4280 0023

URANIUM-OCCURRENCE REPORT

Quad Name A90< Lovelock Item 23

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

Deposit No. B40< 14 >

Deposit Name A10 < Vernon and Snowstorm >

Synonym Name(s) A11 < Terry Claim >

District or Area A30 < Seven Troughs >

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

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

Position from Prominent Locality A82 < Pits, adit & incline are located about 1000 yards south of road which crosses range between Porter Springs and Vernon. The occurrence is about 1 mile east of pass >

Field Checked G1 <7,8|,8> (Yr, Mo) By G2< Smouse (Last name), DeForrest (First), (Initial) >

Latitude A70 <4,0|2,5|0,9,N> (Deg, Min, Sec) Longitude A80 <1,1,8|4,8|3,9,W> (Deg, Min, Sec)

Township A77 <1,2,9|N> (N/S) Range A78 <1,2,8|E> (E/W) Section A79 <1,2>

FT/M

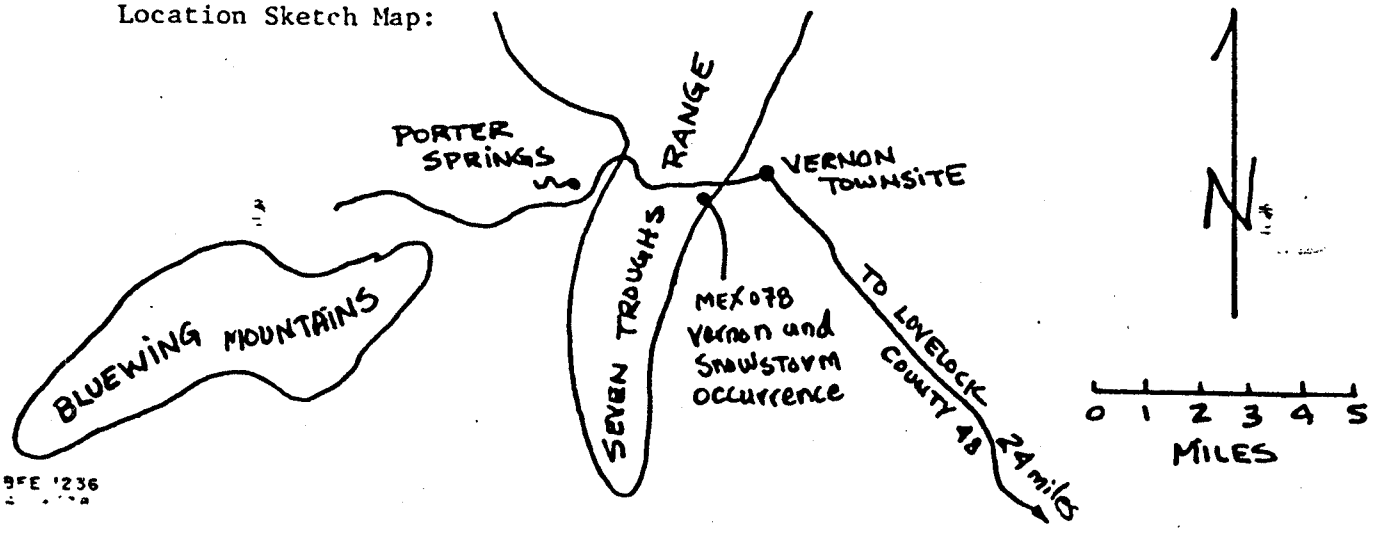
Meridian A81 < Mount Diablo > Altitude A107 < 1412 M >

Quad Scale A91 <1,2,5,0,0,0> (7½' or 15' quad) Quad Name A92 < Seven Troughs 2 NE >

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

Location Comments A83 < The anomaly is located in pegmatites and contact facies in the granitic rocks just south of the Vernon-Porter Springs Road. >

Location Sketch Map:



9FE '236

URANIUM-OCCURRENCE REPORT

Quad Name Lovelock

Deposit No. 14

Commodities Present:
C10 <W U AU>

Commodities Produced:
MAJOR <W> COPROD <>

MINOR <A U> BYPROD <>

Potential Commodities:
POTEN <> OCCUR <U>

Commodity Comments C50 < Uranium content is too low to be commercially attractive >

