

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHEMICAL ANALYSES OF ROCK AND SOIL SAMPLES FROM THE
CHANDALAR AND EASTERN WISEMAN QUADRANGLES, ALASKA

Compiled by

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Open-file report

1970

This report is preliminary
and has not been edited or
reviewed for conformity with
Geological Survey standards

Table 1

A. Rocks, Nolan-Hammond River area (fig. 2)

Map No	parts per million																												percent				
	Field No	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Nb	Mn	Ni	Pb	Sb	Se	Sn	Sr	V	N	Y	Zn	Zr	Fe	Mg	Ca	Ti			
1	R82A	.15	120	<.42	100	1000	1	L	L	15	100	7	20	L	500	L	20	L	10	15	L	L	200	L	30	34	100	3	1	.1	.2		
2	R82	L	L	L	B	B	B	B	B	B	B	B	B	B	B	B	B	L	6	B	B	B	B	B	B	L	B	B	B	B	B		
3	R83A	.2	L	L	100	1500	1	L	L	15	100	10	50	L	500	L	15	L	10	15	L	L	150	L	20	34	100	3	1	.1	.3		
4	B156	.15	60	L	70	200	L	L	L	15	100	20	30	L	700	L	15	L	6	15	L	L	100	100	L	L	140	70	3	1	.2	.3	
5	59BK129	1.0	80	L	70	200	L	N	N	30	70	100	N	N	3000	N	70	30	70	15	N	L	200	N	20	57	100	7	1	.5	.2		
6	59K149C	4.2	210	L	20	100	L	N	N	5	15	15	N	N	1000	N	30	10	20	7	N	N	70	N	10	35	70	3	.3	L	.1		
7	59K148B	4.2	N10	L	70	700	N	N	N	15	30	7	N	N	5000	N	30	N	5	15	N	N	100	N	L	61	70	5	.3	.5	.2		
8	59K146	1.5	40	L	50	150	N	N	N	50	70	500	50	5	3000	N	70	200	3	10	N	500	100	N	150	49	50	15	1.5	10	.15		
9	59B306	4.2	N	9.2	15	100	N	N	N	L	10	50	N	N	150	N	10	150	1000	L	N	200	10	N	N	L	20	.7	.07	.7	.05		
10	R23	L	1200	L	70	200	L	L	L	10	L	10	L	10	20	L	300	L	7	L	5000	5	L	B	15	L	7	110	30	2	.15	L	.1
11	R23A	.1	1000	.08	15	L	L	L	L	L	10	50	300	L	200	L	7	500	1000	L	L	B	15	L	L	25	L	.1	.03	.5	.02		
12	R24	L	40	L	L	100	L	L	L	L	150	10	L	L	300	L	7	L	50	L	L	B	15	L	L	30	L	.2	L	L	.03		
13	R25	.2	L	.02	70	500	L	L	L	10	L	15	20	L	500	L	15	L	50	L	L	B	50	L	20	140	70	2	.5	L	.15		
14	R25A	L	80	L	L	L	L	L	L	1	L	20	5	L	300	L	5	L	50	L	L	B	10	L	L	25	L	.5	.02	L	.01		
15	R25C	.15	60	.02	L	100	L	L	L	10	70	15	L	L	300	L	5	L	45	L	L	B	L	L	L	50	L	.5	.03	L	.05		
16	R25D	.1	.02	70	300	L	L	L	L	L	10	20	L	L	3000	L	15	L	20	15	L	B	70	L	50	130	70	3	.3	.3	.15		
17	R25E	L	10	.04	L	L	L	L	L	10	20	5	20	L	300	L	2	L	45	L	L	B	10	L	L	33	L	L	.02	L	.01		
