BRITISH COLUMBIA DEPARTMENT OF MINES AND PETROLEUM RESOURCES MINERAL DEPOSIT INVENTORY

31

82F/NW-60 2996

Property No. 2770	Metal 🗌 Industrial Mineral 🗌	Placer Coal Lapidary)
Name: Current Mammoth &	Monarch Previous		
C.G. and No.	13572		
Operator/Yr.			
Claim	Owner		
Operator	······································	Year	-
Claim	Owner	1 out	
Operator		Year	P
Claim	Owner	1 vu	rod
Operator		Year	uct
Location: Map No.82F/NW-60	NTS 82F/14W Lat	Long	(s).
M.D. Slocan	In park	E. & N. 🗆 El.	
Location plotted		Precision 2	L D
Status: Producer : Active			-
Non-producer \square : Pot. p. Reserves: L+ \square L \square Est. potential: L+ \square L	rod. Under exploration Prospect M S S G M S S G M S S G M S S G G M G G	Occurrence	(fill a
Developmente Surface			C
Linderground			2
Drilling			
Surveyer Geochem	Coombyo	Caal	1
References: M.M.A.R. 1966.	p, 220 , 1976-		
Dept. expl. forms 1916			
Asses. rept.: Geol	Geophys. 184, P. 75		
Recorded by Summary description	Revised by <u>IAUT /OCH /76</u>	Lib. Res. Comp	
Attitude of deposit: Strike	DipAzimuth Width	Plunge Depth	
Mineralogy: Major			
Significant			1
Minor			
Significant minor elements:			
Assays:			
Assays: Production: Tons	Grade: Au Ag	Cu	P
Assays: Production: Tons Others	Grade: Au Ag C	Cu Pb Zn	Prop
Assays: Production: Tons Others Remarks	Grade: Au Ag	Cu	Property
Assays: Production: Tons Others Remarks	Grade: Au Ag	Cu	Property N
Assays: Production: Tons Others Remarks	Grade: Au Ag	Cu	Property No.
Assays: Production: Tons Others Remarks	Grade: Au Ag (Cu Pb Zn	Property No.
Assays: Production: Tons Others Remarks	Grade: Au Ag	CuPbZn	Property No.
Assays: Production: Tons Others Remarks	Grade: Au Ag	Cu	Property No.
Assays: Production: Tons Others Remarks	Grade: Au Ag	Cu	Property No.
Assays: Production: Tons Others Remarks	Grade: Au Ag	CuPbZn	Property No.

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PRODUCT SILVER		PROVINCE OR E	British Columbia	N.T.S. AREA 82 F/14	REF. AG 64
NAME OF PROPERTY	MAMMOTH, MONARCH		HISTORY OF EXPLC	PRATION AND DEVELOPMENT	00 to 5.700
OBJECT LOCATED - No. 7 add UNCERTAINTY IN METRES 300. Mining Division Slocan County Lot Sec Tp.	t. Lat. 49°57°30" District Township or Parish Concession or Range R.	Long 117°17'20" Kootenay	feet at the head of Silverton. The Stan The showing was claims, the Monarch, (Lots 13571-13575 re granted. Owners H.V optioned the propert Mining Co., of Spoka development was carr in 1923. The owners	Arison (Buffalo) Creek, 3 mi dard mine lies about 1 mile discovered and staked in May Mammoth, Moose, Highore, an spectively) were subsequent1 . Dewes, S. Wetterhouse, and y in 1922 to Standard Silver ine. A total of 560 feet of ried out before the option was resumed work on the propert	les east of to the west. 1921. Five d Hercules y Crown- associates -Lead underground is given up y the
OWNER OR OPERATOR			following year. R.A property and in June Goldfields Developmen ation and developmen option was given up. Western Explorat on the property from foot aerial tramline level with a 100 ton Silverton on the sho given a trial run ea	. Grimes obtained an option 1926 re-optioned to The Por int & Finance Company, Limite it work continued into 1927 w ion Company, Limited acquire Grimes in 1928. During 192 was installed to connect the oper-day flotation mill inst ore of Slocan Lake. The equi- arly in 1930 and the mine was	on the reupine ed. Explor- when the ed an option 29 a 16,000 ne No. 7 called at pment was a shut down Lessees
DESCRIPTION OF DEPOSIT The property is under Slocan series intruded by porphyry and by tongues o from the Nelson granite. argillaceous, quartzitic, massive but are associate	lain by Mesozoic dykes and sills f hornblende dior The sediments co and calcareous t	sediments of the of quartz and felds ite and quartz dior mprise a variety of ypes which are most slaty beds. These	carried out small so The company resumed July 1935 until Marc rite 1937 until December Following a peri Ly was directed to reop tailings from Slocar	ale mining operations during work in 1935 and the mill op th 1936, and again from the s 1937. Tod of inactivity when compar- pening the Standard and recla b Lake, the mine again came i	y 1932-34. Derated from spring of my attention aiming into produc-

argillaceous, quartizitic, and careareous types which are mostly was directed to reopening the Standard and reclaiming massive but are associated with some more slaty beds. These sediments vary greatly in both strike and dip, being situated in tion in 1942. By 1944 the orebody between Nos. 7 and 5 a focal area of extreme deformation in which recumbent folds are levels was mined out, and a considerable amount of explor warped round, down, and under into a spiral form. The rocks are locally brecciated, sheared, and disrupted by faults.

