



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the Grover Heinrichs Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

3226 East 46th Street

Phone 624-0049

AMERICAN ANALYTICAL and RESEARCH LABORATORIES

ASSAYERS - CHEMISTS - METALLURGISTS

Mr. Albert A. Walker

TUCSON, ARIZONA 85713

Sept. 13, 1968

SAMPLE SUBMITTED BY

DATE 11/11/54

[illegible]

GOLD CALCULATED AT \$35.00 PER OZ. TROY

CHARGES \$

3.75-

John S. Glover
ASSAYER-CHEMIST

Phone 624-0049

ASSAYERS - CHEMISTS - METALLURGISTS

TUCSON, ARIZONA 85713

DATE April 26, 1968

GOLD CALCULATED AT \$35.00 PER OZ. TROY

REGISTERED ASSAYER
 CERTIFICATE NO. 6352
 PETE S. FLORES
 ASSAYER-CHEMIST

SOUTHWESTERN ASSAIRS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO
WIL WRIGHT
ARIZONA REG. NO. 5875

P. O. BX 7517
TUCSON, ALZONA 85713

710 E. EVANS BLVD.
PHONE 602-294-5811

Mister A. A. Walker
 Sasabee Star Route
 Box 3 A, Tucson, Arizona

002344

JOB # _____ 4-4-68

RECEIVED _____ 4-10-68

REPORTED _____

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC %	MOLYBDENUM %
# 1	1.600	47.90				
2	.010	1.89	11.00	.15	.08	

CHARGE 13.00 Paid

* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO
WIL WRIGHT
ARIZONA REG. NO. 5875

P. O. BOX 7517
TUCSON, ARIZONA 85713

710 E. EVANS BLVD.
PHONE 602-294-5811

Mister A.A. Walker
Sasabee Star Route
Box 8 A

JOB # 002236
RECEIVED 3-14-68
REPORTED 3-18-68

Tucson, Arizona						
SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC %	MOLYBDENUM %
1 sample	.220	15.50	stone in Bas amegs			

CHARGE .. 3.75 Paid

* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

Affidavit of Labor Performed and Improvements Made

STATE OF ARIZONA,
County of Santa Cruz } ss.

Ernest J. Hicks being duly sworn, deposes and says that he is a citizen of the United States and more than twenty-one years of age, and resides at St. David in Cochise County, State of Arizona, and is personally acquainted with the mining claim known as Arizanas, Arizanas No. 1, Arizanas No. 2 mining claim, situate in Arizanas Mining District, County of Santa Cruz, State of Arizona, the location notice of which is recorded in the office of the County Recorder of said County, in Book 55 of Records of Mines, at page 382; that between the 31st day of August, A. D. 1971, and the 31 day of August, A. D. 1972, at least \$500.00

dollars worth of work and improvements were done and performed upon said claims not including the location work of said claim. Such work and improvements were made by and at the expense of Ernest J. Hicks &

William A. Walker owner of said claims for the purpose of complying with the laws of the United States pertaining to assessment of annual work, and The work done was prospecting for ore by drilling - which was done by Keith Bailey of Arivaca Arizona

were the men employed by said owners and who labored upon said claims and did said work and improvements, the same being as follows, to-wit:

Subscribed and sworn to before me this 16th day of October, A. D. 1972.

G. ESPINOSA MORENO
COUNTY RECORDER

(My commission expires _____)

Notary Public
BY Laura G. Fontes
DEPUTY RECORDER

FEE NO. 20386

STATE OF ARIZONA, County of Santa Cruz — SS.

I do hereby certify that the within instrument was filed and recorded at the request of Ernest J. Hicks on OCT 16 1972 A. D., 197 at 10:59 o'clock A M. Docket No. 149 Page 198 Records of Santa Cruz County, Arizona.

WITNESS my hand and official seal the day and year first above written.

G. ESPINOSA MORENO, COUNTY RECORDER

By Laura G. Foster Deputy

Affidavit of
Labor Performed and
Improvements Made

Dated....., 19.....

STATE OF ARIZONA } ss.
County of Maricopa }

I hereby certify that the within in-
strument was filed and recorded at

request of.....

Book

In Docket.....

on page.....

Witness my hand and official seal the
day and year aforesaid.

.....
County Recorder.

By
Deputy Recorder.

REPORT ON
ORO BLAND AND TIBB ANIMUS MINES

TECHNICAL ENGINEERING COMPANY

By S. W. TAYLOR
President

New York

July 24, 1907

Sold \$20 per ounce in 1907

Geo Blount Mine

The ore is found in and associated with a quartz-porphry intrusion in an extensive porphyry "country". This intrusion, as far as can be seen from the present workings, has come up through the extensive porphyry as a short lensular intrusion with a long ore or mineralized fissure showing the North Vein, the mineral solutions following these or more vein channels approximately parallel, the ore being found generally not in the more crushed and decomposed material but in the harder and less altered rock alongside of it. As exposed in the present workings of the mine, there are four main veins or ore-zones which carry gold values. These are named respectively, the north (the long ore of porphyry or mineralized fissure mentioned above), Middle, South and Parallel veins.

As exposed in the Long No. 4 cross-cut, the mineralized ground (the thickest part of the quartz-porphry intrusion) is some 350 feet wide at the widest part, the South side being limited by the Parallel vein, while on the North, though the "country" west of the shaft has not been quite reached by cross-cuts with the North wall, the North vein can be said to be the limiting wall of the deposit.

No sulphide ore has yet been encountered, unless the hard, unaltered red quartz-porphry at the end of the West drift be included.

The average strike of the deposit is North 65 degrees West, and the deposit is narrowing with depth as is shown by the opposite dips of the North and Parallel veins.

The North and Middle veins form one vein from the surface down to about 75 feet in the Hill shaft, where they split into two distinct veins. Similarly, but on the strike of the deposit, the South and Parallel veins form one vein in the Junction tunnel and shaft.

As will be seen from Map No. 3, the North vein has been opened on the 125 foot level (at an average depth of below the surface of 100 feet) by a drift 1034 feet long, by six raises, No. 5 of which is up 65 feet, by four stops above the level and one undercut stop from a level 40 feet deep. On the 210 foot level the North vein has been drifted on for 55 feet to the East and 95 feet to the West.

The Middle vein has been opened for 155 feet on the strike and by a raise 40 feet up and a small stop-out.