18	R25G	L	30	.02	20	150	L	L	L	L	30	15	L	L	500	L	15	L	20	10	L	B	50	L	15	45	50	2	.7	.05	.15		
19	R26A	L	40	L	10	100	L	L	L	L	50	10	20	L	200	L	10	L	20	L	L	B	15	L	L	L	L	.2	.03	L	.05		
20	R26B	L	L	L	70	300	15	L	L	10	30	20	20	L	100	L	10	L	6	15	L	L	100	L	20	85	70	2	.3	L	.15		
21	R27B	.1	60	L	L	100	L	L	L	L	20	20	L	L	500	L	5	L	10	L	L	L	20	L	L	25	L	.5	.02	L	.02		
22	R27D	.4	20	L	10	L	L	L	L	L	5	30	L	L	700	L	5	L	6	L	L	L	100	20	L	10	30	L	.7	.3	.3	.03	
23	R27F	.4	60	97	20	200	L	L	L	L	10	10	20	L	500	L	10	L	15	10	L	L	70	L	5	50	30	2	.3	L	.15		
24	R27E	.5	10	L	10	L	L	L	L	L	L	30	20	L	300	L	10	L	40	L	L	L	20	L	5	35	L	.7	.3	.15	.05		
25	R28	2.9	240	.06	L	L	L	L	L	L	L	L	L	L	300	L	5	L	300	L	L	L	20	L	L	110	L	.5	.03	L	.15		
26	R29A	.25	20	L	70	150	L	L	L	10	20	15	L	L	500	L	15	L	35	10	L	L	30	L	10	43	50	15	.7	L	.2		
27	R30A	L	10	L	L	L	L	L	L	L	5	30	L	L	30	L	L	L	3	L	L	L	15	L	L	25	L	L	.03	L	.025		
28	R30	.1	60	L	20	L	L	L	L	L	15	20	L	L	500	L	15	L	15	5	L	L	50	L	10	40	50	15	.3	L	.15		
29	B43C1	.15	100	.04	50	200	L	L	L	L	L	30	500	L	300	L	10	150	1000	5	L	300	70	L	5	L	L	1	1	.15	.1		
30	B43B1	.15	100	.04	15	L	L	L	L	L	L	30	700	L	200	L	L	500	1000	L	L	L	30	L	L	L	L	L	L	L	.07	.02	
31	B43B	L	80	.03	100	500	L	L	L	10	70	20	30	L	1000	L	15	L	700	15	L	L	300	150	L	50	70	100	3	.3	.05	.2	
32	B43A	.1	30	.05	100	500	L	L	L	10	15	15	30	L	1000	L	20	L	300	15	L	L	150	L	50	53	70	3	.3	.07	.15		
33	B39A4	L	15	.04	15	150	L	L	L	L	L	10	50	5	1500	L	5	10	10	L	L	L	70	L	5	L	L	.7	.1	L	.1		
34	B39A3	L	30	L	50	300	L	L	L	20	50	15	30	L	500	L	15	L	3	20	L	L	150	L	50	53	70	3	.3	L	.2		
35	B39A2	.25	80	L	50	300	L	L	L	15	20	10	20	L	L	L	10	10	15	L	L	100	L	15	43	50	3	.7	.7	.15	.15		
36	B40B	.4	L	L	L	L	L	L	L	L	L	L	L	L	200	L	L	15	L	L	L	20	L	L	25	L	.7	.03	.15	.002			
37	B40	L	40	L	10	L	L	L	L	L	L	5	L	L	300	L	10	L	5	L	L	L	30	L	L	L	L	.2	.03	L	.05		
38	B41B	L	10	L	50	L	L	L	L	L	10	20	L	500	L	5	L	50	L	L	L	L	30	L	L	25	L	.3	.05	L	.01		
39	B41A	.15	80	L	50	200	L	L	L	L	50	15	20	L	300	L	15	L	15	7	L	L	200	L	10	53	L	.5	.2	L	.15		
40	B42A	.5	60	L	200	300	L	L	L	10	100	20	30	L	1500	L	15	L	150	15	L	L	200	200	L	10	45	70	3	1	3	.2	

