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12/14/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SOCORRO MINE

ALTERNATE NAMES:

LA PAZ COUNTY MILS NUMBER: 89

LOCATION: TOWNSHIP 5 N RANGE 12 W SECTION 25 QUARTER SW
LATITUDE: N 33DEG 44MIN 41SEC LONGITUDE: W 113DEG 28MIN 12SEC
TOPO MAP NAME: LONE MOUNTAIN - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD LODE
SILVER
LEAD

BIBLIOGRAPHY:
KEITH, S.B., 1978, AZBM BULL. 192, P. 154
ADMMR SOCORRO MINE FILE
AGS 1988 SPRING FIELD TRIP

Folder
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SOCORRO REEF PROJECT

Final Report

Yuma County, Arizona

by

G. E. Ryberg

33 PPM = 102

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ILLUSTRATIONS

Illustrations - Continued Plate No.

CONCLUSIONS AND RECOMMENDATIONS

During the period May through September 1974 B & B Mining Corporation conducted an exploration program at a cost of approximately $93,339.00.

The program consisted of land acquisition, claim staking, road building, trenching, percussion drilling, geologic mapping, sampling and assaying. The best zone encountered in surface trenching was 30 feet which averaged .123 oz/T Au and 0.63 oz/T Ag but this zone did not continue along strike nor was it encountered in the mine workings approximately 30 feet below.

After careful consideration I recommend that B & B Mining Corporation drop the options on these properties.

INTRODUCTION

PURPOSE:

The purpose of the Socorro Reef Project was to explore for and develop substantial gold reserves which could be mined by open-pit or high volume underground methods. Geologic mapping, trenching, percussion drilling and assaying were the chief methods used in evaluating this property.

PROPERTY DESCRIPTION AND LOCATION:

The Socorro Reef area is located at the southwest end of the Harquahala Mountains in east central Yuma County, Arizona. The Socorro Reef Property consists of 45 claims and a mineral lease on one section of leased land. The claims are located mostly in Sections 24, 25, 26, and 35, T.5N., R.12W. and Section 19 T.5N., R.11W. The state section is Section 36, T.5N., R.12W. The property can be reached by following the Buckeye road southeast from Salome for 10 miles and then following an unimproved road northeast for three miles. With the exception of two short four-wheel drive roads constructed this year most of the property is accessible only on foot.

OWNERSHIP AND AGREEMENT:

The Socorro Reef Group consists of three properties listed below:

1. Reef owned by Thomas C. King, Lisa D. King, George Campbell, and Shirley Mae Campbell. Payments are $1,200 quarterly beginning July 10, 1974.

2. Palo Verde - Five claims owned by Hayden S. Brown, Marjorie E. Brown, George W. Campbell, Sr., Annie E. Brown and T.C. King. Payments are $300 quarterly beginning June 10, 1974.

3. Iron Door - Six claims owned by Thomas C. King, Lisa D. King, Hayden S. Brown, Marjorie E. Brown, George Campbell, Jr., and Shirley Mae Campbell. Payments are quarterly beginning July 10, 1974.

Arizona State Prospecting Permit #28440 covers 620 acres in Section 36, T.5N, R.12W. Payments are $1,240 per year beginning July 22, 1974.

HISTORY:

Gold properties in the Socorro Reef area have been prospected and worked since the latter part of the last century.

Most active mines in the area were vein type deposits in the granite, quartzite and limestone. During the 1920's or perhaps earlier El Tigre Mining Company carried out an extensive trenching program in the Henry Bell Mine area. They reportedly cut an extensive zone which averaged somewhere around 0.2 oz/T in gold. Since World War II activity in the area has been limited to assessment work and exploration.

GEOLOGY

REGIONAL GEOLOGY:

Western Arizona lies mostly in the Basin and Range Physiographic Province. Rocks exposed in the ranges vary in age from Precambrian granite and schist to Tertiary volcanics. In northeastern Yuma County, where the Socorro Reef area is located, the predominant structural trend is N60E.

