



CONTACT INFORMATION  
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The following file is part of the

James Doyle Sell Mining Collection

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March 25, 1983

File Note

Rosemont Deposit  
ANAMAX Company  
Pima County, AZ

On March 17, 1983, W. L. Kurtz and J. D. Sell visited the ANAMAX Twin Buttes office to review the Rosemont data.

Mr. C. F. Barter, Chief Geologist, and Mr. Wilson McCurry, Sr. Geologist (and Rosemont Project Geologist), reviewed the data with us. Rosemont (also known as East Helvetia) is mainly located in Secs. 25 and 36 of T18S, R15E. (The letter from G. R. Wyman, General Manager, ANAMAX, is attached.)

Their geologic ore of open-pit configuration, as of February 15, 1980, is:

351,600,000 tons of sulfide ore at 0.65% total copper with 0.07% (AS)Cu, 0.019% Mo, and 0.257 oz/ton Ag. Also 66 million tons of oxide ore at 0.53% total copper with 0.30% (AS)Cu.

The parameters of this pit are 3400' N-S by 3200' E-W; vertical from 5150' elevation to 3350' elevation (1800'). The top of the ore is about 100 feet below the surface on the west side and 700 feet on the east side. (ANAMAX, 2/21/80 tabulation attached.)

A study of the open-pit configuration by Pincock, Allen & Holt, Inc. (1978) shows:

Preproduction stripping of 766,000 tons of sulfide ore (at 0.33% Cu); 1,948,000 tons of ASCu (at 0.28% Cu); and 104,875,000 tons of waste.

Year one ore production is estimated at 14,669,000 tons and roughly remains at such over the life of the operations.

PA&H on their Pit IV Reserve (includes the above preproduction stripping) show:

316,900,000 tons sulfide ore at 0.58% Cu;  
28,300,000 tons oxide (AS) ore at 0.46% Cu;  
1,040,000,000 tons waste  
3.37/1 waste/ore ratio  
(Table 3.0-1 of PA&H, attached).

A rough sketch is attached showing a typical east-west cross-section through the center of the deposit. A flattish fault brings weakly altered and fresh rock (Mesozoic) over the altered and mineralized units. As shown, on the west is the Backbone Fault with barren rocks on the west, footwall,

side and on the east, the mineralized partial section of Escabrosa limestone, the tactite ore unit of Horquilla limestone (900' thick), a spotty mineralized Earp Formation (300' thick), then the tactite ore unit of Colina limestone (300'-400' thick), followed by the rest of the Paleozoic-Mesozoic sequence (weakly altered and mineralized). Both the mineralized sections and the units above the flat fault have been displaced to the east by faults subparallel to the Backbone Fault.

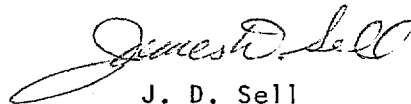
A tabulation copied from the PA&H report is attached showing the elevation of the 50-foot benches and the amount of ore-waste exposed at those levels. Note that some 800 feet of pit is necessary to expose a year's production of ore.

At the present time some 130 holes have been drilled at Rosemont with the bulk being on 400 foot centers, with 200 foot centers on the central-west side where the early Horquilla ore will be exposed. The past few years assessment work has been by core holes drilled to the west perpendicular to the bedding.

ANAMAX is presently working on a Forest Service land exchange which will give them some 16,000 acres around their patented claim group. The exchange target is late 1983.

They believe all the conditions have been met for the exchange. This includes an archeological survey at a cost of \$1.2 million.

A number of years ago ANAMAX bought the Cienga and Empire Rances located in the valley. A claim block connects the mine area to the ranches. The ranches were secured as a water supply for the potential mine operations.

