URANIUM-OCURRENCE
REPORT

Deposit Name A10 <South Fork claims (nos. 1 and 2), Pixley No. 1 claim>

Synonym Name(s) All <East, south fork>

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 <1.0 mile northeast of the Bieroth Ranch on the north side of Pixley Creek>

Field Checked G1 7/9 06 P By G2 Proffitt, Jerry 1

Yr Mo Last name First Initial

Latitude A70 41 49 5, 6 N Deg Min Sec
Longitude A80 11 15 4, 2 W Deg Min Sec

Township A77 04, 6 N Range A78 04, 5 E Section A79 3, 5 E/W

Meridian A81 <Mt. Diablo> Altitude A107 <6500 FT>

Quad Scale A91 6, 2, 5, 0, 0 (7/2' or 15' quad) Quad Name A92 <Mountain City>

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

Location Comments A83 <1.0 miles south of Mountain City Standard Station turn east on road to Sunflower Flat for 4.3 miles. A dirt, unimproved road to the left (north)>

Location Sketch Map:
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Commodities Present:
C10 <U>

Commodities Produced:
MAJOR <U> COPROD <U>
MINOR BYPROD <U>

Potential Commodities:
POTEN OCCUR <U>

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 < Recent exploration consists of several drill holes which were probably to meet assessment requirements. Development > *

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

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

Description of Workings M220 Workings consist of three shallow open pits, two of which do not appear to be particularly noteworthy, and a third which has an area > *

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

DH2 accuracy thousands of lb. years grade
G7< U A C G7A G7B G7C G7D 0.12 % U308>

Source of Information D9 < U.S. Atomic Energy Commission production records >

Production Comments D10 <

Reserves and Potential Resources

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

Source of Information E7 <

Comments E8 <
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Quad Name: WELLS
Deposit No.: 3

Deposit Form/Shape M10 < Lens shaped. >
Length M40 < UNK > M41 < >
Width M50 < UNK > M51 < >
Thickness M60 < UNK > M61 < >
Strike M70 < UNK >
Dip M80 < UNK >

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 >

Local Structures N70 < An east-west trending fault is postulated to coincide with Pixley Creek, down on the south. Two parallel, high-angle normal faults trending north-south along the west side of Pixley have displacements of approximately >*
Host-FM. Name U1 < Unnamed. > Member U2 < >

Host Rock K1 < Triassic Sandstone, arkosic, tuffaceous fine to very coarse-grained, yellow gray to white, subangular, in part biotite-rich, feldspars altered, attitude, geometry, structure, etc. commonly altered to clay, biotites etched, strong limonite and hematite staining. >

Host-Rock Environment U3 < Sedimentary depositional environment. > (Sed. dep. environ., metamorphic facies, ign. environ.)

Comments on
Associated Rocks U4 < The swale in which the arkosic host is found is incised into a quartzmonzonite of Cretaceous age. Locally it is overlain by volcaniclastic rocks consisting of welded and nonwelded ash-flow and air-fall tuffs and vitrophyres. Ore Minerals C30 < Autunite, renardite, carnottite are the reported ore minerals. >

Gangue Minerals K4 < Gypsum, trace secondary silica and questionable sulphur. >
Alteration N75 < Devitrification of tuffs to montmorillonite; alteration of pyrite to limonite, carbon to soot, feldspars to clay, local veinlets of silica.

Reductants U5 < Clays, carbonaceous debris and pyrite

Analytical Data (General) C43 < None

Radiometric Data (General) U6 < 5 to 8 times BG (250 x 600 ft, 8 times BG
(No. times background and dimensions)
(5 x 10^3 ft), 12.5 times BG (5 x 8 ft), 20 times BG (4 x 8 ft), 10 times BG (2 x 10 ft), 30 times BG (2 x 10 ft).

Ore Controls K5 < Mineralization was controlled by a paleochannel on the quartzmonzonite surface. The sediments and volcanioclastics within the channel provided the porosity needed to allow the uranium-bearing waters to come in contact with the clay and organic reductants.

Deposit Class C40 < Hydroallogenic > Class No. U7 < S1410>

Comments on Geology N85 < Early Tertiary sediments and volcanioclastic rocks deposited on the quartzmonzonite surface were dated by Ephedra pollen as 40 million years old; Oligocene(?). Mineralization occurred between 40 and 20 million years ago. Postmineralization faulting in several places offsets mineralized horizons or juxtaposed them against the quartzmonzonite. The local faulting which disrupted >
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Quad Name WELLS
Deposit No. 3

Uranium Analyses:

<table>
<thead>
<tr>
<th>Sample No.</th>
<th>Sample Description</th>
<th>Uranium Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>MJC 403</td>
<td>Grab sample from carbonaceous channel bottom</td>
<td>445 ppm</td>
</tr>
<tr>
<td>MJC 404</td>
<td>Grab sample from carbonaceous channel bottom</td>
<td>445 ppm</td>
</tr>
<tr>
<td>MJC 405</td>
<td>2 ft. channel sample from edge of dump</td>
<td>473 ppm</td>
</tr>
<tr>
<td>MJC 406</td>
<td>2 ft. channel sample from edge of dump</td>
<td>769 ppm</td>
</tr>
<tr>
<td>MJC 407</td>
<td>2 ft. channel sample from edge of dump</td>
<td>162 ppm</td>
</tr>
<tr>
<td>MJC 408</td>
<td>Grab sample of Kgm grus on edge of pond</td>
<td>1532 ppm</td>
</tr>
</tbody>
</table>

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

References:


F2 <U.S. Bureau of Mines Minerals Yearbook, 1960>

F3 <Birkholz, Donald O., 1978, Uranium Deposits in Volcaniclastic Rocks near Mountain City Nevada: AAPG-SEPM Annual Convention, April, 1978, Oklahoma City, OK>

F4 <
Continuation from p. 1-5:

Label

A83 < after 2.0 miles leads to an intersection of three roads. Take center road through gate for 0.8 miles to mine. >

L110 < consists of three shallow open pits, one of which contains ponded water. >

M220 < 7200 square feet. Its depth is unknown due to ponded water. >

N70 < 300 feet, down on the west. Within the Pixley occurrence several high-angle normal faults exist. These faults have juxtaposed the quartzmonzonite of Cretaceous age against Tertiary tuffaceous and clastic sedimentary rocks. There appears to be two normal sets. One set strikes easterly and appears to be en echelon and down-thrown on the south. The second set has faulted a horst of quartzmonzonite into the Tertiary sedimentary rocks, producing what seems to be two channels. >

N85 < Pixley mineralization appears to be of a stair-step-type with the down side to the south. The minor displacements do not preclude the possibility of having additional mineralization up-or down-gradient. >