

## Development

VICTOR

Drifts and crosscuts - - - 3908' 12-800900  
Raises and Wedges - - - 479'  
Diamond Drilling - - 4517'

### No. 5 Level

Lateral development of 41N footwall vein was done thru a 30' footwall crosscut from the old drift at map sec. 38, followed by a small amount of exploratory drifting. Subsequently a new footwall drift, collared at sec. 33+25, was driven to connect with the earlier development and advanced an additional 50 feet to the southwest. This development confirms an earlier estimate of 250 feet minimum strike length <sup>of ore</sup> on 5 level. The vertical extent is uncertain but should reach within the vicinity of 4-level.

Ore widths developed vary between 0.5- to about 2 feet of good sulfides.

It is proposed to advance this drift southwesterly to join the crosscut at sec. 41, <sup>sec.</sup> and continue exploration farther southwest if warranted.

Approximately 115 feet of crosscutting and drifting on #5 level-East was done to explore extensions beyond 5 I 11 footwall fault. Diamond-drill and long-steel test-holes indicated the veins extensive to consist of two or more strongly-faulted segments. Because of the proximity to the bedrock surface at this part of the level, further exploration will be directed from 41K-E Stope.

Total development on 5-level amounted to 420 feet of drifts and crosscuts.

## 4150 Sub-Level

A footwall crosscut off the main drift, and collared at sec. 24 was advanced 45 feet to facilitate mining 41K-E stope.

The west face of the sub-level was extended 36.5 feet for further exploration of the vein beyond 41Q5 stope. Further advance being impractical at present, a chute raise was driven from a short distance behind the face to the 9th floor of Q5 stope, which had been carried out as an exploration heading.

A total of 81.5 feet of lateral development was done on the sub-level.

## No. 7 Level

(A) #7 Drift East: From the main level 7M11 raise was driven 50 feet, and a footwall crosscut driven from this point to intersect the faulted extension of the 7M11 ore-block. Following 150 feet of drifting to the southwest, a connection was made with ~~the east end of~~ 7M8 stope. This work has developed a 100-foot length of ore, on the sub-level east of 7M8 stope.

Concurrently with the above ~~work~~ work, the sub-level was advanced 60 feet northeasterly ~~from the crosscut~~ and a service-ventilation raise driven to 4150 sub-level. Total sub-level drifting amounted to 264 feet.

(B) #7 Drift West.

Drifting was resumed from a point roughly 150 feet west of the known ore section and advanced to a point 230 west of 959 raise. The initial

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advance consisted of 460 feet of closely-timbered drift through a wide section of soft, contorted, flatly-dipping beds. Within this section the vein is represented by one or more sparsely-mineralized, tight, sinuous fractures which are frequently warped or faulted along their course across many bedding faults. Beyond this section, in the former West bedding-panel the vein is better defined and was followed, without much difficulty, for an additional 200 feet ~~southward~~. Within this section the vein shows greater strength and is generally well mineralized, with a total length of 60 feet of mineable ore so far developed on the latter section of drift advanced. at the year end the face carried 2 feet of high-grade mill feed.

A further <sup>productive vein</sup> length of <sup>at least</sup> 200-250 feet appears reasonably well-assured, at which distance the vein may terminate against the West porphyry body, or ~~continue farther~~.

Total drifts and crosscuts on 7-level amounted to 817 feet.

### No 3 - 3950 Sub Level

Drifting on this level was aimed to develop indicated ore reserves below 7 level and east of No. 3 wing. a total of 540 feet of drifting and crosscutting from the 3950 wing station has, to date, opened 450 feet of <sup>vein</sup> material. Approximately 50% of this forms mineable ore, with the remainder consisting of a heavy siderite filling, sparsely mineralized

with galena, sphalerite and pyrite. Development and mining upwards to 7-level, in 39-P ore block, has been accompanied by an over-all improvement in grade.

A total of 250 feet of drifts and crosscuts was advanced southwest of No. 3 wing. As in the East drift, zinc mineralization predominates, with about 80 feet of mineable ore opened to date - mainly in the latter section of the drive. The vertical extent of this ore section may be somewhat restricted, but will be tested by drilling from 9-level. Further drifting is scheduled.

A total of 800 feet of lateral development was accomplished over the sublevel.

