

**GOLDFIELD—GOLD**

ITEM 4p

Alternate names: Goldfield Project, Pacific Gold and Uranium, Goldfield Consolidated Main Vein

Commodities: Au, Ag  
(Au-Ag ratio about 3:1)

**LOCATION-OWNERSHIP**

County .....	Esmeralda.	General location .....	About 40 km south of Tonopah.
Mining district .....	Goldfield.	Meridian .....	Mount Diablo.
Elevation .....	1,720 m.	Tract .....	Secs. 25, 26, 36, T 2 S, R 42 E.
Topography .....	Hilly-mountainous.	Latitude .....	37°43'30" N.
Domain .....	Patented claims.	Longitude .....	117°13'11" W.
Owner .....	Davis Goldfield Mining Co. (receives 7.5% net royalty increasing to 10%) (1983).		
Lessees .....	Southern Pacific Land Co., San Francisco, CA, 50%; Noranda Exploration, Inc., Toronto, ON, Canada, 25%; Pacific Gold and Uranium, Inc. (PG & U), Los Angeles, CA 25% (1983).		
Operator .....	Blackhawk Mines Corp. (1984).		

**GEOLOGY**

Type of ore body .....	Vein systems, replacement.	Host formations .....	Porphyritic Rhyodacite. Quartz Latite flows and tuffs (Kendall Tuff).
Origin .....	Hydrothermal.	Geologic ages .....	Lower Miocene. Oligocene.
Shape of ore bodies .....	Variable-pipes, lenticular, tabular.	Rock relationships .....	Silicified porphyritic rhyodacite, portions are ore, encloses ore (major host). Porphyritic rhyodacite, gangue. Silicified quartz latite, portions are ore, encloses ore. Quartz latite, gangue. Siliceous shale and argillite, lies beneath ore (Ordovician Palmetto Formation). Quartz monzonite, lies beneath ore (Tertiary).
Ore controls .....	Faults, fractures.	Alteration .....	Highly bleached and altered— advanced argillization, aluniti- zation, silicification.
Strike and dip of mineralized zone.	North: 30° to 40° E.	Size .....	Small.
Age of mineralization ...	Miocene.		
Proposed pit average dimensions (estimated), m:			
Length .....	480.		
Width .....	45.		
Thickness .....	30.		
Mineral names .....	Native gold, famatinite, tetra- hedrite-tennantite, bismuthinite, goldfieldite, chalcocopyrite, galena, sphalerite, sylvanite, hessite, petzite, calaverite, pyrite, quartz, jasperoid, limonite, halloysite, gypsum.		

**DEVELOPMENT**

Current status .....	Active-developing.	Distance to water supply ...	Two 300-gpm wells near plant site.
Type of operation .....	Surface.	Road requirement .....	2.4 km (improvement).
Mining method .....	Open pit (shallow).	Distance to power supply ...	3.2 km.
Year of discovery .....	1902 (district); 1981 (option acquired by Noranda and PG & U).	Mill location .....	Near mine.
Discovery method .....	Recent drilling.	Mill status .....	Development.
Initial production .....	Anticipated fourth quarter 1984.	Milling method .....	Anticipated agglomerated cyanide heap leach; zinc precipitation or carbon absorption.
Last production .....	Unknown.	Process rate .....	About 1,100 t/d ore.
Past production .....	District—130,326 kg Au; 45,107 kg Ag; 3,479 t Cu; 23 t Pb from 7,021,750 t ore (1903-60). 1948-51 production withheld (8).		
Annual production rate .	About 270,000 t ore.		

**PUBLISHED RESERVES-RESOURCES**

Class	Quantity	Grade	Year	Reference
1. Not reported in reference .....	500,000 tons .....	0.07 tr oz/ton Au .....	1980	162
2. Proven .....	2,115,000 tons .....	0.070 tr oz/ton Au .....	1984	502

**REFERENCES**

7, 8, 19, 20, 21, 22, 23, 24, 162, 208, 209, 246, 325, 340, 497, 502, 576, USGS quad maps ..... Goldfield, 1:250,000.  
627, 631, 632, 703, 809. Goldfield, 15'.  
USBM sequence number ..... 9320090415.

Comments: Specific geology of the proposed pit area was not available. Geologic data describe the area of the district that will host the proposed development work. Reserve tonnage reported from 3 discrete ore bodies along Goldfield ledge. Reserve cutoff grade is 0.020 tr oz/ton Au.

**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**