Table 1

A. (cont'd) Rocks, Nolan-Hammond River area (fig. 2)

		parts per million																								percent					
Map No	Field No	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti
41	B42	15	80	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42	B45	15	80	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43	B38C	1	80	0.3	200	700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44	B38D	1	200	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45	B38E	2	150	0.6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46	B38G	1	100	0.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47	B38H	1	120	0.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	B38J	1	150	0.2	70	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	B38B	15	40	0.3	100	150	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50	B38A	1	20	0.3	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51	B342	15	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52	B341	1	240	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	B348	1	20	0.2	20	700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54	B36A	15	40	0.5	70	200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55	B37D	1	60	0.2	1	150	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56	B37C	1	1	1	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57	B37A	1	20	1	50	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58	R.59	1	20	0.2	70	200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

B. Rocks, Chandalar area (fig. 3)

		parts per million																								percent					
Map No.	Field No.	As	Al	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti	
59	B4A	.4	160	1	50	500	15	1	1	1	70	10	20	10	500	1	5	15	4	15	1	1	100	1	7	30	100	5	.7	15	.2
60	B4B	.1	10	1	1	1	1	1	1	1	3	1	1	200	1	5	1	2	1	1	1	100	10	1	1	1	1	.5	.15	.07	.05
61	R10D	.3	40	1	70	300	1	1	1	1	20	50	10	1	300	1	15	1	1	10	1	100	70	1	5	65	100	3	.7	15	.3
62	R21B	.35	30	1	30	100	1	1	1	1	30	50	15	70	1	300	1	30	1	2	10	1	100	1	20	85	50	2	.5	1	.15
63	60 B176	.2	1500	.4	1	1	1	1	1	1	3	N	1	10	1	N	15	1	1	N	N	N	1	N	N	1	N	.2	1	1	.002
64	60 B180	.5	400	.7	1	1	1	1	1	1	5	N	1	1	1	N	20	15	N	N	N	1	N	N	1	N	1	1	1	1	.001
65	B24A	.15	1	1	30	500	1	1	1	1	70	30	30	1	300	1	15	1	4	15	1	1	70	1	15	70	70	2	.7	15	.3
66	B48F	.25	20	1	70	100	1	1	1	1	10	100	20	1	300	1	15	20	8	1	1	100	1	20	46	70	15	1	15	.2	
67	B48C	.2	160	.06	70	200	1	1	1	1	20	15	50	1	300	1	20	30	6	1	1	100	30	1	15	25	1	15	.7	.7	.1
68	B48	.1	30	.06	15	500	3	1	1	1	15	20	20	20	500	1	15	15	6	10	1	500	30	1	7	25	1	2	.7	.2	.15
69	B47	.1	20	.3	30	300	1	1	1	1	1	10	1	200	1	1	1	6	1	1	1	50	1	7	100	15	3	.1	1	.1	
70	B46D	.15	200	.18	15	200	1	1	1	1	1	10	20	1	20	1	1	15	1	1	1	30	1	5	25	1	15	.07	1	.05	
71	B44J	6.0	200	188	1	1	1	1	1	1	10	1	1	200	1	1	700	100	1	1	1	15	1	1	200	1	1	.07	1	.015	
72	B45C	.5	800	20	1	1	1	1	1	1	15	1	5	1	300	1	50	1	20	1	1	20	1	50	90	1	15	.1	1	.01	
73	B44C	1	10	1	1	1	1	1	1	1	1	2	1	70	1	3	1	5	1	1	1	20	1	1	1	1	1	1	.05	.07	.003
74	B11C	.2	20	1	15	100	1	1	1	1	20	70	20	70	300	1	70	1	100	10	1	150	1	20	62	100	2	.7	15	.2	
75	B11B	.5	20	1	1	1	1	1	1	1	70	7	1	100	1	15	1	2	5	1	1	50	1	20	150	15	.7	10	15		
76	B6A	.75	2000	.392	20	1	1	1	1	1	10	1	30	50	3	300	1	30	10	1	1	10	1	20	25	1	.7	1	1	.03	
77	B7A	1	600	.08	10	1	1	1	1	1	10	10	30	50	3	300	1	10	4	1	1	20	1	20	300	100	7	.03	1	.03	
78	B7F	7.2	800	1	10	1	1	1	1	1	15	1	200	30	5	100	1	700	60	5	1	20	1	10	100	1	.7	.1	1	.003	
79	B31B	.2	30	1	10	300	1	1	1	1	20	500	50	1	700	1	70	1	5	50	1	100	150	1	1	75	100	10	15	15	.7
80	B31	1	1	1	1	1	1	1	1	1	1	50	1	200	1	7	1	8	15	1	1	30	1	1	25	1	.02	.3	.5	.02	
81	R54A	.15	20	1	10	100	1	1	1	1	1	7	30	1	50	1	10	1	6	1	1	30	1	7	40	30	.7	.2	.05	.05	
82	R54C	.3	60	1	70	700	1	1	1	1	70	30	70	1	200	1	15	1	15	15	1	100	100	1	15	50	70	3	.7	1	.15
83	R51A	1	10	1	1	1	1	1	1	1	1	2	1	15	1	1	1	3	1	1	1	1	1	1	1	25	1	.07	.03	1	.015
84	59 B577	N	20	.06	N	30	N	N	N	N	N	N	1	N	50	N	1	N	1	N	N	N	1	N	N	N	N	.2	1	1	.001
85	R31C	.2	40	1	30	700	15	1	1	1	10	100	10	20	300	1	15	10	6	15	1	100	100	1	20	65	100	3	1	15	.2
86	R34	1	20	1	30	200	1	1	1	1	1	1	1	1	30	1	2	1	10	1	1	10	1	1	25	1	.5	.03	1	.05	
87	R35	1	10	1	30	1500	1	1	1	1	1	5	30	1	200	1	1	6	1	1	1	15	1	1	25	1	.1	.03	1	.03	
88	R43B	.15	20	1	30	300	1	1	1	1	30	15	20	1	200	1	15	1	4	15	1	1	70	1	5	65	50	3	1	1	.2
89	R44B	.25	20	1	50	100	1	1	1	1	50	20	20	1	200	1	15	15	4	20	1	1	150	1	5	60	100	5	1	.05	.5
90	59 B574	.3	20	.02	10	50	N	N	N	N	N	5	1	N	70	N	2	N	2	N	N	N	10	N	N	1	1	5	.1	.05	.15

