1470 0006

(125) Page 1

URANIUM-OCCURRENCE

Quad Name A90< Vya Hem 13 >

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

REPORT Rec. no. M029069 Disaster district

Deposit No. B40< 5 >

Deposit Name A10 < Granite Point >

Synonym Name(s) A11 < Chevron >

District or Area A30 < Kings River >

Country A40 <U, S> |U, S| State Nevada

State Code A50 <3,2> |3,2| County A60 < Humboldt >
(Enter code twice from List D)

Position from Prominent Locality A82 < 1.5 mi (2.5 km) north of the Moonlight Mine. >

Field Checked G1 <8,0|0,8> By G2< Castor , S. B. >
Yr Mo Last name First Initial

Latitude A70 <4,1|4,8|3,2, N> Longitude A80 <1,1,8|0,4|3,8, W>
Deg Min Sec Deg Min Sec

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

FT/M

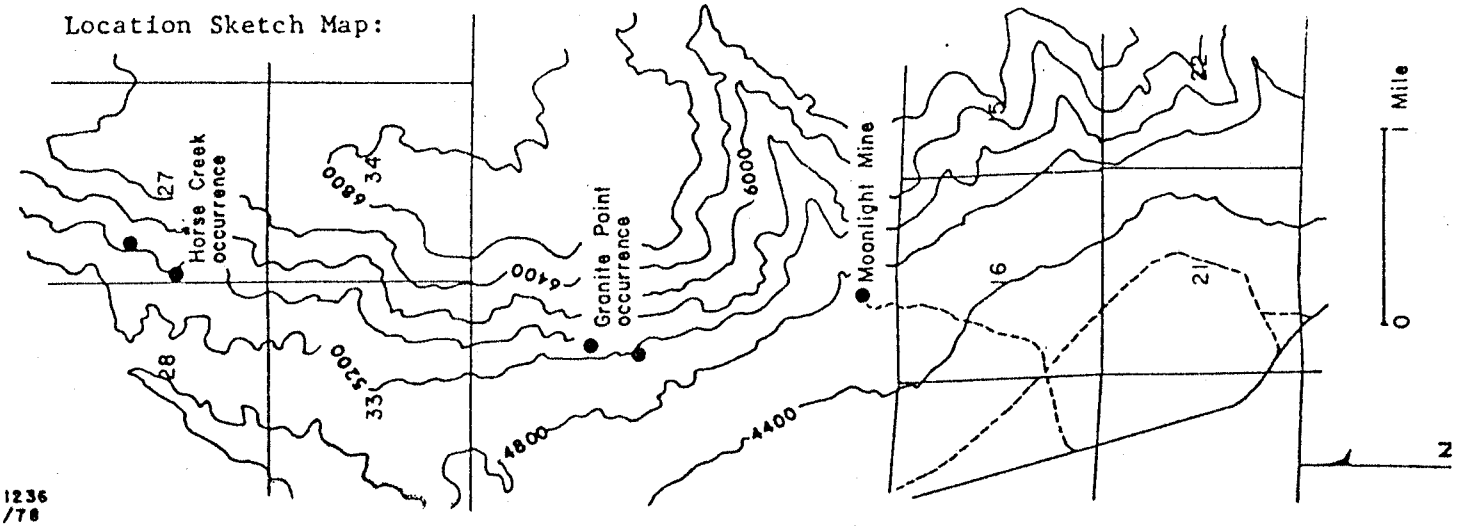
Meridian A81 < Mt. Diablo > Altitude A107 < 5500 FT >

Quad Scale A91 <| ,|,6,2,5,0,0> Quad Name A92 < Disaster Peak >
(7½' or 15' quad)

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

Location Comments A83 < Drive 2.5 mi. north on the Kings River Road from the Moonlight Mine turnoff. Turn right and drive about 1 mi. Turn right and proceed > *

Location Sketch Map:




BFE 1236
4/19/78

URANIUM-OCCURRENCE REPORT

Quad Name Vya

Deposit No. 5

Commodities Present:
C10 <U>

Commodities Produced:
MAJOR < > COPROD < >

MINOR < > BYPROD < >

Potential Commodities:
POTEN <U> OCCUR < >

Commodity Comments C50 < >

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

Comments on Exploration and Development L110 < More than ten drill holes. >

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

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

Description of Workings M220< A few old bull-dozed trenches. >

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

DH2 accuracy thousands of lb. years grade
G7<U> G7A< > G7B<LB> G7C< > G7D< % U3O8>

Source of Information D9 < >

Production Comments D10 < >

Reserves and Potential Resources

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

Source of Information E7 < >

Comments E8 < >

URANIUM-OCCURRENCE REPORT

Quad Name Vya

Deposit No. 5

Deposit Form/Shape M10 < Shear zones >

Length M40 < 4000 > M41 < FT > (FT/M)

