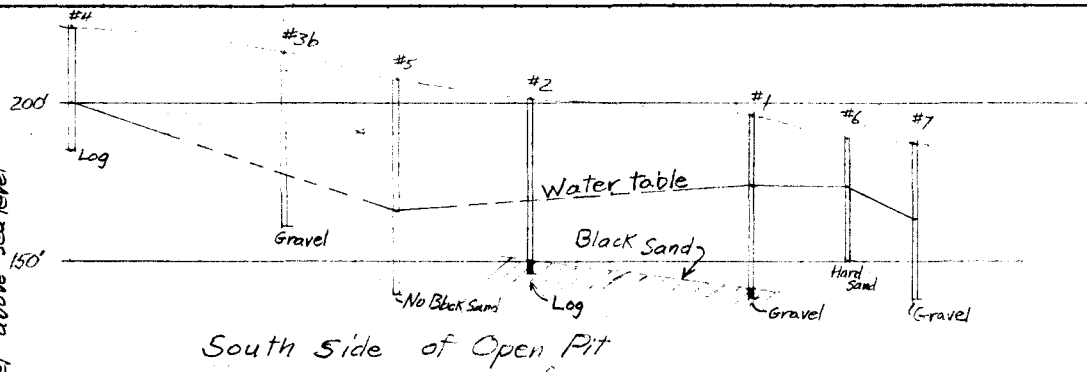


← East West →

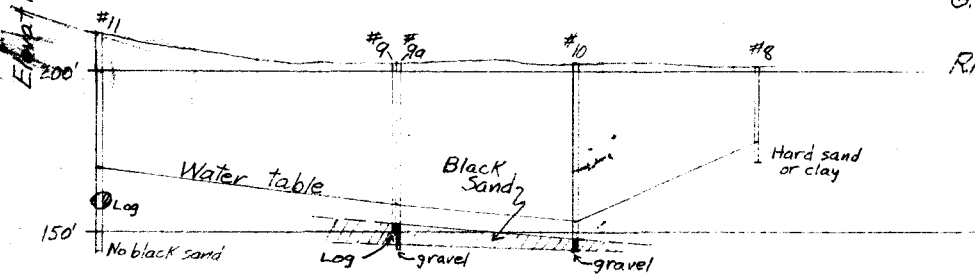


South Side of Open Pit

Horiz. Scale : 1 inch = 100 feet

Data by:  
 G.A. Ryneanson  
 (Holes #1-6)  
 R.H. Cowie  
 (Holes #6-7)

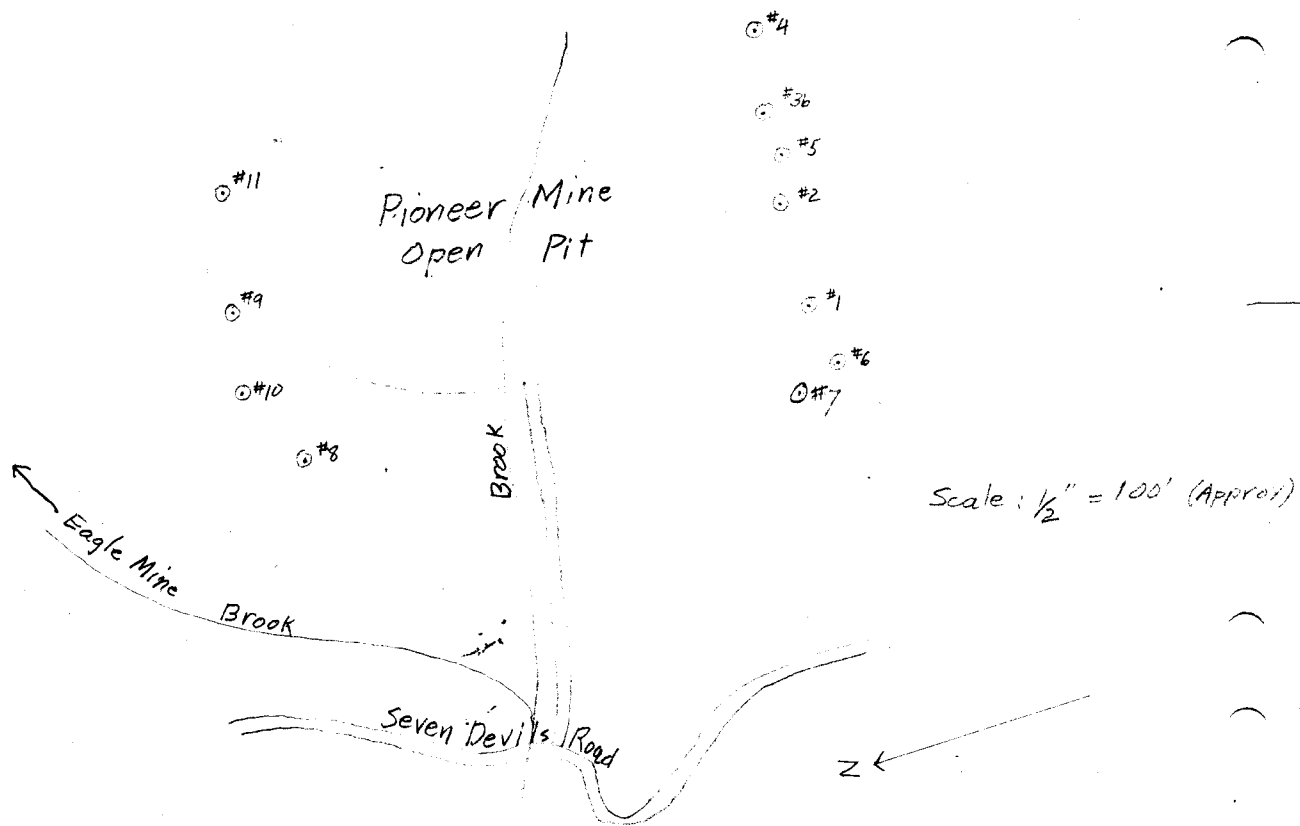
Cross-sections of Drilling  
 Black Sand Exploration, Pioneer Mine,  
 Bardan, Oregon, June 12 - July 6, 1940



