

011123

Title Bridge River Manuscript

Author JSS

Date and Typist June 16/52 cs

One carbon copy, typewritten from the original manuscript, is on hand of each of the following:

Bralorne Mines Limited	55 pp	(Guggenheim mss)
Wayside	48 pp.	Jan. 17/52
B.R.X.	67 pp.	Jan. 17/52
Olympic	13 pp.	Feb. 19/52
Pinebrayle-B.R.J. Area	15 pp.	May 14/52
Pinebrayle	15 pp.	May 15/52
Alma	7 pp.	May 20/52
B.R.J.	6 pp.	May 20/52

The following figures are in Mr. Crabtree's office:

Bralorne - 7 figures, Key plan 300 feet to 1 inch, Plan and cross-section at 51 vein, Plan and cross-section of 53 and 53 HW veins, of 55 and 75 veins, of 59 and 77 veins, geology detail and veins on 1400 level, and Empire fault detail. Dec. 10/51

Pioneer - 5 figures, Plan and cross-section of Main vein, Longitudinal section of Main vein, Plan and cross-section of Footwall vein, Plan and cross-section of J vein, and Plan and cross-section of 27 vein, Dec.10/51.

Wayside - 5 figures, Property Plan 300', Mine Plan 40', Longitudinal Section, and two Vertical Sections. Jan. 17/52.

3 old Wayside prints showing mine plans and assays.

Pinebrayle - 3 figures, Short o' Bacon Adit, Ogden Adit, and Native Son Adit. May 9/52.

B.R.J. - 2 figures, B.R.J. 1 inch to 50 feet and 1 inch to 20 feet. May 9/52.

Alma - 1 figure, Alma Adit. May 9/52.

Pinebrayle-B.R.J. - 1 figure, note on mss May 9/52 held for cleaning up. Note June 9/52, still held.

B.R.X. - 2 figures, Plan of California workings, and Plan and longitudinal section, Arizona and California workings. June 9/52.

Olympic - 1 figure, Plan of Olympic mine. June 9/52.

Suggested Table of Contents June 9/52.

1.036.233  
 10 1.47  
 16 348  
 9 206

339.406

1.071.934

"E" block. p. 17 -

P. 17	"SS" vein "SS H.W."	13-16 on 1400	check.	milling/mo.
33	mill heads	.5069	.4767	4500
35			.343	14.000
36			.411	
37	capacity SS0tm		.516	14.224
38			.597	15.000
39			.592	15.300
40			.548	15.900
41			.545	15.950
42			.547	14.400
43			.632	< 10.000
44			.662	9.000
45			.565	8.600
46				
47			.470	11.000
48			.522	12.300
49			.477	14.800
50			.435	15.400
51			.489	14.000
52			.439	14.500
53			.39	15.000
54			.37	15.000
55			.408	13.800
56			.501	11.500
57			.657	11.800

from  
company  
annual  
reports.

Baldom.