959-3950 Sub level

A total of 358 feet of lateral exploration and development was done from 959-3950 raise station. To the southwest a 215-foot length of generally low-grade ore has been opened - on the upward extension of 9-58 ore shoot.

To the northeast, 100 feet of drifting has been done on a generally-weak vein section.

It is planned to continue the exploratory advance on both faces.

No. 9 Level

Drifting and crosscutting on this level totalled 757 feet. Four hundred feet of this were done on a sparsely-mineralized but wide siliceous fracture zone between 958 ore shoot and the ~~boundary~~ West fault zone. An additional 200 feet of

exploratory drift was carried into the West porphyry body.

A short length of narrow but massive sulfides was disclosed close to the West fault zone.

Following completion of #7 Drift-West, plans may be made for further exploration on 9-level.

No. 10 Level

A total length of 327 feet of drifts and crosscuts was driven. The larger part of this was done on a sinuous vein segments, generally mineralized with siderite and scant sulfides.

At the 300-foot point, the heading intersected a 3-foot width of clean galena with minor amounts of oxidized carbonates. This was drifted out for 15 feet, with some decrease in ore widths towards the present face.

Surface Exploration

A geochemical prospecting program over the outcrop area above No. 1 level was started.

Millage — — — (see elsewhere)

Building and Equip. — — (" " )

General

Lateral and vertical exploration of the West ore section will receive prior consideration in the immediate development program.

Ore Possibilities

(a) The indicated pattern of bedding folds, fractures, and mineralization within the West ore section, suggests the addition of at least a moderate tonnage of new ore in this area.

(b) Developments on the 5-level footwall vein indicate the addition of a substantial new ore block in this section.

(c) Recent work in 958 stope, and development towards the 3950 horizon, offer good chances for further ore discoveries throughout this section.

In general, prospects for productive development are present at several sections of the veins.

W M Sharp  
Mine Engineer

Scranton  
1898  
6.1906

11337 173.00  
11335  
59.50

1932 (p 180)

1939 - - RB Mahon - - 275' drifting  
1940 - - " " - - 800 drifting; 260' X-C.

1945 - - WT Graham - 3 mi rd.; no survey & develop.

1940 - - " " - - 2 1/2 " " " "

1947 - - " " - - 5 " " " "

1948 - - " " - - 9.5 tons shipped

1949 - - Mc Beach - - 192.0 " -

1950 - - RB Mahon - - 349.0 " -

1951 - - " " - - Summit inv. 1135.0 " -

1952 - - " " - - 2514.0 " -

4199.5 tons  
1251.0 with water  
1000 @ Summit  
6450 tons

1954 Rept, Overshipments - 1948-54 - 5613 tons. @  
0.22 Au; 10 Ag, 11.9 Pb; 10.0 Zn  
Pontard reppm = 1251 tons 0.15 Au, 10 Ag, 15.2 Pb, 15.2 Zn  
\* Total = 6864 tons

9.5 T @ 0.20 Au 10 Ag 11.0 Pb; 8.0 Zn  
192 T @ 0.40; 8 Ag 10.0 Pb; 8.0 Zn  
349 T @ 0.22; 8 Ag 11.0 Pb; 7.0 Zn  
Pontard { 1135 T @ 0.20 12 Ag 14.0 Pb 13.0 Zn  
Shipped - 1685

WORKING PLACE

Drifts and crosscuts - - 3908'  
Raises and winzes - - 479'  
Diamond Drilling - - 4517'

No. 5 Level

Development was largely concentrated on 5-level Footwall vein. Crosscutting and drifting amounted to 305 feet on a vein carrying good sulfides over widths of 0.5 - 1 to 2 feet.

This work confirmed an earlier estimate of a 250-foot strike-length on 5-level. The vertical extent of the ore shoot is uncertain, but it probably extends upward to about 4-level.

Further drifting and raising are scheduled for 1956.

On 5-level East, approximately 115 feet of crosscutting was done to explore easterly extensions of 5111 vein. Some success was had in this project, but as the heading had only a short distance to go to surface, work was stopped.

Total development on 5-level amounted to 420 feet.

4150 Sub-level

A footwall crosscut was advanced 75 feet eastward from mine sec. 24 to facilitate development and mining of 4111-E. Stope.