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

Comments on Exploration and Development L110 < Shallow drift, incline and numerous dozer cuts explore contact between granite and hornfels >

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

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

Description of Workings M220< 150 feet of drift and incline along contact with granodiorite-quartz monzonite >

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 < The uranium occurrence is associated with tactite which has been explored and mined for scheelite >

BFE 1236

URANIUM-OCCURRENCE REPORT

Quad Name Lovelock

Deposit No. 14

Deposit Form/Shape M10 < Irregular disseminations in skarn, pegmatite, etc. >

FT/M

Length M40 < > M41< >

Width M50 < > M51< >

Thickness M60 < > M61< >

Strike M70 < N 0^0 E >

Dip M80 < 70-90^0 East >

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 < Central part of eugeosynclinal portion of basin and range in Nevada >

Local Structures N70 < Irregular fractures containing pegmatites in granite, granitic dikes in hornfels and contact between granite and argillites of Auld Lang Syne Group >

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

Host Rock K1 <C R E T 6> Medium grey to lt. grey, medium to course crystalline granite-quartz monzonite. Quartz-feldspar pegmatite, and dark grey-green hornfels. The pegmatite strikes N-S and dips 70-90^0 East. Granite dike is horizontal >

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

Host-Rock Environment U3 < Plutonic, synorogenic, stock >
(Sed. dep. environ., metamorphic facies, ign. environ.)

Comments on Associated Rocks U4 < The hornfels is a contact metasomatic phase of Auld Lang Syne Group greenstone. >

Ore Minerals C30 < Scheelite, gold in quartz veins, no observed uranium minerals >

Gangue Minerals K4 < Quartz, microcline, plagioclase, muscovite, garnet, epidote and minor black tourmaline. >

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Quad Name Lovelock

Deposit No. 14

Alteration N75 < Limonite after pyrite >

Reductants U5 < Pyrite? >

Analytical Data (General) C43 < >

Radiometric Data (General) U6 < Scintrex pegmatite (3 x BG) 300 CPS 2 ft x 40 ft
(No. times background and dimensions)
Granite dike (2.5 x BG) 4 inches x 6 feet
Contact 2 feet on both side of pegmatite. >

Ore Controls K5 < Late stage magmatic segregations of uranium in pegmatite and contact metasomatic in garnet bearing skarn of contact zone. >

Deposit Class C40 < Contact Metasomatic/Pegmatite > Class No. U7 < 3,2,0 / 3 4 0 >

Comments on Geology N85 < The uranium has been concentrated in late stage magmatic fluids and deposited in the pegmatites, skarn and chilled border zone of the small granitic (quartz monzonite) pluton. >

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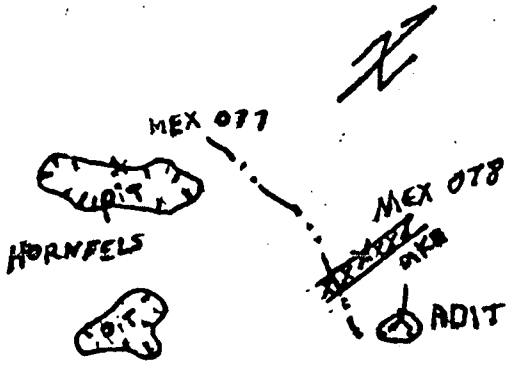
Deposit No. 14

Uranium Analyses:

Sample No.	Sample Description	Chem. cU_3O_8 Uranium Analysis (ppm)
MEX 077	Quartz-feldspar pegmatite	7.0
MEX 078	Granitic dike	9.0

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



Pits are in contact zones of hornfels with granodiorite-quartz monzonite

1 inch = 2000 feet

References:

F1 < AEC Preliminary Reconnaissance Report 3722, Open File >

F2 < Garside, L. J., 1973, Radioactive Mineral Occurrences in Nevada, Nevada Bur Mines and Geol. Bull. 81. >

F3 < >

F4 < >