# 1280 0037

### HORSE CANYON-GOLD



Alternate names: None

Commodities: Au

#### LOCATION-OWNERSHIP

County	Cortez-Mill Canyon. 2,530 m. Rugged.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37131	Sec. 3, T 26 N, R 48 E (unsurveyed). 40°08'50" N.
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No.	Placer U.S., Inc., San Francisco, CA (subsidiary of Placer Development, Ltd., Vancouver, BC, Canada); Kennecott Copper	
Owners	Corp., Salt Lake City, UT; Vernon F. Taylor, Jr. (1984).	

Operator..... Cortez Gold Mines (operational entity of Placer U.S., Inc.) (1984).

#### GEOLOGY

Origin Ore controls	Faults, fractures, lithology. 27 ha (68 acres). Native gold, quartz, iron oxides, clays,	Host formation	Vinini (upper plate of Roberts Mountains Thrust Fault). Ordovician. Shale, in part cherty and carbonaceous, ore host. Siltstone, ore host. Rhyolite dikes, near ore, intrudes host
		Alteration	(Miocene). Silicified jasperoid breccia, hosted in Vinini. Silicification, iron staining, bleaching. Small.

#### DEVELOPMENT

Current status	Active-producer. Surface, mine rate about 660,000 t/a ore; stripping ratio is about 3:1 (waste:ore). Open pit.	Road requirement	On-site at Cortez. About 22 km to Cortez mill. Existing to Cortez mill. Cortez mill (22 km haulage from mine). Active.	
Initial production	February 1983 (mining); May 1983 (milling).	Milling method	Agitated tank cyanide leach (CIL-carbon in leach), carbon columns, pressure stripping, electrolysis-steel wool,	
Annual production rate .	ate . 600 kg (20,000 tr oz) Au (1983); then 1,200 kg (40,000 tr oz) Au thereafter.	Process rate	smelting. 1,800 t/d (2,000 ton/d). Dore buttons.	

## PUBLISHED RESERVES-RESOURCES

* Class	Quantity	Grade	Year	Reference
1Not reported in reference 2 Do		1.89 g/t Au	. 1982 . 1983	564 169
A Marie		REFERENCES		
27, 84, 90, 100, 169, 170, 219, 426, 5	13, 564, 593, 692, 780, 781	Cort	nemucca, : ez, 15'. 0110228.	1:250,000.

Comments: The Horse Canyon ore is milled at the Cortez mill. The Cortez gold deposit was mined until 1973 when mining operations shifted west to Placer Amex's Gold Acres gold deposit across the valley. Mining and milling continued until February 1976. Cortez and Gold Acres dumps were leached to 1980. In 1980, mining on other Cortez and Gold Acres dumps began; Cortez material was leached and Gold Acres material milled. Horse Canyon ore replaced output from Gold Acres low-grade dumps in May 1983. The Cortez dumps were still actively being mined and leached in late 1983. Company reported mine life is less than 5 yr from 1983.

# 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