  
J. D. Sell

JDS/cg

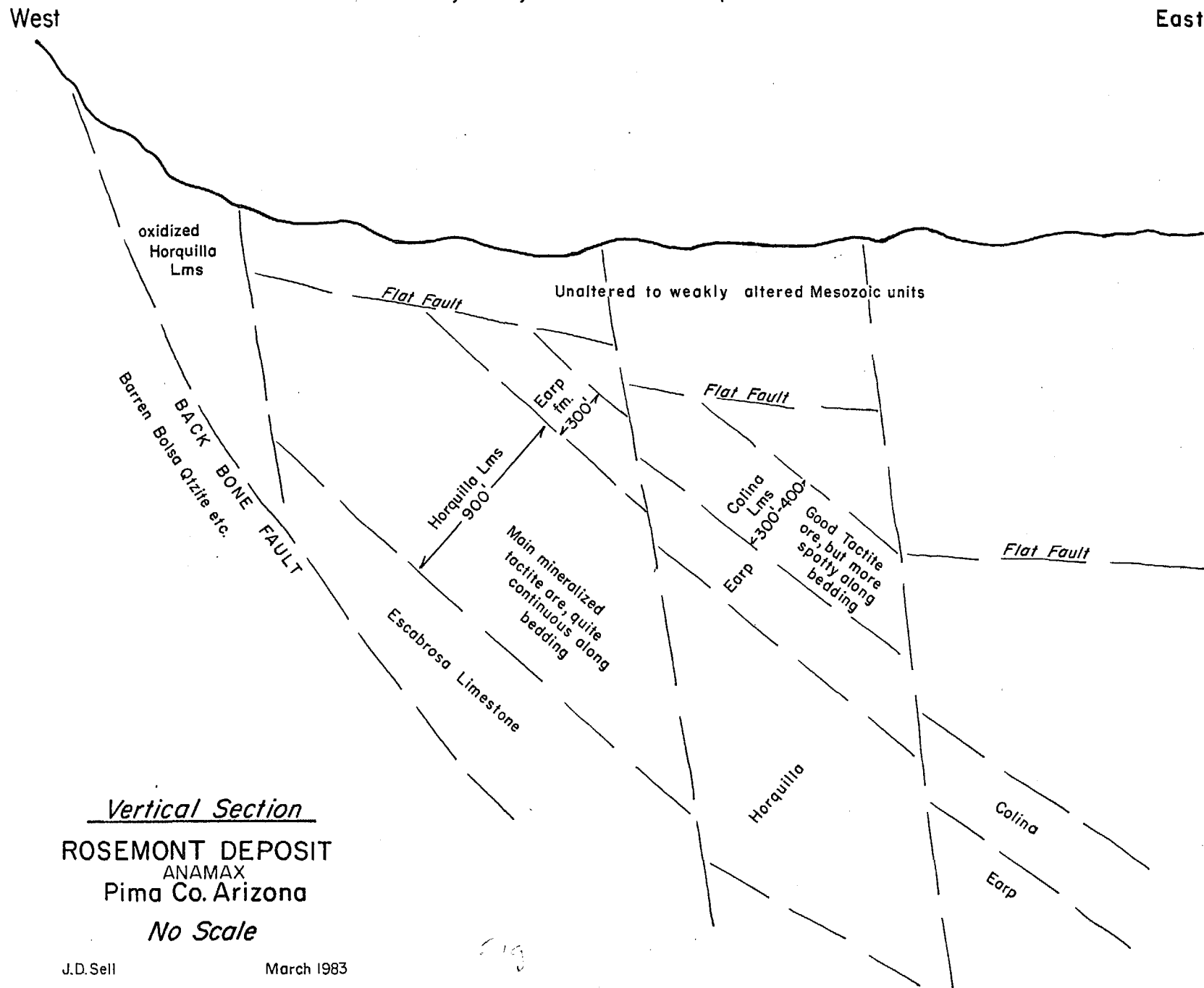
cc: RLBrown  
TEScartaccini

From Pincock, Allen & Holt 1977 Report

(Does not include much of the pre-mine stripping = 104,875,000 Tons)

<u>50' Bench Elevation</u>	<u>S Ore Tons (000)</u>	<u>Total Cu (%)</u>	<u>ASCu &lt;.3 Oxide Tons (000)</u>	<u>Tons Waste (000)</u>
Start of Ore				
5460	21	.83	--	11,700
5410	--	--	285	15,800
5360	95	.56	789	20,200
5310	215	.77	1000	25,200
5260	286	1.48	2000	36,000
5210	499	.82	2400	41,450
5160	384	.58	2400	51,284
5110	1,115	.43	1400	60,149
5060	1,726	.43	900	67,400
5010	1,482	.49	1000	69,700
4960	2,404	.59	800	65,700
4910	3,669	.69	139	61,700
4860	5,219	.64	319	56,700
4810	6,329	.64	318	52,400
4760	6,935	.65	206	48,800
4710	7,948	.63	623	46,300
4660	9,646	.58	751	39,600
4610	11,064	.56	1000	35,159
4560	12,259	.57	1000	30,900
4510	12,628	.57	1357	28,000
4460	13,342	.56	1400	24,800
4410	14,769	.59	900	21,500
4360	15,959	.60	800	17,900
4310	16,257	.60	1600	14,300
4260	15,786	.57	1200	12,800
4210	15,857	.55	600	10,900
4160	15,991	.56	550	8,600
4110	16,304	.57	533	6,200
4060	15,708	.58	438	4,600
4010	14,166	.59	388	4,200
3960	13,483	.60	302	3,000
3910	12,418	.62	190	2,300
3860	11,291	.62	180	1,400
3810	10,208	.58	--	1,000
3760	8,500	.55	--	1,200
3710	6,500	.51	--	1,600
3660	5,200	.44	--	1,600
3610	4,000	.45	--	1,600
3560	2,800	.44	--	1,500
3510	2,100	.50	--	1,000
3460	1,400	.54	--	577

Sketch showing ore tactite units in Horquilla & Colina limestones  
covered by weakly to fresh rocks on top.



Vertical Section  
ROSEMONT DEPOSIT  
ANAMAX  
Pima Co. Arizona  
No Scale

J.D.Sell

March 1983

MVK 5493



ANAMAX MINING COMPANY  
P.O. BOX 127, SAHUARITA, ARIZONA 85629  
602-791-2810

March 7, 1982

Mr. W. L. Kurtz  
Manager  
Exploration Department  
ASARCO Incorporated  
P. O. Box 5747  
Tucson, AZ 85703

Dear Mr. Kurtz:

The Partners have agreed to release the  
geologic information we have on the Rosemont deposit.

Please contact Charles Barter, Chief Geologist,  
who will make arrangements for the transfer of this  
information to Asarco.

Yours very truly,

  
G. R. Wyman  
General Manager

GRW:vm

pc: H. B. Carson - AMAX  
B. L. Odom - Anaconda  
T. E. Scartaccini - Asarco  
C. F. Barter

RECEIVED

MAR 10 1983

EXPLORATION DEPARTMENT

2/21/80

Rosemont

EAST HELVETIAGEOLOGIC ORE RESERVE ESTIMATEAS OF FEBRUARY 15, 1980*for open pit operation.*Sulfide Ore

<u>Ore Class</u>	<u>Tons</u>	<u>%Total Cu</u>	(ASCu) <u>%Oxide Cu</u>	<u>%Mo</u>	<u>Oz/Ton Ag</u>
1) Plus 1.00% Cu	33,534,538	1.44		.020	
2) .60 to .99% Cu	140,874,376	.77		.021	
3) .40 to .59% Cu	80,630,851	.49		.017	
4) .20 to .39% Cu	96,580,124	.33		.017	
1+2+3+4	351,619,889	.65	.07	.019	.257

Oxide Ore

<u>Tons</u>	<u>%Total Cu</u>	(ASCu) <u>%Oxide Cu</u>
66,015,501	.53	.30

## Parameters:

Lateral - 3400' N-S; 3200' E-W.

