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Mendota Mine Notes
from Cotter files

Work by Cotter

Smuggler Dump. (from JD Schlotman 7/27/65)

Using a quickway shovel & 2 yd bucket loader the Smuggler dump was sampled. Recovered about 20 tons, assays were 3.07 Ag, 0.59% Pt & 1.88% Zn. They state 90% recovery by sink float. State dump contains 50,000 T. Brownville slide 500,000 T. Recoverable net value, smelter, from Smuggler @ \$148,000 for Ag, \$47,500 for Pt & \$99,000 for Zn, using prices for metals @ \$1.20/lb Ag, \$0.10/lb Pt, & \$0.065/lb Zn.

Pillars in shaft sampled every 25', "Orbody" ave 3' thick, 4.49 oz Ag, 4.07% Pt, & 11.5% Zn.

Clyde Osborne letter 10/25/66 to Dave Marcott. "The question of ore reserves & where they are situated needs to be studied, as does the market for aggregates".

Osborne report to Dave Marcott 9/7/66;

"Based on open published smelter schedules the Pt concentrate would have a net smelter value of \$584.60/ton & the Zn concentrate a net smelter value of \$112.36 per ton." Concentrates for this are assumed to contain

Pt Conc	Zn Conc
Ag - 379.38 oz	39.73 oz
Pt - 65.50%	0.91%
Zn - 4.60%	56.75%

"Based on these values the up-graded Silver Plume product will have a net value of \$34.12/ton from which a hauling cost of \$6.75 per ton & a Canon City milling cost of \$4.50 per ton must be deducted, leaving a net value of \$22.87 per ton. Relating this back to Silver Plume operations & a ratio of concentration of 14.1/1, the net return per ton of dump material would be \$1.62/ton". This is not a true net! It does not provide the handling & sink float costs at Silver Plume, nor does it provide for royalty costs.

Average mill heads thru Aug 21, 1966, reported by

Osborne were

	Tons (Est)	oz Ag	% Pt	% Zn
Brownville dump	5397	2.05	0.183	0.544
Mendota "	4550	1.16	0.279	0.984
Coverage	9947	1.60	0.231	0.764

Sink Conc for same period was

	Tons	Ag/ton	% Pt	% Zn	Conc. Ratio
Brownville	195	13.61	1.66	4.17	27.7/1
Mendota	177	9.66	4.36	9.23	25.7/1
Ave.	372	11.63	3.01	6.70	

These figures show sink-float recovery for the ave. was 27.3% of Ag; 48.8% of Pt, & 32.7% of Zn.

Samples from Howard shaft (these are probably only shaft pillars)

Assay #	Depth below collar	Width	Ag	Pt	Zn
501	48 75'	48"	2.77	0.67	6.60
502	175'	36"	7.00	3.02	19.38
503	150'	48"	1.35	1.30	4.20
504	125'	58"	2.30	0.54	4.50
505	100'	50"	8.28	9.38	8.75
694	300'	29"	7.84 0.55	14.03	6.00
695	275'	2"?	4.38	2.98	37.19
696	250'	48"	5.47	4.14	20.62
697	225'	48"	4.87	6.65	15.94
698	200'	10"	23.11	8.62	15.19
693	375'	36"	1.20	1.60	3.19
692	Shaft bottom east end	50"	1.09	1.75	17.37
691	" " west "	52"	1.35	1.41	17.20
690	6' west of shaft, bottom level	10"	6.05	8.06	34.56
689	100' east " " on 350 level	27"	0.91	0.29	14.25

Interim report, J. D. Schlottman to D. Marcott 7/27/65
Weighted ave in Howard shaft, probably assays above is 4.49 oz Ag, 4.07% Pt, 11.5% Zn.

Apparently aggregate approaches to Fodermill
by Osborn were not successful. The best offer
received was for 3000-4000 yds @ \$.50/yd.

8/14/66 letter to Mr Grant Roben by Osborn Costs
based on 115 loads @ 13 Tons/load = 1495 dry tons

Hauling to crushing plant	\$ 950.75	= \$ 0.63/ton
Crushing	1029.75	= \$ 0.69/ton
Moving crushed material to stockpile on 'patio' and for into mill bins	1144.75	= \$ 0.765/ton
		Total \$ 2.085

Does not include sink float plant operation or flotation
costs.