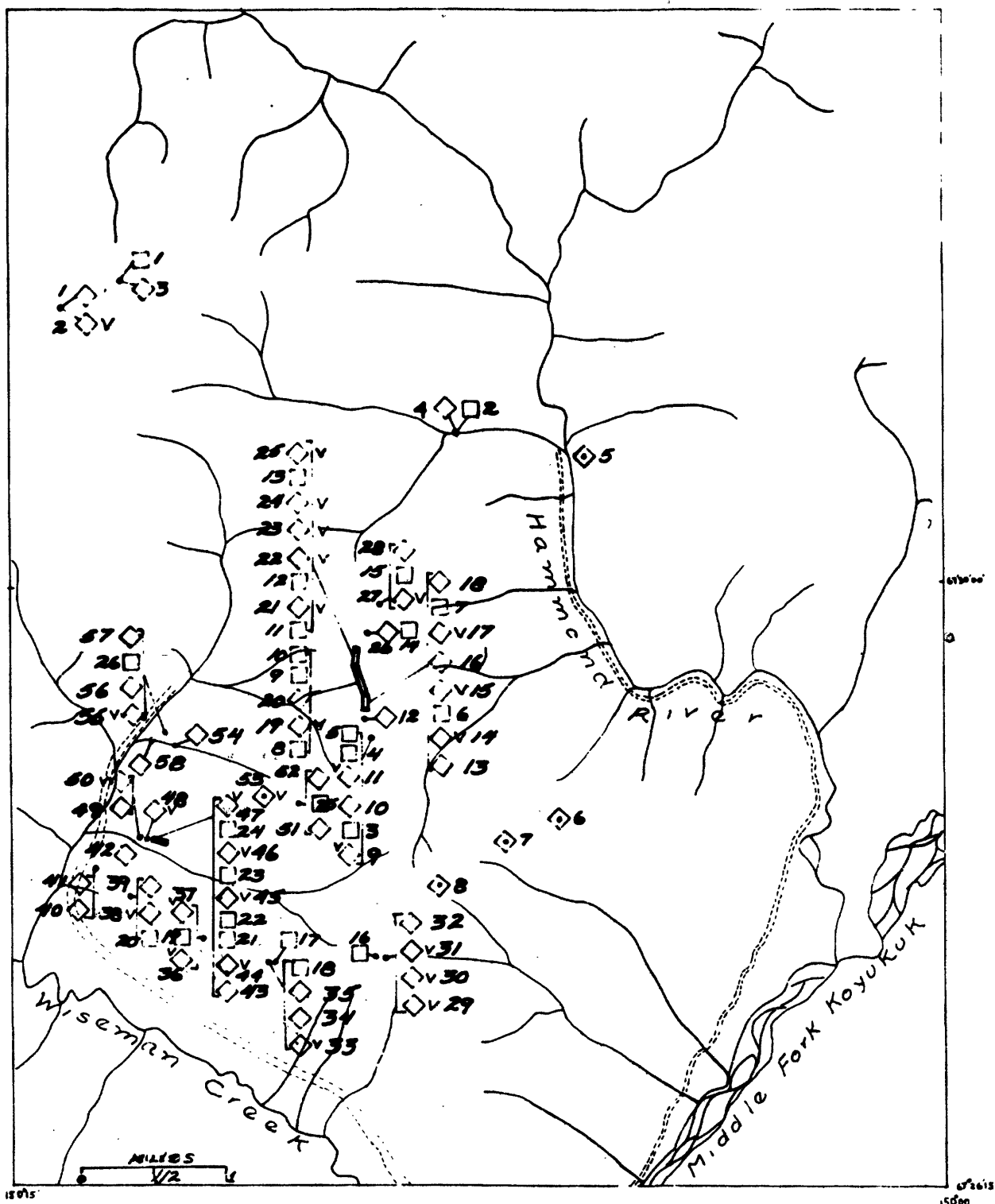
C. Rocks, Wiserman - Chandalor region (Fig. 1)