LOCAL GEOLOGY:

Rock Types - In the Socorro Reef area the basement rock is a coarse grained Precambrian granite which is schistose in part. Overlying the granite is a well cemented, light reddish brown quartzite with a basal conglomerate which contains fragments of the underlying granite. This unit is usually crushed and brecciated at its upper contact. The thickness is variable, probably due to faulting but is on the order of 200 feet. Overlying the quartzite is limestone which is light red on a fresh surface but weathers to a yellowish-brown. Most of this unit, especially the basal part, contains quartz grains. Locally the upper part of the limestone unit has been recrystallized to a white marble. The limestone varies in thickness probably due to folding and faulting.

In the Henry Bell-Tres Padres area it appears to be several hundred feet thick but it is repeated by folding. Near the top of Socorro Ridge it thins to approximately 30 feet but part of the section may be faulted out. Overlying the limestone is a series of argillite, limy siltstone, dark gray shale, limestone

and quartzite. Locally a metamorphosed tuff or marine volcanic is exposed at the base of this unit. This unit has not been measured, but is several hundred feet thick. Minor copper stains are present in this unit but no significant mineralization is present.

Structure - The general dip of sediments in the Socorro Peak area is to the southeast from 30° to 80° but on close examination many variations are found. In the Henry Bell and Tres Padres area a series of anticlines and synclines thicken the section appreciably. Due to the tightness of the folding and the massiveness of the limestone the folding cannot be seen well everywhere, but it is readily visible on the ridge between the Henry Bell and Tres Padres areas.

Ore apparent syncline at the north end of the Tres Padres area is actually a steeply plunging overturned anticline as is evidenced by the abrupt reversal of dips and inverted stratigraphic sequence. Most of the faults in the Socorro Reef area are transverse faults which strike nearly perpendicular to the strike of the bedding. Quartz veins occur along part of these faults and these have usually been exposed by small workings or prospect pits.

A possible thrust fault occurs along the contact between the quartzite and the limestone. A crushed zone occurs at the top of the quartzite through most of the area. The underlying quartzite is highly fractured and in some areas, especially in

the Tres Padres area, there is a significant difference in dip between the quartzite and the overlying limestone.

Mineralization - Much of the mineralization occurs as free gold in small quartz veins in "crackle zones" in the limestone along the crests of anticlines and the troughs of synclines. Galena, copper oxide and iron oxide are usually associated with gold mineralization. Mineralization in the Henry Bell and Tres Padres areas is of this type and was our main target in the Socorro Reef area.

Mineralization is also found in veins in the previously mentioned crushed zone in the quartzite at the upper contact. There has been a great deal of prospecting along this zone, but nothing of any size has been encountered in this zone. A third type of occurrence is mineralization associated with strong quartz veins along faults in the quartzite and granite. The Soccoro Mine which was the main producer in the Socorro Peak area mined ore from a four or five foot zone of this type. However, this too appears to be too small to be of interest to the company.

SUMMARY OF FIELD WORK

GEOLOGIC MAPPING:

The entire area from the south-west end of the ridge to the top of Socorro Peak has been mapped at a scale of one inch equals 200 feet. Mapping was done on topographic maps and photo enlargements prepared by Kenney Aerial Mapping, Inc.

In addition seven areas were sampled and mapped in detail at a scale of one inch equals 20 feet. These areas are the Henry Bell Mine, Henry Bell Upper Road and Hi-Grade Trench, Henry Bell Lower Road; Henry Bell Quartzite Road Cut; Palo Verde Cut; Tres Padres Road, and Tres Padres High Grade area. A chain and Brunton were used for control on the 20 scale maps.

ROAD WORK:

Approximately 4200 feet of road was built to give access to the Henry Bell Mine and the Tres Padres High Grade area. Much of the road was built over bedrock and areas that couldn't be ripped by a D-8 bulldozer were drilled and shot. The drilling was done with an air trac coupled to an 800 cfm Worthington Compressor.

DRILLING:

Most of the drilling was done with an air trac but a jackhammer was used when necessary. The air trac was used mainly for drilling blast holes for road building, but four 100 foot validation holes were also drilled with the air trac.

