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James Doyle Sell Mining Collection

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(1956)

SUMMARY OF BAGDAD DOH ANALYSIS

1. Comparison of assays before and after cementing

	No. of Holes	No. of Plugs	Sludge Assay - total Cu					Oxide				
			+ %	- %	+ No.	- No.	no change	+ %	- %	+ No.	- No.	no change
A Enriched 1946 to 1955 incl.	48	83	19.15 years 5	20.14 years 2	44 years 3	39 years 3	-	11.82	8.34	33	43	7
B non enriched	144	491	34.02 years	39.60 years	217 years	235 years	40	12.58	16.60	182	229	80
C Total	192	574	51.18	59.74	261	274	40	24.40	24.95	215	272	87

nearly all Cu yr

years 1949 & 1950 show most pronounced, consistent trend toward salting of sludge (both second. & primary) - 1946 & 1952, 1953 less pronounced - essentially primary(?) ore

Total 3388 samples - in 10% recov. ranges - sludge averages from .10% higher (c-.58, s-.64) 50 to 90% recov. to .035% higher at 10 to 20% rec. range.

largest no samples in 20 to 30 range.

Effect of Bagdad formula is to lower assay an average of about .02% Cu (ranging from .01% to .04% Cu)

G.S.T.

12-12-30.

COMPARISON OF DRIFT AND CHURN DRILL ASSAYS.
3080 LEVEL HORIZON(3055-3105)

HOLES	SPACING		DRIFT ASSAY	AV. HOLES ASSAY	FACTOR (Drift assay divided by holes assay)
89 to 90	600'	@	1.82	1.02	178
89 to 43	100'	@	2.09	1.72	121
43 to 90	100'	@	1.89	2.22	85
90 to 91	100'	@	2.03	1.59	127
91 to 57	100'	@	2.33	1.52	153
57 to 53	200'	@	1.23	1.61	76
43 to 42	100'	@	.74	2.29	32
42 to 38	200'	@	.81	1.50	54
38 to 86	100'	@	.96	1.19	81
86 to 37	100'	@	1.70	1.88	90
43 to 37	100'	@	3.32	2.37	140
37 to 48	100'	@	1.95	2.01	97
37 to 47	200'	@	1.82	2.10	86
47 to 45	100'	@	1.16	1.42	81
45 to 44	100'	@	2.07	1.43	140
47 to 46	100'	@	1.59	2.06	77
47 to 21	300'	@	1.50	1.40	107
21 to 17	140'	@	1.11	1.23	87
21 to 20	100'	@	1.18	1.16	100
21 to 25	200'	@	1.68	.92	182
25 to 24	100'	@	1.38	1.51	91
24 to 110	400'	@	1.33	1.30	102
20 to 109	200'	@	1.87	1.66	112
109 to 111	200'	@	1.47	1.83	80
109 to 26	165'	@	1.76	2.86	95
26 to 30	165'	@	1.63	1.45	112
17 to 20	100'	@	.94	1.57	60
Average (of 27)			1.60	1.63	98.16

Taking the drift assays as correct, the above indicates that the churn drill hole assays are 1.84% high. In other words by multiplying the churn drill assays by 98.16% a corrected assay would be obtained.