3260 0023 Hot Ash Group

URANIUM-OCCURRENCE REPORT

Quad Name A90< Wells Item 23 >

Quad Scale A100< 2,5,0,0,0,0 >

Deposit No. B40< 9 >

Deposit Name A10 < North and South Ground Hog Claims >

Synonym Name(s) A11 < Hot Ash Group (1-9) Dennis Claims >

District or Area A30 < Mountain City >

Country A40 <U,S> [U,S] State Nevada

State Code A50 <3,2> [3,2] County A60 < Elko >
(Enter code twice from List D)

Position from Prominent Locality A82 < 1.2 miles northeast of Bieroth Ranch.

Field Checked G1 <7,9|0,7> By G2< Proffitt Quade Witzel, Jerry Jack Frank, L. >
Yr Mo Last name First Initial

Latitude A70 <4,1|5,0|2,3 N> Longitude A80 <1,1,5|5,2|1,2 W>
Deg Min Sec Deg Min Sec

Township A77 <0,4,6 N> Range A78 <0,5,4 E> Section A79 <2,7>
N/S E/W

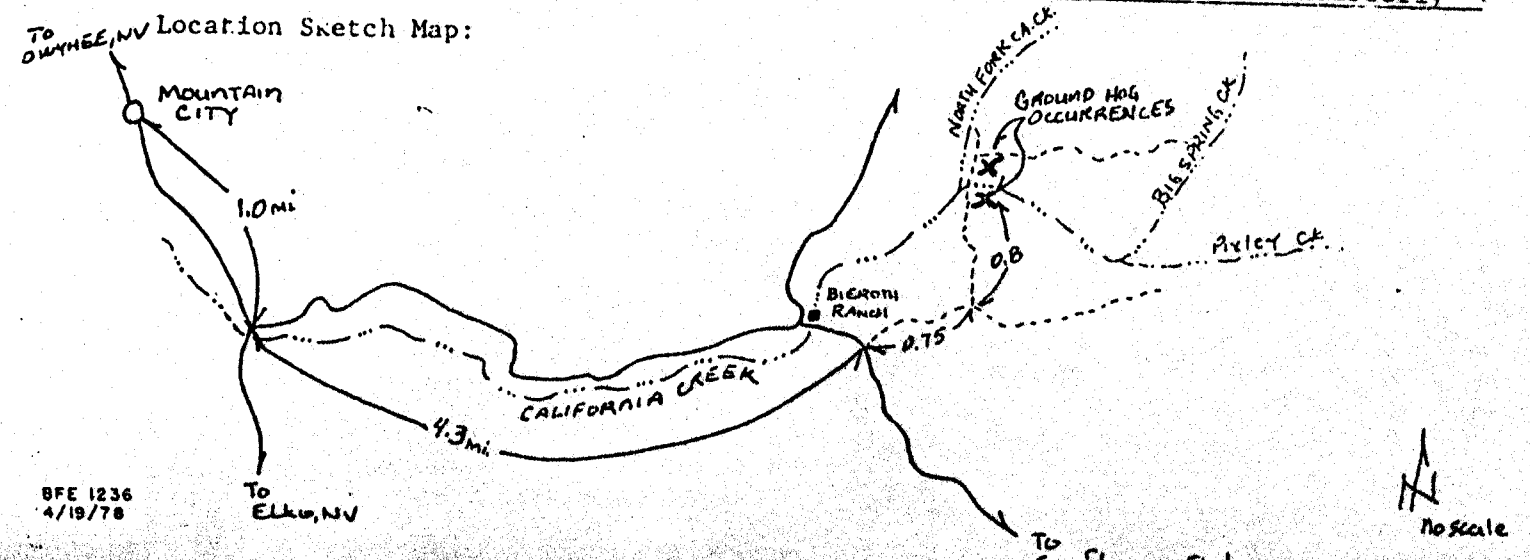
Meridian A81 < Mt. Diablo B & M > Altitude A107 < 5900 FT > FT/M

Quad Scale A91 <0,0,6,2,5,0,0> Quad Name A92 < Mt. City >
(7½' or 15' quad)

Physiographic Province A63 <1,2 | Basin and Range >
(List K)