Vertical - 5150 to 3350 EL. = 1800'

Top of ore @ 100' below surface at W. side  
to 700' on E. sideANAMAX Inc.

Rosemont

TABLE 3.0-1

HELVETIA PROJECT  
MINING PLAN SUMMARY BY SEQUENCE

	Sulfide Ore			Sulfide Accum.	AsCu Ore				Waste Tons	Waste Accum.	Total Tons	Total Accum.	W/O W/O	W/O Accum.
	Tons	%Tot. Cu	%As Cu		Tons	%Tot. Cu	%As Cu	Accum.						
Pre production	766	0.33	0.04		1,948	0.28	0.15		104,875		107,589			
Year														
1	14,669	0.67	0.08	14,669	2,653	0.54	0.29	2,653	55,327	55,327	72,649	72,649	3.953	3.953
2	14,659	0.65	0.04	29,328	3,622	0.28	0.14	6,275	64,871	120,198	83,152	155,801	4.672	4.312
3	14,512	0.54	0.03	43,840	2,153	0.25	0.13	8,428	73,654	193,852	90,319	246,120	5.224	4.614
4	14,669	0.54	0.03	58,509	144	0.65	0.33	8,572	70,235	264,087	85,048	331,168	4.798	4.660
5	14,738	0.54	0.03	73,247	1,785	0.30	0.15	10,357	44,760	308,847	61,283	392,451	3.158	4.358
6-7	30,772	0.58	0.02	104,019	1,523	0.45	0.23	11,880	81,812	390,659	114,107	506,558	2.708	3.870
8-10	43,256	0.60	0.04	147,275	1,707	0.45	0.24	13,587	136,456	527,115	181,419	687,977	3.194	3.671
11-15	71,982	0.63	0.03	219,257	7,500	0.58	0.36	21,087	324,134	851,249	403,616	1,091,593	4.607	3.979
16-20	69,597	0.53	0.04	288,854	5,275	0.59	0.35	26,362	75,053	926,302	149,925	1,241,518	1.154	3.298
21-End	27,245	0.48	0.02	316,099					8,782	935,084	36,027	1,277,545	0.322	3.042
Totals	316,099	0.58	0.04		26,362	0.47	0.27		935,084		1,277,545		3.042	
Pit IV Reserve	316,865	0.58	0.03		28,310	0.46	0.26		1,039,959		1,385,134		3.371	



December 9, 1986

## FILE NOTE

Helvetia Deposit  
(Ex-Anamax)  
Pima County, AZ

I talked to Charles Barter, Chief Geologist of Anamax, at the AIME AZ conference registration (Sun, Dec. 7) about the status of the Helvetia Deposit. He said that it had been sold to a Realty Company and would be final in early January. Charlie said he would secure the buyer's name and had been told that several mining companies had inquired about the property since it was sold.

On Monday, December 8, a Mr. L. Reichardt called:

Leonard Reichardt  
Canatsey Realty Inc.  
1625 N. Alvernon  
Tucson, AZ 85712  
Phone: 881-3318

They are not listed in the Yellow Pages, but are in the White Pages as Canatsey Building and Development Co., Inc. (p. 22).

Mr. Reichardt says that they have 1671 patented acres in mining claims, 180 acres at Rosemont Canyon Ranch, and 160 acres at Hidden Springs Ranch, (all patented), plus around 20,000 acres of unpatented mining claims and lease ranch lands.

Canatsey plans on exchanging the 2011 acres of patented land to the Forest Service for deeded lands elsewhere that are more suitable for development.

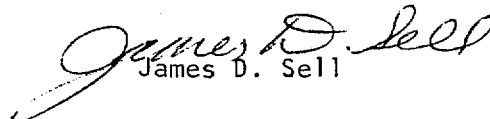
Reichardt said that should anyone else want the land then the price would be what the "exchange lands" value might be, plus royalty on the mining property.

He did confirm that several unnamed companies had inquired about the Helvetia Property itself, but had not made any firm proposal.

I said I'd get back to him on Asarco's interest within the week.

(P.S. Charlie Barter said that Asarco has the only complete set of Helvetia drill hole - assay data, and he'd soon request the data be returned.)  
(Charlie called 12/9 to tell me the above address and I asked if he could tell me what Canatsey paid for the property, and Charlie said he could not say.)

JDS:mek

  
James D. Sell

cc: W.L. Kurtz  
S.A. Anzalone  
R.L. Brown/F.T. Graybeal

December 9, 1986

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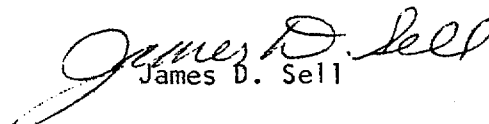
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JDS:mek

  
James D. Sell

cc: W.L. Kurtz  
S.A. Anzalone

**ASARCO**

JDS  
Southwestern Exploration Division

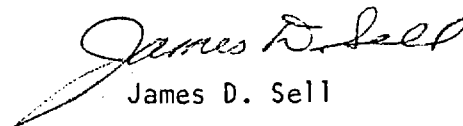
December 22, 1986

R.L. Brown  
New York Office

Helvetia Area  
Pima County, AZ

Fleetwood Koutz came up with the attached flyer (59 pages) on the Helvetia-Empire/Cienega Ranch Mine Properties which has all the data (and more) of my memo of December 9, 1986.

JDS:mek  
Att.

  
James D. Sell

cc: W.L. Kurtz (w/o att.)