The northeasterly striking Buffalo lode meets the easterly striking Mammoth lode and merges with it, in part through a bedded zone. The two lode movements were in the same direction and were additive. Although they were contemporaneous, the influence of the Buffalo was to produce a swelling and slight jog in the Mammoth lode on No. 7 level and above, that contributed to the formation of a site for ore deposition in the master lode. No. 1 and No. 4 adits were driven on a shear zone which see Card 2

levels was mined out, and a considerable amount of exploratory drilling was done, much of it below No. 7. The same year a new adit, the Monarch, was started to investigate intersections obtained by surface drilling. All work ceased in May 1945. The company began driving No. 9 level in September 1948. The aerial tramway was rehabilitated in 1950 and the mill operated from November of that year until November 1952. During 1954-55 the No. 7 level was extended westerly through the Monarch claim into the Hecla zone of the Standard property (82 F/14, AG 65). Production from the Mammoth resumed in 1956. During 1958-59 the No.

> see Card 2 Mineral Policy Sector, Department of Energy, Mines and Resources, Ottawa 509329

MRB-124

HISTORY OF PRODUCTION

Recorded production for the periods 1925-37 and 1959-62 totals 75,675 tons. From this ore 86 ounces of gold, 850,289 ounces of silver, 5,913,281 pounds of lead, 8,045,021 pounds of zinc, and 33,882 pounds of cadmium were recovered.

Complete production figures are not available because ore has been milled jointly with that from the Standard and Enterprise properties during the periods 1942-45, 1950-52, 1956-59, and 1965-66.

MAP REFERENCES

- #Map 273 A, Sandon, (Geol.), Sc. 1":4,000 ft. accomp. Memoir 173, Geol. Surv. of Canada.
- Map 1090 A, Nelson, (Geol.), Sc. 1":4 miles accomp. Memoir 308, Geol. Surv. of Canada.
- Map 8482 G, Slocan, (Aeromag.), Sc. 1":1 mile.

*Map 82 F/14, Slocan, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	DMacR				
Date	1-80				BC1 82 F/NW - 60

REFERENCES

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Reports of Minister of Mines, British Columbia: 1922, p. 202; 1923, p. 227; 1925, pp. 246,	Þ
446; 1926, p. 256; 1927, p. 275; 1928,	
p. 291 ⁺ ; 1929, p. 314; 1930, p. 251; 1932,	
p. 178; 1933, p. 206; 1934, p. E34; 1935,	
pp. E34, G48; 1936, p. E51; 1937, p. E55;	
1942, p. 73; 1943, p. 72; 1944, p. 72; 1945,	
p. 106; 1948, p. 146; 1949, p. 191; 1950,	
p. 1/8: 1951, p. 17/: 1952, p. 178: 1953.	
r = 111, 1055, r = 62, 1056, r = 06, 1057, r = 51.	
p. 141; 1933, p. 03; 1930, p. 90; 1937, p. 34;	
1958, p. 47; 1959, p. 69; 1961, p. 77; 1962,	
p. 82; 1963, p. 78; 1965, p. 193; 1966, p. 220.	
++ Columna (F) Decomination of Proportion Sloop Mini	-
Carries, C.E.; Description of Properties, Sidean Min	-ng
Camp, British Columbia; Memoir 184, pp. 75-78, Geo	n.
Surv. of Canada, 1935.	

+++Hedley, M.S.; Geology and Ore Deposits of the Sandon Area, Slocan Mining Camp, British Columbia; Bulletin No. 29, pp. 86-90, British Columbia Dept. of Mines, 1952.

Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1935, Rept. 763, pp. 17-22 (No. 612).

Mineral Policy Sector; Corporation Files: "Standard Silver-Lead Mining Co."; "The Porcupine Goldfields Development & Finance Company, Limited"; "Western Exploration Company, Limited"; "Johnsby Mines Limited"; "Arjan Pacific Ltd.".

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1976, p. E42.

PRODUCT SILVER

PROVINCE OR British Columbia

N.T.S. AREA 82 F/14

REF. AG 64

NAME OF PROPERTY

DESCRIPTION OF DEPOSIT (continued)

is thought to be an extension of the Buffalo lode but in which little mineralization is apparent. To the west the Mammoth lode has been explored by short adits and by diamond drilling as far as the Monarch adit. It splits at some point east of the Monarch adit and crosses the next ridge to the west, and Emily Creek, in two members, the southernmost of which passes through the Robin claim to the vicinity of the Alpha workings of the Standard mine. The Mammoth is a branch of the Standard lode.

