



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the
James Doyle Sell 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.

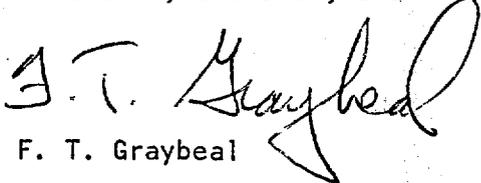
December 17, 1976

Memorandum to Staff

From: F. T. Graybeal

I am pleased to announce that Mr. Peter G. Vikre has accepted a position with our exploration staff, effective January 1, 1977. Mr. Vikre has completed his dissertation on the general geology of Asarco's Rochester silver deposit for Stanford University and the finished manuscript should be available in a few months. The deposit is something of an enigma, according to Mr. Vikre, as it possesses mineralogical characteristics of an epithermal precious metal deposit, but geological and thermal characteristics more commonly found in mesothermal deposits.

Mr. Vikre's previous experience includes several summers work on massive sulfide and porphyry exploration in Guatemala, the U.S., and Canada.


F. T. Graybeal

FTG:lb

ASARCO

NEWS

ASARCO Incorporated
120 Broadway
New York, N.Y. 10271

April 26, 1982

FOR APPROVAL

NEW YORK, N.Y. -- Richard L. Brown, 51, was elected vice president, exploration by the Board of Directors of ASARCO Incorporated, it was announced today.

Mr. Brown joined Asarco in 1957 as a mining geologist in Wallace, Idaho. The following year he transferred to Buchans, Newfoundland, Canada, as a mining and exploration geologist for the Company. He also served as exploration geologist in Toronto and Moncton, Canada. In 1969, he was named exploration supervisor, eastern Canada. He was appointed assistant director of the exploration department in December 1975 and director in 1980.

A native of Providence, Rhode Island, Mr. Brown received a Bachelor of Arts degree from Middlebury College, Middlebury, Vermont, in 1953. He holds a masters degree from Syracuse University (1955), Syracuse, N.Y. He served with the U.S. Army Corps of Engineers from 1955-1957. Mr. Brown is a member of the Society of Economic Geologists, the Institution of Mining and Metallurgy (London), the American Institute of Mining, Metallurgical and Petroleum Engineers, and The Canadian Institute of Mining and Metallurgy.

Mr. Brown resides in Chatham Township, N.J.

###

November 6, 1975

TO: DIVISION SUPERVISORS

J.J. COLLINS

I presume you have all been advised that John Collins is leaving the Company at the end of this year; however, Mr. Osborne will take over December 1st, as John will depart from New York on that date.

I am sure those of you who know John personally would like to participate in the purchase of a gift as an expression of appreciation. A range of \$5.00 to \$10.00 per person is suggested. Please understand that this is not a blanket request, but a suggestion. You should pass on this memo, or advise, only those staff members that you are certain would definitely wish to be included in the list of donors.

Since time is short, please send me, by telex or night letter cable, your list of donors and only the total amount pledged. This applies to foreign offices only. Mail within the U.S.A. should reach here in time. Funds can be collected later and sent to this office as we will finance the purchase.

J. H. Courtright
J.H. Courtright

JHC:vh

cc: T.C. Osborne - Personal & Confidential, R.L. Brown, J.V. Desvaux
L.P. Entwistle
J.F. Lord D.P. Cadwell
J.J. Merz L. Montoya

Division Supervisors:

S.A. Anzalone
J.C. Balla, E. Whiting
M.P. Barnes, C.K. Moss, L.D. James
B.J. Devere, Jr.
D.M. Fletcher
J.H.G. Fuchter
R.S. Gray
D.D. Harper
W.L. Kurtz
R.B. Sprague
S. Von Fay, R.K. Kirkpatrick

24

CIRCULATE:

er 5, 1975

T. C. BENAVIDEZ
R. B. CRIST
R. B. CUMMINGS
S. R. DAVIS
F. T. GRAYBEAL
J. R. KING

H. G. KREIS
W. L. KURTZ
G. W. PICKARD
J. D. SELL
G. J. STATHIS
H. M. STONE
N. P. WHALEY

Mr. J. J. Collins, vice President, _____, will retire December 31, 1975. Effective January 1, 1976, Mr. T. C. Osborne, presently Assistant Director of Exploration, will become Director of Exploration.