← N





Pioneer

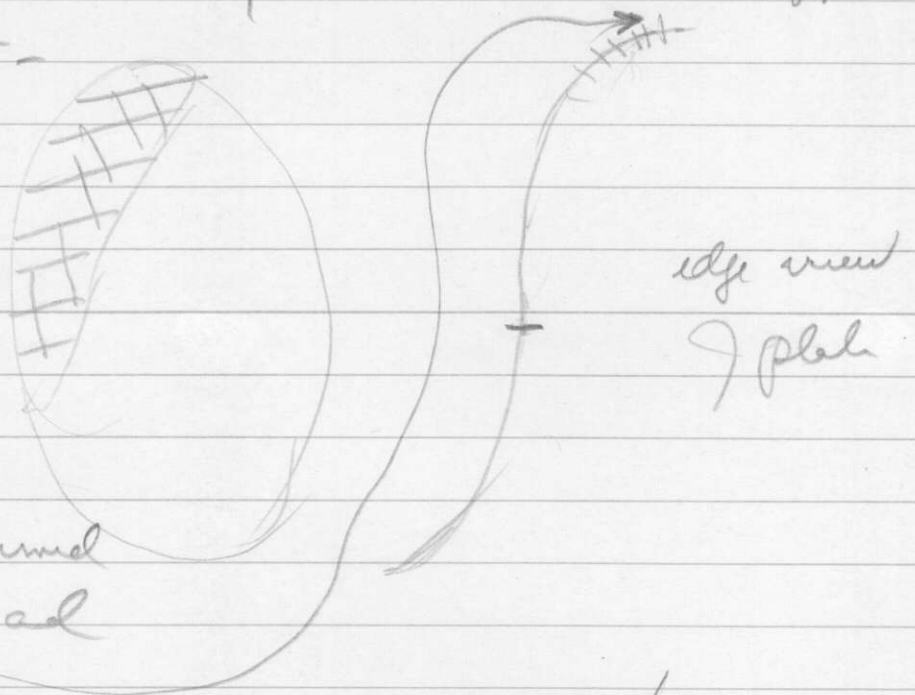
- ① I am not very happy about the 27 vein being along shear direction - there are two ages of movement along the veins that are opposed.
- ② There should be a discussion of localities of ore on "27" vein.
- ③ There should be a discussion of the distribution of gold on the veins - by assay contours and quantities / 100 sq. ft. of F.W. diagrams.
- ④ The vein description would have been immeasurably improved by illustrations:
  - (a) of vein character along section of drift
  - (b) slope back ~~traces~~ diagrams
  - (c) diagrammatic sketches of fracture relationships
- ⑤ Section - better - too long.

according to Alan Stanley it is in the upper

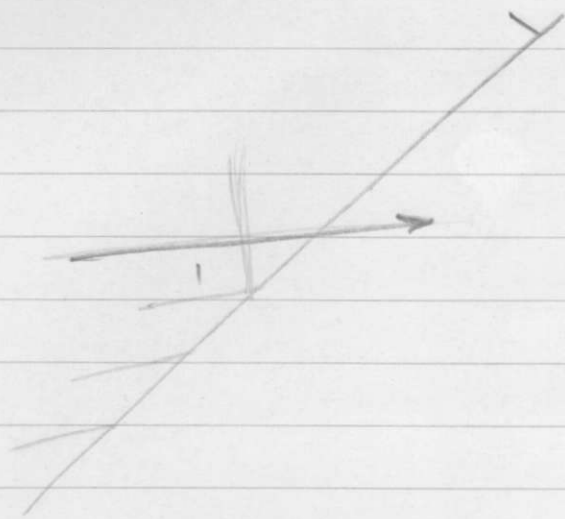
part of the vein plates - and commonly at the flat terminus of the plate.

A rigid study of gold distribution would show that much of the quartz mineral was sub-commercial and

gold distribution pattern would vary considerably from the stepped pattern - the same could well apply to the main vein.



I examined some of the critical outcrops with Alan Stanley  
on which Loubser's fold analysis is based - certainly  
they are not supposed to support the structure he  
built on them - I would be most hesitant in creating  
a structure on them alone - and yet that is what  
was done and in addition a considerable amount  
of money was spent on exploration based on ideas  
derived from the structure.