December 23, 1986

R.L. Brown  
New York Office

Exchange Thoughts  
Helvetia Deposit  
Pima County, AZ

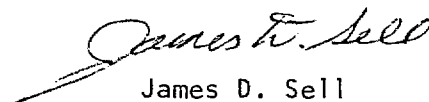
At your request I have contacted both the BLM and the Forest Service on the status of acquired patented lands which are attained by exchange of lands elsewhere.

Mr. Fred Potter, Minerals Specialist, BLM, Phoenix, AZ, phone: 602/863-4464, said that for any patented ground, with or without mineral rights, that is "acquired" by an exchange, the policy is that these "acquired" lands are available to others only by leasing arrangements. Mr. Potter said these acquired lands are colored dark blue on the BLM Land Status Maps. This is apparently an administrative decision as Mr. Potter did not know of any Federal Register printed "law."

Mr. Bill Lewis, Catalina Mountains administration, Forest Service, Tucson, AZ, phone: 602/629-5101, said that he is not fully acquainted with such matters, but he believes that any inholdings of patented lands acquired by exchange would be withheld from further entry. He pointed out that should the Forest Service allow staking of claims and a mineral deposit is found in this acquired block, then the property could be taken again to patent. The Forest Service would again have an inholding and they would be back to the point of having to acquire the land the second time --and round and round they'd go, losing exchange lands in the process.

A Mr. Mike Borens, Mineral Specialist, Coronado National Forest, Tucson, AZ, phone: 602/629-6483, is on vacation until next year in January. I will contact him if you feel further thoughts are needed. It is probable that the Forest Service would lease such lands, as does the BLM.

From the above, it is doubtful that the patented Helvetia, et al, mineral properties that are acquired by the Forest Service through exchange of other lands could be secured by staking of mining claims over the acquired ground.



James D. Sell

JDS:mek

cc: W.L. Kurtz

From: R. L. Brown

To:

*Jim Bell*

---

*Would you take care  
of this matter - reply  
directly to Mr. James*

*RLB*

*1/4/83*

RECEIVED

JAN - 6 1983

S. W. U. S. EXPL. DIV.

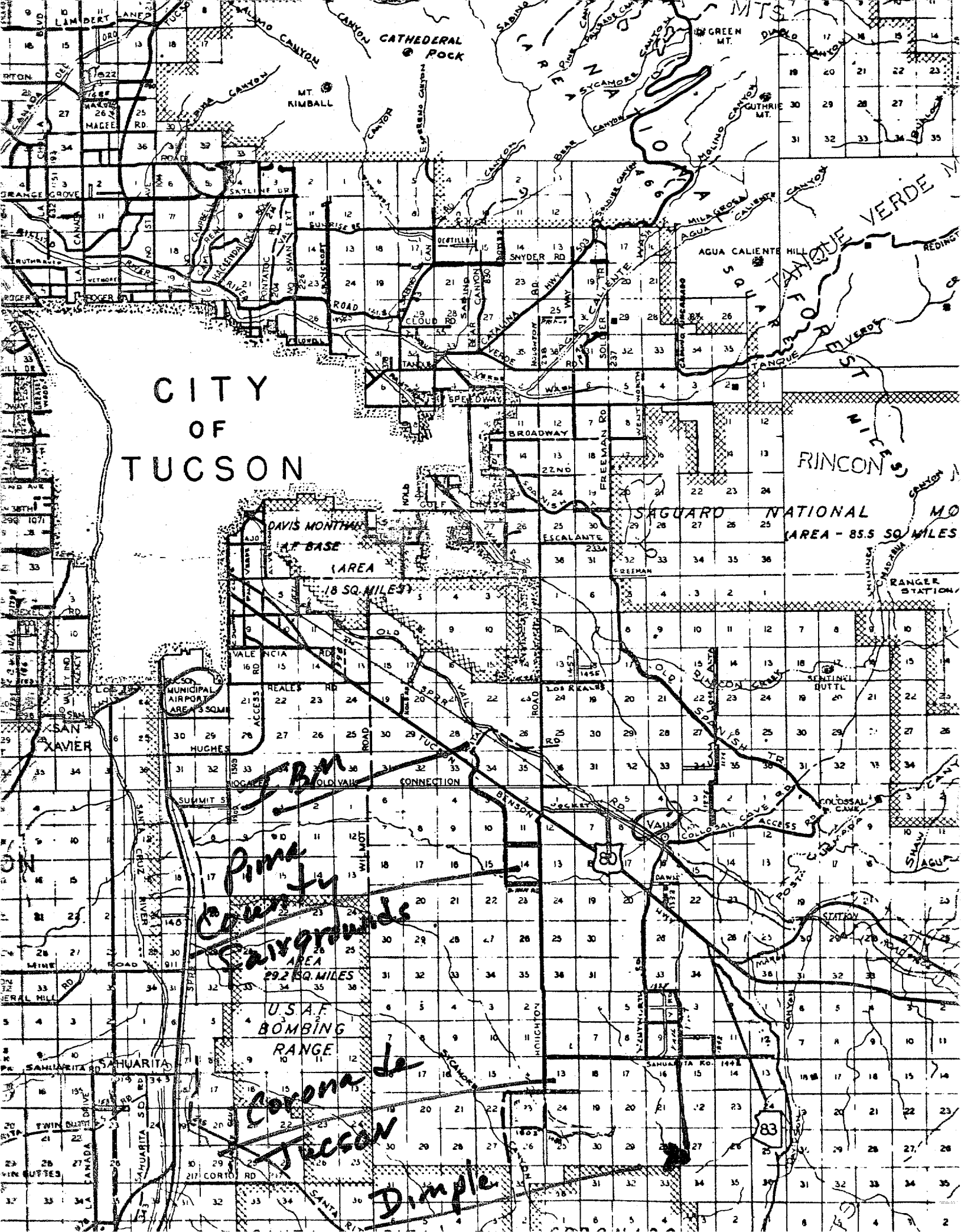
206 ACRES OF

PATENTED

MINING CLAIMS

in the Helvetia Mining District  
24 miles southeast of Tucson  
(6 miles southeast of Corona de Tucson)  
known as Dimple No. 1 through Dimple No. 10  
and designated on Mineral Survey  
No. 4053 and recorded in Book 32  
of Deeds of Mines Books at pages  
272 through 277 in the office of  
the recorder of Pima County, Arizona.

