1780007

(5)

(4-3)

(III)
Item 7

EUREKA CORPORATION, LTD.
EUREKA, NEVADA

Oct. 7, 1942.

Mr Jay A. Carpenter,
Director Mackay School of Mines,
Reno, Nevada.
Dear Mr Carpenter:-

Enclosed please find a couple of small prints showing the timber sets that we are using at the Fad shaft. I am also enclosing a couple of snap shots that show the shaft and the temporary gallows frame and for location, the picture looking south shows a small part of the Phoenix dump and the picture looking northeast shows beyond and to the right of the shaft, Caribou Hill with the Diamond range in the distance. In the latter picture, the office would be about 300 or 400 feet to the southwest of where I stood to take the picture.

The engine room is sitting on Pogonip limetsone but the shaft started down in gravel, then went through rhyolite tuff, some of which you can see at the south end of the shaft dump, then went through a little more gravel, then some intrusive rhyolite, similar to the tuff, then a little more gravel and then into Pogonip limestone. At 260 feet, it entered the Dunderberg formation and is still in that formation at 418 feet but we are without doubt in the last 20 to 30 feet of the formation. However, the beds are standing between 60° and 80° so it may be farther vertical than the 30 feet through the for--mation.

At 235 feet we encountered surface water, held in the thin Pogonip beds and in the Dunderberg. This water has averaged about 10,000 gallons per day but reached at one time about 15,000 or more. We do not expect to have water when we reach the Hamburg dolomite, ex--cepting this surface water which will probably continue, until we reach a depth of 1000 feet or more. At that point, we will reach the permanent water level and can expect from 500 to 1000 gallons per min--ute and at times possibly more.

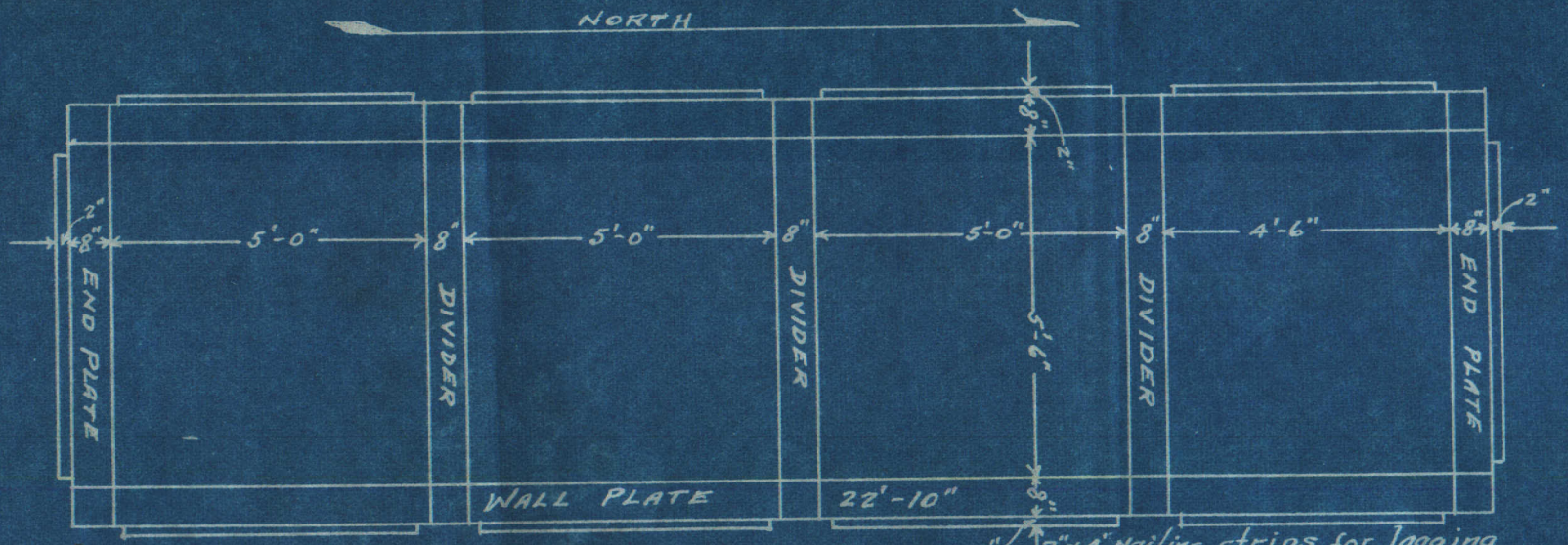
Our present equipment consists of the same hoist and com--pressor that we used at the Locan shaft, viz. an American Hoist & Derrick Co. hoist connected to a D13000 Caterpillar diesel engine and a Sullivan compressor connected to a similar unit. This equipment is good to about 1000 feet and below that heavy diesel equipment will need to be installed to continue the shaft to 2500 feet. We also have in mind, cutting a large station and with a rotary rigg, drilling a 20 inch hole and installing a submersible pump to keep the water level below the bottom of the shaft.

