U.S. GEOLOGICAL SURVEY DENVER JUL 1 1983 LIBRARY GEOLOGIC DIVISION

(200) TM2

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

Table 3.--Compilation of channel data, Monument Valley, Ariz.

Channel number	Channel name: U. S. Geological Survey	Channel name: U. S. Atomic Energy Commission	Latitude (north)	Longitude (west)	Trend	Width/ (feet)	Depth (feet)	Channel sediments: Structure	Channel sediments: Texture	Bleached zone: Near channel	Bleached zone: Beneath channel	Uranium minerals	Radioactivity anomaly: Airborne	Radioactivity anomaly: Outcrop	Metallic minerals	Inclusions in sediments	Claim holder (1953)	Address	Remarks
1	Alfred Miles No. 1	Nokai Mesa	36°59.8'	110°28.1'	N.50°E.	2150(B)	70	Massive sandstone	Fine-to medium grained	-	2 feet 8 inches	Carnotite, torbernite, autinite(?)	Positive	Positive	Malachite, azurite, limonite, jarosite	Clay pebbles of Moenkopi; silicified wood	Alfred Miles, F. Todechenee	Oljeto, Utah	See text for drilling results
2	-	-	36°59.2'	110°27.8'	N.35°E.	- (N)	-	Do.	Do.	-	2 feet	None	None	None	Limonite	Plant matter	None	-	-
3	Cutfinger Canyon	-	36°58.2'	110°28.7'	-	2300(B)	-	Lenticular sandstone	Coarse grained and conglomerate	-	2-1/2 to 3 feet	Do.	Do.	Do.	Limonite, jarosite, manganese oxides	-	Do.	-	-
4	-	-	36°58.5'	110°28.4'	-	1500(B)	-	Crossbedded sandstone	Conglomeratic sandstone and siltstone	-	4-6 inches	Do.	Do.	Do.	Limonite	Silicified wood	Do.	-	-
5	-	-	36°57.9'	110°28.3'	N.40°E.(?)	150(I)	10-15	Massive conglomeratic sandstone	Conglomeratic sandstone grit	30 inches	-	Do.	Do.	Do.	Limonite, jarosite	-	Do.	-	-
6	Double	-	36°59.8'	110°26.7'	E-W	1800(B)	50	Massive sandstone	Medium to coarse grained	6-8 inches	6-8 inches	Do.	Do.	2 times background	Malachite, limonite, jarosite	Clay pebbles, silicified wood	Alfred Miles	Oljeto, Utah	May be part of channel no. 7
7	Alfred Miles No. 2	-	36°59.6'	110°26.6'	E-W	900(B)	50	Do.	Do.	6-8 inches	2 feet	Do.	Do.	None	Malachite in bleached zone	Do.	Do.	Do.	May be part of channel no. 6
8	Do.	-	36°59.2'	110°25.0'	N.80°W.	500(B)	75	Do.	Fine to medium grained	6-8 inches	6-8 inches	Do.	Do.	Do.	Limonite	-	Do.	Do.	May be part of channels nos. 7 and 9
9	Do.	-	36°59.2'	110°24.7'	N.80°E.	250(I)	30	Do.	Do.	1 foot	1 foot	Do.	Do.	Do.	Limonite, jarosite	Silicified wood	-	-	May be part of channels nos. 7 and 8
10	-	-	36°58.9'	110°24.5'	?	150(I)	10	Do.	Medium grained	1 foot	1 foot	Do.	Do.	Do.	Limonite	-	-	-	-
11	-	-	36°58.7'	110°24.8'	N.12°E.	150(I)	0	Do.	Do.	6 inches	6 inches	Do.	Do.	Do.	Limonite	Clay pebbles, plant matter; silicified wood	-	-	-
12	SW Hoskinnini	-	36°58.1'	110°24.8'	N.72°E.	600(B)	30	Do.	Do.	2 feet	3-4 inches	Do.	Do.	Do.	Limonite	-	-	-	-
13	-	-	36°58.6'	110°25.8'	N.55°E.	150(I)	10	Do.	Do.	1 foot	1-1/2 feet	Do.	Do.	Do.	Limonite	-	-	-	-
14	-	-	36°58.5'	110°25.8'	N.80°E.	20(N)	6	Do.	Do.	1 foot	1-1/2 feet	Do.	Do.	Do.	Limonite	-	-	-	-
15	-	-	36°57.3'	110°28.7'	N.70°E(?)	50(I)	10-15	Lenticular sandstone	-	6 inches	-	Do.	Do.	Do.	-	-	-	-	-
16	Checker	-	36°56.4'	110°28.5'	N.20°E.	300?(I)	20-40	Massive sandstone	Medium grained	4 inches	1 foot	Do.	Do.	Do.	Jarosite	-	-	-	Only basal channel sediments preserved
17	Road	-	36°55.0'	110°29.8'	N.25°W.	400(B)	50	Do.	Do.	1 foot	2 feet	Do.	Do.	Do.	Malachite replacing wood	Silicified wood	-	-	Isolated remnant of channel
