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COUNTY: SNODHOMISTH	COUNTRY: USA	STATE: WASH.	NAME OF PROPERTY: SUNRISE MINER
DISTRICT OR AREA: SULTAN BASIN	METALS: Cu, Mo, W, Au	ACCOUNT NUMBER:	NUMBER:
GENERAL DESCRIPTION: Paleozoic hornfels intruded by quartz diorite batholith of Mesozoic or Tertiary age. Mineralization occurs in a breccia pipe.		EXAMINED BY: DATE: BRIEFED BY: J. K. Jones DATE: Oct. 27, 1971 STATUS:	
TYPE OF DEPOSIT: Breccia pipe			
GEOLOGY Complex series of Paleozoic metamorphosed argillite & sandstone, now hornfels, overlain by Mesozoic sandstone & argillite are intruded by Mesozoic or Tertiary quartz diorite.		LOCATION: Townships 28 and 29N, Range 10E ELEVATION: 1400 to 6100 feet LAT: 48° 6'      LONG: 121° 30' ACCESS:	
		DEVELOPMENT: 5500 feet of underground workings, 17,338 feet of diamond drilling at cost to Brenmac of \$1.5 million.	
MINERALIZATION: Quartz, calcite, chalcopryrite, pyrrhotite, molybdenite, and scheelite occur in an elliptical breccia pipe. Dimensions at surface (4400 to 4800 ft) are 650 X 250 feet with long axis N30°W. At depth 1400 to 1800 ft. below surface pipe is 1000 ft X 400 ft. Dip of hanging wall 75°, footwall 85°. At depth MoS <sub>2</sub> increased, Cu decreased?		PROPERTY & OWNERSHIP: 11,905 acres made up of 98 unsurveyed mining claims and 16 state mineral leases optioned to Brenmac Mines Ltd. (N.P.L.), L. N. Udell, President.	
GEOPHYSICS:		AERIAL PHOTOGRAPHS:	
GEOCHEMISTRY:		TOPOGRAPHIC MAPS:	
MAPS & REPORTS: 8-23-71 Report by James R. Glass, Consulting Geologist, Vancouver, B.C. and accompanying maps by Glass & others.			

**MINERAL PROSPECT**

**ESSEX INTERNATIONAL, INC.**

1704 WEST GRANT RD., TUCSON, ARIZONA 85705

PHONE (602) 624-7421

**DEPOSIT DATA SHEET**

BY:

DATE:

NAME OF PROPERTY: **SUNRISE MINE** NUMBER:

REFERENCES:  
*washington Division of Mines & Geology Bulletin 36, W. Carithers & A.K. Guard, 1945*

PRODUCTION & RESERVES *71 million tons at .2 to .43% Cu, .12 to .02% MoS<sub>2</sub> may exist in Sunrise breccia pipe.*

SAMPLES:

METALLURGY:

ENGINEERING:

FACILITIES:

EXPLORATION POSSIBILITIES: *Possible low grade disseminated mineralization in stock 3 miles to SE of Sunrise pipe, another breccia pipe.*

ADDITIONAL INFORMATION OR SKETCH MAP:  
*See report. Glass suggests that this deposit can be mined by block cave or other underground methods at a profit. Grade appears to be similar to Sierrita open pit mine of Duval so there is little chance of a profit at \$0.50 copper from an underground operation. Brenmac has spent too much money already to evaluate this very low grade deposit.*