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James Doyle Sell Mining Collection

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JDS

ASARCO

Southwestern Exploration Division

February 15, 1991

J.D. Sell

Bennet Mine Area
White Pichacho District
Maricopa County, Arizona

The Bennet Mine (Buffalo Arizona) property is located in the White Pichacho District, Maricopa County, Arizona. The property was discovered (again) during a file search in the various districts in Arizona. The inference of the file reports was that ore grade from .05 to >.5 opt gold was present in a quartz stockwork zone up to 300' wide. The data and reports suggested an open pittable potential. Two days were spent in reconnaissance sampling of the property. The attached map show the sample locations and general geology. Of particular interest was a large color anomaly in the Tertiary volcanics. Several workings sampled within this anomaly showed Cu oxide mineralization with one sample running 2.33% Cu (Ben #5). No significant gold was found in the sampling of the most obvious and better looking alteration/mineralization. The "mineralization" appears to be hosted in Tertiary volcanics in contact with a quartz/muscovite schist. The schist is unmineralized. Mineralization is associated with a northwest trending siliceous zone from 2-10' thick. This zone is strongly siliceous and hematized. The linear zone trends into the red color anomaly. There appears to be a zoning of copper within the color anomaly and little to no copper outside the zone. On the basis of the reconnaissance sampling, no further work is recommended.

MAM:mek

Mark A. Miller

cc: W.L. Kurtz

ASARCO EXPLORATION RECORD

[X] FIELD EXAMINATION [X] LITERATURE SEARCH [X] ASARCO FILE [ ] _____

Section I General Indexing

① Name(s) of Property or Area	② Country	③ State or Province
BENNET MINE/BUFFALO ARIZONA	USA	Arizona
	④ USGS Quad.	⑤ File or Gore No.

⑥ Latitude	⑦ Longitude	⑧ AMS Sheet	Township	Range	Section	⑨ Examined by	⑩ Date
33°55'	112°30'	Phoenix	7N	2W	30	M.A. Miller	8/4/90
						⑪ Office: Tucson SWED	⑫ Field Days: 1

Section II Sources of Information

Date Typed 8/10/90

⑬ References

Author	Date	Title	Publications	Vol. No.
Asarco Files				
Arizona Dept. of Mineral Resources Files, Bennet Mine				

Section III Appraisal

⑭ Recommendations
- [X] Action Now
- [ ] Too Low Grade
- [X] Too Small
- [ ] Ownership Problem
- [ ] Access Problem
- [ ]

⑮
- [X] Post Producer
- [ ] Producer
- [ ] Mineral Deposit
- [ ] Prospect
- [ ]
- [ ] Geologic Concept
- [ ] Geochem Anomaly
- [ ] Geophy Anomaly
- [ ]

⑯ Production

Commodity	Tons	Grade
Au, Cu	?	

⑰ Reserves [ ] Measured [ ] Estimated N/A

Commodity	Tons	Grade

⑱ Num. Drill Holes _____ Approx Total Footage _____

⑲ Excavations: Several small pits, 3 adits - 1 shaft

⑳ [ ] Spectro. Analysis Attached

㉑ [X] Assays Attached

㉒ [ ] Geochem Results Attached

Section IV Geologic Data

㉓ Commodity or Contained Metals	Au, Cu					
㉔ Ore Minerals-Major	Au?	Malachite (Cu Ox)		Minor		
㉕ Host Rocks-Major	Andesite	Volcanics - Mica Schist		Minor		
㉖ Age of Host Rocks	Tertiary?					
㉗ Nature of Exposures	Outcrop in wash areas - Outcrop.					

㉘ Alteration: Large (2000'x 1000') area of red hematitic color anomaly

㉙ Total Extent: 2000' x 1000'

㉚ Structure: Linear structure EW to N40°W 1000-1500' long - traced by pits, cuts & hematitic, altered volcanics

㉛ Ore Occurrence: Presumably associated with the altered/hematized volcanics.

㉜ Age of Mineralization

㉝ Conclusions & Recommendations: Large color anomaly with abundant Cu Ox may suggest a porphyry Cu type system (descriptive, not genetic). Linear structure appears to strike into color anomaly. Reconn. sampling should show mineral potential; if favorable, detailed sampling, mapping and trenching in order. Property currently under control of C.L. May, Glendale, AZ. Old assay reports at ($20/oz gold) indicate values from .1 to 4 opt Au. Many assays are in quarter to half oz/ton range. (Continued on page 2)

(For additional space use extra sheets)

33. Conclusions & Recommendations (Continued)

Description of the property in the files indicated a stockwork type mineralized environment; however, first inspection of the property does not have this appearance. Two possible targets exist:

1. The area of hematite and copper occurrences
2. Linear structure trending into color anomaly with numerous pits and one shaft and adits.

9/7/90 - Assays received - No further work recommended.