Pioneer

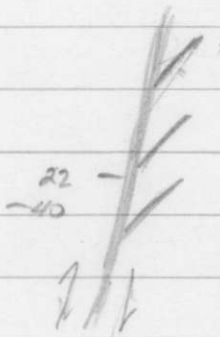
25



26-66



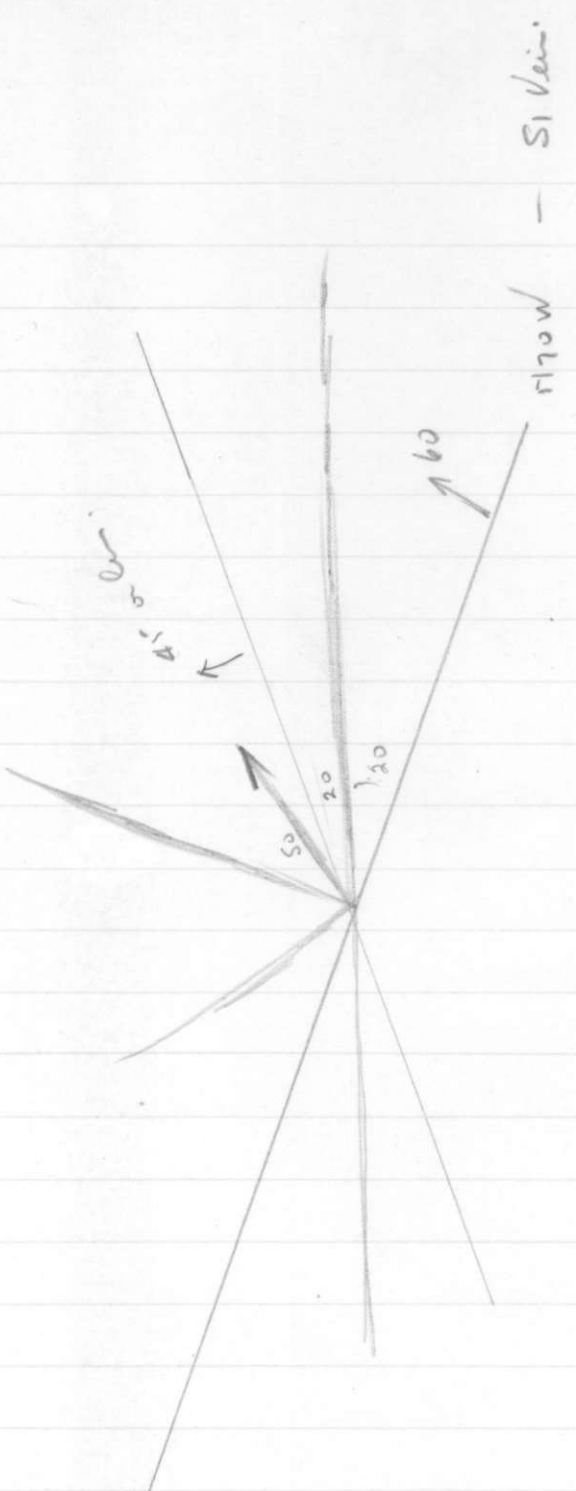
28 L.



↑



27 L.







What is average current melting rate.

3 8.52

$\frac{6}{25}$

11.766

12/141.192

12

21

12

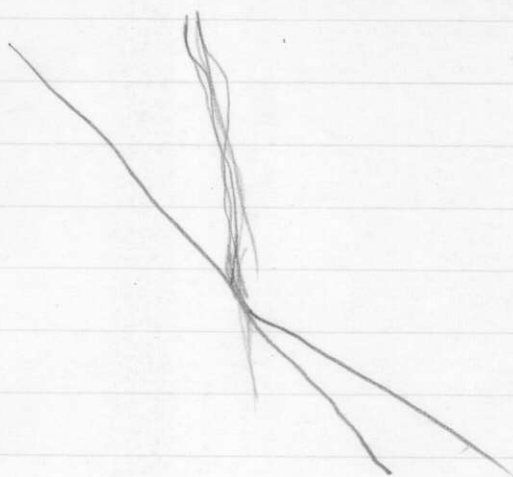
91

84

79

12

72



~~P. 17 check 1200 level map of Empire fault.~~

P. 18 check 2000 level map for length wall of Empire fault.

length of 51 vein.

is SSE on 1300 & 1400 slope ✓

check 75 vein on 1800 & 1900. ✓

75 vein on 1700 level. P. 47. ✓

Seems like too much history of development.