CECIL W. JAMES  
Real Estate Broker  
Sinclair Associates  
4545 N. Camino Real  
Tucson, Arizona 85718  
(602) 299-6424



CITY  
OF  
TUCSON

DAVIS MONTHAN  
AF BASE  
(AREA 18 SQ. MILES)

*Pima County Fairgrounds*  
29.2 SQ. MILES

U.S.A.F.  
BOMBING  
RANGE

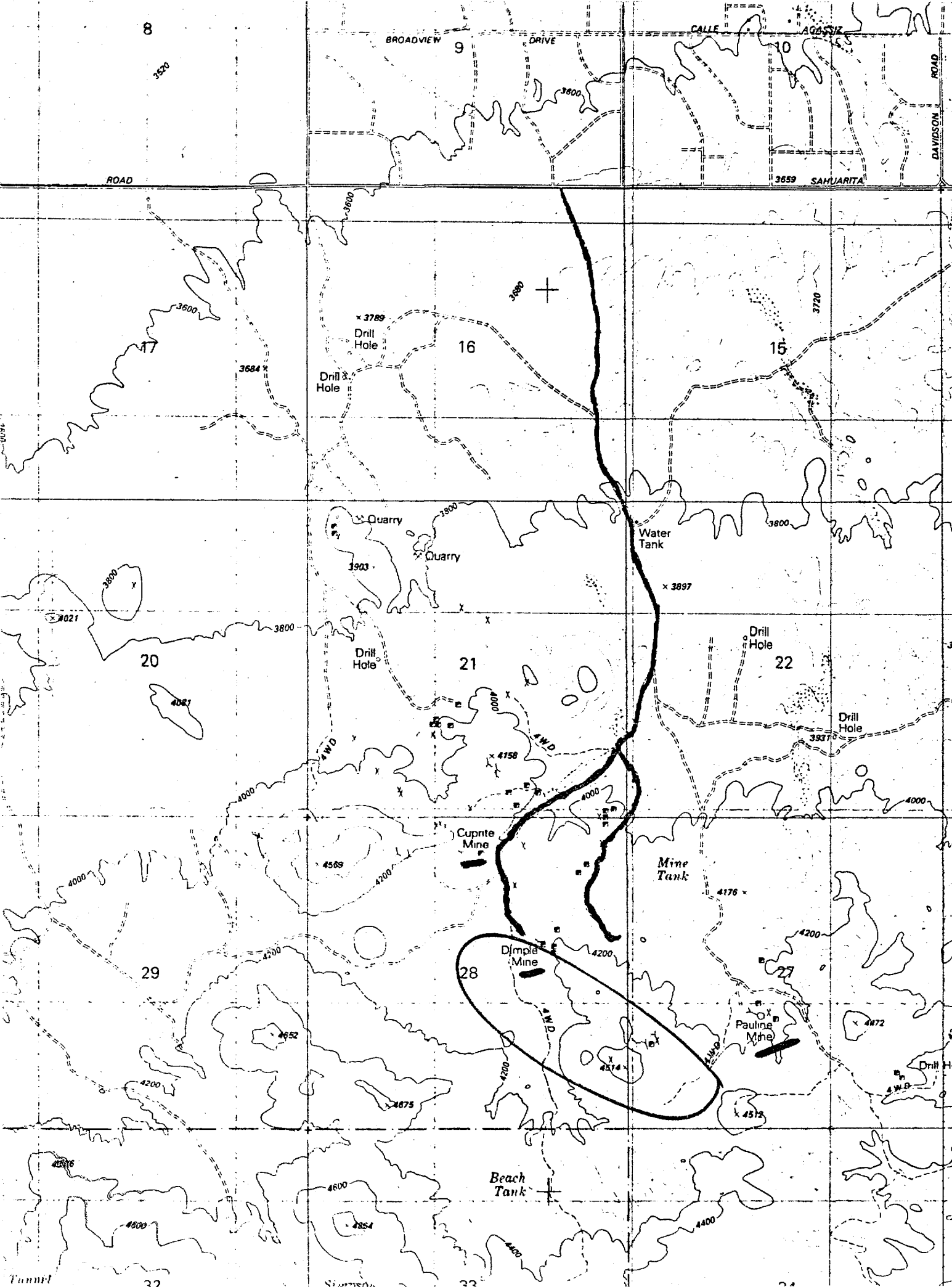
*Corona de Tucson*

*Dimple*

RINCON

SAGUARO NATIONAL MONUMENT  
(AREA - 85.5 SQ. MILES)