4150 W drift was extended 36.5 feet to allow a raise connection with the 9th floor of 41R Stope, which was carried out as an exploration heading. Subsequent exploration above this floor has exposed a promising ore section with good lateral and vertical possibilities.

A total of 81.5 feet of lateral development was done.



## (A) 7-Drift East

Work in this section was aimed at exploration for the faulted extension of 7M11-W vein segment. From the main level, at sec. 28+25', a raise was driven 50 feet and a crosscut driven northwesterly, above the fault zone, to the vein. A connection with 7M8 stoped drift was made through 150 feet of drift to the southwest. The sub-level was driven, concurrently, 60 feet to the northeast, and a raise driven through to 4150 sub-level.

The above work developed a 100-foot length of ore on 7M11 sub-level, probably continuous. Total drifting on 7M11 sub-level was 264 feet.

## (B) 7-Drift West.

This heading was advanced to a point 230 feet west of 959 raise on 7-level. An initial advance of 460 feet traversed a wide section of flatly dipping soft graphitic beds and faults, through which the vein extends as one or more tight, sinuous, faulted fractures. Mineralization in this section, is erratic, and ore apparently localized to minor favorable segments. Beyond this soft section, the vein enters a firmer bedding-panel and the vein appears stronger with more consistent mineralization. A total of within the last section of drift advanced, a 60-foot length of ore was exposed, with two feet of high-grade mill-feed at the face.

Total drifting and crosscutting amounted to 817 feet. *to be specified in the report*

No 3-3950 Sub-Level

A total of 540 feet of drifting and crosscutting from No. 3 wing developed 450 feet of vein, of which 200 feet, or better, is of mill-feed grade. Mineralization, which generally appeared weak throughout the east drift, showed considerable improvement, upward, in the section where 39-P stope was carried through to 7-level.

Southwest of No. 3 wing 250 feet of lateral development was accomplished. A length of 80 feet of zinc ore, from one to three feet wide, was opened within the last section of drift advanced. Further drifting is scheduled, after which the vertical extent of the ore will be tested by raising toward 7-level and up-hole drilling from 9-level.

A total of 800 feet of lateral development was done on this sub-level.

959-3950 Sub-level

A total of 358 feet drifts and crosscuts was driven from the 959-3950 raise station. Development in the west drift exposed a 215-foot length of fair milling ore, still open to the west. Development in this section of the mine added further information regarding the extent of the West orebody - now exposed from 9 level through to 7-level.

The east drift was driven 100 feet on a generally-tight vein segment in which zone mineralization predominates.

Further exploration to the southwest and northeast is warranted, and will be resumed at an early date.

No. 9 Level

A total of 757 feet of drifts and crosscuts were driven on the southwesterly extension. The initial 400 feet of this drive between 958 stope and the West fault followed a generally wide vein.

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section, showing evidence of pronounced silicification, but carrying only minor amounts of ore sulfides. This drive was temporarily completed with an addition 200 feet of crosscut into the large West porphyry body. Further exploration is pending the results of 7-level west exploration.

A short length of narrow, massive galena was encountered closely against the West fault zone.

#### No. 10 level

Drifts and crosscuts totalling 327 feet, for the largest part, followed a sinuous vein pattern, typically mineralized with strong siderite and sparse quartz and ore sulfides.

At 300 feet from the portal, the heading crosscut a 3-foot width of relatively clear galena. This was drifted out for 15 feet, with some decrease in vein width. Considerable lateral and vertical exploration will be required to define the extent of ore shoots in this part of the mine.

#### Surface Exploration

A geochemical prospecting program was started on the surface to the southwest of No. 1 portal.

Milling (see Don's sect. of rept)

Building, Equip. ( " " " " )

#### Ore Possibilities

- (a) The pattern of bedding-folds, fractures, and mineralization within the West ore section offers favorable possibilities for the development of new ore shoots above 7-level.
- (b) A substantial block of ore is indicated by recent developments on 5-level footwall veins.
- (c) Recent development and slope exploration between No. 3 wing and 959 raise provides favorable indications of new ore blocks in this section between 7- and 9-levels.
- (d) A moderate increase in ~~the~~ year-end ore reserves ~~target~~ has been attained.

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