MAMMOTH, MONARCH

The Mammoth lode is a mineralized shear zone averaging from 30 to 40 feet wide and has been traced by surface and underground workings over a length of about three-quarters of a mile on this property. It strikes north 75 degrees east and dips southeast at angles varying from 40 to 65 degrees. The lode is a notably strong shear zone with, in general, well-defined footand hanging-wall sections, in either of which vein deposits containing valuable ore deposits may occur, though developments to date indicate more mineralization in the foot-wall side. The orebody on the whole is pipe-like in form and has a known vertical range of about 1,000 feet. Above No. 5 level it divides into two tabular masses in a comparatively straight fissure. The tabular or vein-like part above No. 5 level persisted to the apex of the lode, but the heavily oxidized uppermost part was not mined. On No. 8 level, in addition to the main pipe-like orebody, ore extends eastward on the footwall Mammoth fissure.

The ore consists of masses and disseminations of sphalerite and galena in a gangue of rock, calcite, and siderite. Quartz is present locally. The ore minerals are in many instances concentrated in pods and tabular masses which may be parallel to the walls of the lode, dip flatter than the lode, or lie along northeasterly trending slips, and may be of random attitude and distribution within the ore zone.

HISTORY OF EXPLORATION AND DEVELOPMENT (continued) 12 crosscut adit was driven 2,600 feet to the downward extension of the Mammoth zone. The adit for the most part parallels, and in two places cuts the vein on the adjacent Buffalo property. Work ceased in June 1959.

Loma Minerals Ltd. acquired a lease on the property and carried out development work from February 1961 until October 1962. Johnsby Mines Limited was incorporated in November 1962 to operate the property under the terms of an agreement between the owner, Western Exploration, and Rayrock Mines Limited and Faraday Uranium Mines Limited. Development work began in a new exploration adit on the Standard property. Mining began on the Mammoth between 9 and 12 levels in 1965 and continued until the ore was exhausted late in 1966. Total development work to that date is estimated at approximately 8,400 feet of drifts and crosscuts in 6 adits, Nos. 1, 2, 4, 7, 9, and 12, and 6 intermediate levels. No. $3\frac{1}{2}$ and two other short adits lie to the west of the main orebody, and an exploratory crosscut, the 500 foot long Monarch adit, lies farther to the west.

Arjan Pacific Ltd. by an agreement dated September 26, 1973 purchased the Mammoth and adjacent properties from Western Exploration Company, Limited. In 1976 the Mammoth and Buffalo properties were owned by D.W. Pengelly, of Silverton.



MINFILE NEW PRODUCTION DATA INPUT FORM

LA, D, D, N, OBR, FWW0.60 B.C. MAP NO.

-1101075 YEAR 5,2,0,0 ____ ØRE MINED, IN TØNNES 5,3,0,0 ____ ØRE MILLED ØR TREATED, IN TØNNES 5,4,0,0 AG 5530 COMMODITY, QUANTITY (AU, AG IN G, ALL OTHERS IN KG) 5,4,0,0 MB .2 5,4,0,0 ZA 5,4,0,0 15141010 5,4,0,0 5,4,0,0 5,5,0,0 CØMMENTS 5,5,0,0

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Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

MINFILE NEW PRODUCTION DATA INPUT FORM

A.D.D.N. B.C. MAP NO.

1,0,0 7,0 YEAR 5,2,0,0 _____ ØRE MINED, IN TØNNES 5,3,0,0 , ORE MILLED ØR TREATED, IN TØNNES 5,4,0,0AG .0. COMMODITY, QUANTITY (AU, AG IN G, ALL OTHERS IN KG) 5,4,0,0PB 3553 5,4,0,021 352 5400 5400 5400 15,4,0,0 5151010 COMMENTS 5,5,0,0

CØDER'S INITIALS

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

MINFILE NEW PRODUCTION DATA INPUT FORM

LALDIDINDBATTNING60 B.C. MAP NO.

1,0,0 7,7 YEAR
5,2,0,0 , , , , , , , , , , , , , , , , ,
5,3,0,0 ORE MILLED OR TREATED, IN TONNES
5141010 AG 1 1 1 1 1 322 1 commodity, quantity (au, ag in g, all others in kg)
151400 PB , 24053
15,4,0,0 ZN $1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,$
5,4,0,0
5,5,0,0

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MINFILE NEW PRODUCTION DATA INPUT FORM

LA, D, D, N, 0, 8, 2, FINW 060 B.C. MAP NO.

-1,0,078 YEAR 5,2,0,0 ____ ØRE MINED, IN TØNNES 5,3,0,0 ØRE MILLED ØR TREATED, IN TØNNES 6.a. 5,4,0,0 AG BR COMMODITY, QUANTITY (AU, AG IN G, ALL OTHERS IN KG) 5,4,0,0 PB 5,4,0,0 21 52 5400 5400 15,4,0,0 5,4,0,0 5,5,0,0 CØMMENTS 5,5,0,0

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