/ <b>РКОВОСТ</b>		TERRITORY	N.I.5. AKEA 104 M/O KEF. AU C
NAME OF PROPER	RTY ENGIN	EER	HISTORY OF EXPLORATION AND DEVELOPMENT The property is located on the east shore of Tagish
OBJECT LOCATED	Symbol on Map 104 M.		Lake, about 8 miles south of Graham Inlet. In 1899 a locating party of Engineers for the White
UNCERTAINTY IN M	ETRES 500. Lat. 59°2	9'15" Long. 134°14'	Pass & Yukon Railway discovered a narrow stringer of quartz
Mining Division	tlin D	istrict Cassiar	carrying free gold. They staked 13 claims and organized The Engineer Mining Company, of Skagway, Alaska. Develop-
County	Township or I	Parish	ment work during 1900-1901 was done in a 240 foot crosscut adit, and 2 shafts 20 and 70 feet deep. The installation
Lot	Concession or I	Range	of a stamp mill was begun in 1902 but never completed.
Sec	Tp.	R.	The claims lapsed in about 1906 and were restaked by Edwin Brown and associates. In 1907 the property was sold
OWNER OR OPER	ATOR AND ADDRESS		to James Alexander, John Dunham, Konrad Warwecka, and Benjamin Green-Nicoll, of Atlin, who operated under the name Northern Partnership Syndicate. Crown-grants were issued during the period 1910-1914 for the Engineer No. 1

## DESCRIPTION OF DEPOSIT

The formation consists of argillite, siltstone, slate, and greywacke of the Laberge group of Lower Jurassic age. Several outcrops of granitic rock of the Coast Intrusives occur in the vicinity of the mine. A shear zone, with a known length of some 4,000 feet, strikes southeasterly through the property. Where crosscut, on the 5th and 8th levels, the zone shows a width of from 20 to 40 feet of crushed and brecciated slates well mineralized with quartz heavily impregnated with pyrite. Low grade but indicative gold values were found in sections of the shear zone.

Small veins, ranging in width from mere stringers up to 2 feet, strike at angles of about 45° or less to the shear zone. The veins are divided into two groups, the Double Decker, Engineer, and Jersey Lilly veins lying to the west, and the Boulder, Andy, and Blue veins lying to the east of the shear zone. Most of the veins are quartz filled; the Engineer vein, however, has a calcite-mariposite filling. In these veins and see Card 2 ....

Associated minerals or products of value - Silver.

(Lot 19), Northern Partnership No. 1 (Lot 918 G. 1), Northern Partnership No. 2 (Lot 20 G. 1), Northern Partnership No. 4 Fr. (Lot 209), Northern Partnership No. 5 (Lot 972), Mickey (Lot 967), and Daisy (Lot 970) claims.

A 2-stamp mill was installed in 1910 and operated intermittently. In about 1912 James Alexander, with the backing of A.T. Smith, of Philadelphia, acquired the interests of his partners. A shaft was sunk to 230 feet on No. 4 vein and levels established at 75, 110, 175, and 230 feet. Mining and milling operations continued into 1918. Work ceased in October 1918 on the death of Mr. Alexander in a shipwreck while travelling outside to negotiate the sale of the property. Litigation continued into 1922 when a decision was reached in favour of the heirs of the late Mr. Smith of Philadelphia. In 1922 the property was under an examination option by L.H. and N.A. Timmins.

New York interests began development work in 1923 and the Engineer Gold Mines, Ltd., Inc., was incorporated in Wilmington, Delaware, to operate the mine. The old crosscut adit was extended to a length of 1,200 feet in 1924. During 1925 over 4,000 feet of underground development was done on a 5th level and in exploration of 5 veins intersected by the crosscut before reaching the "E" vein. A 50 ton-per-day concentrator was put into operation in November 1925. In 1927 an interior shaft was sunk from the 5th level to the 6, 7, and 8 levels. Additional claims (Lots 4654-4656, 4657, 4659, 4667-6671) were Crown-granted to the company in 1927

Mineral Development Sector, Department of Energy, Mines and Resources, Ottaw 504463 ★

## **HISTORY OF PRODUCTION**

From 1913-1952, 17,157 tons of ore were milled. From this ore 18,058 ounces of gold and 8,950 ounces of silver were recovered.

## *IAP REFERENCES*

Map 19-1957, Bennett, (Geol.), Sc. 1":4 miles.

Map 94 A, Taku Arm, (Geol.), Sc. 1":4 miles - accomp. Memoir 37.

#Map 104 M, Skagway, (Topo.), Sc. 1:250,000.

<b>≀EMARKS</b>						
comp./Rev. By	DMacR	 	 	 	 	

## REFERENCES

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- Reports of Minister of Mines, British Columbia: 1900, pp. 760, 778; 1902, p. 39; 1903, p. 44; 1904, p. 80; 1908, p. 50; 1910, pp. 55, 57, 246; 1911, pp. 60, 287; 1912, pp. 60, 324; 1913, p. 72; 1914, pp. 79, 89, 512; 1915, p. 64; 1916, pp. 46, 438; 1917, p. 80; 1918, p. 90; 1919, p. 91; 1922, p. 91; 1923, p. 90; 1924, p. 77; 1925, pp. 113, 355; 1926, p. 106; 1927, pp. 112, 480; 1928, p. 123; 1929, pp. 120, 505; 1930, p. 122; 1932, p. 65; 1933, p. 73; 1934, p. B-35; 1944, p. 40; 1945, pp. 43, 61; 1946, p. 60; 1948, p. 60; 1952, p. 39.
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- Mines Branch, Ottawa; Investigations in Ore Dressing and Metallurgy; 1935, Rept. 763, pp. 3-5 (No. 609).

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PRODUCT GOLD	TERRITORY	LETZU COTOMOTS	N.T.S. AREA 104 M/8 REF. A					
NAME OF PROPERTY ENGINEER			RATION AND DEVELOPMENT (continued) r operations only were carried on from 192					
DESCRIPTION OF DEPOSIT (continued)			to 1930 when work was suspended. Lessee Reginald Brooks					
stringers some very rich small pockets of distribution. The gold occurs in the form thin leaves, fine dendritic forms, and son through the quartz in fine grains.	n of very thin scales,	selectively mined The assets of to The Mining Cor Lessees Forbes, K 1945 and were rep Ore was shipped f 1952 was done und The property who incorporated acquire the Engin Crown-grants. Nu-Energy Dev	high-grade ore during 1932-34. The company were sold at a Sheriffs sale poration of Canada, Limited, in 1934. Kirkwood, and Sweet worked the property in ported as owners of the property in 1946. From the dump in 1948. Further work in her the name Engineer Partnership, of Atli was acquired in 1962 or 1963 by interests Tagish Gold Mines Ltd. in December 1973 the her No. 1 and Northern Partnership 1-4 velopment Corp. amalgamated with Tagish					
		Gold in June 1975	y call Mines in 1982 AL 10					
· ·			Carlo La Star Ladary Paper is Smith 14/39/34 March 14					
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