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James Doyle Sell Mining Collection

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AMERICAN SMELTING AND REFINING COMPANY

SOUTHWESTERN EXPLORATION DIVISION

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1150 NORTH 7TH AVENUE  
TELEPHONE 402-792-3010

July 20, 1972

Mr. Edward A. Koester  
Geologist, OGCC  
State of Arizona  
4515 North 7th Avenue  
Phoenix, Arizona 85013

Dear Sir:

Your letter of July 12 has been received. The various units of the Apache Group and Paleozoic sediments are found in scattered outcrops in the Sand Tank Mountain Range (Maricopa County). The following tabulation lists the major outcrops (mapped on 1" = 1 mile topo sheets) but they may extend into an adjacent section for a minor distance. As mapped, no outcrop contains a full sequence of all units and rarely is any specific unit entirely exposed in any outcrop.

In this tabulation "Apache Group" includes the Apache Group and/or Troy Quartzite, "Lower Paleozoic" is Bolsa Quartzite and/or Martin Limestone, and "Middle Paleozoics" is Escabrosa Limestone and/or Naco Limestone.

T. 7S., R. 1W.

SW 1/4, Section 27 Lower Paleozoics  
SW 1/4, Section 35 Apache Group (?) and Lower Paleozoics

T. 8S., R. 1E.

SE 1/4, Section 6 Lower Paleozoics  
NE 1/4, Section 7 Lower Paleozoics  
SE 1/4 and  
N 1/2, Section 8 Lower Paleozoics

T. 8S., R. 1W.

NW 1/4, Section 2 Apache Group and Lower Paleozoics  
NE 1/4, Section 3 Apache Group and Lower Paleozoics  
Center, Section 20 Middle Paleozoics  
SE 1/4, Section 20 Apache Group  
S 1/2, Section 21 Apache Group  
SE 1/4, Section 23 Lower Paleozoics ) See: Bryan, K., 1925, USGS  
SW 1/4, Section 24 Lower Paleozoics ) Water Supply Paper 499, p.56  
SW 1/4, Section 25 Apache Group

Mr. Edward A. Koester

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July 20, 1972

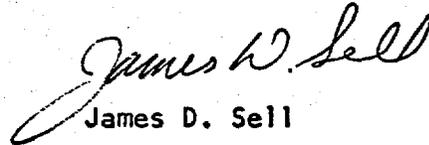
NE 1/4, Section 26	Lower Paleozoics
N 1/2, Section 28	Apache Group
NE 1/4, Section 35	Apache Group and Lower Paleozoics
NW 1/4, Section 36	Apache Group and Lower Paleozoics

The farthest west exposures were not ground checked, but were spotted during a helicopter flight. These are probably Apache Group and Lower Paleozoics and were found along the north-south boundary between the tier of Sections 14-23 and Sections 15-22 in T. 8 S., R. 3 W.

I would be interested in hearing of any further detailed work being done in the region.

I would also appreciate another copy of your report "Preliminary Tabulation of Stratigraphically Significant Water Wells in the Basin and Range Province of Arizona".