Three cuts, two in the Tres Padres area and one in the Henry Bell area, were inaccessible to the air trac so blast holes were drilled with a jackhammer. While this method was somewhat slower,

breakage seemed better and more controlled than with the air trac.

SAMPLING:

Approximately 698 rock chip samples were taken in the Socorro Reef area. These samples and assay results are listed in the appendix. Three basic types of samples were taken as are listed below:

1. Five to ten pound samples were taken from old workings and prospect pits to check for areas which may have been too low grade for the early day prospectors, but which may have had sufficient grade and tonnage to be of interest to the company. Most of these samples ran from nil to .02 oz/T in gold. A few samples ran more usually 0.10 or less but when rechecked were either too restricted or the grade could not be duplicated.

2. Three to five pound surface samples were taken along sample lines and on a grade in the main limestone unit in an effort to locate additional favorable area to be sampled in detail. No such areas were found.

3. Road cuts, drill holes, trenches, and underground workings in the Henry Bell Mine were carefully sampled over ten foot intervals to determine the grade of unweathered limestone in favorable areas. Most of these samples were 20 pound samples but 42 forty pound samples; 27 one hundred pound samples and one 500 pound sample were taken in an effort to get a more representative sample. No significant difference in values were noted between the 20 pound samples and larger samples.

ASSAY RESULTS:

Assay results varied from nil for both gold and silver to 1.68 ounces per ton for gold and 8.0 ounces per ton for silver. Most of the high grade values came from one set of assays from Charles A. Parker and Co. According to the assay sheet we had cut a zone 290 feet wide which averaged .218 gold and 1.32 silver. Check samples sent to labs in Tucson, Salt Lake City, Vancouver, and Toronto varied from nil to .015 gold. Repeat determinations by Parker indicated that most samples were .02 gold with two samples running .16 gold. When William J. Bealer, owner of the Charles A. Parker and Co. could not satisfactorily explain the discrepancies, we immediately changed to Union Assay office in Salt Lake City and Iron King Assay Office in Humboldt, Arizona. With these results in mind I felt that all Parker assays were suspect and resampled areas of interest where possible. The only area which had ore grade mineralization was 30 foot interval above the Henry Bell Portal which averaged .123 ounces per ton in gold and 0.63 ounces per ton in silver. This zone was not encountered 100 feet downslope in a major road cut; in grid samples upslope and to either side; nor was it present in the Henry Bell workings less than 30 feet directly below.

This indicates that the zone is too small to be of interest to B & B Mining Corporation.

APPENDIX

CHARLES O. PARKER & CO., ASSAYERS
2114 Curtis Street
Denver, Colorado 80205

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
4986	0.10	0.25			
4987	0.04	0.31			
4988	0.01	0.10			
4989	0.01	0.12			
4990	0.10	0.41	– Rio Verde AREA RDcut		
4991	0.01	0.33			
4992	0.02	0.30			
4993	0.01	0.16	0.005		
4994	0.01	0.16	0.04		
4995	0.02	0.18	0.007		
4996	0.02	0.12	0.006		
4997	0.01	0.15	0.006		
4998	0.01	0.08	0.003		
4999	0.02	0.12	0.004		
5000	0.01	0.14	0.03		
1775	0.01	0.06	0.006		
1776	0.01	0.10	0.04		
1777	0.01	0.06	0.02		
1778	0.01	0.04	0.02		
1779	0.01	0.04	0.02		
1780	0.01	0.22	0.70		
1781	0.01	0.20	0.43		
1782	0.01	0.24	0.03		
1783	0.01	0.06	0.01		
1784	0.10	1.10	0.01		
1785	0.20	2.40	0.01		
1786	0.46	8.00	0.04		
1787	0.10	2.42	0.01		
1788	0.40	1.64	0.005		
1789	0.08	2.16	0.01		
1790	0.06	1.24	0.02		
1791	0.16	2.80	0.02		
1792	0.08	0.86	0.02		
1793	0.38	1.10	0.03		
1794	0.16	3.74	0.04		
1795	0.16	1.46	0.005		
1796	0.04	0.44	0.003		
1797	1.68	1.34	0.005		
1798	0.10	3.32	0.03		
6601	0.02	0.72	0.03		
6602	0.12	0.72	0.04		
6603	0.08	0.88	0.003		
6604	0.46	1.48	0.01		

