

2780 0006

URANIUM-OCCURRENCE

REPORT

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Item 14

Quad Name A90 < Vya >

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

Deposit No. B40 < 14 >

Deposit Name A10 < Snow Creek >

Synonym Name(s) A11 < Foster Property >

District or Area A30 < Leonard Creek >

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

State Nevada

State Code A50 < 3, 2 > [3, 2]

(Enter code twice from List D)

County A60 < Humboldt >

Position from Prominent Locality A82 < Ten km north of the Leonard Creek Ranch  
Ranch and 6.5 km south of Duffer Peak. >

Field Checked G1 < 8, 0 | 0, 7 > By G2 < Castor S. B.  
Yr Mo Last name First Initial >

Latitude A70 < 4, 1 | 3, 6 | 2, 4, N > Longitude A80 < 1, 1, 8 | 4, 3 | 2, 0, W >  
Deg Min Sec Deg Min Sec

Township A77 < 4, 3 | N > Range A78 < 2, 8 | E > Section A79 < 3, 5 > & 36  
N/S E/W

FT/M

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

Quad Scale A91 < 6, 2, 5, 0, 0 >  
(7½ or 15' quad)

Quad Name A92 < Duffer Pk. , Nev. >

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

Location Comments A83 < From the Leonard Creek Ranch, drive about 6 mi north past  
the Tipperary Mine. Turn left on a jeep trail just past the Snow Creek crossing > \*

Location Sketch Map:



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Deposit No. 14Deposit Form/Shape M10 < Steeply dipping veins and a possible manto. >Length M40 < 600 > M41 < FT/M >

Size M15 (circle letter):

Width M50 < 15-60 > M51 < M >1b U308Thickness M60 < unknown > M61 <    >

A 0 - 20,000

B 20,000 - 200,000

Strike M70 < ENE >

C 200,000 - 2 million

Dip M80 < horiz to 70 N >

D 2 million - 20 million

E More than 20 million

Tectonic Setting N15 < Mobile belt >Major Regional Structures N5 < High-angle NE fault about 2 km SE of occurrence. >Local Structures N70 < Steeply-dipping ENE shears and alaskitic dikes. >Host-FM. Name U1 <    > Member U2 <    >Host Rock K1 < J, U, R, - , T, R, I, , , | 1/2 > Light to dark-gray, fine-grained clastic  
(Age) (Rock type, texture, composition, color,rocks metamorphosed to slate and phyllite, and cut by leucocratic dikes with alteration, attitude, geometry, structure, etc.)aplitic to pegmatitic textures. Faintly foliated biotite granodiorite just north of occurrences. >Host-Rock Environment U3 < Marine clastic and intrusive igneous. >  
(Sed. dep. environ., metamorphic facies, ign. environ.)Comments on  
Associated Rocks U4 < Dark greenish gray metavolcanic rocks and minor amounts of bedded calc-silicate rock. >Ore Minerals C30 A variety of secondary uranium minerals, including uranyl phosphates, arsenates, and silicates. Coffinite was tentatively identified.Gangue Minerals K4 < Chalcedony, pyrite, barite and limestone. Native arsenic tentatively identified. >

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Alteration N75 < Argillic, sericitic, and silicic.

>

Reductants U5 < Sulfide is present in places. Limonite is abundant and probably represents oxidized sulfide.

>

Analytical Data (General) C43 < Up to 0.11 percent U O, 0.16 percent As, and 0.2 percent Cu. Ag, Ba, C, F, Mo, Sb, W, and Zn are also high in some samples.

>

Radiometric Data (General) U6 < Background in metamorphic rocks is 60 to 80 cps.  
(No. times background and dimensions)

in granitic rock 100 - 200 cps. Maximum radioactivity measured at 6500 cps,  
with areas up to 30 m wide and 100 m long average 500 cps.

>

Ore Controls K5 < Three areas of exposed uraniferous rock lie in a 150 m by 300 m area elongated ENE (see map, p. 5). The most easterly exposure is the largest (30 m x 100 m) and consists of radioactive chalcedony which appears to form a shallowly dipping mass. Radioactivity is generally restricted to ENE shears and irregular chalcedony masses. In one place uranium is concentrated along limonitized fracture in an alaskite dike.

>

Deposit Class C40 < Volcanogenic > Class No. U7 < 1 1 1 >

Comments on Geology N85 < The uranium was probably introduced, along with silica, by hot water ascending along ENE fracture. A line of presently active cold water springs is along strike west of the occurrences (see map, p. 5). The large easterly exposure may be a sinter mound formed around an extinct hot spring.