We are working three shifts with 4 men in the shaft on each shift and as you know, the present hoist is only a single drum. We have a top man and an engineer on each shift and a carpenter and helper on the day shift.

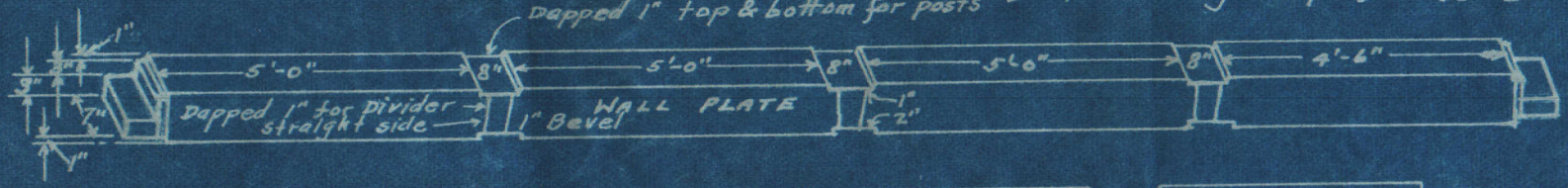
I think this gives you all of the information that you desire and hope the prints are plain enough for you to read.

Yours very truly,

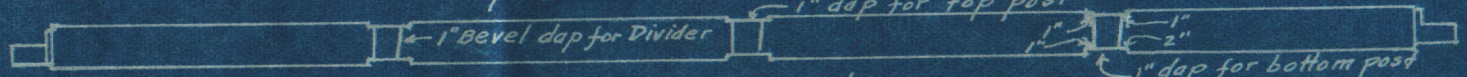
Wm Sharp



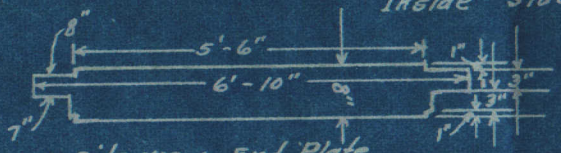
2"x4" Nailing strips for lagging



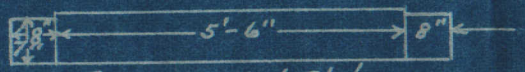
Top View Wall Plate



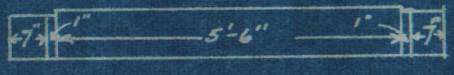
Inside side View Wall Plate



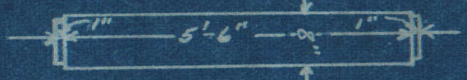
