

(200)
R296
No. 617

Table 30.--Composition of copper-bearing samples from the Lisbon Valley area

Analysts: Spectrographic, R. G. Havens, N. M. Conklin, G. W. Boyes, Jr., and J. C. Hamilton; Arsenic, G. T. Burrow, J. P. Schuch, and C. Huffman, Jr.; Copper, E. Mallory; Selenium, G. T. Burrow and J. H. McCarthy; Equivalent Uranium, D. L. Shafer, C. G. Angelo, S. Furman, and G. S. Erickson; Zinc, W. D. Goss

Field Number	Laboratory Number	Brief description	Analytical data expressed in percent 1/																																										
			Si	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Ag	As	B	Ba	Be	Bi	Ce	Co	Cr	Cu	Dy	Er	Ga	Gd	Ge	La	Mo	Nb	Nd	Ni	P	Pb	Sc	Se	Sr	Tl	U	eU	V	Y	Yb	Zn	Zr	
W-9/9/6-S4	251623	Copper ore from Lackey Basin, La Sal Mountains	XX.	.X+	X.+	.OX	.X+	.X+	0	.OX	.OX	.OX	0.0454	0	X.-	0	.OX	0	.00X	.000X-	XX.	0	0	0	0	0	0	.00X+	0	0	.00X	0	.00X	.000X+	0.0060	.X	0	0	<0.001	.OX	.00X-	.000X	<.0005	.00X	
W-9/9/6-S1	251622	Copper-bearing monzonite from Twin Logs claim, Lackey Basin, La Sal Mountains	XX.	X.+	X.+	.OX+	.X+	X.	0	.OX+	.OX-	.00X+	.0053	0	X.	0	.00X	.OX-	0	.000X	XX.	0	0	.000X-	0	0	.OX-	.00X+	0	.OX-	.000X+	0	.00X+	.00X-	.0012	.X	0	0	.001	.OX-	.00X	.000X	.0088	.OX-	
W-8/31/6-S1	251625	Dakota (?) sandstone from Big Indian copper mine	XX.	X.-	.X-	.OX+	XX.	.X-	0	.OX+	.OX	.00X-	---	0	.OX-	.000X	0	.OX	0	.000X+	.X	0	0	0	0	0	.00X+	0	0	.OX-	.000X	X.	.00X-	0	---	.OX-	0	0	.014	.00X-	.OX-	.00X-	0	.OX-	
53W-3	D-89450	Carbonaceous material from the Pioneer mine	XX.	.X-	.OX-	.OX	.X+	.OX-	0	.X	.00X	.000X+	---	0	.OX-	.000X	0	0	Tr	.000X+	24.00	0	0	0	0	.0002	0	0	0	0	0	0	.OX-	0	---	.00X-	0	0	.002	Tr	.00X-	.000X-	.OX	0	
53W-2	D-89449	Carbonaceous material from the Pioneer mine	XX.	X.	.X	.X-	.OX+	0	0	.OX+	.00X	0	---	0	.00X+	.000X	0	0	Tr	.000X+	.76	0	0	Tr	0	.0002	0	Tr	0	0	0	0	X.+	Tr	0	---	.00X-	0	0	.002	Tr	.00X-	.000X-	0	.00X+
53W-1	D-89448	Carbonaceous material from the Pioneer mine	XX.	X.-	.X+	.OX+	.X-	0	0	.OX+	0	0	---	0	.00X	.000X	0	0	Tr	.000X	2.17	0	0	Tr	0	.0004	0	.000X+	0	0	0	XX.	0	0	---	.00X-	0	0	.002	Tr	.00X-	.000X-	0	.00X	
9-9-4/W-1D	218653	Dakota sandstone from Pioneer copper mine	X.+	X	X.	.OX-	.OX+	0	0	.OX	.00X+	.0135	.0025	0	.OX	.000X-	0	0	.00X	.00X-	47.06	0	0	0	0	0	0	.00X	0	0	.00X	---	.00X	0	.0004	Tr	0	0	.001	.00X	.00X-	.000X-	.X+	.00X	
6-2-4/W-2	211955	Drill cuttings from Burro Canyon sm. at Big Indian copper mine, 290 feet depth	XX.	.X+	X.-	.OX+	.X	.OX	0	.X-	.OX-	.000X	.0028	0	.OX-	0	0	0	.00X-	.00X+	2.77	0	0	0	0	0	0	.00X	0	0	.00X	0	.00X	0	.0001	.00X-	0	0	.031	.00X	.00X-	.000X-	<.0005	.OX-	
