3260 0021

(71)

URANIUM-OCCURRENCE REPORT

Quad Name A90< Wells Item 21 >

Quad Scale A100< 1,2,5,0,0,0,0 >

Deposit No. B40< 2 >

Deposit Name A10 < Race Track Mine >

Synonym Name(s) A11 < Lucky Lager Claims, Speedway 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 < 1.1 mile southeast of Mountain City. >

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|4,9|3,8,N> Longitude A80 <1,1,5|5,6|5,5,W>
Deg Min Sec Deg Min Sec

Township A77 <0,4,5|N> Range A78 <0,5,3|E> Section A79 <0,1>
N/S E/W

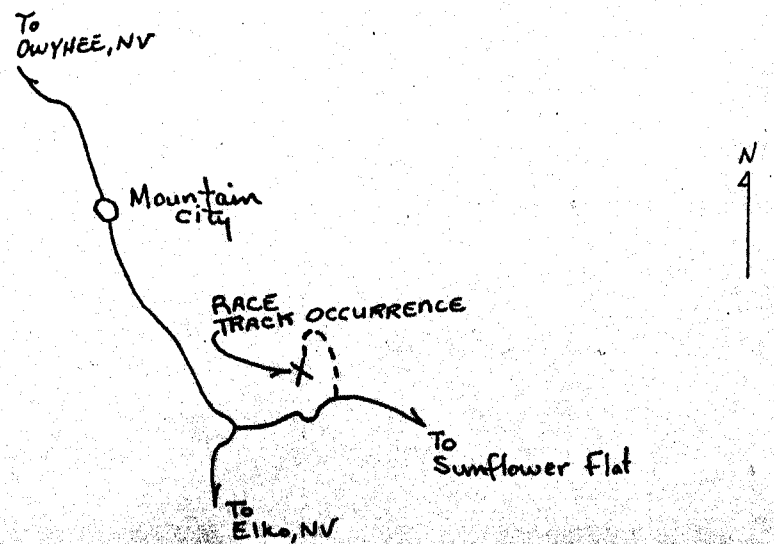
Meridian A81 < Mt. Diablo B & M > Altitude A107 < 5,950 FT > FT/M

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

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

Location Comments A83 < 1.0 mile south of the Mt. City Standard Station, turn east for 0.75 mile, then turn north on a narrow dirt road and follow it 0.3 mile to > *

Location Sketch Map:



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Quad Name Wells

Deposit No. 2

Commodities Present:
C10 <U>

Commodities Produced:
MAJOR <U> 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 <Dozer trenches and two(?) drill holes.>

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

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

Description of Workings M220< Workings consist of one small open pit (80 x 150 x 15 ft.).>

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

DH2
G7<U> accuracy <A,C,C> G7A<0,0,0,0,9,8,6,6> thousands of lb. G7B<LB> G7C< Unknown > years G7D< 0.24 % U3O8> grade

Source of Information D9 <U. S. Atomic Energy Comm. Production Records (open—>*

Production Comments D10 <>

Reserves and Potential Resources

EH
E1<U> accuracy E1A<> thousands of lb. E1B<LB> E1C<> year of est. E1D< % U3O8> grade

Source of Information E7 <>

Comments E8 <>

URANIUM-OCCURRENCE REPORT

Quad Name Wells

Deposit No. 2

Deposit Form/Shape M10 < Irregular pod. >

Length M40 < Unknown > M41 < > FT/M

Width M50 < Unknown > M51 < >

Thickness M60 < Unknown > M61 < >

Strike M70 < N70°E >

Dip M80 < Vertical(?) >

Size M15 (circle letter):

1b 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 province. >

Local Structures N70 < The occurrence is bounded on the east by a vertical fault which has brought Cretaceous quartz monzonite against Tertiary volcanic rocks. The mined area has several faults parallel to this larger fault--generally they >*

Host-FM. Name U1 < Quartz monzonite. > Member U2 < >

Host Rock K1 < C,R,E,T, | Quartz monzonite, equigranular medium to coarse, pink gray--gray, biotite rich and porphyritic in part, tr. pyroxene xl's, appear fresh, weakly stained with iron and manganese oxides along joints. >

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

Host-Rock Environment U3 < Igneous intrusive. >

(Sed. dep. environ., metamorphic facies, ign. environ.)