The South vein, if the ground included in samples Nos. 15, 16, 17, 18 and 19 be taken to represent this, is not very clearly defined on the east end, though following the slant drift from Station 11, the vein appears well defined. The vein may be said to be exposed up for over 500 feet and, including the South vein shaft and junction tunnel and shaft, exposed over a total distance of over 600 feet.

The Parallel vein is exposed in the main workings by a drift 175 feet long and No. 4 vein which is up 61 feet. It is also exposed in the Parallel shaft workings by a shaft 130 feet deep, by 135 feet of drifting on the bottom level, by 155 feet of drifting at the 65 foot level, and by a cut 35 feet below the surface. It is exposed for about 500 feet at the various points in the Parallel shaft workings and the Junction shaft and tunnel.

On the surface well defined outcrops can be traced from a little west of the Junction tunnel some hundred feet east of the No. 1 shaft. The tunnel on the Extension claim on the other side of the creek is apparently on the same ore camp, though the ore at this point narrows considerably and is very low grade. (1)

Though the mineralization as exhibited in the long No. 4 cross-cut appears to be largely continuous across the width of the intrusive mass, especially between the South and Parallel veins on examining closely the ground and geological structure in the drifts on the various veins and in the cross-cut, the average width of ore or mineralized ground in each of these four so-called veins is comparatively small and is approximately as follows:-

North vein	average width	5-5 3/4 ft. (12/10)
Middle vein	" "	4 1/2 ft.
South vein	" "	5 ft.
Parallel vein	" "	5 ft.

① This may be the claim lying west of the Los Amigos or the Los Amigos and the Extension may be the same.

THE ANIGOS MINE

The Tres Anigos and Serral Top veins cut across an elongated hill some 3,000 feet to the South West of the Oro Blanco Mine, known as the Serral Top hill.

The hill is mainly composed of andesite-porphry but the western part is crossed by a wide dyke of a purple-red quartz-porphry (in which the Serral Top vein deposit occurs). This dyke is exposed in the long Tres Anigos cross-cut, at the north end of the Serral Top drift and in the North Face of the Tres Anigos levels, and can also be traced on the surface across the wagon road in a direction South East from the Serral Top shaft.

The Tres Anigos vein appears to be a true fissure cutting across the andesite-porphry country. The vein has been opened on two levels, the tunnel level being about 650 feet long, while the 100 foot level is in two unconnected portions, respectively about 500 and 330 feet long. The main 100 foot level about 500 feet long, as mentioned above, was closely sampled. There is a shaft from the surface down to the second level, and three winzes; and also two large stopes, which are on surface ore, and a third stope above the tunnel level. The Tres Anigos vein is cut off in the north face of the drift at the tunnel level by the red quartz-porphry dyke mentioned in the preceding paragraph.

The samples taken and assay values are marked on Map No. 1.

The Serral Top vein is not a true fissure but rather a zone of mineralization in the red quartz-porphry dyke mentioned above as cutting across the west side of the property. It is opened up by a 175 foot shaft and some 250 feet of drifting, and is also probably proved in the long drifts in the andesite country from the Tres Anigos cross-cut. The vein as opened shows one short ore shoot, and the pay ore appears to be bottomed between the lowest working on the Serral Top shaft and the cross-cut tunnel.

The tonnage which can be expected to be extracted from this vein is small, as there is probably, from the appearance of the ends of the various drifts and the assays on the samples taken, just this one short ore shoot.

The Tres Anigos and Serral Top veins strike about North 47 1/2 degrees West, the dip of the Tres Anigos vein being about 80 degrees to the west and the Serral Top about 70 degrees to the East.

SECTION 2

CARLINI SCHIST

Block	One Blanna Mine - North Vein	Value
<u>MAIN WORKING 1st Level</u>		
1	In West face 734.3 from shaft; across 5'00" in face and 1'00" back in wider part of level-4'00" in all; cutting gneiss on North wall. Compact unaltered red quartz-porphry carrying fine sulphides - - - - -	\$ 7.00
2	Sample of above gneiss; across 5' - - - - -	Trace
47	Remnant of 31 taking 5'2" only 1 foot above old cut - - - - -	12.40
23	At top of No. 6 vein 50' above level across 5'11" - - - - -	10.00
35	In No. 6 vein 15' above level at West side of vein, 41' back from face across 2'00" -	4.00
103	10' East of center of No. 6 vein across 5'4". Same red quartz-porphry - - - - -	9.40
45	30' West of Station 20; across 4'2" - - - - -	1.20
37	5.5' East of Station 20; across 4'00" - - - - -	1.00
3	In face of right hand drift opposite Station 20, across 5'10" - - - - -	Trace
39	45' East of Station 20 across 4'11" - - - - -	2.00
40	4'00" West of Station 19 (- 50' East of S 35) Across 4'5" - - - - -	1.00
41	40 West end of carved steps 12.5' above level and 45' East of Station 19 across 5'5" - - - - -	5.00
204	In pillar at East end of carved steps 25' West Station 7, across 4'00". Sampling includes some rock breccia with manganese filling and some gneiss - - - - -	4.00

42	In first small slope West of No. 4 cross-cut 10.5' West of Station 7 and 12.5' above level across 3'6" of rough material - - - - -	4.00
43	30' East of Station No. 7 across 3'6" - - - - -	5.00
44	At top of No. 5 raise 65' above the level across 3'10" at East side of raise - - - - -	Trace
45	At top of No. 5 raise continuing across from 44 into 6' exposed in foot wall across 3'6" - - - - -	Trace
46	In No. 5 raise 50' above level at West side across 4'0" - - - - -	2.00
49	65' East of Station 7 and 10' above level at West end of No. 3 slope across 3'0" of sheared porphyry - - - - -	6.00
53	At top of No. 4 raise 45' above level (and 2' below top of raise) at West side across 4'2" - - - - -	6.20
56	In No. 4 raise 23' above level at West side across 4'0" - - - - -	2.50
59	In No. 3 slope 6' West of cross-cut to Mill shaft 15' above level across 5'6" - - - - -	Trace
60	40' East of S. 45 10'6" above level on East vertical face of No. 3 slope across 5'0" - - - - -	4.40
61	At West end of No. 2 slope 13'6" above level and 1' East of West edge of mine across 5'2" - - - - -	5.00
67	In lower mine slope 35' below level 11' from center of mine on West face of slope across 6'0" - - - - -	4.40
68	At bottom of mine on West side 45' below level across 6'2" - - - - -	2.00
69	Upper mine slope on East face 50' below level and 35' from center of mine across 5'4" of sheared porphyry - - - - -	6.40
63	Across 4'3" of foot wall of mine slope 30' below level and 10' from center of mine - - - - -	1.00
64	In pillar at East end of No. 2 slope 7' West of station 3 and 5' from West end of above pillar 9'2" above level, across 3'2" 7' - - - - -	6.00