18	Fish	-	36°54.3'	110°29.6'	N.10°W.	400(B)	40	Do.	Do.	6 inches	1 foot	Do.	Do.	Do.	-	-	-	-	Do.
19	Re-entrant	-	36°53.9'	110°29.7'	N.40°E.	600(B)	40	Do.	Do.	6 inches	1 foot	Do.	Do.	Do.	-	-	-	-	-
20	-	-	36°53.4'	110°24.8'	N.50°E.	30(N)	10	-	Siltstone	-	4 inches	Do.	Do.	Do.	-	Sandstone blocks	-	-	-
21	Cecil Todechenee	-	36°53.4'	110°24.8'	E-W	100(I)	20	Massive sandstone	Coarse grained	-	-	Carnotite	Do.	16 times background scintillometer	Malachite, vanadium minerals, limonite	Charred wood, silicified wood	C and P Todechenee	Kayenta, Ariz.	-
22	Ladder	-	36°51.9'	110°25.8'	N.18°E.	45(N)	8	Do.	Medium grained	-	4 feet	None	Do.	None	Limonite	-	C. Todechenee	Kayenta, Ariz.	-
23	-	-	36°51.8'	110°25.7'	N.35°E.	600(B)	30	Do.	Do.	-	4 feet	Do.	Do.	Do.	Limonite	-	-	-	-
24	-	-	36°51.2'	110°25.9'	N.25°E.	140(I)	20	Do.	Do.	-	6-8 inches	Do.	Do.	Do.	-	Clay stringers	-	-	-
25	-	-	36°59.9'	110°23.2'	N.30°W.	250?(I)	10	Do.	Do.	-	6-8 inches	Do.	Do.	Do.	-	-	-	-	-
26	E. Hoskinnini	-	36°59.4'	110°22.4'	N.15°E - N.10°W.	300(I)	30	Do.	Do.	1 foot	1 foot 2 inches	Do.	Do.	Do.	-	Clay pebble zones in basal sediments	-	-	-
27	-	Hoskinnini No. 1	36°57.8'	110°22.8'	N.65°W.	250(I)	75	Do.	Coarse grained	-	-	Do.	Positive	None	Limonite, hydromica	Silicified wood	-	-	May aline with channel no. 28
28	-	Crescent	36°57.5'	110°22.2'	N.45°W.	150(I)	50	Crossbedded sandstone	Medium grained	-	-	Do.	Positive	None	Malachite, limonite	Plant matter, silicified wood	-	-	May aline with channel no. 27
29	Ramp	-	36°57.3'	110°21.4'	N.10°W.	50(N)	20	Do.	Do.	-	-	Do.	None	None	Malachite, limonite	Silicified wood	-	-	-
30	-	-	36°56.7'	110°26.9'	N-S	175(I)	20	Lenticular sandstone	Coarse grained	1 foot	2 inches	None	None	None	-	-	-	-	-
31	-	-	36°56.0'	110°26.1'	N-S	10(N)	-	Massive sandstone	Medium grained	-	3 feet	Do.	Do.	Do.	Marcasite concretions, limonite, jarosite	Charred wood	-	-	-
32	-	-	36°59.9'	110°14.2'	N.65°E.	25(N)	15	Do.	Do.	-	3 feet	Do.	Do.	Do.	Limonite	Silicified wood	-	-	-
33	-	-	36°59.9'	110°14.3'	N.27°E.	15(N)	8	Lenticular sandstone	Do.	-	1 foot	Do.	Do.	Do.	-	Silicified wood	-	-	-
34	-	Triangle	36°59.3'	110°15.0'	N.65°E.	200(I)	50	Massive sandstone	Do.	-	-	Do.	Positive	None	Secondary copper minerals, limonite	-	-	-	-
35	-	-	36°58.9'	110°15.6'	N.35°W.	250(I)	30	Do.	Do.	4 feet	4 feet?	Do.	None	None	Limonite, jarosite	Silicified wood; plant matter	-	-	-
36	Monument No. 1	Monument No. 1	36°57.4'	110°14.0'	N.10°W.	250(I)	50	Do.	Do.	2 feet	5 feet	Carnotite	Positive	Positive	Secondary copper minerals	Clay pebbles; silicified wood	Abandoned	-	See text
37	Koley Black group		Center of group - 36°48.7'	110°09.3'	N.35°W.	80-100(I)	25	Lenticular sandstone	Coarse grained	-	1 foot	None	None	10 times background	Do.	Silicified wood	-	-	See text
38	Do.	-	Do.	Do.	N.45°W.	80(I)	-	Do.	Do.	-	1 foot	Do.	Do.	None	Limonite, jarosite	-	-	-	Do.
39	Do.	-	Do.	Do.	N.44°W.	50(N)	5-10	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	Do.
40	Do.	-	Do.	Do.	N.44°W.	50(N)	5-10	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	Do.
41	Do.	-	Do.	Do.	N.44°W.	50(N)	5-10	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	Do.
42	Do.	-	Do.	Do.	N.20°W.	35 (N)	20	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	Alines with channel no. 46
