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Item 9

DEE—GOLD

Alternate names: Boulder Creek deposit

Commodities: Au
Ag (not recovered)

LOCATION-OWNERSHIP

County Elko.
Mining district Bootstrap.
Elevation 1,645 m.
Topography Hilly.
Domain BLM administered.

General location About 46 km northwest of Carlin.
Meridian Mount Diablo.
Tract Sec. 34, T 37 N, R 49 E.
..... Sec. 3, T 36 N, R 49 E.
Latitude 41°01'26" N.
Longitude 116°25'18" W.

Owner Cordex V Syndicate (1984).
Operator Dee Gold Mining Co. (Cordex V operational entity) (Dee Gold comprises Rayrock Mines, Inc., Lacana Mining Corp., Dome Exploration Ltd., all of Toronto, ON, Canada; each with 29.3%; J. S. Livermore, 12%. Rayrock will manage the operation for the partnership company).

GEOLOGY

Type of ore body Disseminated.
Origin Hydrothermal.
Shape of ore body Elongate.
Ore controls Faults (steep normal).
Strike and dip of mineralized zone. East-west: unavailable.
Planned pit average dimensions (approximate), m:
Length 800.
Width 800 (at widest point, narrow at each end).
Pit area 23 ha (57 acres).
Mineral names Free gold (oxidized ore zone).

Host formation Vinini (upper plate of Roberts Mountains Thrust Fault).
Rock relationships Silicic shale and chert, is ore, gangue.
..... Jasperoid, near ore, contains some Au.
Alteration Silicification, pyritization, argillic.
Size Small.

DEVELOPMENT

Current status Active-producer.
Type of operation Surface.
Mining method Pit; about 800 t/d ore will be mined; stripping ratio = 7:1.
Year of discovery Mid-1970's by Phillip Davis, local prospector.
Discovery method Surface outcropping, geochemical, drilling.
Initial production September-October 1984.
Annual production rate About 1,200 kg (38,000 tr oz) Au anticipated for first 2 yr, then 1,000 kg/yr (33,000 tr oz) gold thereafter.

Distance to water supply ... On-site wells.
Road requirement About 3 km haul access.
Distance to power supply ... About 9 km to Rossi area.
Mill location On-site.
Mill status Under construction.
Milling methods Agitated cyanide leach, carbon-in-pulp, electrolysis.
..... Heap leach.
Process rate 820 t/d.
Product type Dore bullion.

PUBLISHED RESERVES-RESOURCES

Class	Quantity	Grade	Year	Reference
1..Not reported in reference	1,110,000 tons	0.028 tr oz/ton Au (leach grade)	1983	493
	2,670,000 tons	0.115 tr oz/ton Au (milling grade)	1983	493
2..Probable	2,670,000 tons	0.115 tr oz/ton Au	1984	659
	1,100,000 tons	Heap leach, low grade	1984	659

REFERENCES

14, 27, 28, 59, 61, 72, 90, 226, 278, 493, 529, 530, 555, 659, 669, 754.

USGS quad maps McDermitt, 1:250,000.
..... Santa Renia Fields, 7.5'.
USBM sequence number 0320070126.

Comments: Property adjoins Carlin's Bootstrap Mine and was acquired by Cordex in 1981. Minimum mine life is 8 yr. During 1981 and 1982, about 240 exploratory drill holes were completed in proposed pit area. In late summer and early fall of 1982, 2 pilot-scale heap leach tests were conducted. Silver (high grade) reported tied to silica beneath gold zone. Company reported mine life is 8 yr from 1984.

Information Circular 9035

Principal Deposits of Strategic and Critical Minerals in Nevada

By N. T. Lowe, Russell G. Raney, and John R. Norberg



UNITED STATES DEPARTMENT OF THE INTERIOR
Donald Paul Hodel, Secretary

BUREAU OF MINES
Robert C. Horton, Director