6-2-4/W-1B	211954	Burro Canyon sandstone from Big Indian copper mine	XX.	X	X.	.OX-	.OX	0	0	.OX+	.OX-	.00X-	.0008	0	.00X	Tr	0	0	.00X-	.00X-	10.57	0	0	0	0	0	0	.00X	0	0	.00X+	0	.00X-	0	.00005	.000X+	0	0	.002	.00X	.00X-	.000X+	<.0005	.00X+	
5-1-4/W-1B	211953	Burro Canyon sandstone from Lucky Strike Prospect, sec. 7, T. 31 S., R. 26 E.	XX.	X.-	X.-	.X-	.X-	.OX	.X+	.X	.OX-	.OX	---	0	.OX-	0	0	0	.000X+	.00X	5.25	0	0	0	0	0	0	.00X+	0	0	.00X+	0	.00X-	0	---	.OX	0	0	.011	.OX+	.00X-	-0-	0	.OX-	
K-1/31/57-S2	254206	Sandstone from Kayenta fm. sec. 36, T. 30 S., R. 25 E.	XX.	X.-	.X-	.OX+	XX.	.X	X.-	.OX+	.OX+	.00X	.0245	Tr	.OX	0	0	0	.00X-	XX.	0	0	0	0	0	0	0	0	0	0	0	0	0	.0005	.OX-	0	0	.011	.OX-	.00X-	.000X-	0	.00X+		
K-7/11/57-S1	25170	Chinle sandstone from the Cord mine	XX.	X.	X.-	.X+	X.	.X+	X.	.OX	.OX+	.000X	.0046	.00X+	X.-	.000X+	0	.OX	.OX	.00X-	X.-	0	0	0	0	0	.00X	.X	0	.OX-	.00X+	0	.X-	0	.0015	.X-	.OX-	X.	---	.X-	.OX+	.00X+	0	.X-	
K-4/3/57-S2	258100	Chinle sandstone from the Radon mine. Contains chalcopryite	XX.	X.	X.	.X	X.-	.X+	X.	.X+	.OX	.000X+	.0023	0	.X+	.000X+	0	0	.OX	.000X+	X.+	.OX-	.00X+	0	.OX-	0	0	.00X-	0	0	.OX-	0	.OX+	.00X-	.0002	.X-	0	X.-	---	.OX+	.OX	.00X+	.OX+	.X-	
K-1/31/57-S4	254209	Chinle sandstone from Mt. Vida mine. Contains chalcopryite	XX.	X.-	X.	.X	.X+	.X	.X+	.OX+	.X-	.00X	.0056	Tr	.OX	.000X	0	Tr	.00X+	.000X+	X.+	0	0	Tr	0	0	0	.X-	0	.OX	.00X	0	.OX-	0	.0001	.00X+	0	.X+	---	.OX	.00X	.000X+	.OX	.OX-	
TB-BBA	254210	Chinle sandstone from Big Buck mine. Contains native copper	XX.	X.	.X	.X+	XX.	.X	X.-	.OX	.X-	.000X+	.0192	Tr	.OX-	.000X-	0	0	-0-	.00X-	X.+	0	0	.000X	0	0	.00X	.00X-	0	0	.00X-	0	0	.000X+	.0003	.OX-	0	.X-	---	.X-	.00X	-0-	0	.00X+	
W-8/15/6-S4	251632	Cutler sandstone from copper deposit near Woods Ranch	XX.	X.+	X.-	.X	X.+	X.	X.	.X-	.OX+	.00X-	---	0	.OX+	0	0	0	.000X	.000X+	X.	0	0	.000X	0	.00X	0	0	0	0	.00X-	0	.00X-	.000X+	---	.OX	0	0	.011	.00X+	.000X+	.000X-	0	.00X+	
W-8/15/6-S3	251631	Cutler sandstone from copper deposit near Woods Ranch	XX.	XX.	X.-	X.-	.X+	X.	X.	.OX+	.OX	.0000X+	---	0	.X-	.000X-	0	0	.00X-	.00X	.X	0	0	.000X+	0	0	0	0	0	.000X+	0	.00X	0	.00X-	.00X-	---	.OX-	0	0	.011	.00X+	.00X	.000X	0	.OX-
K-1/31/57-S3	254207	Mudstone and sandstone from Hermosa SE 1/4 sec. 22, T. 30 S., R. 25 E.	XX.	X.-	X.-	.X-	.X+	.X+	.X+	.OX+	.OX	.OX	.0008	0	.X	0	0	0	0	.000X+	XX.	0	0	Tr	0	0	0	.00X	0	0	.00X-	0	.OX-	0	.0020	.OX-	0	0	.003	.00X	.00X-	.000X-	0	.00X+	

1/ See table 2 for explanation of symbols used.