

BRALORNE
PHASE II EXPLORATION

Prelim.
Jan 31/74

'51' VEIN

801579

- (1) Test 16-51 - 20-51 dip-interval @ 'contours' 200' and 400' 1651 E Drift, from a station in H.W. X-C, to be driven from 1651 E Drift.
- (2) Test 20-51 F.W. rel. to (1) target
- (3) Extend 1651 Dr. 400' to 600' eastward to test possible swing into eqn./sed. contact.
- (4) Drill one (120') ddh into h.w. of 20-51 @ 13+00 E to check sludge 10' @ 0.26(?)
- (5) Test F.W. split from 20-51 E / X-Sec. 3+00 E & 6+00 E.

51-F.W. VEIN

- (1) On 8-level, 10E-28E + general and local exploration for indicated and possible footwall and hangingwall vein strays and splits. Estim. average short hole @ 100', and occasional longer holes @ 250'.
- (2) Test up-dip and down-dip sections of vein, on indicated plunge, mainly re. X-Sec 16+00 - 26+00 E interval on 8-level.
Note assays on 14-level projection @ X-Sec. 18+00 E (in soda granite!)

Feb 5/74:

85 Vein (see 26-85 Dr) - explore up-dip from sig. into dunits if not already done.

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77 (B) VEIN (pending Orange-4 and 8 detail.

(1) Explore 4+00E - 24+00E strike interval between 14-20 levels. - parted across S.G. - Di contact.

* Re. End 14 lev.: note $\left\{ \begin{array}{l} 1.0' @ 0.67 \\ 1.0' @ 0.15 \end{array} \right.$ on offset (?) seg. of 77.
Possibly X-C to this and drift out eastward (and 200' westward). Note this in S.G.

On 20-level, note favourable trends over 9+00E to 18+00E. But note 20 lev mostly in S.G.
14 lev. largely in di.

54 VEIN

Note intersection on 31 lev. F.W. X-C. (in di C.R.'s)

52 + 52 HW.

77 H.W. - SECS 20-22 E.

UPPER S.E. MINE AREA.

check older mine records for addnl detail w.
objective of planning exploration of the wide di/gp
sections between 77/52 and Serpentine contact.

PHASE II EXPLORATION

'59' VEIN

(PENDING ADDITIONAL SEARCH OF MINE RECORDS AND ADDITIONS TO 100-SCALE X-SECS. & PLANS.)

1. Search records for 8-level data - character of vein, wallrocks, sampling, and production, if any.
2. If warranted by information in (1), explore up-dip and down-dip intervals via drill holes from 8-level footwall crosscut and drift (lateral?).

51-H.W. VEINS

- (1) Indicated segments at 20-level at 250' and 750' in h.w. of 20-77 between 20+00 W. and Empire Fault. - Test both by min. of 3 dia. drill holes.
- (2) Sugg. X-vein @ 19-level intersect by line 150' N. of Crown shaft. - Test via fan of short d.d. holes between 10+00 W and 18+00 W.
- (3) Parallel(?) vein at 300'-400' in h.w. of 20-51 between 1+00 W and 8+00 W.
- (4) Zone of (3+) parallel veins ('51' OR 51-H.W. SYSTEM?) through 31+00 W, 15.5 N. @ 30 level. Explore over 26-30 lev interval by drilling from suitable stations (to be) established @ 26-level. The requisite station (X-C) would also provide position to test more remote H.W. parts of the Bralorne lens in the general area of the Empire Fault. In re to latter, note N.W. trend of Hurley.
- (5) Test indicated structure (10-11 N) @ X-sec. 4+00 E.

BRALORNE MINE - 150' lev. intervals

SUMMARY-MIN. MINES REPORTS

- 1933 - A new (C) vein discovered on 8-level w. a strike @ $\pm 90^\circ$ to the main, or King vein \rightarrow good grade ore up to 15' wide.
- 6000' develop work on 6, 7, 8, 10 levels
- 1934 - On King vein found ore tended to occur in "horizontal shoots," (i.e. horizontal voids in vein)
- 1935 - 'Ida May' and 'Blackbird' veins opened on No. 6 level via Empire S. h. Ida May also develop on 10-level (Crownation Shaft).
Blackbird vein cut in Empire X-C (8-lev) from the King mine
* Total of 19,556 ft. of explorn-develop. work.
- 1936 * 21,466 ft. of development & exploration work.
Empire mine = Bralorne mine
orig. Bralorne = King mine (west of Empire Fault on 8-level)
- 1937 - Not signif. geol.
- 1938 - " " " "
- 1939 - Three more sections: 'King', 'Empire', & 'Crownation'
- 1940 - Not signif. geol.
- 1941 - " " " "
- 1942 - Some spans of scheelite at end of 5-level.
- 1943 - not signif. geol.
- 1944 - " " " "
- 1945 - A 4.5' wide overhead opened on 2051-East Dr.
- 1946 - Ore widths up to 11.5' during drifting on '53' vein.
- Drifting on '51' vein on 2000 level exposed a strong, well-ribbed, quartz vein.
- 1947 - Not geol. signif.
- 1948 - " " " "
- 1949 - On sinking Empire Shaft a new (85 vein) intersected 55' below 25th level. - assays & widths comparable to mine-average. Note: this plots (See 1400W) in vic of de/la g. contact.
* Check follow-up on 85' vein; extent of exploration & mining
1950. Some drifting & X-cutting on 85 vein on 26-level.
- 1951 - miners Basic wage incr from \$9 to \$10 per day. Nothing else
- 1952 - main develop on 77 vein between 21-26 levels.
- 205 drift on 24-57 veins from Crown-77 X-C. None of this = ore
'93' vein discovered by dia drill on 26-level \rightarrow narrow, but markedly high-grade.
- 1953 - prep. work for sinking Queen Shaft started 15' x 7 1/2' o/s diam
- work started on crosscut to Taylor (Bridge River) mine property on 20-level. This intersect the '95' vn. @ 970' and the '97' vn. @ 1810'. 47.5' dr. on 95 vn. showed low assay values.
- 1954 - Taylor-Bridge (20 lev) X-C reached 4050'
Continue Queen Shaft to 3100 lev.
- 1955 - Continue 77 develop & mining; some drifting on 77 vn below the King⁷⁹ mine on 2000 and 2600 levels.
- 1956 - Most of sub-2600 develop done on '77' and '93' veins.