43	Do.	-	Do.	Do.	N.45°W.	110(I)	30	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	See text; Alines with channel no. 47
44	Do.	Sheep	Do.	Do.	N.45°W.	35(N)	25	Massive sandstone	Do.	-	6 inches	Do.	Positive	10 times background scintillometer	Secondary copper minerals, limonite	Silicified wood; charred wood	B. Maher	Kayenta, Ariz.	See text
45	Do.	Cold (Cold Mesa)	Do.	Do.	N.52°W.	270(I)	30	Do.	Do.	6 inches	1 foot	Do.	Positive	10 times background scintillometer	Malachite, azurite, limonite	Do.	Do.	Do.	See text
46	Do.	-	Do.	Do.	N.20°W.	35(N)	20	Do.	Do.	-	1 foot	Do.	None	None	Limonite	-	-	-	See text; Alines with channel no. 42
47	Do.	-	Do.	Do.	N.45°W.	110(I)	30	Do.	Do.	-	1 foot	Do.	Do.	Do.	-	-	-	-	See text; Alines with channel no. 43
48	Route No. 1	Dike	36°53.3'	110°14.8'	N-S	150(I)	30	Do.	Do.	-	-	Do.	Positive	3 times background scintillometer	Limonite	-	-	-	Anomaly due to igneous dike
49	Mystery Valley No. 1	-	36°51.0'	110°11.7'	N.50°W.	150(I)	16	Do.	Medium to coarse grained	1 foot	2-3 feet	Do.	None	None	-	-	-	-	-
50	Mitchell Mesa No. 2	-	36°57.9'	110°06.9'	N.70°W.	350?(I)	50	Do.	Do.	-	1 foot	Do.	Do.	Do.	Limonite, jarosite	Silicified wood, plant matter, hydromica	-	-	May aline with channel no. 51
51	Mitchell Mesa No. 1	-	36°57.8'	110°06.5'	N.55°W.	350(I)	75	Do.	Fine to medium grained	1 foot	4 feet	Tyuyamunite	Do.	10 times background Geiger counter	Secondary copper minerals	Silicified wood, plant matter	H. Binoli	Gouldings, Utah	May aline with channel no. 50
52	Mitchell Mesa No. 3	-	36°57.8'	110°07.8'	N.82°E.	300(I)	70	Crossbedded sandstone	Medium grained	1 foot	3-6 feet	None	None	2 times background	Vanadium minerals, limonite, malachite	Silicified wood	-	-	-
53	-	-	36°51.8'	110°10.1'	N.85°W.	70-80(I)	15	Massive sandstone	Do.	-	-	Do.	Positive	None	Limonite	Silicified wood	-	-	-
54	Mystery Valley No. 2	-	36°51.7'	110°08.9'	N.75°E.?	50(N)	20	Lenticular sandstone	Coarse grained	-	-	Do.	None	None	Malachite, azurite	-	-	-	-
55	Jack Brodie	Brodie Nos. 4 -5	36°51.4'	110°04.9'	N.85°E.	150(I)	20	Do.	Medium grained	-	1-1/2 feet	Carnotite?	Do.	2 times background Geiger counter	Secondary copper minerals	Silicified wood	R. C. Cutter	Grand Junction, Colo.	-
56	Hunts Mesa No. 2	-	36°53.9'	110°03.7'	N.82°E.	50(N)	20	Crossbedded sandstone	Do.	-	2 feet	Carnotite	Positive	Positive	See text	Silicified wood; clay pebbles; charred wood	Do.	Do.	See text
57	Hunts Mesa No. 1	-	36°53.8'	110°02.8'	E-W	300(I)	50	Massive sandstone	Do.	-	6 feet	Do.	Positive	Positive	Do.	Silicified wood; plant matter	Do.	Do.	Do.
58	Monument No. 2	Monument No. 2	36°55.7'	109°53.1'	N.18°W.	400-700(B)	50	See Text		-	2 feet	See text	Positive	Positive	Do.	See text	See text	-	Do.
59	Cuesta	-	36°56.5'	109°52.9'	N.25°W.	300(I)	20	Crossbedded sandstone	-	1-1/2 feet	3 feet	None	None	None	-	Silicified wood	-	-	-
60	-	-	36°57.8'	110°21.0'	N.55°W.	150(I)	25	Do.	Conglomeratic sandstone	1 foot	2-3 feet	None	None	2 times background	-	-	-	-	-
61	-	-	36°58.9'	110°16.4'	N.67°E.	300(I)	40	Do.	Do.	1 foot	3-4 feet	None	None	None	Limonite, jarosite	Silicified wood	-	-	-
62	-	-	36°54.4'	110°07.8'	N.50°W.	300(I)	20	Lenticular sandstone	Medium grained	-	-	None	None	None	Limonite, jarosite	Asphaltic matter	-	-	-

/ Width of channels: (N) - Narrow (As much as 50 feet wide); (I) -Intermediate (50-350 feet wide); and (B) - Broad (350-2,300 feet wide).