Also effective January 1, 1976, Mr. R. L. Brown, currently Manager, Asarco Exploration Company of Canada, Ltd. at Toronto, will move to New York as Assistant Director of Exploration. Mr. R. S. Gray, now Chief Geologist at Asarco Exploration Company of Canada Ltd., will become Manager.

F. J. Goldthwait
Assistant Secretary

ASARCO

Southwestern Exploration Division

October 29, 1976

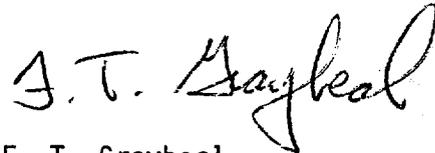
TO: J. D. Sell
G. W. Pickard
G. J. Stathis
S. R. Davis
H. G. Kreis
J. R. King

FROM: F. T. Graybeal

To acquaint Doug Smith with our various Arizona projects and porphyry copper geology in particular I would like to have you accompany him on field trips as follows:

Sacaton, Santa Cruz -- HGK, JDS
Indian Butte -- JDS (to coincide with drilling)
Hardshell, 3R, Thunder Mtn. -- SRD, GJS
Silver Bell -- GWP, SRD
Mission, SXS, SXN, Pima District - JRK
Olberg, Poston Butte, Red Hills, N. Star -- HGK, SRD, JRK
Ground Hog, Santa Rita -- FTG, WLK, JDS, GWP

He will have reviewed appropriate file data in advance of these trips. The Santa Cruz-Sacaton trip should be arranged as soon as possible; the remainder when it is convenient, although I would hope before the end of the year. Please make the appropriate arrangements with the Resident Geologists.



F. T. Graybeal

FTG:lb

cc: WLKurtz
DMSmith

October 29, 1976

TO: D. M. Smith

FROM: F. T. Graybeal

We have prepared a file of various office and field policies with which you should become familiar, including some general information on the company. In addition, I have assembled several references on Arizona geology which you may find of interest. Once you are settled in Tucson I plan to acquaint you with our various Arizona projects, and listed below are reports you should review to be followed by field examinations with various members of the staff.

- 1) Santa Cruz
 - a) J.C. Balla thesis
 - b) reports by H.G. Kreis and J.D. Sell on Santa Cruz project
 - c) Sacaton write-up in Paydirt
 - d) trip to Sacaton pit with JDS and HGK; review Santa Cruz core and logging with HGK.

- 2) Indian Butte
 - a) Table Top report by J.D. Sell; Santa Rosa-Santa Rosa South summary by B.E. French; Indian Butte report by J.D. Sell
 - b) review Indian Butte outcrops; complete involvement with Indian Butte drilling program.

- 3) Hardshell-3R-Thunder Mtn.
 - a) Hardshell report and sections by S.R. Davis
 - b) Sunnyside report and summaries of TR-10, TR-11, TM-8 by F.T. Graybeal
 - c) Patagonia Metal Zoning by FTG
 - d) Simons USGS Prof. Paper 658-E and related geologic map
 - e) Red Mtn. paper by Russ Corn in Econ. Geol.
 - f) field trip with SRD, GJS, FTG(?).

- 4) Silver Bell
 - a) Richard and Courtright paper (Por. Cu Volume), Watson thesis, Watson AIME manuscript
 - b) field trip with GWP, SRD.

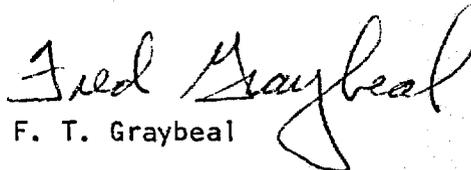
- 5) Mission-San Xavier S.-San Xavier N.-Pima District
 - a) Bob Gale PhD thesis, J.E. Kinnison paper (Por. Cu Volume), J.R. King draft on SXN
 - b) USGS Map, Bulletin, and Prof. Paper by J. Cooper
 - c) one day in pits with JRK
 - d) one day in Pima Mining District with JRK.