Continued -

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
1799	0.03	0.20	0.035		
6605	0.06	1.60	0.005		
6606	0.06	1.50	0.245		
6607	0.06	0.90	0.020		
6608	0.16	3.64	0.003		
6609	0.04	0.56	0.023		
6610	0.05	0.76	0.010		
6611	0.04	0.52	0.075		
6612	0.04	0.54	0.010		
6613	0.04	0.36	0.015		
6614	0.02	0.08	0.005		
6615	0.06	0.30	0.010		
6616	0.03	0.30	0.040		
6617	0.03	0.32	0.075		
6618	0.10	3.20	0.110		
6619	0.20	0.36	0.115		
6620	0.02	0.08	0.375		
6621	0.12	0.90	0.145		
6622	0.09	0.36	0.170		
6623	0.02	0.24	0.040		
6624	0.04	0.34	0.015		
6625	0.16	0.84	0.068		
6626	0.06	0.20	0.035		
6627	0.20	0.96	0.020		
6628	0.10	0.54	0.085		
6629	0.10	0.20	0.065		
6630	0.08	0.08	0.040		
6631	0.38	0.62	0.040		
6632	0.06	0.60	0.045		
6633	0.02	0.04	0.015		
6634	0.03	0.06	0.075		
6635	0.02	0.06	0.135		
6636	0.02	0.04	0.080		
6637	0.08	0.12	0.450		
6638	0.12	0.30	0.030		
6639	0.06	1.92	0.055		
6640	0.02	3.70	0.035		
6641	0.06	0.04	0.055		
6642	0.04	0.04	0.025		
6643	0.02	0.04	0.030		
6644	0.03	0.42	0.008		
6645	0.04	0.04	0.105		
6646	0.10	1.30	0.045		
6647	0.02	0.04	tr		
6648	0.02	0.24	tr		
6649	0.02	0.18	tr		
6650	0.03	0.32	0.015		
6651	0.03	0.96	0.05		
6652	0.02	0.22	0.02		

Continued -

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
6653	0.03	0.78	0.02		
6654	0.02	0.28	0.015		
6655	0.02	0.03	0.005		
6656	0.02	0.28	tr		
6657	0.02	0.42	tr		
6658	0.02	0.03	tr		
6659	0.02	0.18	0.04		
6660	0.02	0.32	0.01		
6661	0.02	0.32	0.015		
6662	0.01	0.04	tr		
6663	0.01	0.03	tr		
6664	0.02	0.42	tr		
6665	0.01	0.02	tr		
6666	0.02	0.03	tr		
6667	0.01	0.09	tr		
6668	0.02	0.76	tr		
6669	0.01	0.04	tr		
6670	0.02	0.15	tr		
6671	0.02	0.42	tr		
6672	0.02	0.08	tr		
6673	0.03	0.50	0.01		
6674	0.02	0.48	tr		
6675	0.03	0.50	0.005		
6676	0.02	0.18	tr		
6677	0.02	0.38	tr		
6678	0.04	0.28	tr		
6679	0.02	0.04	tr		
6680	0.02	0.18	tr		
6681	0.02	0.03	tr		
6682	0.02	0.03	tr		
6701	0.02	0.52	0.03		
6702	0.02	0.38	0.01		
6703	0.03	0.24	0.01		
6704	0.03	0.40	0.02		
6705	0.02	0.40	tr		
6706	0.02	0.36	tr		
6707	0.10	0.10	tr		
6708	0.03	0.36	tr		
6709	0.04	0.32	tr		
6710	0.03	0.12	tr		
6711	0.04	0.82	tr		
6712	0.08	2.14	tr		
6713	0.06	0.70	tr		
6714	0.01	0.08	tr		
6715	0.02	0.30	tr		
6716	0.01	0.24	tr		
6717	0.06	0.42	tr		
6718	0.08	0.28	tr		

