accessible. The property will justify the expenditure of a substantial sum of money, and stands an excellent chance of developing into a profitable mine.

ALONZO F. BARDWELL Assayer and Chemist 158 South west Temple Street Salt Lake City

Aug - 27 - 1934

E.C.D.Marriage .--Baster Mine .-

Mark	No	Gold Ozs. Per Ton 2000 lbs.	Silver Ozs. Per Ton 2000 lbs	
	35.	0.40	2.40	4' E- face lower stope
*	36.	0.50	2.70	5 ft above #35
	37	0.53	2.35	5' above #36
	38	0.48	2.60	2' 6" below tunnel level w.s.winze
harges,	, \$4.00			Signed Alonzo F. Bardwell

CERTIFICATE OF ASSAY

PHONE WASATCH 4696

ALONZO F. BARDWELL Assayer and Chemist 158 South West Temple Street Salt Lake City

Oct- 31-1934-

E.C.D.Marriage .-Easter Mine .-

Mark	No.	Gold oza. per ton 2000 lbs.	Silver ozs. per ton 2000 lbs.	
Sample-	1	0.60	2.80	7 Tons. Oct-28-1934
	2	1,14	2.46	Face E. drift- 3' 6"
	3	0.28	1.92	Gouge
	4.	1.52	5,88	3' 6' above #2
	<b>\$</b> 4.00			Signed Alonzo F. Bardwell

Charges, \$4.00

## Certificate of Assay PIOCHE ASSAY OFFICE Pioche, Nevada

M Easter Mine May 26, 1934.

Description		Gold Ounces	Wilver Ounces	
No.	5	0.75	3.6	

Earl T. Godbe ASSAYER

### AMERICAN SMELTING AND REFINING CO. Garfield Plant

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# AMERICAN SMELTING AND REFINING CO. Garfield Plant Salt Lake City, Utah, Sept. 8, 1934

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Assays  A.S.& R.Co.  Bardwell	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0.545 D.56 D.56	Salt Le Mine Easter ed by GP Class 9125 Silver  Silver ton oz.per ton 2.55 2.5 2.58 2.62	Plant ake City, U <u>Mine (Fina</u> s crude Sh	tah. Jan 4, 193	+ 150 4
Assays  A.S.& R.Co.  Bardwell  Settlement As	Gold 34.  Gold 34.  Gold 02.per 0.545 D.54 0.56 D.56 say .5512	Salt Le Mine Easter ed by GP Class 9125 Silver  Silver ton oz.per ton 2.55 2.5 2.58 2.62 5 2.5625	Plant  ake City, U  Mine (Fina  crude Sh  34125	tah. Jan 4, 193 l settlement) Lo lpping Point <u>Ca</u>	t No. 4 liente, Nevada
Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N	Gold 34.  Gold 34.  Gold 02.per 0.545 D.54 0.56 D.56 say .5512	Salt Land Mine Easter ed by GP Class 9125 Silver ton 02.per ton 2.55 2.5 2.58 2.62 5 2.5625 Values 1	Plant Ake City, U Mine (Fina 5 crude Sh 34125	tah. Jan 4, 193 1 settlement) Lo 1pping Point Ca	t No. 4 liente, Nevada
Received 12/Quotations Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N	Gold 34.  Gold 34.  Gold 02.per 0 .545 D .54 0 .56 D .56 say .5512  umber 3251 Gold	Salt Lemine Mine Easter ed by GP Class 9125 Silver for confer ton 2.55 2.5 2.58 2.62 5 2.5625 Values 1	Plant ake City, U Mine (Fina crude Sh 34125  per ton 51.81825 1	tah. Jan 4, 193 1 settlement) Lo 1pping Point Ca Deduction 7.54 Base	t No. 4 liente, Nevada
Received 12/Quotations Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N	Gold 34.  Gold 34.  Gold 02.per 0 .545 D .54 0 .56 D .56 say .5512  umber 3251 Gold	Salt Land Mine Easter ed by GP Class 9125 Silver ton 02.per ton 2.55 2.5 2.58 2.62 5 2.5625 Values 1	Plant Ake City, U Mine (Fina 5 crude Sh 34125  Per ton 51.81825 1	tah. Jan 4, 193 1 settlement) Lo 1pping Point Ca  Deduction 7.54 Base 1.32 Labor incr	t No. 4 liente, Nevada s per ton 3.25
Received 12/Quotations Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N UP	Gold 34.  Gold 34.  Gold 02.per 0 .545 D .54 0 .56 D .56 say .5512  umber 3251 Gold Silver	Salt Lemine Mine Easter ed by GP Class 9125 Silver for confer ton 2.55 2.5 2.58 2.62 5 2.5625 Values 1	Plant Ake City, U Mine (Fina 5 crude Sh 34125  Per ton 51.81825 1	tah. Jan 4, 193 1 settlement) Lo 1pping Point Ca Deduction 7.54 Base	t No. 4 liente, Nevada
Received 12/Quotations	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0 .545 D .54 0 .56 D .56 D .56 say .5512  umber 3251 Gold Silver	Salt Le Mine Easter ed by GP Class 9125 Silver  Silver ton oz.per ton 2.55 2.5 2.58 2.62 5 2.5625  Values 1	Plant Rke City, U Mine (Fina crude Sh 34125  Per ton 51.81825 1	Deduction 7.54 Base 1.32 Labor incr	s per ton 3.25 tase .06
Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N UP  Wet weight Less moisture	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0.545 D.54 0.56 D.56 Say .5512  Umber 3251 Gold Silver 53260 5.5% 2930	Salt Lemine Mine Easter ed by GP Class 9125 Silver for confer ton 2.55 2.5 2.58 2.62 5 2.5625 Values 1	Plant ske City, U Mine (Fina crude Sh 34125  04125  1 stions	tah. Jan 4, 193 l settlement) Lo lpping Point Ca  Deduction 7.54 Base l.32 Labor incr 8.86  3.31 Total dedu	s per ton 3.25 éase .06
Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N UP  Wet weight Less moisture	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0 .545 D .54 0 .56 D .56 D .56 say .5512  umber 3251 Gold Silver	Salt Less total deduce	Plant Rke City, U Mine (Fina crude Sh 34125 Rt 1934125	Deduction 7.54 Base 1.32 Labor incr 8.86 3.31 Total dedu 5.55 Per ton \$	s per ton 3.25 éase .06
Received 12/Quotations	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0.545 D.54 0.56 D.56 Say .5512  Umber 3251 Gold Silver 53260 5.5% 2930	Salt Le Mine Easter ed by GP Class 9125 Silver  Silver ton oz.per ton 2.55 2.58 2.62 5 2.5625 Values 7,95% Min5 0.6	Plant Rke City, U Mine (Fina crude Sh 34125 Rt 1934125	Deduction 7.54 Base 1.32 Labor incr 9.86 3.31 Total dedu 5.55 Per ton \$ 101.99	s per ton 3.25 éase .06 etions 3.31 391.32
Assays  A.S.& R.Co.  Bardwell  Settlement As Car Initial N UP  Wet weight Less moisture	Gold 34.  Gold 34.  Gold 34.  Gold 02.per 0.545 D.54 0.56 D.56 Say .5512  Umber 3251 Gold Silver 53260 5.5% 2930	Salt Less total deduce	Plant Rke City, U Mine (Fina crude Sh 34125 Rt 1934125 Rt 1934125	Deduction 7.54 Base 1.32 Labor incr 8.86 3.31 Total dedu 5.55 Per ton \$ 101.99 6.00	s per ton 3.25 éase .06