October 29, 1976

- 6) Olberg, Poston Butte, Red Hills, North Star
 - a) Olberg report - JRK; drill resume if complete by HGK
 - b) Poston Butte - WLK
 - c) Red Hills area - 2 reports by JRK
 - d) North Star - geology by FTG, drill resumes by SRD
 - e) field trip - brief look at outcrops with SRD, HGK, JRK
- 7) Superior East
 - a) two summation reports by JDS; field trip at some later date.
- 8) Ground Hog - possibly Santa Rita, Continental
 - a) review Ground Hog reports by L.P. Entwistle; USGS papers by Hernon and Jones on general Santa Rita area geology; Neilson paper on Santa Rita pit in 1968 Econ. Geol.
 - b) field trip Ground Hog, Santa Rita, Continental(?), other mining districts in region with FTG, WLK, JDS, GWP.

You should concentrate on the Santa Cruz and Indian Butte reviews as I hope to have the Indian Butte drilling started in late November. The other trips should be arranged when convenient although I would prefer to have them completed by the end of the year. I have alerted the various staff members so you should arrange things directly with them.

Once your porphyry copper saturation is complete you should begin reviewing Nevada-California files. Hopefully, by early 1977 we will be able to start full scale planning for precious metal exploration in this area. Trips to our Rochester (Nev.) and Waterloo (Calif.) silver deposits will be arranged when time permits. Any problems you may encounter with the files can be resolved by Mrs. Bormolini.


F. T. Graybeal

FTG:lb

cc: WLKurtz
JDSell

ASARCO Incorporated
Tucson Arizona

July 30, 1975

Mr. G. W. Pickard
Building

Dear Pick:

Welcome to the SWED. I probably will be on a combined work-vacation trip in Nevada when you arrive. My secretary will show you your office and help you obtain anything you need. I am requesting Mr. Jim Sell, whom you know, to introduce you around. We have an old Blazer 4WD in good shape that you can drive. If you prefer, we can get you a pick-up 4WD.

Please check with my secretary and W. Kellogg to conform with any necessary accounting procedures.

Mr. Osborne has indicated that you should become familiar with the Central America work — handled by Mr. Entwistle until his retirement June 30, 1975 and now under my jurisdiction. I suggest you read the last several years Monthly, Quarterly, Annual reports by Entwistle and by the Central American offices. Review the two on-going projects: Chontales, Nicaragua and Cerro Chorcha, Panama. At present Central America is pretty much a one-man show — Luis Montoya.

Here in the U.S. we plan for you to do some geologic work and synthesis at the Ground Hog Mine, New Mexico. I suggest you review the available files here in Tucson and at a later date we can make a trip to the mine.

As general interest I suggest you review file data on some of our current projects — my secretary can provide the reports.

- 1) Hardshell Silver, Santa Cruz County, Arizona (S.R.Davis)
 - Geology
 - Geol. Sections
 - Assay Sections
 - Metallurgy
- 2) Waterloo Silver, San Bernardino County, California
 - Geology - old reports plus latest R.K.Kirkpatrick report & maps
 - Metallurgical reports
 - (currently being studied by G. Percival)
- 3) Superior East Project (J.D.Sell)
 - Initial report
 - Summation reports
 - Whitetail Basin report

G. W. Pickard

- 2 -

July 30, 1975

- 4) 3R-Thunder Mountain (F.T.Graybeal)
Mineral Zoning in Patagonias
Geology of Sunnyside Area by F.T.G.
Geology of Drill Holes TR-10 by F.T.G.
TM-8 by F.T.G.

This will probably keep you busy until my return. We are happy to have you in the Southwest district.