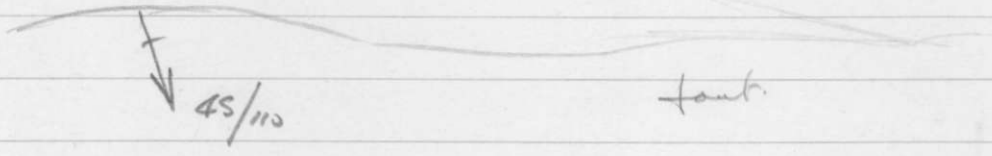
p. 20 - I don't like this theory regarding "deionylation" and consequent dating of the serpentine

p. 26 dragfolds in ribboning - there is repetition in the paragraph - there is no evidence that the dragfolds are not originally in shear zone and preserved by replacement even though he "thinks" otherwise. - I think otherwise.

second ribboning is later and the result of post vein movement along the vein.

see also p. 30 - I think this view is correct.

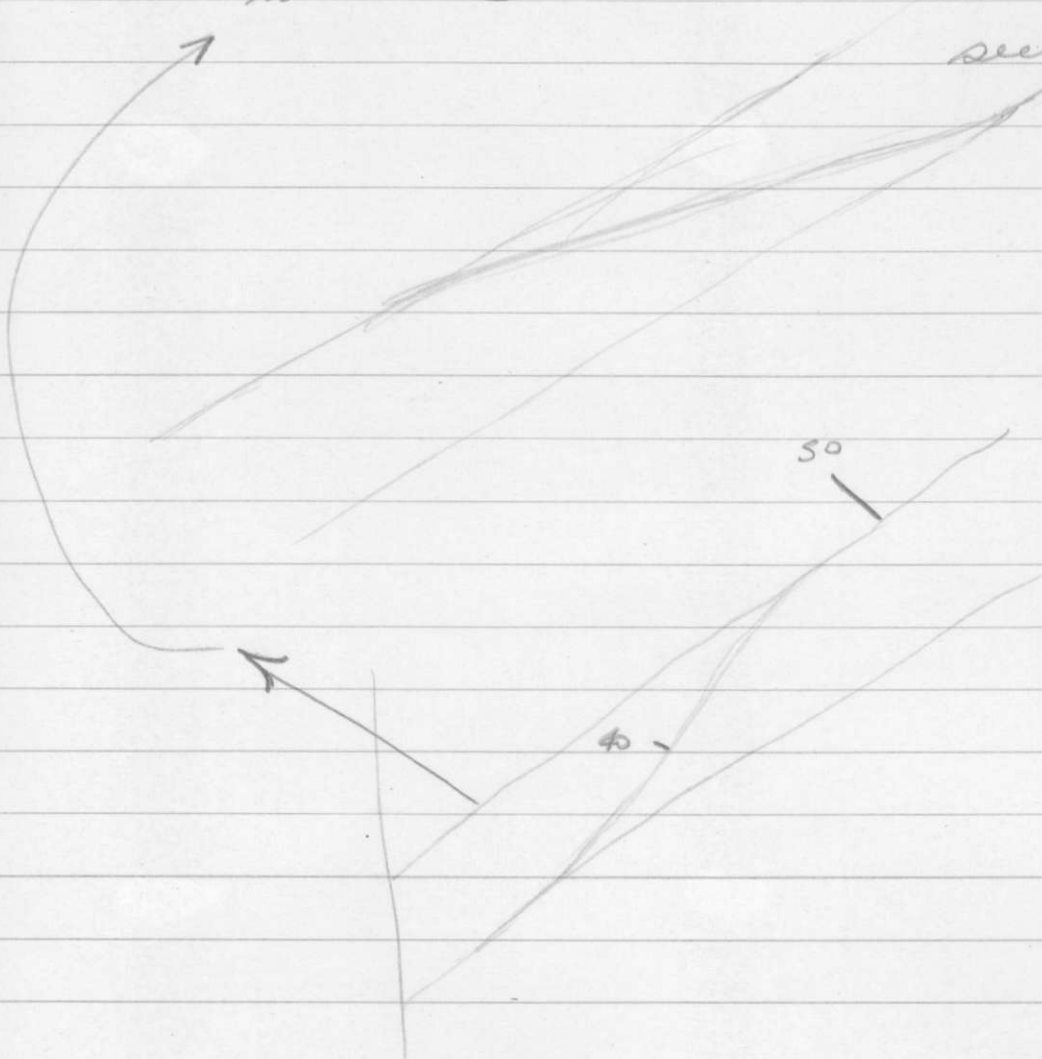
stope back



million dips 45° @ 110°

to 50 @ 125°

section look NE



50

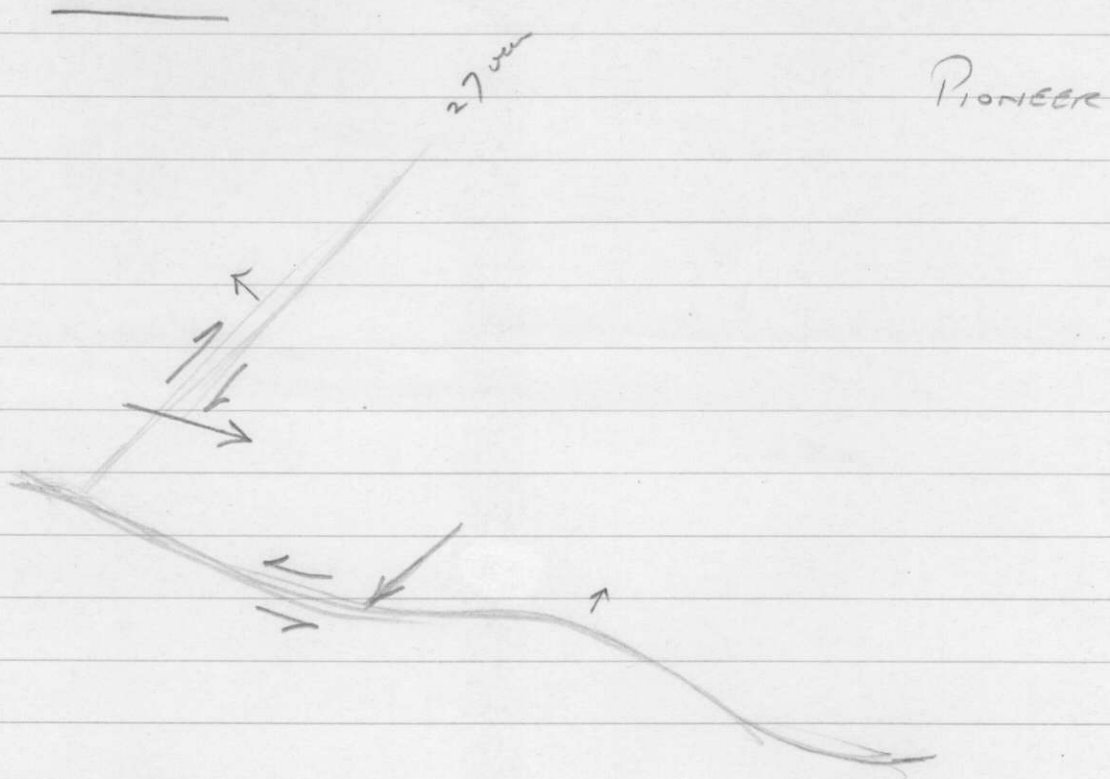
40

plan

p. 34.

N60W — West.

N55W



p. 39 — "split" — the paragraph is obscure.

Production from separate veins?

89. - 92 get 100 scale print showing location.

At Bralorne left hand swings are to lower duct  
it should wedge



Skull shows '27' vein and Toolwell vein are the same and are displaced along Main vein fracture.