>

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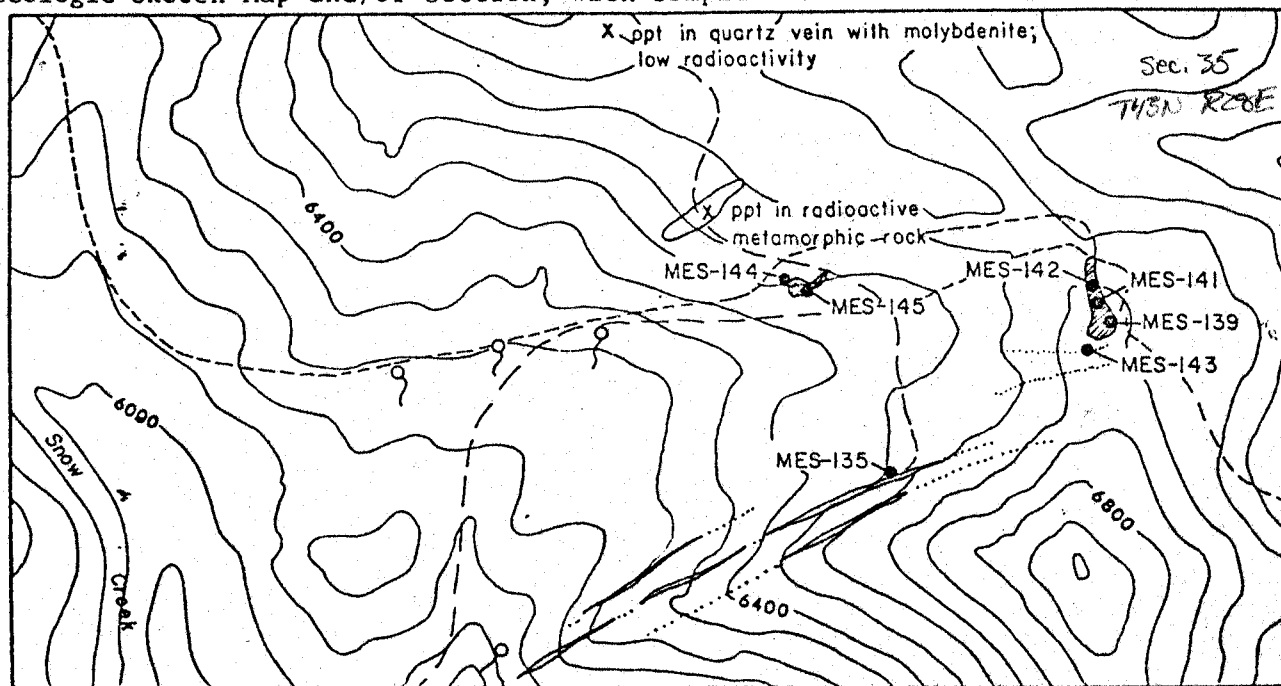
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## Uranium Analyses:

Sample No.	Sample Description	Uranium Analysis
MES 135	Grab sample of alaskite with silica veinlets which carry sulfide.	207 ppm U <sub>3</sub> O <sub>8</sub>
Grab sample 139	of breccia composed of alaskite and metasilite clasts in limonitic chalcedony matrix with sulfide	291 ppm U <sub>3</sub> O <sub>8</sub>
140	20-meter-long chip sample containing MES 139.	53 ppm U <sub>3</sub> O <sub>8</sub>
Grab sample 141	of breccia of metasilite clasts in matrix of limonitic silica with trace sulfide.	344 ppm U <sub>3</sub> O <sub>8</sub>
142	10-meter-long chip sample of silicified breccia clasts are metasilite.	52 ppm U <sub>3</sub> O <sub>8</sub>
143	Grab sample of alaskite.	3 ppm U <sub>3</sub> O <sub>8</sub>

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



## References:

F1 &lt; U.S. Atomic Energy Commission Preliminary Reconnaissance Report 3485.

F2 &lt;

F3 &lt;

F4 &lt;

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Continuation from p. 1-5:

Label

A83 < and drive about 2 mi. Workings can be seen on hillsides on both sides of the road and at the pass at the end of the road.>

Uranium Analyses>

Sample No.	Sample Description	Uranium Analysis
MES 144	Breccia consisting of black shale clasts in sparse limonitic silica and clay matrix - green secondary U min. Also contains pyrite veinlets. Grab sample	.11% $U_3O_8$
145	Silicified breccia - most of the clasts were black shale - locally contains sulfide. 10-meter-long chip sample.	80 ppm $U_3O_8$
256	Granite rocks. Grab sample	21 ppm $U_3O_8$
390	alaskite dike	8 ppm $U_3O_8$