### AMERICAN SMELTING AND REFINING CO. Garfield Plant

Received 4/23/3	Marriage Mine	<u>Easter Min</u> P Class cru	ity, Utah, May 6, 1935. e (Final settlement) Lot 1 de Shipping Point Calier	No. 5
Assays A.S.& R.Co.	Gold	Silver oz.per ton 2.7	Avg. 4/22 to 4/27	
Berdwell Settlement Assay	.585 .577 <b>5</b>	2.9 2.8		
Car Number Initial	Valu	es per ton	Deductions per	ton
UP 62400	Gold Silver,95% Min.	<b>31.81825</b> .5 @ .74604	18.38 Base 1.72 10% Xes.over 20.0	
Wet weight	85100		20.10 labor increase	.06
Less moisture 3.		total deduction	ons3.32 Total deductions	3.32
Dry weight	Emerge Hauli	ht advanced @ ency frt.@ 7% ag @ 2.25	3.20 136.16	\$689.00
	Assay:	ing roceeds,	less advance	844.43 444.57 800.00 244.87

5-2-33 S. L. 246 10M

Zram8 0**X** 10 Calicate, Newada GARRIED UTAN AMER AN SMELTING AND RE NING CO. Easter Mine SHIPPING POINT Grude 8/7 to 8/12 Phil Bolan, Caliente, Nevada GP Copy BOUGHT OF ≥ SAMPLED BY

DEDUCTIONS PERTON PER CENT 8 INSOLUBLE SULPHUR ARSENIC PER CENT ZINC DEBIT BASE IRON SULPHUR PER CENT 1.35 27°61 18.07 ZINC PER CENT 3604P 19,00 VALUES PER TON MEOL. 62.6 COPPER PER CENT LEAD COPPER, LESS SILVER. 95% LEAD, LESS\_ LEAD PER CENT GOLD 3.9425 OZ. PER TON 7017 4.13 00 00 3.8 WEIGHT SILVER SILVER 76940 .9512 GOLD OZ. PER TON 976 28. 96 16. SACKS NUMBER 8-9-33 68781SETTLEMENT ASSAY Bardwell A. S. # R. CO. WEIGHT OF LOT. ASSAYS B UMPIRE QUOTATIONS. WET WEIGHT CAR INITIAL MEIGHT OF

IE

Rates, except on contracts, subject

CHECKED

CORRECT

to change without notice

NET PROCEEDS

ASSAYING UMPIRE

488.20

134.00

6,00

TOTAL DEDUCTIONS

PER TON

16,42 3.00

LESS TOTAL DEDUCTIONS

FREIGHT ADVANCED (80000 MID.) @ 3.20 128.00

ADVANCES SAMPLING

37.843 thus

75786 Ib

1154

971

LESS MOISTURE

WEIGHT

DRY