62	At top of No. 1 stage raise at East side 33' above level and 4' below top of raise, across 5'6" -----	2.00
63	On East face of No. 1 stage 19' above level across 7'6" -----	2.00
64	40' East of S. 14 across 4'6" -----	1.50
65	In No. 3 raise 45' above level and 7' below top of raise at East side across 3'6" ----	Trace
66	In No. 3 raise 35' above level East side across 4'4" -----	4.00
67	9' East of center of No. 3 raise across 5'4" ----	1.20
68	14' East of center of No. 3 raise (and 40' east of S. 14) across 3'9" -----	2.00
69	In cross-cut 21' East of No. 3 raise at West side of cross-cut from wall-dip (9.5' from side of level) across 4' of channel porphyry to within 5.5' of side of level -----	1.00
70	Continuing for 5'6" to North side of drift across gold porphyry cut -----	1.00
71	40' East of S. 37 and 56' West of shaft across 5'6" Trace	
72	Across West Hill, west side of No. 2 raise cross-cut across 11'3" cut to side of drift -----	1.00
73	In No. 3 raise 29' above level (on angle of 72 degree dip to the South) and 3' below top of raise, along East side of raise and continuing into cross-cut, 5'0" in all -----	1.20
74	25' West of shaft (of station 9) at East side of No. 1 raise across 5'4" -----	1.00
75	Top of No. 1 raise 33' above level and 4' below top of raise at West side across 5'0" of quartz material -----	Trace

LAST DRIFT		Value
42	22' East of Station 0 across 3'6"	2.00
63	22' East of shaft across 4'2"	1.00
10	65' from shaft opposite West edge of double cross-cut, across 2'0" of decomposed material	2.00
96	112' East of shaft across 4'2"	2.20
63	137' from shaft across 1'6" of gage material ..	1.00
64	140' from shaft across 3'0" of decomposed andesite of South wall	2.40
63	At same place continuing across 1'6" of gage material	10.00
64	147' from shaft across 3'1" of gage and crush material	3.40
63	202' from shaft across 5'2" decomposed andesite ..	2.20
9	275' from shaft across 2'1" decomposed andesite ..	Trace
62	280' from shaft across 5'2" decomposed andesite ..	2.40
7	Face of East drift 300' from shaft across 6" of gage on South wall of drift	Trace
6	At same place, continuing across to North on uncomposd andesite behind slip across 3'7" ..	12.00
45	No-sample of S & S along old cut	13.50
103	Same East face after blasting into, across uncomposd green andesite behind slip, places back for a foot in behind slip missing 4" next to slip of green andesite. Now partially decomposed andesite	\$.80
60	No-sample of West face of drift after blasting across new cut no No. 47 but missing 4" each side of center slip carrying manganese80

SECOND LEVEL

NUM.		VALUE
107	210' level, sample in face of hanging wall rock, about 4'0", 500 from East side of shaft (station 9) - - - - -	Trace
108	62' from shaft across 5'0" - - - - -	Trace
109	West side of shaft station across 2'6" from side of drift in, of test ore - - - - -	4.40
110	Continuing across 4'6" of hard rock to back of shaft - - - - -	4.60
111	In face of East drift 30' from East side of shaft across 1'0", mostly gangue - - - - -	.30
112	In shaft 25' above station at East side across 4'3" - - - - -	Trace

OTHER SAMPLES TAKEN, EASTERN DRIVE

73	Picked pieces of sulphide ore from West face of North vein - - - - -	5.50
30	North vein West drift 67 feet East of station 30, opposite West edge of Amide recent opposite station. Across 5'3" including some crushed material - - - - -	Trace
65	North vein East drift 172' from shaft across 6'3" - - - - -	1.60

EXTENSION TUNNEL

97	In Extension tunnel along East wall of cross-cut 62' in across 5'5" - - - - -	10.60
98	In drift opposite last explanation 4'0" - - - - -	7.60

See also Mine - NORTH VEIN

MAIN WORKING - 1st Level

EAST DRIFT

14	In face 66.5' from cross-cut across 2'4" - - - - -	3.00
33	64' from cross-cut across 5'9" - - - - -	7.20
34	In stopes cut 10' above level and 14.5' from cross-cut across 3'9" - - - - -	14.60

<u>LINE</u>		<u>LINE</u>
-------------	--	-------------

25	In mine, in East drift from east, 10' from center of mine and 37' from level across 4'0". (Center of mine is 5' West of center of cross-cut) -----	9.50
----	--	------

26	In East drift from same point, 10' West of center of mine, 37' above the level (top of mine is 40' above level). Across 4'0" of cross material -----	1.00
----	--	------

27	In West face of stage drift, 43' from center of mine (= 59' from cross-cut), 26.5' above level across 4'0" -----	2.00
----	--	------

28	In face of West drift 73' from cross-cut across 2'0" of cross material with numerous filling of hanging wall (left hand side of drift) -----	1.00
----	--	------

29	Continuing across to foot wall across 2'0" --	Trace
----	---	-------

HILL SHAFT

100	In Hill shaft 115' above level across 4'0" at West side -----	Trace
-----	---	-------

101	In face of East drift at 77' above level, 14' from center of shaft across 1'7" of good ore at right hand side of drift. (No ore in hanging wall of drift and poor ore in foot wall) -----	23.00
-----	---	-------

THE HILL SHAFT - South Side

<u>HILL SHAFT - 1st level</u>	<u>Locales in Cross Cut</u>
-------------------------------	-----------------------------

13	In cross-cut commencing at a point 15'0" South of center of South vein drift and taking 15'0" West wall of cross-cut -----	2.40
----	--	------

14	Commencing at a point on East wall of cross-cut opposite the South end of above sample and taking 17'0" along East wall but deducting 5'0" for drift opening (drift to East) (12'0" net) -----	3.20
----	--	------

15	Commencing at a point on West wall of cross-cut opposite South end of above sample and taking 12'0" along West wall -----	3.40
----	---	------