8/4/90

BENNET MINE AREA

Maricopa County, Arizona

Au (opt), Ag (opt), Cu (%)

Ben-1 Small adit 40' long N-S strike 45°E, silic zone in volcanics 5' vertical sample (.01, .08, .02)

Ben-2 Hematite zone in volcanics, weak to locally moderate, approx 1/4% CuOx seen in float in small drainage, possible gossan (<.002, <.01, .01)

Ben-3 Small dump in FeOx stained (Hem. stained) volcanics (andesites?). Pieces of CuOx on dump (<.002, <.001) .25)

Ben-4 Small dump with CuOx - Sericitic Alteration (<.002, <0.01, 0.13)

Ben-5 Sheared, shattered structure N-S 60°W dip. Abundant CuOx in fractures, sericitic alteration in volcanics, partly silicified vertical chip across structure (.002, <.01, 2.33)

Ben-6 Dump, small adit with rattlesnake in portal, sampled oxidized and altered dump instead heavily Fe stained, some spec. hematite, part silic. (<.002, .01, .01)

Ben-7 Sample taken in light gray unaltered? andesites, adjacent to caved adit. Major structure seen is N20°W 75°SW shear?

Ben-8 Hand picked dump sample with CuOx and FeOx, high grade sample (.095, <.01, .63)

Ben-9 Strong linear FeOx zone in andesites? Appears to be sericitically altered and siliceous N-S, 25°E zone appears to cross-cut original deposition of volcanics. Attitude of volcanics E-W 80°S (<.002, <.01, <.01)

Ben-10 3-500' from Ben-9 on same structure, 10' wide on dip N40°W 40°NE. Possible fault offset. (<.002, <.01, .01)

Ben-11 Volcanic host rock adjacent to mineralized zone, 10' rock chip strike (<.002, <.01,<.01)

Ben-12 Altered (hematite, weak sericite) below big dump, 20-30' random chip, attitude of rocks is E-W 45°W (<.002, <.01, <.01)

Ben-13 Altered and silic zone in volcanics, E-W vertical dip, 20' thick abundant Hm staining (<.002, <.01, .05)

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

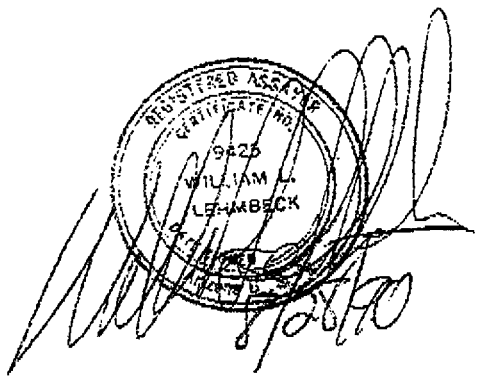
JOB NO. TAJ 665
August 28, 1990
PROJECT: BEN
BEN 1-13, Y-SEC-23
PAGE 1 OF 1

ASARCO INCORPORATED
Attn: Mr. Mark Miller
Southwestern Exploration
P.O. Box 5747
Tucson, AZ 85703