CONT'D - BRN LORNE MINE VIA SUMM. OF MIN. MINES REPORTS

1957 - On 20-level extensive dia. drilling in area of King mine and Taylor (Bridge River) property.

1958 - F. R. Jubin becomes president.

S.S. Holton See maps p. 16.

Note 10-77 from Coronation shaft. Note also 10-51 Dr. + R.B. King extends further east than 20-51 drift.

Mine has 4 main sections:

- ① King (w. of E.E.) ② Queen ③ Crown, and ④ Empire, and original Coronation shaft (bottom level here is 10-level). Note property described in G.S.C. Mem. 213 pgs. 80-87.

* The N.W. striking (51, 77, etc) veins occupy shear-fractures which in effect are reverse faults along which the N.W. side has moved up and to the northwest (quite).

The E-W striking veins occupy tension fractures along which there has been little movement.

The Empire fault a reverse fault which offsets '77' and '51' veins to the north (no mention of ore control). Drifting on the west end of the 77 vein as far as 36-level had not reached the downward extension of the Empire Fault zone.

In the course of mining it has been found that the veins may veer from a S.E.-trending shear fracture to an easterly-trending tension fracture. Note also that below 28-level the 77 vein takes the course of the '93' veins and, in actuality, may occupy the '93' vein fracture. (Que. what about offset segs. below 26 level?)

77 vein now producing 94% of gold produced.

1959 - Prelone & Pioneer amalgamated.

1960 - Continued '77' develops to below 39-level.

Explor. dr. & dia. drill on 51B vein @ 4-level.

Rehab. of Taylor (Br. R.) N-Cut on 20-level done with intent to explore depth extensions of King structures below 14-level.

1961 - Not geol. signif.

1962 - F.A. McConigle, President. McCampbell Res. Mgr. J.S. Thompson, Gen. Supt. Exploration largely directed eastward towards the Pioneer mine. Drifting and/or crosscutting done on Nos. 4, 8, 20, 26, and 38 levels.

New ore developed on '52' vein on No. 20 level. Further develop. of the '77' vein could on Nos 36 and 37 levels.

1963 - Not geol. significant.

1964 - " " "

1965 - " " "

1966 - Developed ore on 43 level = 460' x 12.8' @ 0.70 g/ton. Intent drilling below 43 level has not indicated presence of a higher grade ore zone.

CONT'D. BRALORNE MINE VIA MIN. MINES REPORTS

- 1967 - Consideration being given to sinking below 43-level
(but note, if in 1974, would entail shaft rehab'n)
- 1968 - All production from '77' vein; a wing sunk
from eastern extension of 43-77 drift @ -51 degrees
for 198 and some drifting completed on 44-level.
Also dia. drilling from 48-level to test for western
extension of the '77' vein below the level.
- 1969 - not geol. signif.
- 1970 - " " "
- 1971 - Shut down Aug. /71. equip disposal started

SUMMARY - MINISTER OF MINES REPORTS

1933-40 - not signif. re geol.

1941 - '27' vein developed 1500, 1800 + 2000 levels

1942 - not signif. geol.

1943 - " " "

1944 - " " "

1945 - " " "

1946 - 25 lev. best to date on '27' veins \rightarrow 800' x 6'.

1947 - not geol. signif.

1948 - continued drifting '27' vein on 25-lev \rightarrow 1570' ore / 2000' dr.

1949 - not geol. signif.

1950 - not geol. signif.

1951 - " " "

1952 - " " "

1953 - " " "

1954 - " " "

1955 - " " "

1956 - " " "

1957 - " " "

1958 - notes main vein in strike N.W. + occupies a reverse fault comparable to the '51' and '77' veins
'27' vein lies less on N.W. side of main vein and structural N20°E, dips 55° N.W. Contains N.E.-striking shear elements and north-south striking tension elements.

1959 - not geol. signif. (Bralorne and Pioneer amalgamated).

1960 - ore pelered out @ 30-lev of '27' vein; other expl'n failed to reveal new ore.

1961 - not geol. signif.

Later years described under Bralorne - Pioneer.