NAME.	VALUE
12 Commencing at a point on East wall of cross-cut opposite South end of above sample and taking 9' 9" along East wall up to dip separating it from the unaltered andesite (from end of sample 12 to center of Parallel drift 16") -----	4.60
13 In face of No. 9 drift 33' from cross-cut and 6' beyond East side of cross-cut to left-hand corner 6' 0" -----	2.60
61 34' West of center of cross-cut and 53' east of S 20 across 5' 6" including 2' 6" of veins in foot wall -----	6.60
62 42' East of S. 20 across 5' 6" of vein, across to foot wall -----	Trace
70 30' East of S. 20 at East end of stope across 8' 9" of hard quartzose hanging wall rock -----	1.60
85 60' West of Station 15 and 100' from center of cross-cut across 5' 0" -----	7.20
95 Midway between samples 25 and 23 (225' in cross-cut) across 4' 2" -----	3.40
100 Midway between S. 75 and S. 20 (157.5' from cross-cut) across 5' 4" -----	1.40
20 100' West of Station 15 and 150' from cross-cut across 5' 0" -----	11.00
70 20' West of S. 23 across 2' 0" of decomposed andesite wall rock at right hand side of drift -----	Trace
76 Midway between S. 20 and S. 30 across 2' 5" of quartzose rock in foot wall (left hand side of drift) -----	5.40
87 Continuing across from last sample across 1' 0" of cushioned red gouge -----	Trace
30 200' from cross-cut across 4' 3" -----	11.60
6 In face of West drift 213.5' from cross-cut across 6' 3" of porphyry and including 1' 6" of crushed material on North wall -----	1.20

MARK		VALUE
31	In "Quartz" cross-cut sample along west wall from 20' to 25' from center of drift -----	1.00
32	In face of same cross-cut 22.5' from center of drift across 1'6" of solid white quartz and 3'6" of red quartz and porphyry, 4'0" in all -----	1.00

See Notes - Parallel Veins

MARK	1st Level	2nd Level
4	In face of East drift 22.5' from cross-cut across 3'1" -----	1.00
26	75' from cross-cut across 4'10" including 1'6" of gangue material -----	3.00
29	In top of Parallel veins at East side 33' above level (to top of vein 61' from level) across 3'6" -----	22.22
31	In same vein 17.5' from level at East side across 2'0" of soft gangue material -----	22.43
37	30' from cross-cut across 3'6" including 1'3" of gangue -----	3.00
33	15' from cross-cut across 1'6" of decomposed andesite -----	2.00
23	Sample from across Southwall of drift (to ascertain if values are outside vein proper); includes a foot of partially decomposed andesite and a foot of unaltered country rock -----	1.00
5	In face of West drift 53.5' from cross-cut across 6" of gangue -----	1.00

Parallel Shaft Samples

31	In East face of bottom level 50' from shaft across 4'6" of decomposed andesite and 3'0" of hanging wall rock, 7'6" in all -----	Trans
29	55' from shaft along West wall of cross-cut into East wall across 11'0" of quartz porphyry --	1.00
20	54' East of shaft in drift across 6'3" of partially decomposed porphyry -----	1.00

MARK		VALUE
53	20' West of shaft across 3'10" -----	Trace
57	57' from shaft across 4'0" of decomposed andesite -----	1.00
11	In shaft 9' above 55' level at East side, across 4'6" of quartz porphyry -----	Trace
5	at 55' level on drift 40' from shaft, across 4'0" of compact quartz porphyry -----	3.40
7	at same level 65' from shaft across 7'0" of quartz porphyry -----	Trace
9	60' from shaft across 6' of quartz porphyry (opposite small cross-cut into hanging wall, caused by turning drift to South). No walls --	1.00
13	Same distance from shaft across West side of above cross-cut, across 8'6" of quartz porphyry -	Trace
10	115' from shaft across 4'8" of quartz porphyry	4.40
12	140' from shaft along West side of cross-cut into hanging wall, across 15'0" -----	Trace
14	In face of West drift 140' from shaft, across 2'6" (same quartz porphyry both sides, no walls)	Trace

Junction Tunnel and Shaft

59	Sample across West side of shaft on level with floor of tunnel, across 3'9" of quartzose ore (shaft is 60' deep) -----	Trace
----	--	-------

Iron Bridge Mine - Iron Bridge Vein

1st level		NORTH DRIFT
203	In face of North drift 250' from center of cross-cut, across 3'6" until slip where quartz- porphyry dyke cuts off vein -----	Trace
204	75' South of S. 203 and 150' from cross-cut across 5'0" -----	Trace

NAME	VALUE
207 100' from cross-cut and 14' above level, across 7'6"	4.00
208 51' from cross-cut along South side of cross- cut into foot wall, across 12'3"	1.00
209 35' from cross-cut and 14' above level, across 3'9"	30.00
210 In long cross-cut, picked pieces of calcite porphyry	Trace
211 Picked pieces from face of Tree Adges cross-cut of purple red quartz porphyry	Trace
212 ^{1e} At first left hand corner of cross-cut inter- secting drift, across 4'4" broken across corner. This is the vein at this place	1.20
SOUTH DIRT	
207 50' from center of cross-cut and 11' above level, across 6'9"	2.00
208 100' South of cross-cut and 25' above level across 4'6"	3.00
209 150' South of cross-cut and 15' above level, across 12'0"	Trace
210 105' South of cross-cut along South side of cross-cut into foot wall, across 2'9"	Trace
211 200' South of cross-cut and 20' above level, across 5'0"	5.00
212 250' from cross-cut in North pillar of shaft from surface, across 5'2"	2.00
213 250' from cross-cut along North wall of mine station; along 14'0" cut from side of drift	2.00
214 Highway between S. 212 and S. 214 (275' from center of cross-cut) across 4'4"	18.00
214 300' from cross-cut across 4'6"	25.00

MARK		VALUE
213	Midway between S. 214 and S. 215 (325 feet from cross-cut) across 4°40' -----	15.00
215	350' from cross-cut, across 4°20' -----	20.00
217	375 from cross-cut, across 3°10' -----	9.40
216	400' from cross-cut, across 4°30' -----	Trace
217	Continuing across bent from above sample into corner, across 2°30' -----	2.40
218	445' from cross-cut, across 3°20' -----	6.40
232	455' South of crosscut under pillar of stage, across 212 3°30' -----	40.00
	(To extremity of tunnel from S. 232 is 75', or to where drift enters water cover, 69')	

End Level

NORTH SIDE

219	In North Face of drift 42.5' from center of mine, across 3°10' of ore (5' cross-cut to left hand side shows nothing) -----	14.00
220	17.5' from center of mine, across 4°00' -----	5.00

SOUTH SIDE

221	6' South of center of mine, across 4°30' -----	11.20
223	16' South of mine along South side of cross-cut into hanging wall, along 20°00' of bent looking back -----	6.00
224	31' South of mine, across 4°50' -----	20.30
222	55' from cross-cut mine across 4°20' -----	1.40
223	105' from shaft, across 4°20' -----	8.20
223	121' from shaft, across 4°10' -----	21.00
224	155' from shaft, across 4°00' -----	Trace
225	205' from shaft, across 4°20' -----	2.00

Yew also said mine was closed down in 1907 during a depression.