Continued -

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
6719	0.04	0.26	tr		
6720	0.04	0.22	tr		
6721	0.02	0.48	tr		
6722	0.02	0.02	0.02		
6723	0.02	0.34	0.01		
6724	0.04	0.26	tr		
6725	0.02	0.44	0.02		
6726	0.04	0.38	0.015		
6727	0.10	0.80	0.005		
6728	0.06	0.22	tr		
6729	0.02	0.20	0.025		
6730	0.04	0.60	0.03		
6731	0.06	0.44	tr		
6732	0.06	0.50	0.04		
6733	0.06	0.74	tr		
6734	0.04	0.42	tr		
6735	0.06	0.42	0.01		
6736	0.04	0.34	tr		
6737	0.02	0.28	tr		
6738	0.04	0.12	tr		
6739	0.02	0.32	tr		
6740	0.02	0.12	tr		
1800	0.01	0.28	tr		
1801	0.06	0.30	tr		
1802	0.02	0.58	tr		
1803	0.02	0.36	tr		
1804	0.04	1.46	tr		
1805	0.04	0.30	tr		
1831	0.02	0.02	tr		
1832	0.01	0.24	tr		
1833	0.02	0.24	tr		
1834	0.02	0.34	tr		
1835	0.06	0.24	0.005		
1808	0.08	4.00			
1809	0.02	0.48			
1810	0.02	0.38			
1811	0.02	0.42			
1812	0.02	0.14			
1813	0.02	0.34			
1814	0.04	0.42			
1815	0.02	0.26			
1816	0.02	0.28			
1817	0.02	0.28			
1836	0.03	0.28			
1837	0.04	0.24			
1838	0.02	0.30			

Continued -

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
1839	0.02	0.26			
1840	0.02	0.26			
1841	0.02	0.16			
1842	0.02	0.04			
1843	0.02	0.03			
6683	0.02	0.03			
6684	0.02	0.10			
6685	0.02	0.03			
6686	0.02	0.12			
6687	0.06	4.18			
6688	0.02	0.03			
6689	0.14	4.14			
6690	0.04	0.86			
6691	0.04	0.76			
6692	0.03	0.28			
6693	0.04	0.50			
6694	0.03	0.20			
6695	0.05	0.36			
6696	0.05	0.46			
6697	0.02	0.20			
6698	0.04	0.46			
6699	0.04	0.36			
6700	0.02	0.38			
6741	0.04	1.24			
6742	0.02	0.03			
6743	0.04	0.36			
6744	0.02	0.22			
6745	0.04	0.46			
6746	0.02	0.08			
6747	0.04	0.36			
6748	0.03	0.24			
6749	0.06	0.34			
6750	0.06	0.34			
6751	0.04	0.36			
6752	0.02	0.38			
6753	0.04	0.30			
6754	0.04	0.34			
6755	0.02	0.08			
6756	0.04	0.02			
6757	0.12	0.38			
6758	0.06	0.02			
6759	0.02	0.08			
6760	0.04	0.36			
8233	0.02	25.84		29.2	12.5
8234	0.02	2.40		12.5	15.5
8235	0.06	4.66	0.36		
8236	0.08	2.10	4.40		

Continued -

	Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
*	6616	0.02	0.62			
*	6617	0.02	0.34			
*	6618	0.02	0.22			
*	6619	0.02	0.58			
*	6620	0.16	0.14			
*	6621	0.02	0.30			
*	6622	0.02	0.04			
*	6623	0.02	0.08			
*	6624	0.16	0.16			
*	6625	0.02	0.20			
*	6626	0.02	0.14			
*	6627	0.02	0.02			
*	6628	0.02	0.02			
*	6629	0.02	0.02			
*	6630	0.04	0.06			
*	6631	0.02	0.02			
*	6632	0.02	0.02			
*	6633	0.02	0.02			
*	1784	0.02	0.40			
*	1785	0.02	0.42			
*	1786	0.02	0.44			
*	1787	0.02	0.04			
*	1788	0.02	0.02			
*	1793	0.02	0.02			
*	1794	0.02	0.12			
*	1795	0.02	0.40			
*	1796	0.02	0.40			
*	1797	0.02	0.30			
*	1798	0.02	0.26			
	6761	0.02	0.28			
	6762	0.01	0.02			
	6763	0.04	0.12			
	6764	0.02	0.06			
	6765	0.03	0.26			
	6766	0.02	0.02			
	6767	0.02	0.02			
	6768	0.02	0.62	Bell Heavy		
	6769	0.02	0.30			
	6770	0.04	4.32			
	6771	0.02	0.42			
	6772	0.02	0.22			
	6773	0.02	0.26			
	6774	0.02	0.26			
	6775	0.02	0.22			
	6776	0.02	0.02			
	6777	0.02	0.02			
	6778	0.02	0.02			