83



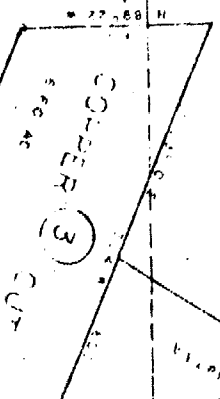
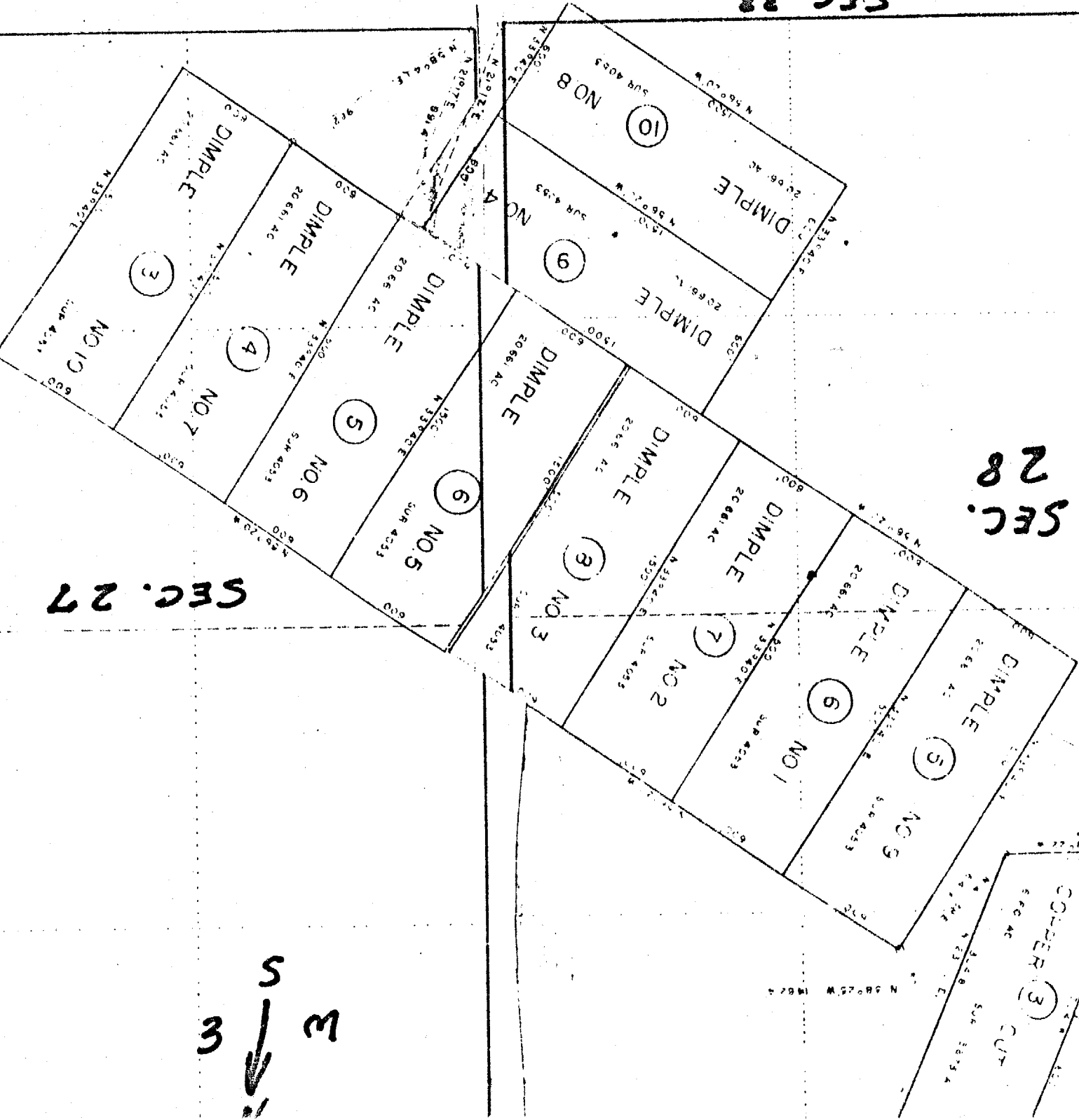