Yew Rodriguez told me in 1946 that no ore was ever shipped from the mine. It had a small amount in 1936.

NAME	VALUE
232 103' from shaft, in cross-cut to right hand along N. side wall, across 10'0" from West slip out to side of drift - - - - -	8.00
235 255' from shaft, across 4'7" - - - - -	3.40
237 285' from shaft, across 3'9" - - - - -	8.20
237 305' from shaft, across 4'6" - - - - -	6.40
238 355' from shaft, across 4'4" - - - - -	8.60
238 375' from shaft, along North side of cross-cut to left-hand, across 7'6" - - - - -	8.00
231 405' from shaft, across 3'9" - - - - -	8.00
239 In South face 455' from shaft at right hand side of drift, across 1'2" of dark iron stained gouge	2.60
239 Continuing across 2'4" to foot wall (left hand side of drift) across sheared porphyry and vein filling - - - - -	6.00

Yew Mines Mine - Serral Top Veins

Serral Top Shaft workings

233 At 65' level in pillar separating shaft from small South stops 7.3' from center of shaft; across 3'6" of good iron-stained rock - - - - -	\$52.40
234 45' level in North drift 31.5' from shaft and 3.5' back from face; across 4'9" of partially decomposed red quartz porphyry - - - - -	6.40
234 In shaft 60' down on South side across 4'2" - - - - -	25.20
241 120' level South drift 32' from shaft opposite South edge of 23' cross-cut into foot wall; across 4'6" from hanging wall slip to side of drift - - - - -	1.40
242 Continuing for 5'9" across West wall of cross-cut down to unaltered wall rock - - - - - (drift continues for 6' but ore is turned into right hand side of drift or is cut out by hard red porphyry).	8.00

①

① Some of this ore remains - It is high grade. Sample taken about 1954
 This ore contains about 10% of silver, about 25¢ in 1907.

See P. 24

<u>NAME</u>		<u>VALUE</u>
240	10' from shaft across 3'0" - - - - -	5.00
241	In shaft on North side 12' above 120' level, across 2'0" of best looking part of barren looking section of ground - - - - -	29.60
237	Same 120' level, North drift, 49' from center of shaft, across shaft across 4'7" - - - - -	8.20
238	80' from shaft, across 5'0" - - - - -	10.60
239	In North face, 102' from shaft, across 5'2" - - - - -	6.40
236	In shaft at south side, 139' down, across 5'10" - - - - -	2.60
235	In shaft 167' down at North side, 2' above roof of bottom level; across 4'9" of red porphyry - - - - -	34.80
<u>Cross-Cut Workings</u>		
202	In North Drift 65' North of Cross-cut, across 5'0" at best part of vein. This ore only shows for about 50' of entire drift - - - - -	2.40
243	35' from cross-cut, across 2'6", mostly decomposed andesite - - - - -	2.00
246	In South drift, 10' from cross-cut, across 2'5" of partially decomposed andesite - - - - -	1.00

Sec. 3.

Ore Estimates

Ore Extracted. About 3,200 tons of ore have been taken out from the Tres Amigos workings and milled in the 3 stamp Merrill mill for test purposes. The grade of this ore was said to be about \$25.00, but both mining and sorting must have been carefully carried out to produce ore of this grade, as none of the stopes show more than small bunches of ore approximating at all to this in grade.

A large tonnage, probably about 30,000 tons, has been extracted from the Tres Amigos stopes and drifts. Except for the one small stope above the 65 foot level on the Serral Top vein, no ore from this vein has been extracted for the mill. The ore extracted from the Tres Amigos vein was milled in the old Tres Amigos mill.

Ore Blasted out and Probable Ore. The average assay value of the mine is computed in four different ways:

① I went down rope to check these 2 samples. Traylor apparently added 20% to the true value of assay. Sampled about 1954. Breach cut by Traylor evident.

C. P. A.

1. General average on all ore claimed.
2. On ores running trace to \$2.00.
3. General average excluding assays of \$2.00 and under.
4. General average excluding assays of \$5.00 and under, and the corresponding tonnages, taking ore of each of the above grades as computed.

The minimum commercial value for the ore is taken to be \$5.00. (The "probable" ore is also computed under each of the above heads)

Notes:- On maps No. 2 & 7 will be found a legend showing in colors, first, - ores with values of trace to \$2.00, second, - ores of value to \$2.00 to \$5.00 and third, - ores of value of \$5.00 and upward.

Notes. For any one block of ground the average assay value was arrived at by a method of proportioning the several assays in the drifts and veins. This almost certainly gives a more accurate average than one calculated from strict width-dollar multiples, and in any case, will probably be too high as the values do not seem to extend more than about 60 feet above the level.

The widths taken were generally wider than the widths sampled and often wider than the width of the drift. This is to allow for ore branching into walls as happens at places, as is shown in some cross-sections, though the values in these are never high.

No allowance has been made for ore below the level, as this is more than compensated for by the two factors of grade and width mentioned above.

ROUND VEIN

- A. Above 125 foot level;
 - (a) East of shaft;
 Total length on strike - (distance from station) to East face - 500 feet.
 Average length of dip-vein of seven ordinates taken from Map No. 3-58 feet.
 Width of vein - mean of ten widths equally spaced - 5 feet.
 Cubic contents of block of ground - 147,000 cu. ft.
 One ton of vein in place measures 13.5 cu. feet.
 Tonnage in block of ground - 10,900 tons.
 Average assay value - proportional mean of assays - \$2.50.

(b) West of shaft;

1. From shaft 150 feet west.

Length on strike - 150 feet

Average length on dip - 155 feet.

Width of vein - 6 feet.

Cubic contents - 139,500 cu. feet.

Tonnage - 10,300 tons

Assay value - \$2.30

2. From 150 feet west of shaft up to Station 7.

Length of strike - 163 feet

Average length on dip - 193 feet.

