

FIGURE - Geologic map showing anomalously high radiometric readings of the of the Tajo granite (Precambrian), Socorro County, New Mexico.

1: Rocky Mnt. Energy. Uranium come WID 52545 3#207, 208, 209

A generalized summary of the drill hole lithologies follows:

ARCH - 1

Footage	<u>Description</u>
0 - 1 3 0	Granite, very pale orange, medium to coarse
	grained quartz, plagioclase, potassium feldspar,
	biotite and muscovite. Trace of fluorite and
	uranothorite. Highly argillized with intense
	limonitic veins. Green chromian mica coating
	fractures.
130-135	Zone of intense hematization with fault breccia
	and re-crystallization. Trace pyrite, fluorite
	veins. (100 ppm uranium)
135-195	Granite, pale yellowish orange. More pervasive
	hematite and limonite grading outward from veins.
	More quartz and fluorite veins. Some manganese
	coating fractures.
195-230	Granite, as above. Fresher with limonite and
	hematite highly locallized within veins. Less
	argillization.

Footage	Description
230-305	Granite, moderate reddish orange. More argil-
	lization with chloritization. Alternating zones
	of highly pervasive hematite and limonite stain-
	ing. Only minor veining.
305-315	Granite grayish orange. Much fresher with
	specularite veining.
315-405	Granite, moderate reddish orange, well argil-
	lized with more alternating pervasive zones of
	hematite and limonite.
405 - 430	Granite grayish orange. Very fresh only minor
	veining.
430-510	Granite moderate reddish orange to dark yellowish
	orange. Alternating zones of pervasive hematite
	and limonite. Some large veins filled with man-
	ganese.
510-520	Large breccia zone (8 feet of open space) filled
	otherwise with manganese and white clay gouge.

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Recrystallization.

Footage

Description

520-583

Granite, grayish orange. Relatively fresh with minor argillization. Occassional zones with no limonite and a greenish cast to the feldspars.

TOTAL DEPTH 583'

(Hole was terminated due to drilling difficulties)

ARCH-2

(Core)

Footage	Description
0-85	Santa Fe Formation, conglomerate, gray red, rounded granitic
	and volcanic pebbles, red clay matrix.
85-116	Fault breccia, dark red brown, highly silicified with hematite,
	quartz, barite and fluorite veins.
116-124	Alternating fault breccia and granite with banded chert.
124-159	Granite, light brown, medium grained, moderately argillized.
	Minor hematite-quartz veins with adjacent seritization. Trace
	of pyrite on 3-4 fractures.
159-200	Granite, moderate reddish orange, strong veining of quartz,
	hematite, green fluorite, and barite.
200-313	Granite, gray red, zones of pervasive hematite with minor
	quartz hematite veins.
313-353	Granite, yellow gray, argillized with quartz-chlorite stringers
	containing minor pyrite.
353 - 357	Granite, gray orange, moderately argillized with veins of
	purple fluorite. Increased density of quartz-chlorite stringers.

Footage	Description
357-410	Granite, gray red, highly argillized with strong quartz-
	hematite and quartz-chlorite veining. Local seritization and
	increasing pyrite on fractures.
410-414	Fault breccia, dark red brown, quartz-hematite matrix with
	manganese coating on fractures.
414-450	Granite, pale red, moderately argillized with quartz-chlorite
	stringers. Minor pyrite.
450-511	Granite, grayish red, pervasive hematite with quartz-chlorite
	stringers. Increase chloritization.
511-562	Granite, pale red, moderately argillized with alternating
	bands of pervasive hematite and chlorite. Quartz-chlorite
	stringers with pyrite and a trace of molybdenite.
562-599	Granite, medium red, pervasive hematite, quartz-chlorite
	stringers. Local seritization.
599-629	Granite, alternating zones of pale red (argillized with perva-
	sive hematite) and olive gray (pervasive chlorite). Very
+	minor pyrite.
629	Total Depth.
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ARCH-3

(Core)

Footage	Description
0-102	Granite, pale red, pervasive seritization, moderate arilli-
	zation. Orange chert stringers. Local zones of strong per-
	vasive hematite. Limonite coating on fractures.
102-230	Granite, pale red, pervasive hematite and increasing pervasive
	chlorite.
230-262	Granite, light brown, argillized with local seritization and
	chloritization. Veins of green and purple fluorite. Heavy
	manganese coatings on fractures.
262-349	Granite, pale red, argillized with more purvasive sericite,
	chlorite. Red chert stringers and limonite coating on fractures.
349-442	Granite, gray red, alternating zones of strong argillization
	and pervasive hematite. Moderately chloritized. Occasional
	stringers of red chert.
442-490	Granite, pale red, intensely argillized with local zones of
+	pervasive hematite. Silica flooding.
490-550	Granite, pale red brown, highly silicious. Fresh biotite,
	minor chloritization.

Footage

Description

550-600

Granite, pale red, fresh biotite with minor hematite-quartzchlorite stringers. Trace of pyrite on a fracture.

600

Total Depth.