		parts per million																										percent							
Map No	Field No.	As	Ag	Al	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Mn	Nb	Ni	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Fe	Mg	Ca	Ti				
91	59	B353	5	5	20	150	3	1	1	1	1	1	1	3	30	100	1	20	5	1	7	50	1	70	8	200	2	.03	.03	.03					
92	60	R227	.5	40	20	300	15	1	1	1	1	1	1	5	50	10	20	N	30	N	20	20	500	15	N	300	200	1	20	57	150	1	.1	.3	.5
93	R918	.4	1	1	100	300	1	1	1	1	1	1	1	10	70	50	20	1	700	1	15	300	2	15	1	120	150	1	20	50	70	3	1	1	.2
94	R84	.25	1	1	15	100	1	1	1	1	1	1	1	15	5	70	1	300	1	7	1	15	1	1	1	30	1	20	1	1	1	1	.5	.3	.5
95	R651	.35	10	1	1	200	1	1	1	1	1	1	1	7	20	1	300	1	5	1	1	1	1	1	1	150	50	1	20	1	1	1	.5	.3	.015
96	59	B315	19	40	10	20	N	N	N	5	1	1	1	700	N	N	200	1	5	70	300	N	N	N	1	N	N	150	N	.7	1	2	1		
97	59	B473	.4	10	.04	20	N	N	N	N	1	1	1	15	N	N	30	1	1	N	1	N	N	1	N	N	1	N	1	N	.02	1	1		
98	59	B472	.3	20	.06	N	20	N	N	N	N	3	N	N	50	1	1	70	1	N	N	1	N	N	1	N	1	N	1	1	1	1	1	.007	
99	59	B465	.7	20	.02	300	20	2	N	N	10	15	30	N	N	700	1	10	N	5	10	N	200	150	N	20	1	70	3	.1	5	.3			
100	59	R191	1	160	1	1	N	N	N	N	1	10	50	N	7	150	15	10	1	4	5	N	N	30	N	N	1	N	1	1	3	.02	1	.1	
101	59	R192	1.4	60	1	1	20	1	N	N	1	30	1	N	N	300	N	15	10	2	20	N	150	100	N	30	42	50	10	5	15	.5			
102	59	B523	.4	1	.04	N	50	1	N	N	7	5	150	N	N	N	50	N	10	1	3	N	N	N	20	N	N	54	N	.5	.5	.2	.01		
103	59	B520	.8	30	.06	N	50	N	N	N	1	50	N	N	100	1	1	15	30	N	N	N	1	N	N	1	N	1	1	1	.15	.03	.3	.01	
104	60	B79C	1.0	5	50	100	1	1	1	1	1	5	30	30	1	1	200	15	20	10	5	10	1	30	50	N	30	5	100	1.5	.2	.7	.3		
105	60	R115	5	5	.03	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
106	60	B321	2	30	.04	1	100	N	N	N	7	30	30	N	15	100	1	30	30	2	10	N	100	50	N	15	1	100	3	1.5	5	.2			
107	60	B292	1.2	10	.08	20	300	1	N	N	20	100	500	N	N	700	10	30	200	4	20	N	N	100	N	15	1	200	5	.7	1.5	.5			
108	60	B292	.8	10	.1	10	150	N	N	N	30	30	10	N	N	300	1	30	10	2	7	N	N	50	N	1	27	70	3	.5	1	.15			
109	R146	1.1	200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