Width of vein - 5 1/4 feet.

Cubic Contents - 161,930 cu. feet.

Tonnage - 12,700 tons.

Assay value - \$2.70

3. Below the level in block of ground opened up by mine.

Length on strike - say 75 feet.

Length on dip - say 63 feet.

Width of vein - 6 1/2 feet.

Cubic Contents - 26,900 cu. feet.

Less volume of ore extracted - 40x 40 x 6 1/2

-10,400 cu. feet.

-volume of ground remaining - 16,400 cu. feet.

Tonnage - 1,200 tons.

Assay value - \$5.50

4. From Station 7 to Station 19.

Length on strike - 144 feet.

Average length on dip - 203 feet.

Width of vein - 5 1/2 feet.

Cubic contents - 153,000 cu. feet.

Tonnage - 12,100 tons.

Assay value - \$5.10

5. From Station 19 to Station 21.

Length on strike - 190 feet

Average length on dip - 217 feet.

Width of vein - 5 3/4.

Cubic Contents - 216,500 cu. feet.

Tonnage 15,000 tons

Assay value - \$1.35.

6. From Station 21 to West Face;

Length on strike - 74 feet

Average length on dip - 217 feet.

Width of Vein - 5 feet.

Cubic Contents - 20,300 cu. feet.

Tonnage - 5,900 tons

Assay value - \$7.00

B ——— Between first and second levels;

Note. No allowance is made for ore below the level as this is more than covered by taking a rectangular block of ground, and by the fact of the East Drift being driven away from the ore in the hanging wall of the ore-bank.

(a) East of shaft;
 Length on strike - 90 feet
 Length on dip - 105 feet.
 Width - 5 feet
 Cubic contents - 25,250 cubic feet
 Tonnage - 1,500 tons.
 Assay value - \$1.80
 (b) West of shaft,
 Length on strike - 90 feet.
 Length on dip - 105 feet.
 Width of vein - 6 feet.
 Cubic contents - 36,700 cu. feet
 Tonnage - 4,200 tons.
 Assay value - \$4.30

Total tonnage in North Vein of three grades of ore.

(1)	10,000 tons of \$2.50
	10,383 " " 2.30
	12,700 " " 5.70
	1,500 " " 5.50
	13,100 " " 5.10
	16,000 " " 1.55
	5,000 " " 7.00
	1,000 " " 1.00
	4,200 " " 4.30
	<u>73,983 tons of \$3.70</u>

(2) 43,000 tons of \$2.30

(3) 31,000 tons of 5.70

MIDDLE VEIN

(a) East Drift;
 Length on strike - 85.5 feet
 Average length on dip - 200' - 75' or 125 feet.
 Width of vein - 5 feet.
 Cubic contents - 54,000 cu. ft.
 Tonnage - 4,000 tons
 Assay value - \$0.50

- (B) West drift;
 Length on strike - 75 feet.
 Average length on dip - 125 feet.
 Width of vein - 4 feet.
 Cubic contents - 38,000 cu. feet.
 Tonnage - 2,600 tons.
 Assay value - \$2.25

Total tonnage in Middle Vein of two grades of Ore.

- (1) 2,600 tons of \$5.90
 (2) 4,000 " " 3.50 (minus 2000 tons of \$2.25 value)

SOUTH VEIN

- (a) From cross-cut for 60 feet along drift;
 Length on strike - 60 feet
 Average length on dip - 100 feet.
 Width of vein - 5 feet
 Cubic contents - 75,000 cu. feet.
 Tonnage - 5,600 tons
 Assay value - \$1.60

- 5 (b) Block of ground exposed in cross-cut;
 Length East to West - say 60 feet.
 Length North to South - 55 feet
 Length on dip - say 40 feet.
 Cubic contents - 132,000 cu. feet.
 Tonnage - 9,000 tons.
 Assay value - \$3.70.

- (c) From 60 feet in drift to West face;
 Length on strike - 143.5 feet
 Average length on dip - 100 feet
 Width of vein 5 feet
 Cubic Contents - 135,300 cu. feet.
 Tonnage - 10,100 tons
 Assay value - \$5.10

Total tonnage in South Vein of three Grades of Ore.

- (1) 5,600 tons of \$1.60
 9,000 tons of 3.70
 10,100 " " 5.10
 24,700 tons of \$3.20
 (2) 19,000 tons of \$4.40
 (3) 10,100 " " 5.10

Parallel Vein

A. Main workings:

- (a) Tonnage in No. 7 veins are about
Length on strike - 80 feet (from cross-cut for 80' in).
Average length on dip - 225 feet.
Width of vein - 5 feet
Cubic contents - 90,000 cu. feet.
Tonnage - 6,700 tons.
Assay value - \$7.50
- (b) Remainder of drift both sides above are about:
Length on strike - 60 feet.
Average length on dip - 225 feet.
Width of vein - 4 feet.
Cubic contents - 54,000 cu. feet.
Tonnage - 6,000 tons.
Assay value - \$2.00

B. Parallel shaft workings.

Length on strike - 150 feet
Length on dip - 150 feet.
Width of vein - 7 feet
Cubic contents - 157,500 cu. feet.
Tonnage - 10,100 tons
Assay value - \$1.20

Total tonnage in Parallel vein of two grade of ore:

(1) 6,700 tons of \$7.50
6,000 " " 2.00
10,100 " " 1.20
12,800 tons of \$1.20

(2) 6,700 tons of \$7.50

Total tonnage in main Ore Blanco Mine - All veins of two grade of ore

North	75,000 tons	42,300 tons	31,000 tons of \$5.70
North	6,000 "	3,000 "	4,000 " " 8.50
South	25,500 "	15,400 "	10,100 " " 1.10
Parallel	32,000 "	16,100 "	6,700 " " 7.50
	138,500 tons	77,800 "	52,700 tons of \$6.00

THESE ARE THE RESULTS - THESE ARE THE RESULTS

4. Above tunnel level.

(a) North of cross-cut;

2,420 feet from center of cross-cut;

Length on strike - 120 feet

Average on dip - 155 feet

Width of vein $6\frac{1}{2}$ "

Cubic contents - 120,000 cu. feet

Tonnage - 9,000 tons

Assay value - \$4.00

2. For 150 feet from end of last block of ground into ferr.

Length on strike - 150 feet

Average length on dip - 155 feet

Width of vein - 5 feet

Cubic contents - 115,000 cu. feet

Tonnage - 8,000 tons

Assay value - \$1.00

(b) South of cross-cut.