North Side of Open Pit

Plan is on reverse of this page

Sketch Plan of Pioneer Mine  
Showing Location of Drill Holes

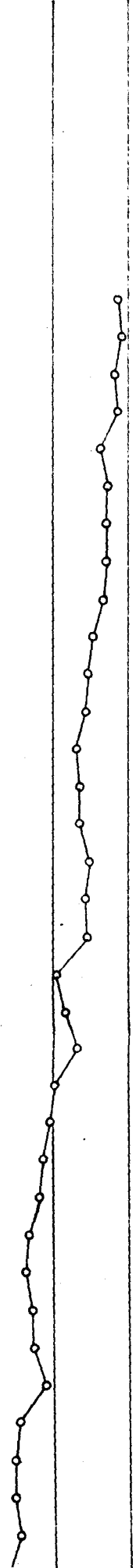


GAMMAS

+50  
0  
-50

600 400 200 0 200 400 600 800 1000 1200 1400

FEET (a)

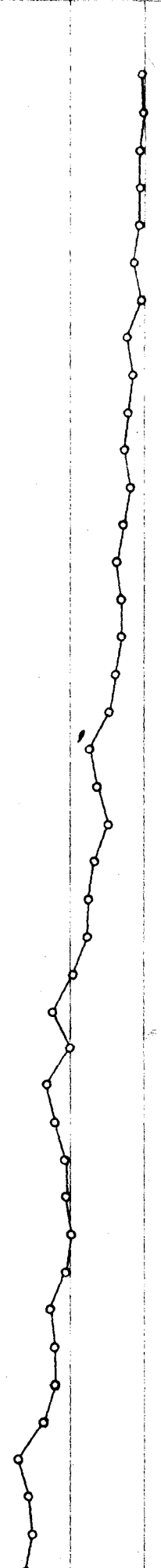


GAMMAS

+100  
+50  
0  
-50

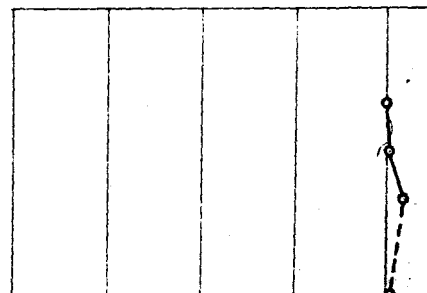
600 400 200 0 200 400 600 800 1000 1200 1400