W. L. Kurtz

WLK:1b

cc: JHCourtright
JDSe11 
LABormolini

MINING AUTHORIZATION NO. 0047-01
RED HILLS PROJECT
PINAL COUNTY, ARIZONA

TUCSON OFFICE
MAY - 1974

Account No.	Item	This Month	This Year	Total To Date
506-48	Mineral Prop., Rental Payments - Other	\$	\$ 708.22	\$ 1968.30
507-25	Staking Claims - Services			215.66
521-10	Surface Drilling - Salaries	52.00	675.00	1295.00
521-20	- Supplies			2991.45
521-25	- Services		14545.52	30437.02
521-29	- Traveling		12.45	29.69
521-35	- Add. Labor Expense	9.85	137.68	310.76
521-40	- Taxes			119.66
540-20	Sampling, Assaying, Laboratory - Supplies		8.40	26.05
540-40	- Taxes		27	.80
610-10	Field Administration - Salaries			132.00
610-20	- Supplies		151	8.11
610-35	- Add. Labor			15.19
610-40	- Taxes			.33
620-10	General Administration - Salaries			43.00
620-20	- Supplies		10.58	13.58
620-35	- Add. Labor			7.46
620-40	- Taxes		11.48	11.71
620-48	- Other	(10.00)	170.00	200.00
641-49	Distributable Accounts - Autos		777.95	926.16
Authorized Expended				\$70000.00
Balance Unexpended				39908.25
				<u>\$30091.75</u>
530-10	Geology - SALARIES		834.00	834.00
530-35	- Add. Labor		164.92	164.92
620-25	GENERAL ADMINISTRATION - SERVICES		95.00	95.00
540-25	SAMPLING, ASSAYING, Lab. - SERVICES		62.40	62.40
		<u>\$ 51.85</u>	<u>\$ 18215.38</u>	<u>\$ 39908.25</u>

Orig: JJC Collins
cc: HQS, TAS, NV, RBM, WLK, File-2

AMERICAN SMELTING AND REFINING COMPANY
Tucson Arizona

October 4, 1972

MEMORANDUM TO STAFF

Now that all our forces have returned, it is a good time to list areas of work responsibility. As noted below, I am requesting certain men, in addition to their regular duties, to supervise other's work. I should like to accompany the supervisor when field reviews are made.

<u>Geologist</u>	<u>Area</u>	<u>Supervisor</u>
King	Rincon-Empire altered Cretaceous Problem	Sell
	(Interstate 80)	
	Covered Wells mapping Papago Reconnaissance	Sell Sell
Cummings	Silver Bell	Graybeal
Davis	Complete Safford Report/Recommendations	
	Steeple Rock District	Stathis
	Wickenburg-Bradshaw Area	Stathis
French	Silver City	Sell
	Southwest New Mexico	Sell
Whaley	Silver State	
	Poston Butte	
	Land Status Maps	
	File Revision	
	Aerial Photo Indexing	Crist
Stathis	Literature Duties	
	Bisbee	
	Wickenburg-Bradshaw Area	
Graybeal	Patagonia (3R Project; Thunder Mtn. Project)	
	Silver Bell/Silver Bell East	
Sell	Miami-Superior (Superior East, Bohme, Rawhide)	
Giesecke	Regional Structure	

October 4, 1972

Crittendon Drilling Coordinator, Contracts, Etc.

Crist Office Manager
 Feasibility Studies
 Land Negotiations, Etc.

Stone Assist in geochem., claim staking, drilling, gravity, etc.

Benavidez Assist in geochem., claim staking, drilling, gravity, etc.

Obviously your main effort is to be directed at locating porphyry copper drill targets. Any other commodity that offers large tonnage potential can be considered. Since direct clues to porphyry copper deposits are hard to find, you must exercise your brain power as well as your hammer power.

The use of biotite has not been as encouraging as we had hoped. Anyone wanting to use this technique within their areas should consult with Stathis and Graybeal. They shall determine whether to sample for biotite and, if so, sample spacing to be used. They also should be consulted in the interpretation of results.

A geologic information drill may be available. You should determine areas where it can be used effectively.


W. L. Kurtz

WLK:lad

cc: JHCourtright

New York, April 13, 1973
MEL

TO ALL ASARCO AIR TRAVEL CARD HOLDERS

The airline industry has recently changed the format of their Air Travel Plan and consequently have reissued all of their Air Travel Cards.

Enclosed is your new Air Travel Card. Upon receipt of this card please destroy the card you now hold.

Please acknowledge receipt of this card on attached copy.



F. L. Merwin
Vice President-Traffic