PRODUCT BARITE	PROVINCE OR Bri TERRITORY	tish Columbia	N.T.S. AREA	94 K/10	REF. BA 1		
NAME OF PROPERTY MILE 397 (ROCKY) OBJECT LOCATED UNCERTAINTY IN METERS Lat. 58°40'20" District	MOUNTAIN) (110 CREEK) Long. 124°47'20" Peace River	HISTORY OF EXPLORATION AND DEVELOPMENT The property is located on the east side of the Alaska highway between mile-posts 397 and 398. Prospectors Airways Company, Limited, optioned 11 claims in 1959. Diamond drilling was done in 6 short holes and a bulk sample was obtained from the main showing. Tests indi- cated that about 75% of the barite is recoverable as a high-					
County Township or Parish Lot Concession or Range Sec Tp. R.		cated that about 75% grade barite concent of the claims were t: Barite Mines Limited 1961 with Prospector Addison Mines Limite Airways in 1963.	rate suitable a ransferred to a , which was inc s Airways hold	uds. Five Western November rest. Kerr-			
OWNER OR OPERATOR AND ADDRESS Western Barite Mines Limited.		Allways In 1903.					
DESCRIPTION OF DEPOSIT The barite is in thin-bedded, dark-greaters stone of the Dunedin Formation. Small locate but the limestone has a general over-all n and 30- to 40-degree southwesterly dip. I of a large anticline associated with a majing ted a few miles to the east. At the showing the creek flows through vertical-walled canyon. The barite forms a mass that extends up the north wall from the lip of the canyon approximately 200 feet and the barite has a fairly regular hangingwall 25 degrees west and dips 60 degrees west, flatter-lying limestone. About halfway up dip flattens and the barite is almost paralised beds from that point to the top of the expen-	al folds are present, orthwesterly strike t is on the west limb or thrust fault loca- a narrow steep- to an irregular vein-like he creek bed to the oove. At the creek t that strikes north crosscutting the the canyon wall, the lel to the limestone		Resources Branch, Depar	tmant of Energy Ming			

MAP REFERENCES

Map 1343 A, Tuchodi Lakes, (Geol.), Sc. 1:125,000 - Accomp. Memoir 373, Geol. Surv. of Canada, 1973.

Map 94 K/10 W, MacDonald Creek, (Topo.), Sc. 1:50,000.

REMARKS			<u></u>	 	 	
Comp./Rev. By	DMacR	DMacR				 BCI
Date	4-74	1-79				

REFERENCES

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- Report of Minister of Mines, British Columbia: 1960, p. 133.
- Mineral Policy Sector; Corporation Files: "Prospectors Airways Company, Limited".

Jenness, S.E.; Field Work, 1961; Information Circular No. 5, p. 31, Geol. Surv. of Canada, 1962.

Taylor, G.C. and MacKenzie, W.S.; Devonian Stratigraphy of Northeastern British Columbia; Bulletin 186, p. 38, Geol. Surv. of Canada, 1970.

Dawson, K.R.; Barite, Fluorite, and Celestite Deposits and Occurrences in Canada; Paper 75-1 A, p. 257, Geol. Surv. of Canada.

Morrow, D.W. et al.; A Hypothesis Concerning the Origin of Barite in Devonian Carbonate Rocks of Northeast British Columbia; Canadian Journal of Earth Sciences, Vol. 15, Sept. 1978, p. 1392.

94 K/10

NAME OF PROPERTY

MILE 397 (ROCKY MOUNTAIN) (110 CREEK)

DESCRIPTION OF DEPOSIT (continued)

is very irregular and has several long apophyses projecting into the wallrock, some as far as 90 feet or more. There is some brecciation, and there are limestone inclusions in the barite along the vein walls. Considerable replacement of limestone by barite has taken place, especially along the footwall. Postmineralization slickenside is present on the hangingwall. At creek level the barite is 20 feet wide; in the centre, near the change in dip of the hangingwall, the barite is more than 100 feet wide; and at the top, or north end, it is 70 feet wide. The plan length of the exposure is roughly 200 feet.

Physically, the barite is variable: part is massive; part is coarsely crystalline; and part, near the creek, is so friable it crumbles into sand. The chief visible impurities are limestone, coarsely crystalline white calcite, and a little purple flourite.

One sample, consisting of chips taken at 1-foot intervals across 60 feet, was collected from the exposure 50 feet from the north end. It has the following analysis: Ba=55.67; Ca== 1.78; F=0.70; CO₂=-1.67; SO₃=-33.19; SiO₂==0.38. The specific gravity of the sample was 4.36.

Small scattered lenses and veinlets of barite, fluorite, and coarse white calcite are relatively abundant along the mountainside for $l\frac{1}{2}$ milesto the south, but no deposit was seen of a size comparable to that of the main showing.

Morrow et al describe the 110 Creek showing as several beds of barite 1-2 m thick interbedded with the host rock dolomite about 3-6 m below the top of the Stone Formation.