110	60	B975	N	5	.08	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
111	60	B975	1.2	10	.56	N	30	N	N	N	1	2	N	N	30	1	N	100	2	N	N	N	15	1	N	15	1	N	1	2	.03	.2	.007		
112	R158	37	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
113	R158	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
114	60	B211	.2	300	.08	N	1	N	N	N	1	3	N	N	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115	59	R565	1.4	10	.04	30	70	N	N	N	15	100	500	N	N	300	1	50	1	20	20	N	N	100	N	15	64	70	5	1.5	5	.5			
116	59	B559	.8	40	.04	N	30	N	N	N	5	7	5	N	N	30	1	15	15	1	N	N	N	10	N	1	N	1	20	1	1	1	1	1	1
117	59	B556	.8	70	.02	N	20	2	N	N	7	10	15	N	N	300	N	30	20	2	N	N	300	20	N	N	78	1	2	.5	.2	.007			
118	60	B510	1.3	300	3.6	1	20	1	1	1	1	1	10	N	N	70	1	2	20	5	N	N	N	15	N	1	1	1	1	1	1	1	1	1	
119	R123	4	1	1	100	300	1	1	1	1	1	1	15	70	20	30	1	15	20	5	1	1	1	1	1	100	1	20	60	150	2	.3	.1	.3	
120	R173	.25	10	1	50	300	1	1	1	1	1	1	30	20	1	1	200	1	150	10	10	1	1	1	1	200	1	20	1	100	1.5	.3	.7	.15	
121	R170B	.1	20	.02	50	100	1	1	1	1	1	1	1	10	1	1	300	1	50	1	10	15	1	1	1	200	1	15	50	150	3	.7	1.5	.3	
122	R171	1	10	.03	10	100	1	1	1	1	1	1	1	1	1	1	200	1	1	1	1	1	1	1	1	30	1	1	1	1	1	1	1	1	
123	R170	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	1	1	1	1	1	1	1	1	
124	R158	1	80	1	1	1	1	1	1	1	1	1	500	7	20	1	70	1	1	1	1	1	1	1	1	30	1	1	1	1	1	1	1	1	
125	R168	.2	30	1	100	500	1	1	1	1	1	1	20	1	70	100	1	500	20	100	10	6	15	1	1	300	200	1	20	1	200	3	.15	.07	10
126	R168	1	160	1	50	700	1	1	1	1	1	1	50	15	20	1	300	1	15	1	6	7	1	1	1	150	1	15	25	70	1.5	.2	.05	.15	
127	R166	4	1	1	20	1	1	1	1	1	1	1	1	15	30	1	300	1	7	1	4	1	1	1	1	200	20	1	5	1	1	1	1	1	
128	R166	1	40	1	1	1	1	1	1	1	1	1	1	7	30	1	100	1	5	1	2	1	1	1	1	20	1	1	1	1	1	1	1	1	
129	R167B	1	15	.02	10	1	1	1	1	1	1	1	1	7	20	1	150	1	2	1	2	1	1	1	1	20	1	1	1	1	1	1	1	1	
130	R167C	1	15	1	70	1	1	1	1	1	1	1	70	7	30	1	300	1	2	1	4	1	1	1	1	30	1	1	1	1	1	1	1	1	
131	R167E	1	10	.02	1	1	1	1	1	1	1	1	1	7	20	1	70	1	1	1	2	1	1	1	1	30	1	1	1	1	1	1	1	1	
132	R167	1	10	1	1	1	1	1	1	1	1	1	150	20	30	1	150	1	5	1	3	1	1	1	1	300	20	1	1	1	1	1	1	1	