Width M50 < variable > M51 < >

Thickness M60 < variable > M61 < >

Strike M70 < rough N-S >

Dip M80 < generally steep E >

Size M15 (circle letter): lb U3O8

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 < This occurrence is on the west edge of the McDermitt Caldera, a Miocene volcanic subsidence feature about 40 km wide. The Kings River Valley, a major NNW basin and range feature, is just west of the > *

Local Structures N70 < Radioactive outcrops are along shear zones with varying attitudes. These shears probably comprise the McDermitt Caldera ring fracture. >

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

Host Rock K1 < M I O (Age) Dark gray crystal-rich rhyolitic ash flow (Rock type, texture, composition, color, alteration, attitude, geometry, structure, etc.)

tuff and black to gray aphanitic dacite similar to that at the Moonlight Mine. Also, light buff to light gray peralkaline rhyolite ash flow tuff with crystals of chatoyant feldspar and quartz. >

Host-Rock Environment U3 < Volcanic flow and pyroclastic >
(Sed. dep. environ., metamorphic facies, ign. environ.)

Comments on Associated Rocks U4 < Granitic rock with metadiabase; and fine to coarse, volcanic to arkosic clastic sedimentary rock lies downhill from the occurrences. Above the occurrence are rhyolites similar to those above the Moonlight Mine. >

Ore Minerals C30 < Boltwoodite or weeksite. >

Gangue Minerals K4 < Quartz, pyrite, rutile, ilmenite, and limonite. >

URANIUM-OCCURRENCE REPORT

Quad Name Vya

Deposit No. 5

Alteration N75 < Silicic and argillic. Also potash feldspar alteration according to Rytuba and Conrad (1979). >

Reductants U5 < Pyrite is present, but was probably contemporaneous with uranium deposition. >

Analytical Data (General) C43 < Select samples range up to 194 ppm $U_3O_8$ and 282 ppm eU. Chip sample across 8 ft to 10 ft thick radioactive zones range between 26 and 57 ppm $U_3O_8$. Select samples of radioactive rock have high Ag, As, Cu, F, > *

Radiometric Data (General) U6 < Background is 180 cps (40 UR) in aphanitic dacite (No. times background and dimensions) to 300 cps (65 UR) in rhyolite. Rock in shear zones is up to 2200 cps (480 UR) with large volumes of rock over 800 cps (175 UR) in the vicinity of shear zones. >

Ore Controls K5 < Shear zones along the McDermitt Caldera Ring fracture system. Uraniferous rock is said to be controlled at this occurrence, and at the Horse Creek occurrence 2 mi to the north, by late rhyolite intrusive domes emplaced along the ring-fracture zone (J.J. Rytuba, personal commun., 1980). However, I saw no evidence of intrusive activity during my examination of this property. >

Deposit Class C40 < Volcanogenic > Class No. U7 < | | >

Comments on Geology N85 < Because this occurrence has similar geology to that at the Moonlight Mine, it is thought to be an extension of the same hydrothermal system. It is rumored that drilling at this occurrence, and the Horse Creek occurrence to the north, indicates a total of 5 to 10 million lbs of $U_3O_8$ at commercial grades. >

:URANIUM-OCCURRENCE REPORT

Quad Name Vya

Deposit No. 5

Uranium Analyses:

| Sample No. | Sample Description | Uranium Analysis |
|---|---|---|
| MES 227 | Representative grab spl. of non-radioactive aphanitic dacite flow rock | 5 ppm eU |
| 413 | Representative grab spl. of light buff crystal-rich ash flow tuff | 9 ppm $U_3O_8$<br>14 ppm eU |
| 414 | Select spl. from 10-cm-thick breccia vein in rhyolite | 194 ppm $U_3O_8$<br>282 ppm eU |
| 415 | 3-m-thick chip spl. across altered rhyolite with trace dissem. sulfide | 37 ppm $U_3O_8$ |
| 416 | 2-m-thick chip spl. across radioactive dacite flow rock with trace sulfide | 57 ppm $U_3O_8$ |
| 417 | 6-m-thick chip spl. across radioactive rhyolite | 45 ppm $U_3O_8$ |

more samples described on page 6

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

References:

F1 < Taylor, A.O., and Powers, J.F., 1955, Uranium occurrences at the Moonlight Mine and Granite Point Claims, Humboldt County, Nevada, U.S. AEC. >

F2 < Rytuba, J.J., and Conrad, W.K., USGS Open-File Report 79-541. >

F3 <

F4 <

: URANIUM-OCCURRENCE REPORT

Quad Name Vya

Deposit No.

Continuation from p. 1-5:

Label

A83 <along driller's roads to radioactive occurrence.>

N5 <occurrence.>

C43 <Hg, Mo, Sb, Sn, and Zn.>

Uranium Analysis<

| Sample No. | Sample Description | Uranium Analysis |
|---|---|---|
| MES 418 | 2-m-thick chip spl. across radioactive rhyolite | 26 ppm $U_3O_8$ |
| 424 | Select spl. from radioactive limonitized shear zone in dark gray ash-flow tuff | 188 ppm $U_3O_8$<br>164 ppm eU |

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F1 < Report IEM-874-A, 16 p.>