Comments on Associated Rocks U4 < Within the mined area, quartz monzonite horsts have isolated a devitrified tuff (bentonitic clay?). There several vitrophyres are present. >

Ore Minerals C30 < Abundant autunite was observed. Other ore minerals reported are torbernite and meta-torbernite. >

Gangue Minerals K4 < Quartz, molybdenum and abundant iron oxide ore found along fractures or veins. >

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Quad Name Wells

Deposit No. 2

Alteration N75 < Observed along shear zones is alteration of iron-bearing minerals to limonite and hematite; the basal Tertiary tuff has been altered to clay; and within the grussy granite, the feldspars have been altered to clay. >

Reductants U5 < Carbon, clay and iron oxides. >

Analytical Data (General) C43 < >

Radiometric Data (General) U6 < 2-1/2 times background (100 x 200 ft.), 20 times background (5 x 15 ft.), 10 times background (20 x 20 ft.), 5 times background (20 x 20 ft.), 15 times background (10 x 15 ft.), 25 times background (5 x 8 ft.). >
(No. times background and dimensions)

Ore Controls K5 < Mineralization was probably controlled originally by a low or channel which directed uranium-bearing water through the carbonaceous devitrified tuff (clay). Later, remobilization or precipitation of uranium occurred when faulting provided new zones of porosity and perhaps isolated the channel(?) from its original hydraulic system. Most of the minerals are autunite and they are observed disseminated along the shear zones. >

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

Comments on Geology N85 < The shape of this deposit is not similar to Pixley or Rim Rock, but post mineralization faulting and the disruption of the system is. As in Pixley and elsewhere, horsts of granite have isolated and modified the original ore body. This occurrence appears as only a remnant of what existed. >

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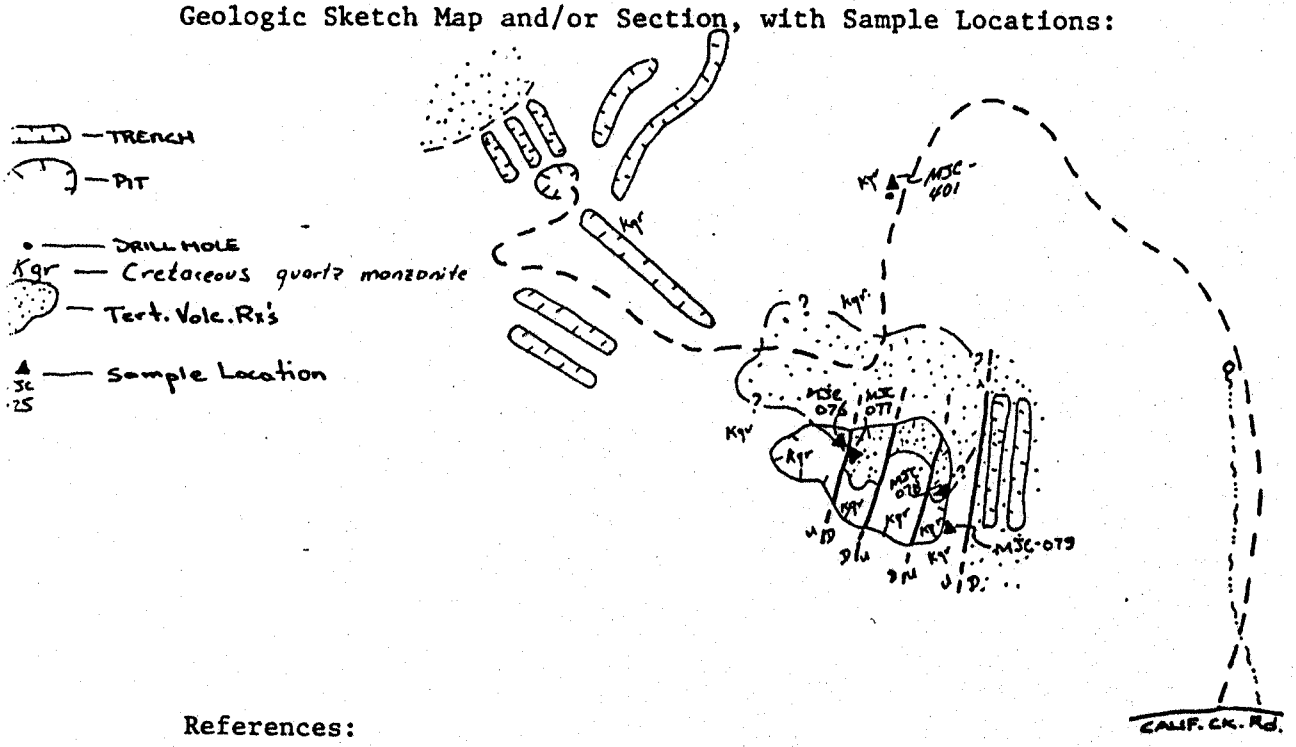
Uranium Analyses:

Sample No.	Sample Description	Uranium Analysis
MJC 076	Bentonitic tuff	882 ppm
MJC 077	Black vitrophyre(?)	36 ppm
MJC 078	Black vitrophyre(?)	15 ppm
MJC 079	Biotitic quartz monzonite	7 ppm
MJC 401	Drill cutting	139 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 < U. S. Atomic Energy Commission Preliminary Reconnaissance Report (PRR), SL-145, open filed; Meehan, R. J. and Peterson, A., 7/17/56, anomaly. >

F3 < U. S. Bureau of Mines and Minerals Yearbook, 1958. >

F4 < >

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Quad Name Wells

Deposit No. 2

Continuation from p. 1-5:

Label

A83 < the mine area. >

D9 < filed). >

N70 < all trend N12°E. >