Side view End Plate



Top view End Plate

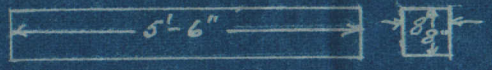


Bottom view End Plate



Side view Divider

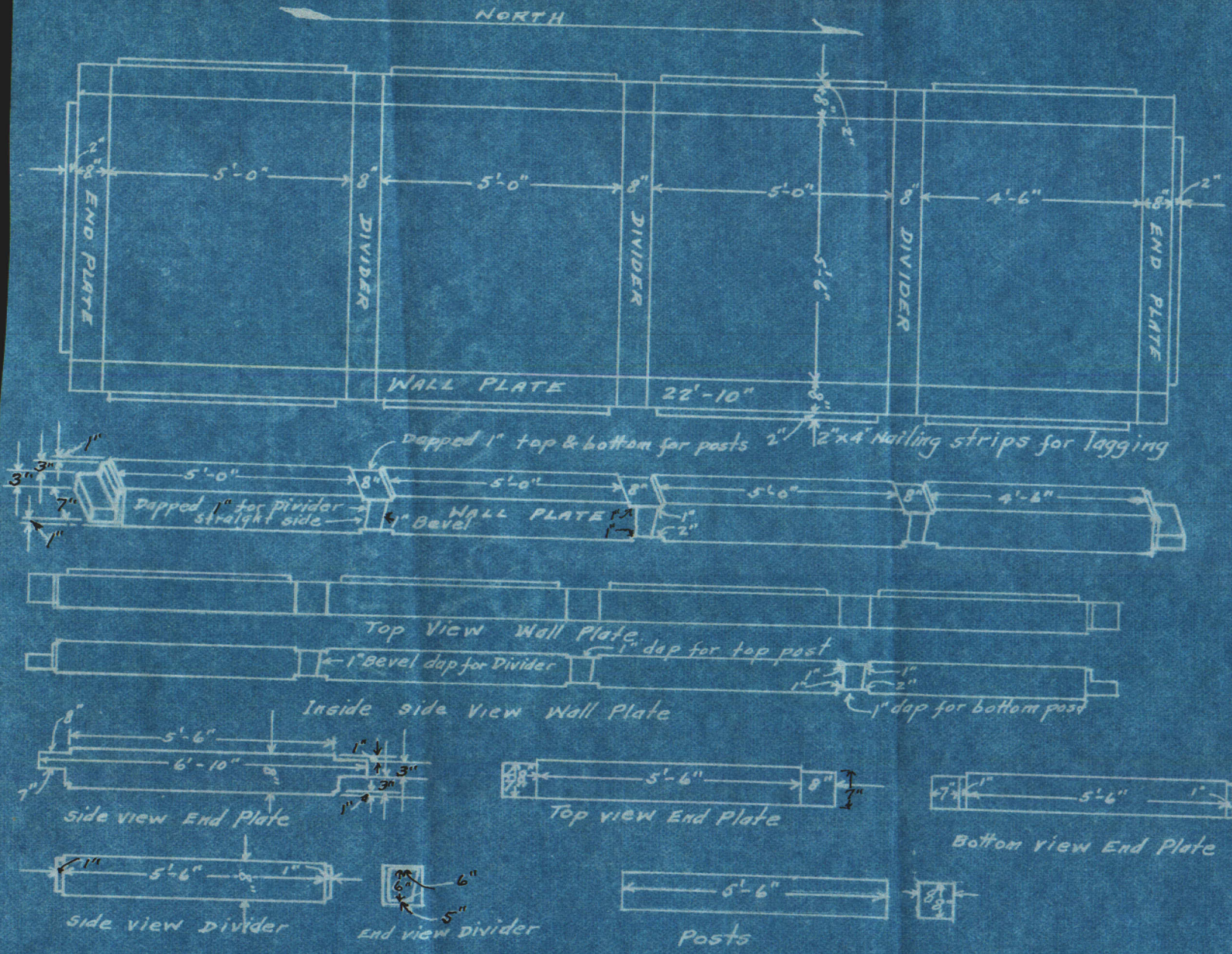
End view Divider



Posts

TIMBERS IN FAD SHAFT, EUREKA, NEVADA.

Item 7



TIMBERS IN FAD SHAFT, EUREKA, NEVADA.

Eureka, Nevada
Oct. 19, 1947

Prof. Jay A. Carpenter
Director Mackay School of Mines,
University Station,
Reno, Nevada.

Dear Jay:

Under separate cover I am sending you some copies of the "Story of Eureka" that was finally published after a couple of years.

I am also enclosing a colored section showing changes made by development and showing some other changes to be made eventually.