1. From cross-cut for 250 feet;

Length on strike on dip

Average length on dip - 145 feet

Width of vein - $6\frac{1}{2}$ "

Cubic contents - 220,000 cu. feet - volume of

ground stoped - $70 \times 20 \times 6.5 = 9,100$

cu. feet. - net 211,000 cu. feet.

Tonnage 16,400 tons

Assay value - \$1.00

2. From 250 feet up to 350 feet;

Length on strike - 100 feet

Average length on dip - 120 feet

Width of vein - $4\frac{1}{2}$ "

Cubic contents - 50,000 cu. feet - volume of

ground stoped - $40 \times 25 \times 4.5 = 4,500$ cu. ft.

net 45,500 cu. feet.

Tonnage - 4,000 tons

Assay value - \$17.00

3. From 350 feet to entrance of drift;

Length on strike - 100 feet

Average length on dip - 65 feet

Width of vein - $4\frac{1}{2}$ "

Cubic contents - 51,000 cu. feet volume of

ground stoped - $60 \times 40 \times 4.25 = 10,200$

cu. feet. - net 41,000 cu. feet.

Tonnage - 3,100 tons

Assay value - \$8.00

B. Between tunnel level and 100 foot level.

(a) Above 300 foot drift.

1. From North face (-42.5 feet from center of
crown-cut shaft) to 40 feet south of shaft:
length on strike - 82.5
Average length on dip - 100 feet.
Width of vein - 5 feet
Cubic contents - 41,250 cu. feet
Tonnage - 3,100 tons.
Assay value - \$11.00

2. From 40 feet south of shaft to 270 feet south
length on strike - 210 feet
length on dip - 100 feet
Width of vein - 5 feet
Cubic contents - 115,000 cu. feet
Tonnage - 8,500 tons
Assay value - \$5.00

3. From 270 feet south of shaft to face
(436 feet from shaft)
length on strike - 186 feet
length on dip - 100 feet
Width of vein - 5 feet
Cubic contents - 92,000 cu. ft.
Tonnage - 6,900 tons
Assay value - \$10.00

(b) Above 220 foot part of level
length on strike - 220 feet
Average length on dip - 65 feet
Width of vein - 4'6"
Cubic contents - 60,350 cu. feet
Tonnage - 4,500 tons
Assay value - \$4.90

Total tonnages in Tree Anigos vein

(1)	0,000 tons of \$4.00
	0,500 " " 1.00
	16,400 " " 2.50
	4,000 " " 17.00
	3,100 " " 11.00
	3,100 " " 8.00
	0,500 " " 5.00
	0,900 " " 10.00
	4,800 " " 4.90
	64,400 tons of \$5.43

Of the 64,400 tons it is safe to estimate that 40,000 tons will
average \$9.00

TRAIL MILL - SERRAL TOP VEIN

- (a). Serral Top shaft ore shoot-central portion of ore shoot lying diagonally across shaft, commencing at South side of shaft and coming down through small steps on 65 foot level and crossing shaft between the 120 foot and 175 foot levels;

Length on dip - 175 feet. -ok
 Length on strike - 35 feet -ok
 Width of vein - 4 1/2"
 Cubic contents - 22,100 cu. feet.
 Tonnage - 2,000 tons
 Assay value - \$22.00

+ 10% air
 + 10% ag
 (Not enough
 opened up
 to sample)

Vein width $\pm 3.5'$

see pp 15 & 16

- (b) Remainder of block of ground opened up in Serral Top shaft workings;

Length on dip - 175 feet
 Length on strike - 80 feet
 Width of vein - 5 feet
 Cubic contents - 70,000 cu. feet - above 22,100 cu. feet
 net - 47,900 cu. feet
 Tonnage - 2,000 tons
 Assay value - \$7.00

- (c) Block of ground between bottom of Serral Top shaft and cross-cut workings;

Length on dip - 175 feet
 Length on strike - 150 feet
 Width of vein - 5 feet
 Cubic contents - 131,250 cu. feet
 Tonnage - 2,700 tons
 Assay value - \$2.50

Total tonnage in Serral Top Vein

(1)	2,000 tons of \$22.00
	2,000 " " 7.00
	2,700 " " 2.50
	<u>14,700 tons of \$5.10</u>

Total tonnage in Trail Mill - both Veins

Trail Mill	64,000 tons of value as above
Serral Top	14,700 " " " " "

78,700 tons approximate average value \$5.10

Sect. 4.

MINERAL, ETC.

In either mine it is impossible to tell from the appearance of the ground where the values lie, though generally the more compact and quartzose rock will carry higher values. Thereover the ore ran over \$6.00 per ton, the ground at that point was further prospected by raises, etc. and often stopped but still values fell too low for further extraction. The former operators of the mine seem to have been able, either from close sampling or from a close acquaintance with the rock, to have worked on the higher grade ground.

The ore seems to lie in shoots which are more or less short, but owing to the spotted character of the ore and the greater or less continuity of the mineralization, these are not very well defined.

The estimates of tonnage were made on areas of ground incompletely blocked out and it is possible that the estimate of the tonnage in any one block of ground, when more completely exposed by further development, would have to be cut in half. This is particularly the case in the main Ore Blanco workings, where the values seem to fall rapidly 50 to 60 feet above the level.

The estimates of tonnage and grade, if not excessive, are at any rate, not under the actual figures, and the ground was given all the credit it was worth.

In some of the stopes, the pillars left were too low grade for extraction.

ORE BLANCO MINE

In the main Ore Blanco workings, it is computed there is 52,700 tons of ore which can be extracted, averaging \$6.00, blocked out, but owing to the irregular distribution and spotted character of the ore, supposing a profit could be made on \$6.00 ore under the local conditions and with the present mill, it is doubtful if this ore could be extracted at a profit.