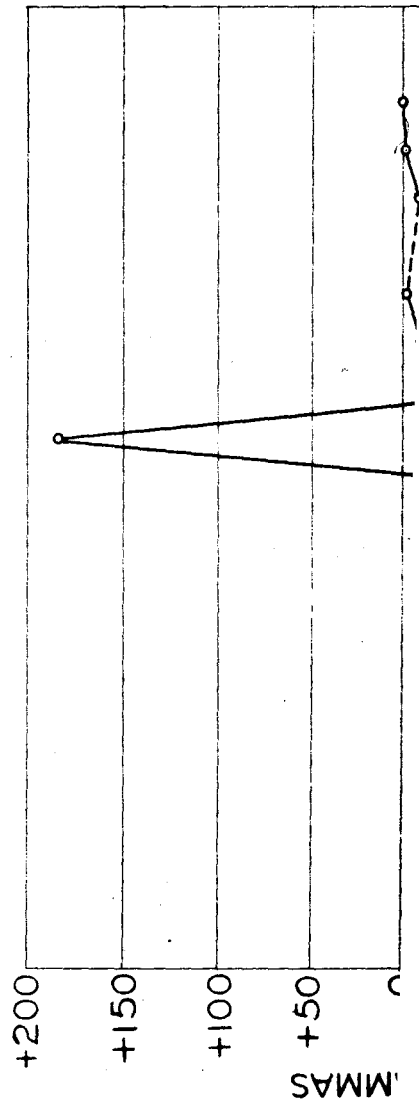
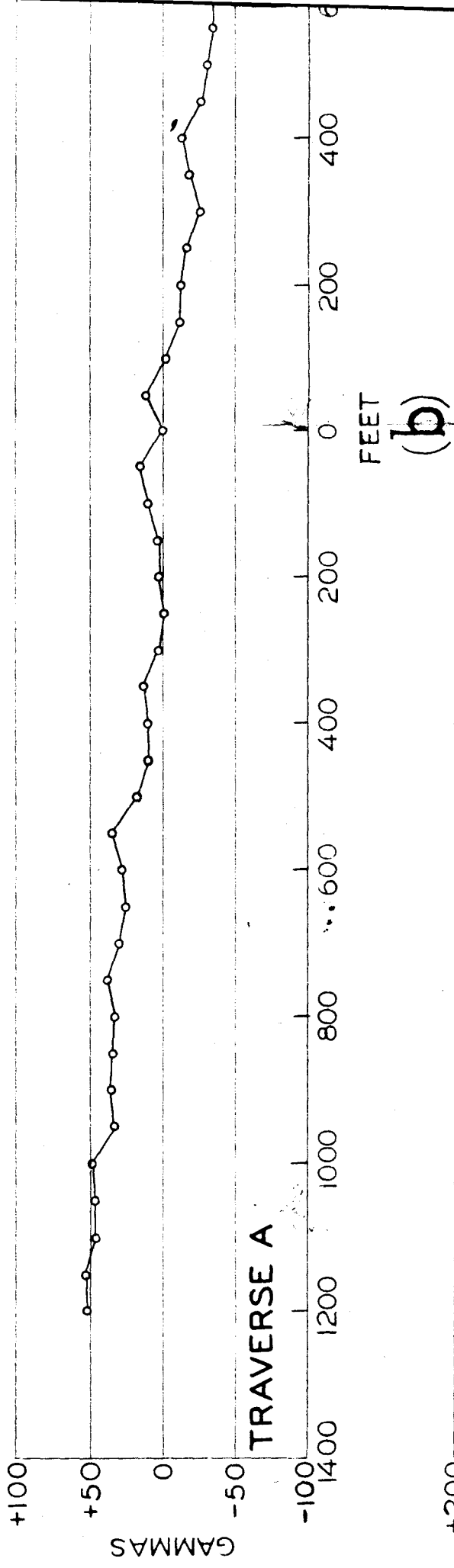
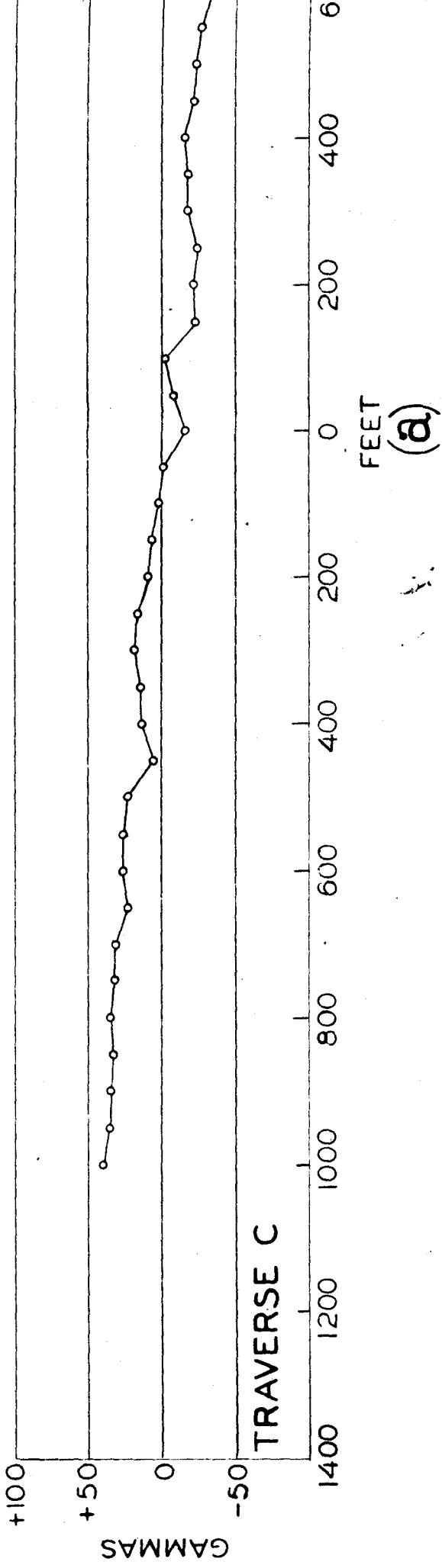
FEET (b)

