

DISTRICT	Elko County General - see back
DIST_NO	0050 - see back
COUNTY	Elko
If different from written on document	
TITLE	Elko County Age-Date Samples
If not obvious	
AUTHOR	Moore, W; Hedge, C.
DATE OF DOC(S)	1981
MULTI_DIST Y / N?	see back
Additional Dist_Nos:	
QUAD_NAME	Currie 7 1/2' - see back
P_M_C_NAME	
(mine, claim & company names)	
COMMODITY	
If not obvious	
NOTES	List of age date samples; location maps; correspondence; Coats donation
	2 p. oversized plate

Keep docs at about 250 pages if no oversized maps attached (for every 1 oversized page (>11x17) with text reduce the amount of pages by ~25)

SS:	DD	12/12/08
	Initials	Date
DB:		
	Initials	Date
SCANNED:	MT	12.23.09
	Initials	Date

District	District No.	ID No.	Quad
Delker	1400	60002316	Delker Buttes $7\frac{1}{2}'$ Silo Canyon $7\frac{1}{2}'$
Dolly Varden	1540	60002317	Dolly Varden Spring $7\frac{1}{2}'$ Sharp Peak $7\frac{1}{2}'$
Ferber	1820	60002318	Ferber Peak $7\frac{1}{2}'$
Kinsley	2660	60002319	Boone Canyon $7\frac{1}{2}'$
White Horse	5280	60002320	White Horse Mountain $7\frac{1}{2}'$

Branch of Western Mineral Resources
345 Middlefield Road Mail Stop 41
Menlo Park, California 94025

November 2, 1981

Carl E. Hedge
Branch of Isotope Geology MS-963
Federal Center
Box 25046
Denver, Colorado 80225

Dear Carl:

I finally got the samples from southern Elko County together and have shipped them along with Peter Nabelek's rocks and mineral separates from the Notch Peak intrusion in the House Range. We thus have essentially complete coverage of major Phanerozoic plutons in the area bounded by 39°N - 41°N and $111^{\circ}30'\text{W}$ - $115^{\circ}00'\text{W}$. Two Laramide(?) plutons from Big Cottonwood Canyon in the Central Wasatch Mountains may be supplied by Larry James in a few months.

As for the Elko County rocks (see enclosed location map and sample list), the only pluton we didn't get to east of Ruby Valley is in the northern end of the Spruce Mountains, and the only area where the rocks are unsuitable for analytical work is the northern Medicine Range (southwest of Delcer Buttes). The plutons are notably confined to a narrow belt that extends west-northwestward from Gold Hill.

Before running 81-WM-13 (Melrose stock), check to see if you already have analyses ~~data~~ for material submitted by Bill Atkinson of Anaconda/University of Colorado. Nabelek's granite, 79-NP 37-2 whole rock, would appear to be the best sample to start with as it represents the largest intrusive unit (see his maps, etc.); the S-type affinities of the Notch Peak body may help us understand the parentage of the Gold Hill pluton.

Bob Coats kindly provided the map, which has not yet been released, so please keep it for your own use; he'll be getting an information copy of this letter. If you're able to run any of the samples before the county report goes to the printer, he'd be delighted to hear from you.

Hope you have a productive field season in Saudi. Be sure to leave a sampling status map with Jim Cole, and I'll do what I can to fill in the holes.

Cheers,

William J. Moore

cc: MRRF
MPRF
Moore
JMoore:sg

Enclosure

*Thanks, Bob -
We'll keep you
posted
Bill*

Plutonic rocks of the Unita-Oquirrh and Tintic-Deep
Creek mineral belts, eastern Elko County, Nevada

<u>Sample Number</u>	<u>Rock type, location age</u>
81-WM-8	Hornblende-biotite quartz monzonite; Delcer Buttes; 149 m.y. and 153 m.y.;
81-WM-13	Hornblende-biotite quartz monzonite of Melrose stock; West-Central Dolly Varden Mountains, Victoria mine; 154 m.y. and 134 m.y. (132 m.y. sercite);
81-WM-16	Biotite monzonite porphyry: east flanks Dolly Varden Mountains; date pending--Cretaceous?;
81-WM-18	Biotite-hornblende quartz monzonite of Whitehorse stock; south end of Coshute Mountains; 156 m.y.
81-WM-19	Fine-grained leucocratic variant (?) of Delcer Buttes q.u; south end of West Buttes; date pending--could be post-Jurassic;
81-WM-23	Hornblende-biotite quartz monzonite porphyry; 7.5 miles due north of Curry, NV; date pending--Cretaceous?
81-WM-24	Biotite-hornblende granodiorite of Kingsley stock; south end of Kingsley Mountains: 35 m.y.;
81-WM-25	Biotite granodiorite, aplitic porphyry; central Ferber Hills, 40°15' N, on UT-NV state line; date pending--Cretaceous?

81-WM-25

81-WM-24

81-WM-18

81-WM-16

81-WM-13

81-WM-23

81-WM-19

81-WM-8

2000 000

81-WM-25

30

WENDOVER

AIR

FORCE

RANGE

SALT FLATS

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

WENDOVER

AF AUX

2:200000 FEET (EAST)

NEVADA

ALKALI FLAT

VALLEY

INDEPENDENCE

VALLEY

VALLEY

REFUGEE
WILDLIFE
NATIONAL
LAKE

VALLEY