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MONTANA MOUNTAINS—LITHIUM

Alternate names: McDermitt Caldera Lithium; Kings River Lithium; Uravada

Commodities: Li, U

LOCATION-OWNERSHIP

County	Humboldt.	General location	About 48 km southwest of McDermitt.
Mining district	None; closest is Opalite (McDermitt), 38 km northeast.	Meridian	Mount Diablo.
Elevation	2,080 m.	Tract	Sec. 24, T 45 N, R. 34 E.
Domain	Public, BLM administered.	Latitude	41°45'44" N.
Owners			Longitude
J. M. Huber Corp., Macon, GA (1984); Chevron Resources, Denver, CO (1984); Jim and Grace LeBret, Frank and Ann Bengoa, Orovada, NV (1984); Norman LeBret, Priscilla Vaagen, George and Lynn LeBret, Spokane, WA (1984).			118°06'29" W.

GEOLOGY

Type of ore body	Volcanic moat deposits.	Host formation	Tuffaceous sediments.
Origin	Hydrothermal, hot springs.	Geologic age	Tertiary.
Shape of ore body	Tabular.	Rock relationships	Hectorite, is ore.
Ore controls	Hot springs vent zones, moat sediments.	Alteration	Zeolite.
Strike and dip of mineralized zone	Horizontal.	Size	Large.
Age of mineralization	Tertiary.		
Mineralized zone aver- age dimensions, m:			
Length	15,000.	Distance to water supply	5 km.
Width	1,000.	Road requirement	Paved haul road.
Thickness	75.	Distance to power supply	5 km.
Depth	75.		
Mineral names	Smectite, calcite, chalcedony, analcime.		

DEVELOPMENT

Current status	Active-exploration.	Distance to water supply	5 km.
Type of operation	Possible surface.	Road requirement	Paved haul road.
Mining method	Open pit.	Distance to power supply	5 km.
Year of discovery			1979.
Discovery method			Field mapping, drilling.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

108, 125, 155, 221, 244, 379, 396, 397, 602, 603, 638, 801.	USGS quad maps	McDermitt, 1:250,000. Disaster Peak, 15'.
	USBM sequence number	0320130482.

Comments: Potentially the largest single lithium resource in the United States containing a drill-hole-indicated resource of 200 million t averaging 1.2% Li₂O.

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
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