* Repeat Determinations

Continued -

Description	Au oz./T	Ag oz./T	Cu oz./T	Pb oz./T	Zn oz./T
6779	0.02	0.06			
6780	0.01	0.02			
6781	0.01	0.02			
6782	0.01	0.02			
6783	0.02	0.12			
6784	0.02	0.02			
6785	0.02	0.02			
6786	0.02	0.02			
6787	0.02	0.20			
6788	0.01	0.02			
6789	0.02	0.02			
6790	0.02	0.02			
6791	0.02	0.02			
6792	0.02	0.04			
6793	0.02	0.02			
6794	0.02	0.02			
6795	0.02	0.02			
6796	0.02	0.14			
6797	0.02	0.04			
6798	0.02	0.02			
6799	0.02	0.68			
6800	0.02	0.24			
7401	0.02	0.02			
7402	0.02	0.02			
7403	0.02	0.48			
7404	0.01	0.22			
7405	0.01	0.20			
7406	0.02	0.26			
7407	0.02	0.04			
7408	0.02	0.10			
7409	0.02	0.02			
7410	0.02	0.02			
7411	0.02	0.02			
18528	0.02	0.06			
18529	0.02	0.16			
18530	0.01	0.10			
18531	0.02	0.02			
18532	0.02	0.38			
18533	0.01	0.04			
18534	0.02	0.28			
18535	0.02	0.24			
18536	0.02	0.50			
18537	0.02	0.06			
18538	0.02	0.38			

IRON KING ASSAY OFFICE
Box 14
Humboldt, Arizona 86329

Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
7450	.010	0.41		0.01
7451	tr	0.50		0.02
7452	.01	0.45		0.01
7453	tr	0.44		0.01
7454	.015	0.39		0.01
7455	.055	0.75		0.03
7456	tr	0.42		0.02
7457	.330	1.29		0.06
7458	tr	0.30		0.02
7459	tr	0.30		0.01
7460	tr	0.30		0.01
7461	.045	0.22		0.02
7462	.005	0.48		
7463	.005	0.40		
7464	tr	0.24		
7465	tr	0.30		
7466	tr	0.36		
7467	tr	0.38		
7468	tr	0.40		
7469	.005	0.44		
7470	tr	0.30		
7471	tr	0.32		
7472	.010	0.59		
7473	.070	0.50		
7474	tr	0.60		
7475	tr	0.38		
7476	tr	0.56		
7477	tr	0.30		
7478	tr	0.48		
7479	tr	0.40		
7480	tr	0.40		
7481	tr	0.38		
7482	.010	0.36		
7483	tr	0.50		
7484	.010	0.36		
7485	tr	0.30		
7486	tr	0.40		
7487	tr	0.12		
7488	tr	0.44		
7489	tr	0.40		
7490	tr	0.40		
7491	tr	0.26		
7492	tr	0.54		
7493	.005	0.34		
7494	.005	0.36		