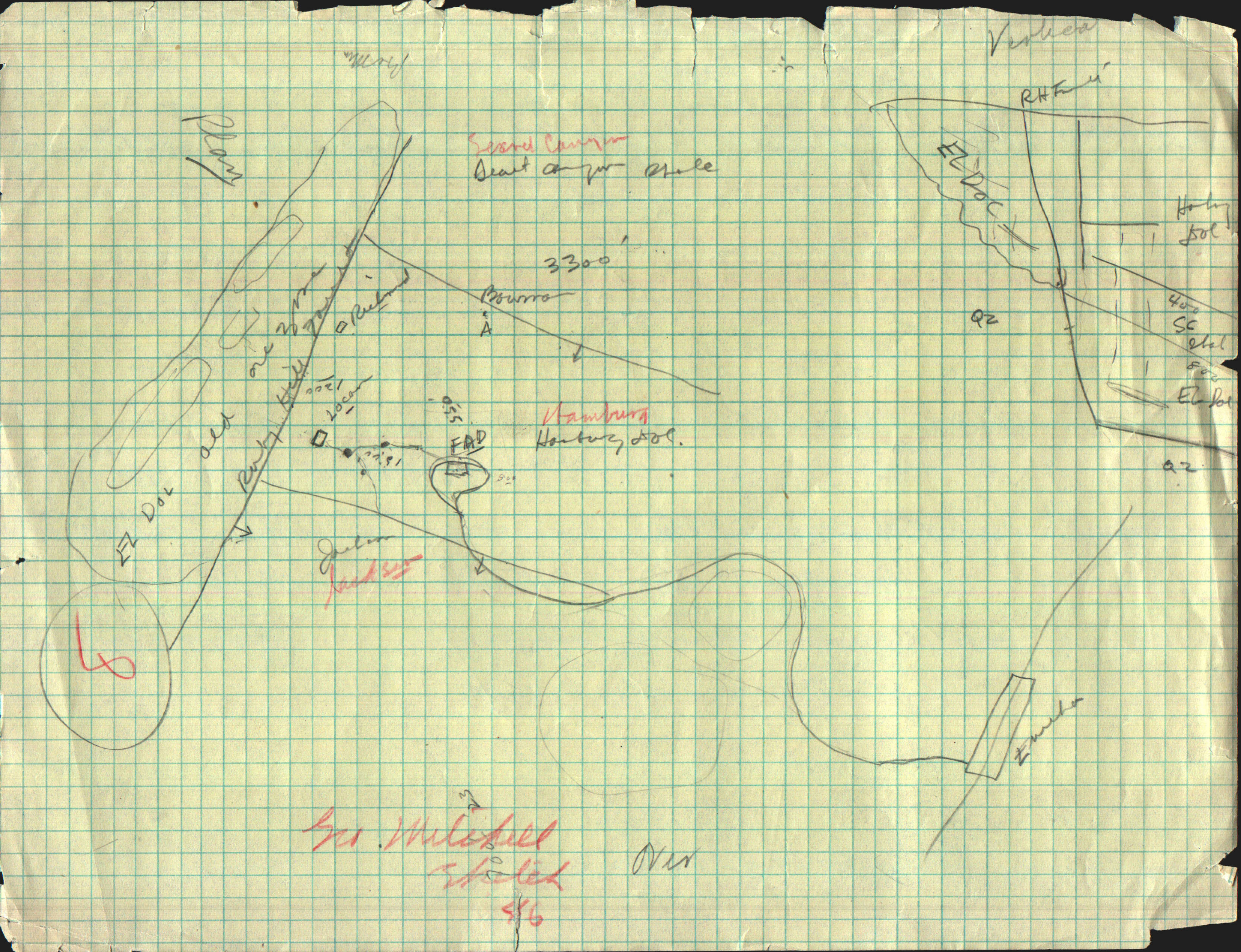
We entered the Dunderberg shale on a flat thrust plane, 15 feet below the 2nd level, entered Hamburg dolomite at 1050 feet and as you will see by the colored print, the Secret Canyon shale started to enter the shaft just a short way below the 1684 level but was dropped on the west dipping Martin fault and didn't come in again until 2099 feet.