Location Comments A83 < Proceed 1.0 mile south from the Mt. City Standard Station, then turn east for 4.3 miles on the road to Sunflower Flat. Turn northeasterly >*

Location Sketch Map:



BFE 1236
4/19/78

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Quad Name Wells

Deposit No. 9

Commodities Present:
C10 <U>

Commodities Produced:
MAJOR < > COPROD < >

MINOR < > BYPROD < >

Potential Commodities:
POTEN <U> OCCUR < >

Commodity Comments C50 < >

Status of Exploration and Development A20 < 2 >
(1 = occurrence, 2 = raw prospect, 3 = developed prospect, 4 = producer)

Comments on Exploration and Development L110 <Numerous trenches and access roads and minor drilling with 50 ft. centers. >

Property is A21 (Active) (A22) (Inactive) (Circle appropriate labels)

Workings are M120 (Surface) M130 (Underground) M140 (Both)

Description of Workings M220< >

Cumulative Uranium Production PROD YES (NO) SML MED LGE (circle)

DH2
accuracy thousands of lb. years grade
G7<U|A,C,C> G7A< > G7B<LB> G7C< > G7D< % U308>

Source of Information D9 <U. S. Atomic Energy Commission Production Records, open> *

Production Comments D10 < >

Reserves and Potential Resources

EH
accuracy thousands of lb. year of est. grade
E1<U| > E1A< > E1B<LB> E1C< > E1D< % U308>

Source of Information E7 < >

Comments E8 < >

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Quad Name Wells

Deposit No. 9

Deposit Form/Shape M10 < Pod or lens(?) shaped. >

	FT/M		FT/M
Length M40	< Unknown >	M41	< >
Width M50	< Unknown >	M51	< >
Thickness M60	< Unknown >	M61	< >
Strike M70	< Unknown >		
Dip M80	< Unknown >		

Size M15 (circle letter): lb U308

A 0 - 20,000
B 20,000 - 200,000
C 200,000 - 2 million
D 2 million - 20 million
E More than 20 million

Tectonic Setting N15 < Mobile belt. >

Major Regional Structures N5 < Northern edge of the Basin and Range. >

Local Structures N70 < >

Host-FM. Name U1 < Unnamed. > Member U2 < >

Host Rock K1 < T E R T | Sandstone, conglomerate and ash flow/airfall tuffs, arkosic-andesitic(?), yellow-brown-orange-white, arkosic materials have been altered to clays, iron bearing minerals, oxidized to limonite and hematite, basal tuffs have been devitrified to bentonite(?) clays, most carbon is represented by > *

(Age) (Rock type, texture, composition, color, alteration, attitude, geometry, structure, etc.)

Host-Rock Environment U3 < Sedimentary, fluvial and volcanic, airfall tuffs. >
(Sed. dep. environ., metamorphic facies, ign. environ.)

Comments on Associated Rocks U4 < The underlying quartz monzonite is grussy in the areas where the devitrified tuff (bentonite clay) is observed. It is heavily stained with limonite and hemetite and feldspars are frequently argillized. >

Ore Minerals C30 < Autunite was the only uranium mineral observed. >

Gangue Minerals K4 < Clay, silica. >

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Alteration N75 < Within the arkose feldspars have been altered to clay, iron-bearing minerals altered to limonite or hematite, carbon present was altered to soot, tuffaceous material present is commonly altered to bentonite(?) clay. >

Reductants U5 < Clays present, carbon and iron oxides. >

Analytical Data (General) C43 < >

Radiometric Data (General) U6 < 2 times background (50 x 100 ft.), 10 times background (10 x 15 ft.), 20 times background (5 x 10 ft.). >
(No. times background and dimensions)

Ore Controls K5 < Topographic lows or paleodrainages on the quartz monzonite surface channeled uranium-bearing waters through permeable arkoses and tuffs. These fluids, upon coming in contact with reductants, precipitated the uranium minerals present. >

Deposit Class C40 < Hydroallogenic. > Class No. U7 <5,4,0>

Comments on Geology N85 <This occurrence is very similar to Rim Rock and Pixley to the east and the occurrences Race Track and Hot Spot to the west. However, there is no evidence to suggest they were within the same drainage system. Faulting has disrupted and isolated each of the occurrences and prevents a cursory field examination from establishing a paleochannel joining the occurrences. >