Continued -

	Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
	7495	.060	1.52		
	7496	tr	0.24		
	7497	tr	0.22		
	7498	tr	0.28		
	7500	tr	0.32		
	R 1975	tr	0.46		
	R 1976	.155	0.97		
	R 1977	.010	0.46		
*	7454	.025	0.46		
*	7454	.582	1.57		
	7613	tr	0.24		
	7614	tr	0.10		
	7615	tr	0.22		
	7616	tr	0.26		
	7617	tr	0.30		
	7618	nil	0.20		
	7619	nil	0.40		
	7620	tr	0.18		
	7621	tr	0.34		
	7622	nil	0.28		
	7623	nil	0.22		
	7624	nil	0.40		
	7625	tr	0.42		
	7626	tr	0.40		
	7627	tr	0.64		
	7628	tr	0.36		
	7629	nil	0.24		
	7630	.020	0.26		
	7631	tr	0.22		
	7632	nil	0.32		
	7633	tr	0.26		
	7634	tr	0.38		
	7635	tr	0.28		
	7636	tr	0.40		
	7637	nil	0.44		
	7638	.010	0.30		
	7639	tr	0.38		
	7640	nil	0.36		
	7641	tr	0.34		
	7642	.010	0.12		
	7643	.030	0.73		
	7644	.605	1.08		
	7645	tr	0.36		
	7646	tr	0.56		
	7647	nil	0.26		
	7648	tr	0.24		
	7649	.015	0.40		
	7650	.005	0.32		

* Re-run for metallics

Continued -

Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
7651	.040	0.36		
7652	tr	0.56		
7653	tr	0.44		
7654	tr	0.44		
7655	tr	0.58		
1523	tr	0.40		
1524	tr	0.44		
1978	.010	0.10		0.04
1979	.010	0.48		nil
1980	.005	0.60		0.03
1981	tr	0.40		0.03
1982	.105	1.06		0.04
1983	tr	0.32		0.05
1984	tr	0.60		0.04
1985	0.20	0.30		0.03
7700	tr	0.38		
7499	0.040	0.76		
7601	tr	0.30		0.04
7602	tr	0.42		0.04
7603	tr	0.34		0.03
7604	.005	0.34		0.02
7605	tr	0.46		0.03
7606	tr	0.32		0.03
7607	tr	0.36		0.02
7608	tr	0.24		0.02
7609	tr	0.56		0.02
7610	tr	0.32		0.03
7611	tr	0.10		
7612	tr	0.24		
7656	tr	0.60		
7657	tr	0.56		
7658	tr	0.40		
7659	.005	0.46		
7660	tr	0.50		
7661	.005	0.38		
7662	tr	0.40		
7663	tr	0.30		
7664	.010	0.40		
7665	tr	0.34		
7666	.005	0.38		
7667	tr	0.44		
7668	tr	0.44		
7669	tr	0.46		
7670	tr	0.40		
7671	tr	0.41		
7672	tr	0.50		
7673	tr	0.46		

Continued -

Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
7674	tr	0.44		
7675	tr	0.36		
7676	.010	0.55		
7677	tr	0.44		
7678	.010	0.49		
7679	.005	0.41		
7680 A	.010	0.49		
7680 B	.010	0.35		
7681 A	.030	0.57		
7681 B	.010	0.43		
7682 A	.008	0.39		
7682 B	.010	0.39		
7683 A	.038	0.76		
7683 B	.058	1.02		
7684 A	.005	0.50		
7684 B	.005	0.60		
7685 A	.005	0.42		
7685 B	.010	0.47		
7686 A	.008	0.40		
7686 B	.005	0.42		
7687 A	tr	0.38		
7687 B	.005	0.24		
7688 A	tr	0.42		
7688 B	tr	0.36		
7689 A	.008	0.40		
7689 B	.005	0.36		
7690 A	.005	0.28		
7690 B	tr	0.34		
7691 A	tr	0.36		
7691 B	.005	0.46		
7692 A	tr	0.54		
7692 B	.005	0.32		
7693 A	tr	0.42		
7693 B	tr	0.34		
7694 A	tr	0.42		
7694 B	.008	0.50		
7695 A	tr	0.42		
7695 B	tr	0.50		
7696 A	tr	0.42		
7696 B	.005	0.52		
7697 -	.005	0.42		
3508 A	.005	0.44		
3508 B	.005	0.72		
3509 A	.005	0.40		
3509 B	.005	0.54		
3510 A	tr	0.38		
3510 B	tr	0.38		
3511 A	tr	0.50		