SEC. 28

SEC. 28

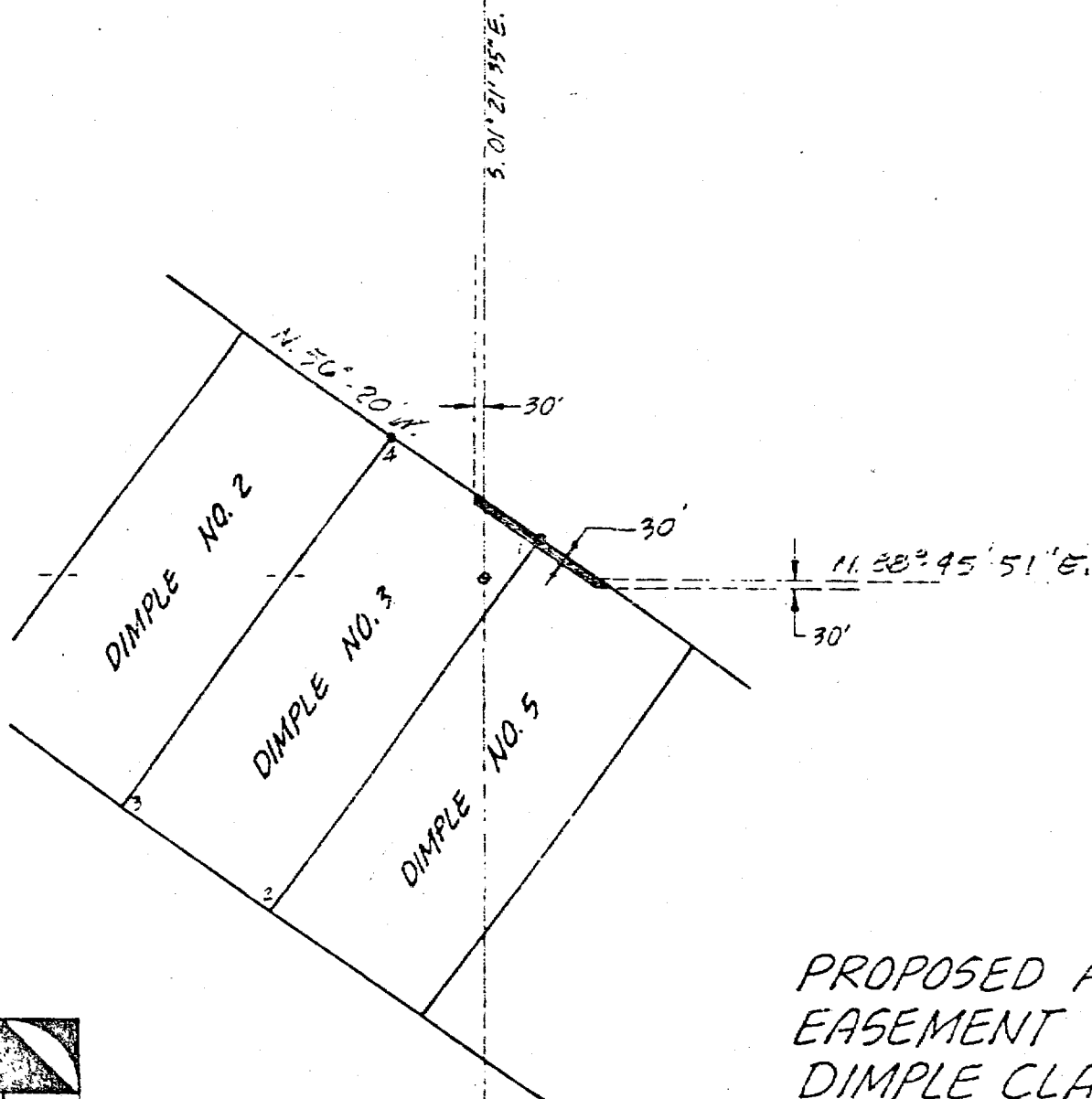
SEC. 27

3  
S  
W

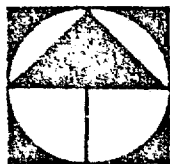


21 22  
28 27

NOTE: SEE MINERAL SURVEY NO. 4053 FOR  
ADDITIONAL INFORMATION OF CLAIMS



PROPOSED ACCESS  
EASEMENT OVER  
DIMPLE CLAIMS 3 & 5  
Sections 27 & 28, T.17 S.,  
R.16 E., G. & S.R.B. & M., PIMA  
COUNTY.  
for DAVID K. WOLFE



The  
WLB  
Group  
Inc.

Engineering • Planning  
Construction Administration • Urban Design  
Site and Section Analysis  
and Planning • Environmental Studies  
WLB and Associates  
1001 N. Main St. 11  
607-881-488

## BRIEF MINING RECORD

DIMPLE Mine Group:  
(Noscot Mine; Noscot  
Mining Co.)

Township 17S, Range 16E. East center,  
Section 28.

Shallow tunnel workings. Originally opened in 1915 with sporadic production through 1949 of some 180 tons of ore averaging about 13% Pb (lead), 11 ounces of Ag/T (silver per ton) and minor Cu (copper) and Zn (zinc). Source: Index of Mining Properties in Pima County, Arizona. S. B. Keith (1975). Arizona Bureau of Geology and Mineral Technology.

The total 10 Dimple mining claims were patented in 1930 and are also located in Sections 27 and 33 of Township 17S, Range 16E. The tunnel work is in the west and northwestern part of the total 206 acres. If or when any core drillings were ever made is presently unknown by the present owners.

CUPRITE Mine Group:

Township 17S, Range 16E. NW $\frac{1}{4}$ , Section 28.

Had 4 tunnel shafts range from 60 ft. to 100 ft. and worked from 1899 to 1915. Production consisted of approximately 2000 tons of good grade copper ore. Some of the ore was hand sorted to give carloads averaging 12% copper. Later dump shipments averaged 4-5% copper, plus 4 ounces of silver and 55 cents in gold per ton. Source: F. C. Schrader (1915) wrote in U. S. Geological Survey Bulletin 582. He added that some of the low-grade interior ore averaged only 2.5 to 3% copper per ton.

Other old working mines in the area included the Pauline Mine in Section 27 and the New York Mine in Section 29. Shaft and surface workings of the Pauline Mine continued on and on from 1882 to 1952 producing some 150 tons of ore. Minerals consisted of 2% lead, 2% copper, 1 ounce of silver per ton and minor amounts of gold. The New York mine operated in the 1890s and early 1900s. It produced approximately 100 tons of ore averaging 6% lead, 4% copper and 2 ounces of silver per ton.

Additional information is available in two University of Arizona master theses written in 1935 and 1958; plus Mr. Schrader's writings in three different publications.

The Dimple mines are approximately 28 miles southeast of Tucson; 15 miles southeast of the IBM industrial complex; and 6 miles southeast of the village of Corona de Tucson. There are three known water wells in the area which pump from 10 to 25 gpm. Legal access is an easement over state land to the mining claims. Elevation ranges from 4200 ft to 4500 feet.

PRICE

\$1,033,050

with mineral  
rights

\$618,000

without  
mineral rights

TERMS

Seller will consider the following:

\$150,000 down

1st year--9% interest only

2nd year--10% interest only

3rd year--23-year amortization

including 11% interest with

10 year due date.

ORGE CROSS NEWS LETTER LTD.NO.44(1988)

CACTUS WEST EXPLORATIONS LTD (CWE-V)

PAGE TWO

MARCH 3, 1988

NEXUS RESOURCE CORPORATION (NRC-V)



R.15 E. | R.16 E.