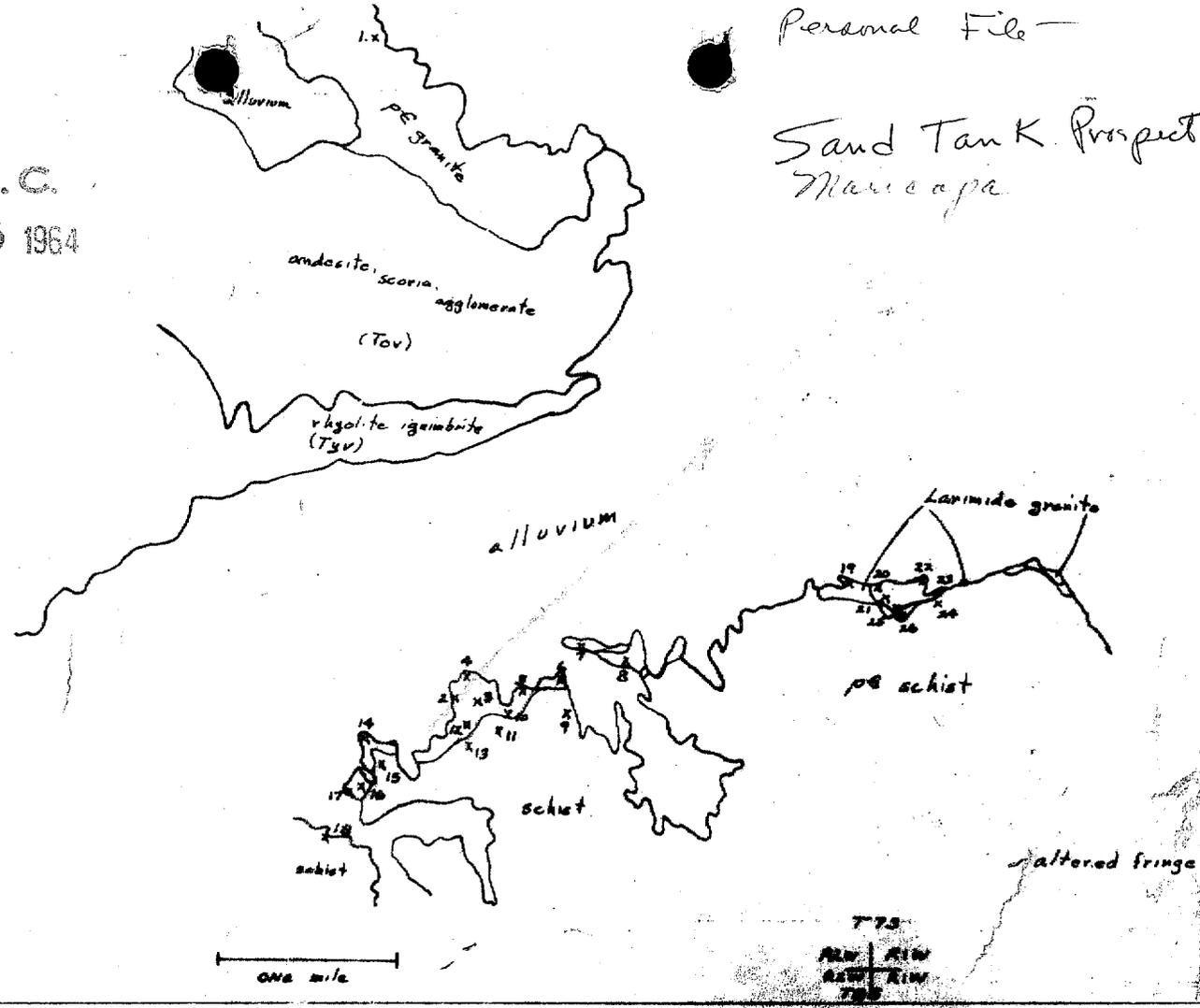
Sincerely,

  
James D. Sell

JDS:lad

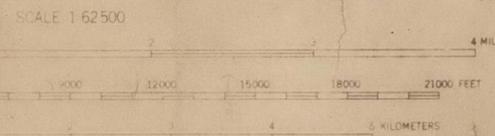
# Sand Tank Prospect Maricopa

J.H.C.  
OCT 15 1964



Geochemical Samples and results, North Juliana Mtn.  
GOC-37-1 thru 26.

Number	Rock type	Cu, ppm	Mo, ppm	Number	Rock type	Cu, ppm	Mo, ppm
1	pe gr (f)	50	0	20	L. gr (a)	75	1
2	pe schist (a)	150	2	21	" (a)	100	2
3	" (a)	100	2	22	" (a)	125	1
4	" (m)	62	2	23	" (a)	112	1
5	" (a)	62	0	24	pe schist (f)	50	1
6	" (a)	100	1	25	L. gr (a)	100	0
7	" (a)	100	2	26	pe schist (a)	112	1
8	" (a)	62	0				
9	" (f)	75	1				
10	" (a)	75	3				
11	" (f)	75	0				
12	" (a)	75	4				
13	" (f)	62	0				
14	" (a)	100	0				
15	" (f)	62	0				
16	" (a)	112	1				
17	" (a)	250	1				
18	" (f)	250	2				
19	L gr (f)	112	1				



CONTOUR INTERVAL 20 FEET  
REPRESENT HALF-INTERVAL CONTOURS  
ELEVATIONS MEAN SEA LEVEL

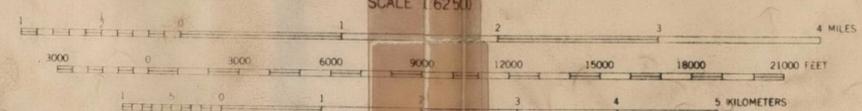
FOR NATIONAL MAP AND ROAD STANDARDS  
FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.  
STATE MAPS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

GILA BEND, ARIZ.

Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topographic from aerial photographs by multiplex methods;  
Aerial photographs taken 1947. Field check 1950  
Projection: 1927 North American datum  
10,000-foot grid based on Arizona coordinate system,  
central meridian  
In check elevations are shown in brown.



CONTOUR INTERVAL 40 FEET  
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, FEDERAL CENTER, DENVER, COLORADO OR WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

ESTRELLA, ARIZ.  
N3245-W11215/15

EDITION OF 1951

Qs  
Tvc  
Tov } Post-mineral