Further developments on the Ore Blanco will necessarily be expensive on account of the heavy flow of water, and, again, the assays in the veins below the 225 foot level and on the 230 foot level are much lower in values, therefore taking into consideration the water to be contended with and the low assay values on your lowest workings makes it difficult, within a degree of safety, to recommend further sinking, at least until after you have made further and fuller developments on the Tres Azules, which would, in our judgment, have considerable to do with the future development of the Ore Blanco veins. At this point however, we wish to state that the heavy flow of water, in the Ore Blanco is of considerable importance to your company. In fact, it may be termed as of great value, as, without this water, it would be

difficult and expensive to secure water from any other source in quantity for the carrying on of large operations without going to an enormous expense". We may also mention here that our not being able to recommend further development on the Ore Blanco at this time is due mainly to the fact that the development of the Tres Arzobis can be accomplished at much less cost, and from the further fact that the Tres Arzobis vein is more clearly defined. It is just possible that in depth the intrusive strata of veins as found between the North, Middle, South, and Parallel as above enumerated, may be consolidated into one vein, and, under such circumstances, this would unquestionably prove the Ore Blanco, in our judgment to be a valuable property, the direction in which the North and South veins dip indicates that it is reasonable to expect them to come together at greater depth, as both of these veins dip towards each other.

Sample No. 3 in the face of the East drift of the North vein was of hard unconsolidated green andesite behind the wall dip of the vein; this assayed \$12.00. On blasting into the wall however, and reaching the true "country" the values disappeared, as in sample No. 103, thus indicating that, in all probability, the values were leached out of the vein and concentrated in the enclosing rock immediately next to the vein. Samples Nos. 1 and 60, taken in conjunction with samples Nos. 47, 52, and 3 respectively, would appear to indicate that the values in the West end and all on the North drift were mainly concentrated near the so-called "margenite dip" and in the rock showing the fine sulphides.

It may be mentioned here that the length of the ore shoots on the Middle, South and Parallel veins are respectively about 55, 100 and 60 feet.

The assay values given are for gold alone, the silver contents being one ounce or under.

THE ARZOBIS VEIN

It is computed that 40,000 tons of ore averaging \$9.00 can be extracted from the Tres Arzobis vein proper, or 64,400 tons of the lower average of \$3.40 may be extracted from the same vein, while it is computed that there can be extracted 14,700 tons with an average value of \$6.10 from the Corral Top vein.

In referring to the Tres Arzobis Mine, we call special attention to the Corral Top vein, as from the smallness of the ore shoot and the doubt from the structure of the deposit of any other ore shoot being encountered, it can hardly be taken into account in considering the future of the mine and its prospective value.

With regard to the Tres Arzobis vein, however, there is computed to be 40,000 tons of ore averaging \$9.00 with a grand total of 64,400 tons of ore averaging \$3.40 blocked out, and the prospective value of the mine, in our judgment, is by far more encouraging than that

of the Oro Blanco; this decision being arrived at after giving due consideration and careful study of the general appearance of the chief points of development in both properties. It must not be overlooked, however, that on the tunnel level on the Tres Amigos the vein is cut off at the north end of the drift by a 'purple-red quartz-porphry' dyke which cuts across the northwesterly portion of the property. This dyke will, of course in all probability cut the vein at the 100 foot level at some point more or less distant from the shaft.

Our sampling, taken for the sole purpose of getting a true conservative tonnage and value of the ore blocked out in your properties, and at the same time give the mine the benefit of doubt in every case, would indicate that ore of a commercial value in the Oro Blanco, including all veins, would be 32,700 tons having a value of \$4.00 per ton, and the Tres Amigos, including the Central Top, 79,100 tons of an average value of \$3.00 per ton.

To enable you, if desired, to check up our work, we have included in this report full and concise descriptions of the major portion of our samples, and especially those which have any reference or bearing on the tonnage and value of the ore.

AN OBSERVATION:

We deeply regret that we cannot recommend to you the installation of an ore reduction plant, as the amount of ore in sight, considering the location of the mines, and particularly the scarcity of fuel in the immediate vicinity of the properties, would under no circumstances justify the expenditure of money in this direction at present.

In considering a plant for your properties, all of the power should be transmitted electrically from the nearest point on the railroad. To do this, however, the properties must be thoroughly developed, as you have at the present time no workings of any depth to speak of, but with the splendid showing that you have, however, on the Tres Amigos particularly, we can see no reason why this property should not develop in depth, and unless the vein is cut off by the large quartz-porphry dyke referred to above, which is not likely except on the south end, this vein should make sulphide ore with an additional 100 to 200 feet in depth, and at this point the future of the mine could be proven beyond question. We would therefore recommend that a gasoline hoist be located at some suitable point on the Tres Amigos at the level of the cross-cut, that the vertical shaft sunk to a depth of 100 feet below the cross-cut level be

continued in depth, and that drifts at proper intervals be driven to determine the extent of the ore and its value. Until the results of this development work had been concluded one way or the other, we would not recommend the expenditure of further money on the Ore Blance, as in case of the Tres Adigos developing into a valuable property, as we think it will, the proper thing thereafter would be the locating of a large three-compartment working shaft at some point centrally between the Ore Blance mines and the Tres Adigos, and have both properties worked through this main shaft. By so doing this would enable you to more economically develop further the Ore Blance properties and to successfully handle the large flow of water that you now have to contend with in same.

Signed Trayler Engineering Company
By S. W. Trayler
President

New York, July 24, 1907

COPY

SECOND LEVEL

<u>NAME</u>		<u>VALUE</u>
107	230' level, sample in face of hanging wall rock, across 4'9", 938 from East side of shaft (Station 0) - - - - -	Trace
108	62' from shaft across 5'0" - - - - -	Trace
109	West side of shaft station across 2'6" from side of drift in, of best ore - - - - -	4.40
110	Continuing across 4'6" of hard rock to back of shaft - - - - -	4.60
111	In face of East drift 50' from East side of shaft across 1'0", mostly gouge - - - - -	.80
112	In shaft 15' above station at East side across 4'6" - - - - -	Trace

OTHER SAMPLES TAKEN, OMINED ABOVE

73	Picked pieces of sulphide ore from West face of North vein - - - - -	5.00
38	North vein West drift 87 feet East of station 20, opposite west edge of double recess opposite station. Across 5'8" including some crushed material - - - - -	Trace
85	North vein East drift 172' from shaft across 6'3" - - - - -	1.60

EXTENSION TUNNEL

87	In Extension tunnel along East wall of cross-cut 62' in across 5'6" - - - - -	19.80
90	In drift opposite last sample across 4'0" - - - - -	7.60

Ore Blanco Mine - Middle Vein

MAIN WORKINGS - 1st Level,

EAST PIER

14	In face 86.5' from cross-cut across 2'6" - - - - -	2.00
33	54' from cross-cut across 3'9" - - - - -	7.20
34	In stop cut 19' above level and 16.5' from cross-cut across 3'9" - - - - -	14.60