N

PEACH-ELGIN  
DEPOSIT

BROADTOP  
BUTTE

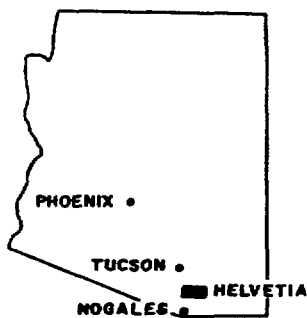
ROSEMONT  
DEPOSIT

RE-  
SERVED

83

T 18 S

T 19 S



INDEX MAP

**EXPLANATION**



FEE SURFACE  
AND MINERAL



PATENTED LODGE MINING  
CLAIMS AND MILL SITES



BOUNDARY OF UNPATENTED  
LODGE MINING CLAIMS



RANGE CREST - SANTA RITA MTS.



STATE HIGHWAY

SCALE: 1" = 1 mile

**LOCATION MAP**

**HELVETIA & ROSEMONT MINING DISTRICTS**

PIMA COUNTY, ARIZONA

October 5, 1993

Mr. S. A. Anzalone  
Chief Geologist, Mining  
TUCSON OFFICE

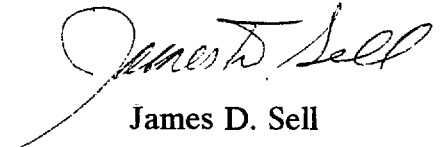
4-1/2% NSR - Frijole Claims  
Helvetia Mining District  
Pima County, Arizona

A Mr. John Stephens of Wheatridge, Colorado (telephone 303-238-1173) called on October 13, 1993, to say that he has a 4-1/2% NSR on the 18 claims of the Frijole Group located in Sections 23, 24, 25, and 26, T18S, R15E, Pima County.

Appendix A (attached) is a list of the claims, their docket and page number.

Mr. Stephens wants to know the value of this 4-1/2% NSR as the claims are in his sister's probate now being settled.

Also attached is a computer printout, page 1, of the map data in the Mining files.



James D. Sell

JDS:brw

Attachments

cc: G. D. Van Voorhis w/att.

File



APPENDIX A

The following described unpatented lode mining claims situated in the Helvetia Mining District in Sections 23, 24, 25 and 26, Township 18 South, Range 15 East, Pima County, Arizona.

Recorded in Pima County, Arizona

<u>Name</u>	<u>Docket</u>	<u>Page</u>
Roseland	1062	539
Michael M.	1062	540
Lydia J.	1062	541
Ida D.	1062	542
D & D #1	1062	543
D & D #2	1062	544
Frijole	1062	545
Frijole II	1062	546
Frijole III	1062	547
Frijole IV	1062	548
Frijole V	1062	549
Frijole VI	1062	550
Frijole VII	1062	551
Frijole VIII	1062	552
Frijole IX	1062	553
Frijole X	1070	494
Frijole XI	1454	349
Frijole XI, Extension	1454	350

FC3.1	FOLDER	CLAIM	HELV	NOTICES OF MINING LOCATION: MIA 1A-14A,FRIJOLE,FRED,BERT,AL,ART,FRED BENNETT FRACTION
FC3.1	FOLDER	CLAIM	HELV	NOTICES OF MINING LOCATION: FRIJOLE CLAIM GROUP BLM FILES 14972-14989
FC3.1	FOLDER	CLAIM	HELV	AFFIDAVIT OF LABOR PERFORMED IMPROVEMENTS:HELV. GROUPS IV & FRIJOLE GROUP 1983-1984
FC3.2	FOLDER	CLAIM	HELV	HELVETIA GROUP IV AND FRIJOLE GROUP AFFIDAVIT OF LABOR & IMPROVEMENTS MADE 1968-1985
FC3.3	COMP	CLAIM	HELV	HELVETIA MINING DIST. FRIJOLE CLAIM GROUP SEC 23, 24, 25 & 26 T18S, R15E, G&SR B&M
FC4.2	BOUND	CLAIM	HELV	FIELD BOOK 2500 HELVETIA WEST STADIA SHOTS,FRIJOLE SURVEY, LAST CHANCE GRP
FC4.4	SECTN	CLAIM	HELV	VELLUM BANNER MINING CO. PRELIM.CLAIM MAP FRIJOLE GRP(UNPAT),GOLDEN GATE GRP.(UNPAT),
FC5.1	FOLDER	CLAIM	HELV	FRIJOLE-OUTSIDE PROPERTIES,DEISLER-CUPRITE MINE AREA,DIMPLE CLAIMS
FC5.4	FOLDER	CLAIM	HELV	AFFIDAVIT OF LABOR PERFORMED & IMPROVEMENTS MADE:FRIJOLE GRP 1977-82,MIA A GRP 1981-83
FC5.4	FOLDER	CLAIM	HELV	AFFIDAVIT OF LABOR PERFORMED & IMPROVEMENTS MADE:HELV GRP IV & FRIJOLE GRP 1983-1985
MT1.45	SECTN	CLAIM	HELV	VELLUM W-E 306000N-314200N 852100E-860600E FRIJOLE GRP SEC.23-26,T18S,R15E 1"-300' 05/1979
MT1.45	SECTN	CLAIM	HELV	VELLUM W-E 306000N-314200N 853800E-860600E FRIJOLE GRP SEC.23-26,T18S,R15E 1"-300' 05/1979
MT2.01	SECTN	CLAIM	HELV	VELLUM W-E R15E,T18S 1"=600' FRIJOLE,ROSALAND,IDA D, LYDIA J, D&D,MICHAEL M
MT2.05	SECTN	SURVEY	HELV	VELLUM W-E 307000N-314000N 854000E-860000E FRIJOLE CLAIM GROUP
MT2.05	SECTN	SURVEY	HELV	MYLAR W-E T18S,R15E, FRIJOLE CLAIM GROUP 02/77