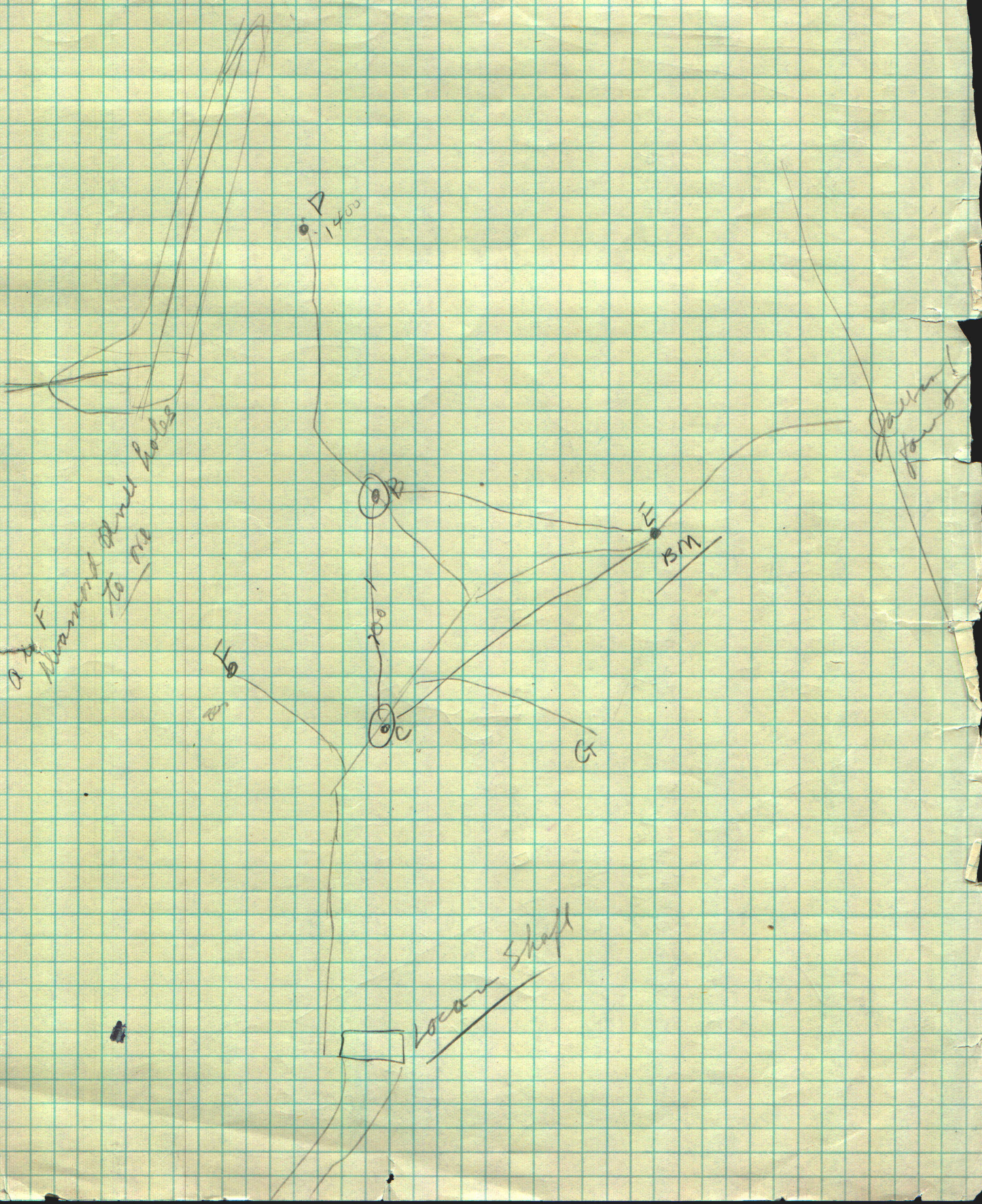
The Martin fault is evidently older than the Adams Hill fault as with a drop on the Martin of the Hamburg dolomite at the point indicated the Hamburg would be too thin.

Hoping these will be of some interest to you, I am,

Sincerely yours

Wm Sharp




D
1400
B
700'
C
E
BM
G
F
A to F
Diamond drill holes
to me
Locan Shaft
found

Sept 1942 Eureka Corp. at Eureka

Fad Shaft looking N.E. 9/13/42
SW. 3400 ft. to opposite

Sept - Eureka Corp. at Eureka
'42

107?
418'
dump

← Phoenix Dump

Fad Shaft. looking south 9/13/42

1st Gravel - Pogonip lime - Rhy tuff - Rhy. - Pogonip lime - Dunderberg then ± 260'

(11)
item 7

218

RUBY HILL

STOPE

RICHMOND

STOPE

RUBY HILL FAULT

FAULT

LOCAN SHAFT
EL. 7004

EL. 6965'

FAD SHAFT

EL. 7000'

ADAMS HILL FAULT

EL 6143 "C" "F" "B" "E" "D" 2ND LEVEL

OFFICE FAULT

1200 LEV.

1080'

1684'

2100'

MARTIN

EL. 6000'

EL. 5000'

EL. 4000'

LEGEND

Tqm	QUARTZ MONZONITE
Op	POGONIP LIMESTONE
Ed	DUNDERBERG SHALE
Eh	HAMBURG DOLOMITE
Esc	SECRET CANYON SHALE
Eg	GEDDES LIMESTONE
Ee	ELDORADO DOLOMITE
Epm	PROSPECT MTN. QUARTZITE

0 200 400 ft.

SCALE 400 FT. = 1 INCH