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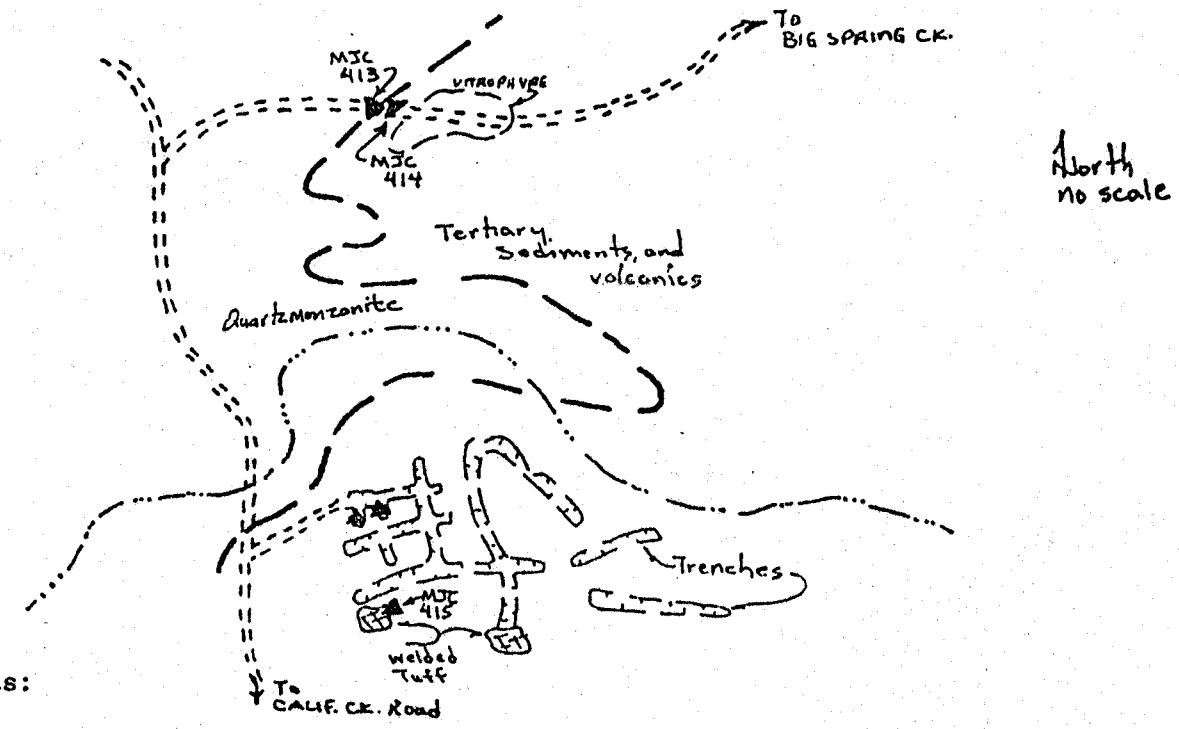
Uranium Analyses:

Sample No.	Sample Description	Uranium Analysis
MJC 413	Grab sample, quartz monzonite, weathered, autunite(?) present.	32 ppm
MJC 414	Grab sample, bentonite clay, carbonaceous.	218 ppm
MJC 415	Grab sample, welded ash tuff, capping unit locally.	26 ppm
MJC 080	Grab sample, sandstone, yellow-green, argillaceous.	1,730 ppm
MJC 081	Channel sample, conglomerate, crs. fraction, arkosic.	150 ppm
MJC 082	Channel sample, conglomerate, fine fraction, arkosic.	253 ppm

Geologic Sketch Map and/or Section, with Sample Locations:



References:

F1 < Garside, L. J., 1973, Radioactive Mineral Occurrences in Nevada, Nevada Bureau of Mines and Geology Bull. 81, 1 pl. >

F2 <

>

F3 <

>

F4 <

>

URANIUM-OCCURRENCE REPORT

Quad Name Wells

Deposit No. 9

Continuation from p. 1-5:

Label

A83 < on an unimproved road for 0.75 miles, then turn northerly for 0.8 miles to the occurrence. >

D9 < filed. >

K1 < soot, locally siliceous. >