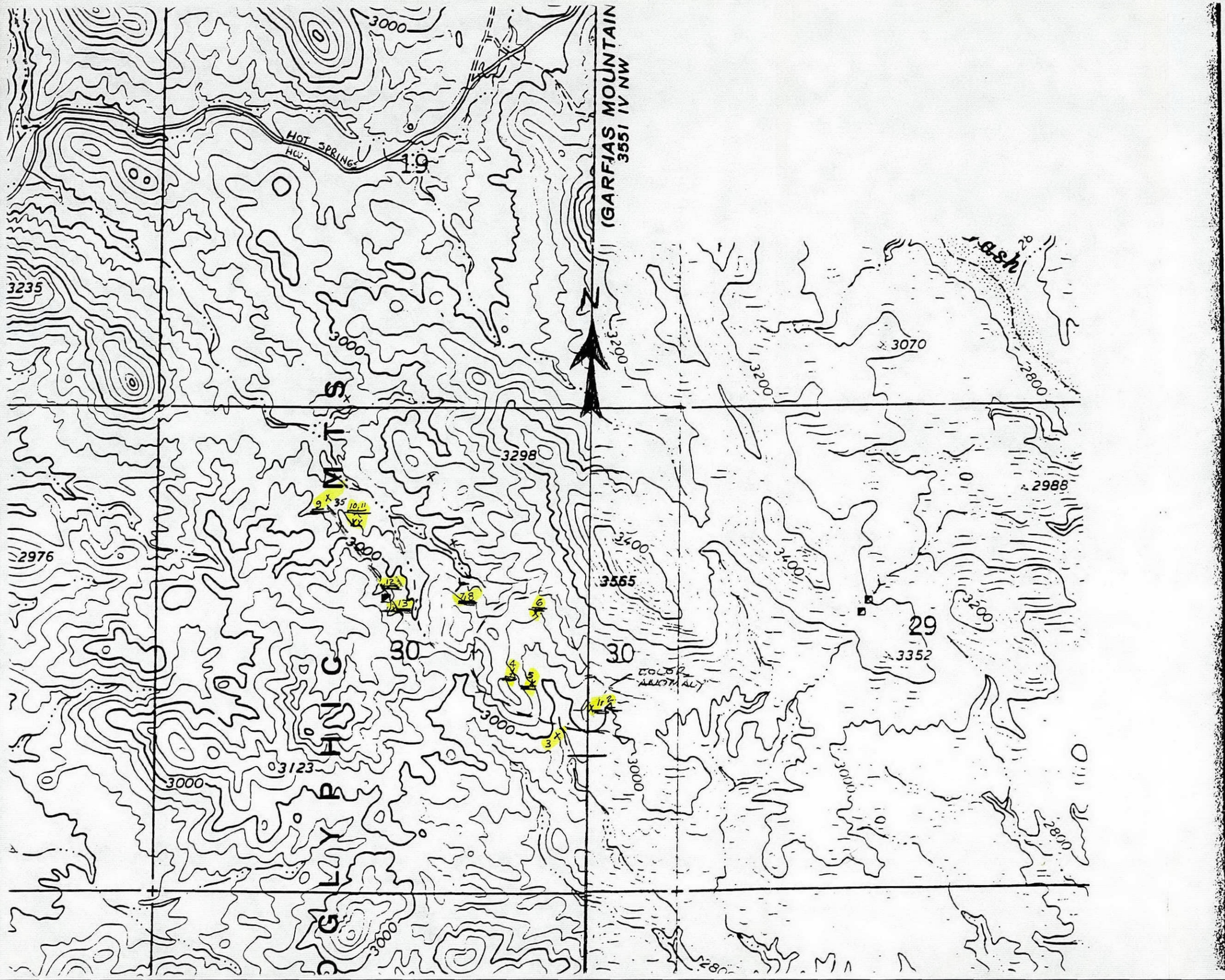
Analysis of 13 Rock Chip Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	As (%)
1	BEN 1	.010	.08	.02	.008
2	BEN 2	<.002	<.01	.01	.001
3	BEN 3	<.002	<.01	.25	.001
4	BEN 4	<.002	<.01	.13	.001
5	BEN 5	.002	<.01	2.33	.003
6	BEN 6	<.002	.01	.01	<.001
7	BEN 8	.095	<.01	.63	.002
8	BEN 9	<.002	<.01	<.01	<.001
9	BEN 10	<.002	<.01	.01	.002
10	BEN 11	<.002	<.01	<.01	<.001
11	BEN 12	<.002	<.01	<.01	.001
12	BEN 13	<.002	<.01	.05	.001
[illegible]	[illegible]	<.002		<.01	<.001

cc: Mr. J. D. Sell



Charles E. Thompson
William L. Lehmbeck
James A. Martin



SAMPLE LOCATION
(ROCK CHIP)

BENNET MINE / BUFFALO
ARIZONA
MARICOPA CO, AZ
1"=1000'
(ENLARGED FROM
RIO PICACHO & GARFIAS MTN
7.5' TOPOS)

JDS

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REPORT OF ANALYSIS

JOB NO. TAJ 665
August 28, 1990
PROJECT: BEN
BEN 1-13, Y-SEC-23
PAGE 1 OF 1

ASARCO Incorporated
AUG 3 0 1990
SW Exploration

ASARCO INCORPORATED
Attn: Mr. Mark Miller
Southwestern Exploration
P.O. Box 5747
Tucson, AZ 85703

Analysis of 13 Rock Chip Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY Au (oz/t)	Ag (oz/t)	Cu (%)	As (%)
1	BEN 1	.010	.08	.02	.008
2	BEN 2	<.002	<.01	.01	.001
3	BEN 3	<.002	<.01	.25	.001
4	BEN 4	<.002	<.01	.13	.001
5	BEN 5	.002	<.01	2.33	.003
6	BEN 6	<.002	.01	.01	<.001
7	BEN 8	.095	<.01	.63	.002
8	BEN 9	<.002	<.01	<.01	<.001
9	BEN 10	<.002	<.01	.01	.002
10	BEN 11	<.002	<.01	<.01	<.001
11	BEN 12	<.002	<.01	<.01	.001
12	BEN 13	<.002	<.01	.05	.001
13	Y-SEC-23	<.002		<.01	<.001

cc: Mr. J. D. Sell

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

JDS

12/11/90

FROM: J. D. SELL

TO: MAM

Where was the BEN, 4 Sec-23 sample collected & where is report?
TAJ 665, Aug 28, 1990
JDS