C. Soils, Wiseman-Chandalar region (fig. 1)

		parts per million																				percent										
Map No	Field No	Al	Ag	As	Au	B	Be	Bi	Ca	Co	Cr	Cu	La	Mo	Mn	Nb	Ni	Pb	Sb	Se	Sn	Sr	Y	Zn	Zr	Fe	Mg	Ca	Ti			
69	59	B350	.4	60	<	50	700	2	<	<	15	7	50	15	50	30	<	30	300	<	10	<	15	<	100	<	500	7	.1	.05	.15	
70		R84A	.3	10	<	150	500	1	<	<	15	70	15	30	<	700	<	15	20	3	15	<	200	150	<	30	95	100	3	1	.3	
71	60	R259	.6	B	<	10	500	5	<	B	<	10	100	150	5	1000	B	10	100	B	<	70	30	<	20	B	300	15	.2	.1	.2	
72		R158	<	40	<	50	500	1.5	<	<	20	15	<	<	300	<	15	<	5	30	<	100	70	<	50	30	150	2	.7	.7	.15	
73		R138	.4	800	.26	30	300	1	<	<	70	15	50	<	300	<	20	<	8	15	<	<	70	<	10	80	150	2	.3	.3	.2	
74		R167A	.15	20	<	100	1000	1	<	<	15	<	50	70	<	300	20	20	30	4	15	<	100	300	<	30	50	200	3	1	.15	.5
75		R167D	.4	42.04	<	700	<	<	<	<	<	<	30	30	<	300	<	15	20	8	10	<	150	200	<	30	58	100	2	.7	.15	.3

**U.S. GEOLOGICAL SURVEY
OPEN FILE MAP**



*Fig 2 Rock and soil sample localities
in Nolan-Hammond River area*

- ◊ Rock sample; V indicates vein sample
- ◻ Soil sample

This map is preliminary and has not
been reviewed for conformity with
U.S. Geological Survey standards
and nomenclature.