Main vein moved 500 up dip

27 vein a reverse fault with thrust up 250'

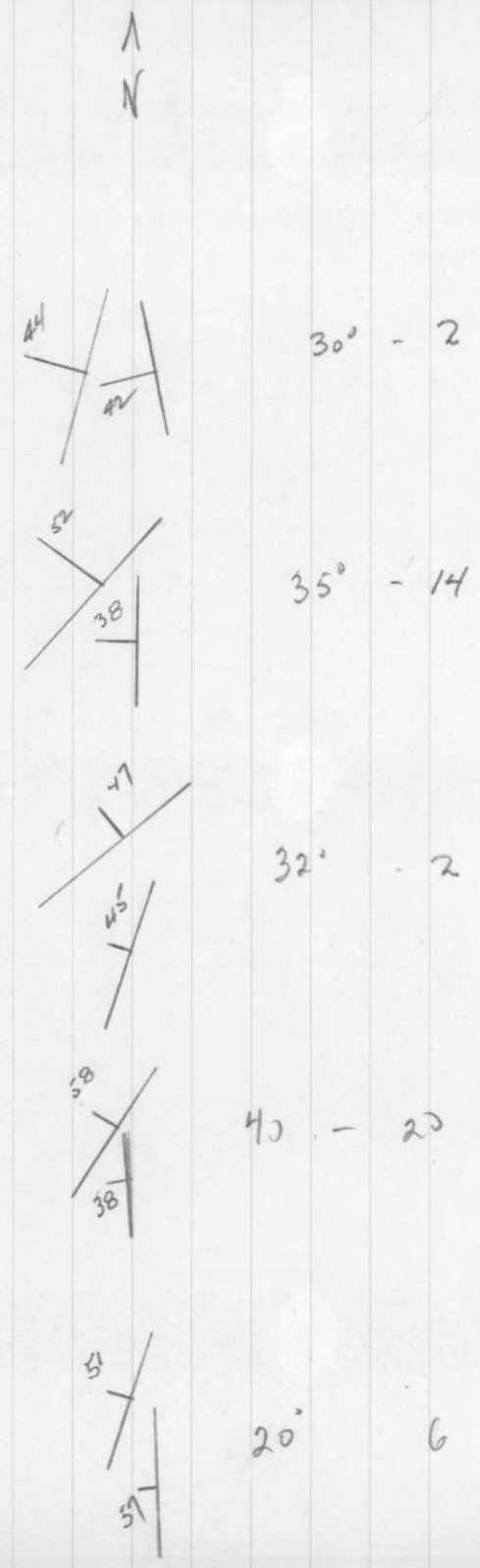
there is no mineralization going on the vein despite vertical range of 4000 feet

27 vein crestal islands from T9 to 29 levels exploration on upper levels developed only sub marginal grade ore.

Zone of high grade ore where veins are capped by serpentine

- ① moved along contact kept fracture open.
- ② overhanging contact channelled large volumes of mineralizing fluid along contact and fracture

PIONEER MINE.



Sandier has slightly more westerly strike than does the vein - from 20-40° more westerly - i.e. trace cuts across from footwall to hanging wall and with slightly flatter dip than does the vein



if these represent fracture cleavages or if they are in response to movement then movement ~~must have~~ on 27 vein must have been <sup>down</sup> HW H and up with respect to foot.

Pioneer Gold Mines.  
B. C.

26<sup>th</sup> August '58.

Dear Stewart,

I hope that this letter arrives in time to catch you in Victoria before you leave on a field trip. Things here are very much the same as before with out any tons being added to our reserves. For re things have been going reasonably well - I have found a suitable trailer already set up in a trailer court in S. W. Marine Drive, the only trouble now is to find the money, but that is not impossible to find.

But the main purpose of this letter is to give you the information you wanted about the banding in the 27 Vein. These readings were taken in the stopes where the back and the rib can be seen, so that a reasonable accurate dip can be found for the banding, for on a plane surface only, it is impossible to get a true reading.