Continued -

Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
3511 B	tr	0.44		
3512 A	tr	0.54		
3512 B	.005	0.46		
3513 A	tr	0.40		
3513 B	tr	0.42		
3514 A	tr	0.58		
3514 B	tr	0.44		
3515 A	tr	0.40		
3515 B	tr	0.36		
3516 A	tr	0.42		
3516 B	tr	0.54		
7698 A	tr	0.44		
7698 B	tr	0.46		
7699 A	.005	0.54		
7699 B	.005	0.52		
1986	tr	0.38		
1987	tr	0.36		
1988	tr	0.59		
1989	.005	0.44		
1990	.005	0.48		
1991	.005	0.52		
1992	.030	0.70		
1993	.005	0.34		
1994	.015	0.44		
1995	.005	0.30		
1996	.005	0.30		
3517	tr	0.24		
3518	.010	0.49		
3519	.140	0.64		
3520	.030	0.37		
5402	.005	0.18		
5403	.005	0.26		
5412	.010	0.35		
5413	.005	0.30		
5414	.555	3.45		
5415	.130	0.73		
5416	.085	3.12		
5417	.020	0.48		
5418	.035	0.23		
5419	.320	1.66		
5420	.010	0.33		
5421	.015	0.31		
5422	.025	0.42		
5423	.020	0.46		
5424	.050	1.39		

Continued -

Description	Au oz./T	Ag oz./T	Pb oz./T	Cu oz./T
5404	.01	0.41		
5405	tr	0.26		
5406	tr	0.26		
5407	.005	0.32		
5408	tr	0.26		
5409	tr	tr		
5410	tr	0.16		
5411	tr	0.16		

UNION ASSAY OFFICE, INC.
P.O. Box 1528
Salt Lake City, Utah 84110

DESCRIPTION	Au oz./T	Ag oz./T	DESCRIPTION	Au oz./T	Ag oz./T
1784	0.005	none	7426	none	none
1785	0.005	none	7427	none	none
1786	tr	0.3	7428	none	none
1787	tr	none	7429	none	none
1788	tr	none	7430	none	none
1793	tr	0.3	7431	none	none
1794	tr	none	7432	none	none
1795	tr	none	7433	none	0.2
1796	tr	none	7434	none	none
1797	tr	none	7435	none	none
1798	tr	none	7436	none	0.1
6616	tr	none	7437	none	none
6617	tr	0.4	7438	none	none
6618	tr	none	7439	none	0.2
6619	tr	none	7440	none	0.1
6620	tr	none	7441	none	none
6621	tr	0.2	7442	none	0.2
6622	tr	0.2	7443	none	none
6623	tr	none	7444	none	0.1
6624	tr	none	7445	tr	1.1
6625	tr	0.1	7446	tr	none
6626	tr	none	7447	tr	none
6627	tr	0.1	7448	none	0.2
6628	tr	0.1	7449	none	none
6629	tr	none			
6630	tr	0.2	A-3517	0.010	0.1
6631	tr	0.1	A-3518	0.020	0.1
6632	none	none	A-3519	0.020	0.6
6633	0.005	none	A-3520	0.080	0.3
			A-5402	0.010	none
7412	0.070	0.1	A-5403	none	3.8
7413	0.020	none	A-5412	0.020	4.2
7414	0.020	none	A-5413	tr	8.0
7415	tr	none	A-5414	0.170	0.8
7416	tr	0.1	A-5415	0.070	0.2
7417	none	none	A-5416	0.130	0.9
7418	none	none	A-5417	0.010	0.1
7419	none	none	A-5418	tr	0.8
7420	tr	none	A-5419	0.015	0.2
7421	tr	0.1	A-5420	0.005	none
7422	none	0.2	A-5421	tr	none
7423	tr	0.1	A-5422	0.020	none
7424	0.015	none	A-5423	0.020	none
7425	0.015	0.2	A-5424	0.060	2.0

Continued -

Description	Au oz./T	Ag oz./T
3521-A	0.060	0.9
5404	0.010	none
5405	tr	none
5406	0.005	0.2
5407	tr	none
5408	tr	none
5409	none	0.2
5410	none	none
5411	tr	none
5425	0.140	0.9
5426	0.050	0.4