I have plotted the readings on a plan, but it looks a bit bare, with only 4 sets on a sheet of paper. The readings were taken about 800 feet apart on the horizontal, and 375 feet vertically. They seem to differ in dip direction by about  $20^{\circ}$  -  $30^{\circ}$  to the South. I took the <sup>bearings</sup> readings of both dips of the vein and the banding so that any effect of steel, wires, slusher hoses, or chain blocks which are normally fastened to the ribs of the stopes, will not show

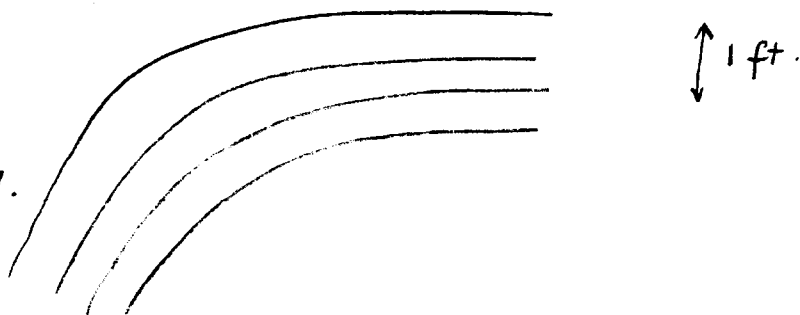
The readings are recorded as follows.

Stope.	Vein dip. °	Banding dip.
26 - 112	44/285.	42/255.
26 - 118	52/305.	38/270.
27 - 77	47/320.	45/288.
28 - 64.	58/300.	38/260.
29 - 63.	51/285.	57/265.

The variations in the actual dip of the banding are not of importance, but the general dip direction seems fairly constant. This I hope is sufficient to show any tendencies, but as the time passes much more information will be accumulated.

As a feature of interest, in 28-64 Stope in the sub drift, a blast did not break clean to the hanging wall, but to some banding planes, showing the normal lineations which could be followed as they 'bent' and became almost horizontal, - I consider this to be the results of minor adjustments of the vein after formation. The lineations show a series of concentric arcs, only about 2 feet, were visible, of the banding, which was identical on several bands. See diagram.

View of banding lineations -  
looking from F.W to Hanging Wall.





The actual showing is small, the rest has been blasted from the hanging wall. The general appearance is that it does not extend very far in area although it may be shown to be in several layers of banding.

I hope this can be of help to you, as work progresses I hope to show a few more interesting side lights. If you do need a plan to visualise the positions of the readings I can send one.

Yours sincerely.

Alan,

Insert p. 50

Pioneer

"131" The "131" vein strikes N 80 W and dips 70° to 75° north. ~~and~~ It <sup>was intersected</sup> at the extreme northeastern end of the drift on 27 vein on 26 level close to contact against the Hurley argillite. The vein is drilled 180 feet westerly on 26 level and for short distance on 27 and 28. The vein is narrow and uncommercial.

Insert p. 41.

"92" vein <sup>an</sup> On 20 level from No 3 shaft ~~and~~ exploration crosscut driven in the footwall of the main vein for 140 feet due south then 1205 feet at south 28 degrees east encountered the "89" vein. The vein strikes N 55 to 70 degrees west and dips 65 to 75 degrees northeast. It is northwestern end the vein is in soda granite and strikes more westerly than its southeastern end which is in greenstone. The vein is followed for about 600 feet northward of the crosscut and about 1100 feet southeast. The vein ranges up to 5 feet in width but averages ~~about~~ <sup>roughly</sup> over 2 feet. No stoping has been done on the vein.

"89" vein

96.

The "89" vein lies 250 south, on the hangwall side of the "92" vein. It strikes N 60 W and dips about 65° northeastern. It has been drilled for about 950 feet. It is a narrow vein containing a few ~~spot~~ <sup>high grade</sup> spots.

Bralma parhupatu - Ace on Dec 1959

surf 0.46, accn 2' for 45' bank.

shale due north & 57' W.

quartz, siltstone, arenaceous.

benchmarked irregular intervals for 600 feet along strike  
up hill to N. well widths of 6.5-9'

assess } 0.28 accn 27' }  
1.11 " 2.0' }

0.78 accn 11' } core

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Northwest Okla 1939 slopes in 2 steps 11 m