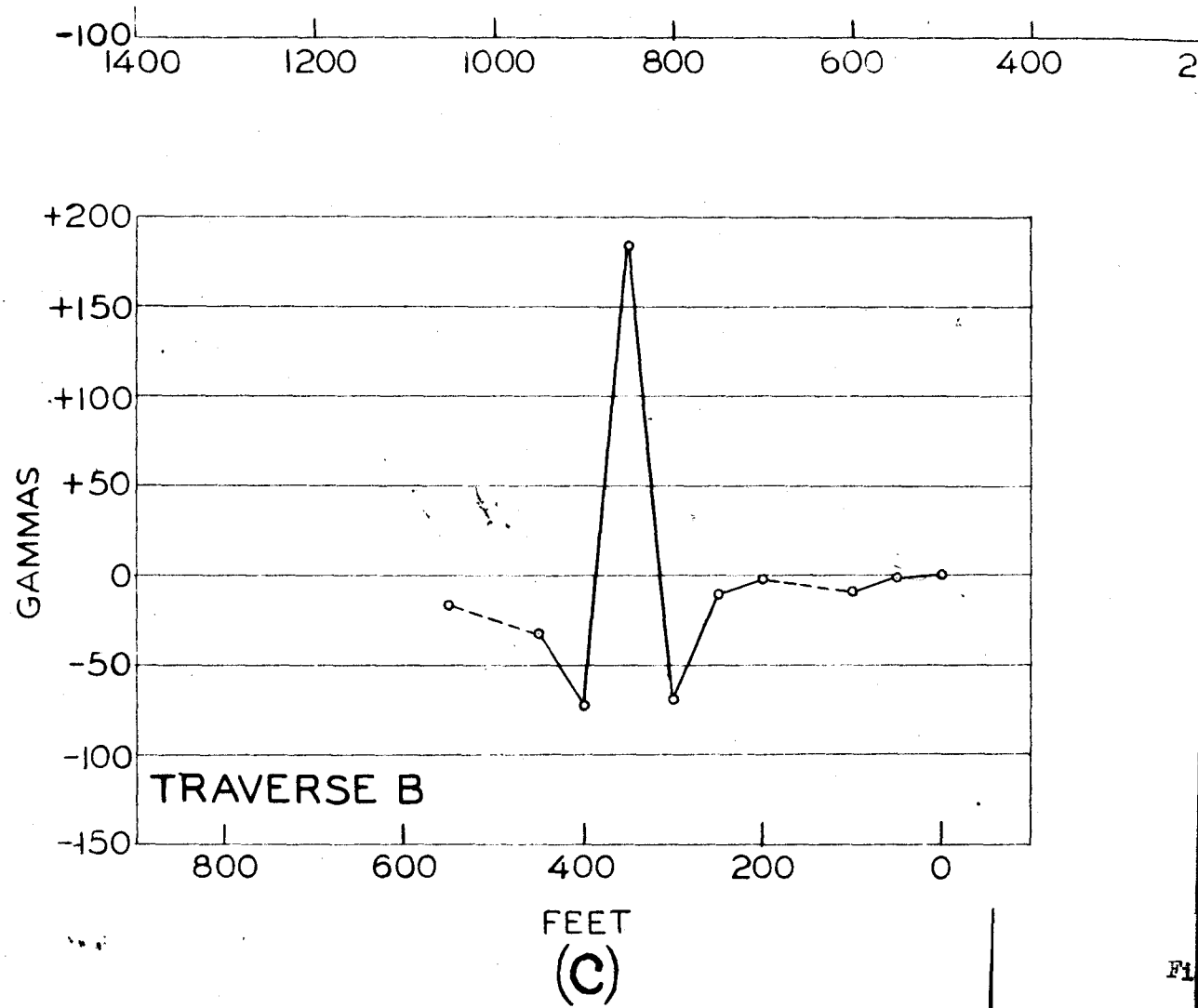


GAMMAS

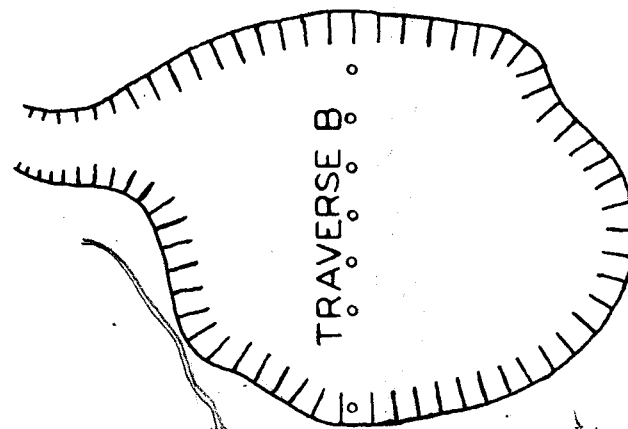
+200  
+150  
+100  
+50  
0







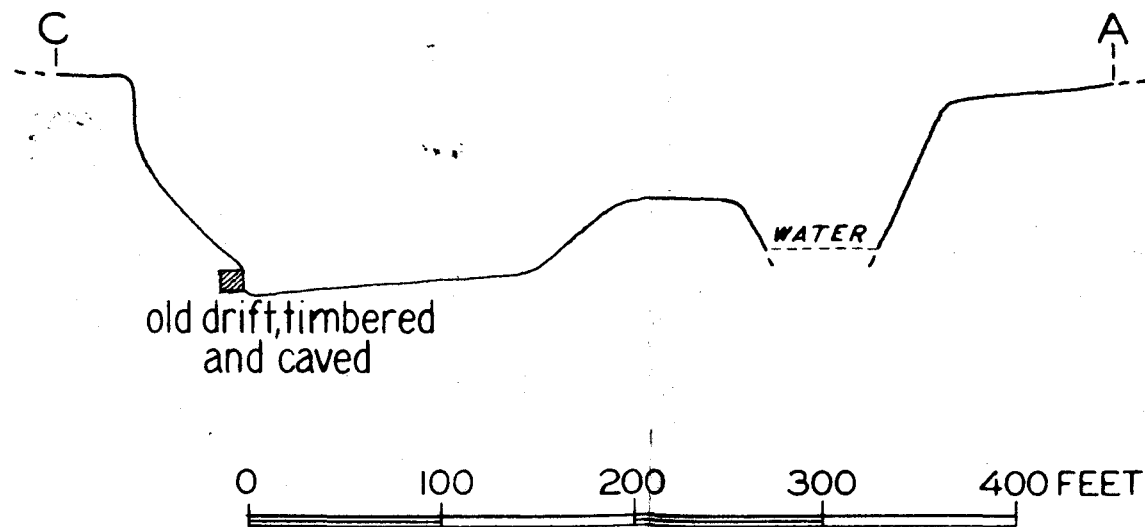
TRAVERSE C



TRAVERSE A

0 200 400 600 FEET

(a)



(b)

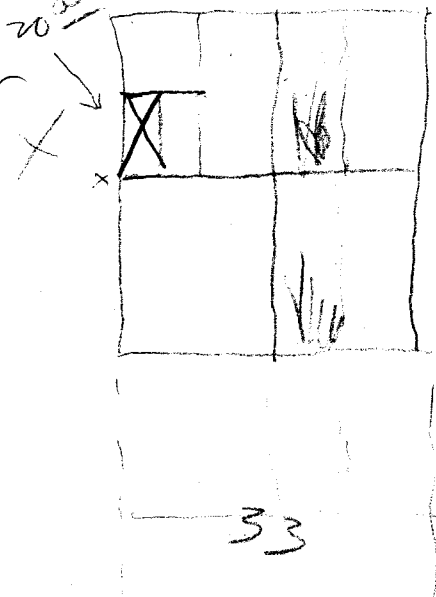
THURSDAY

JANUARY						
S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

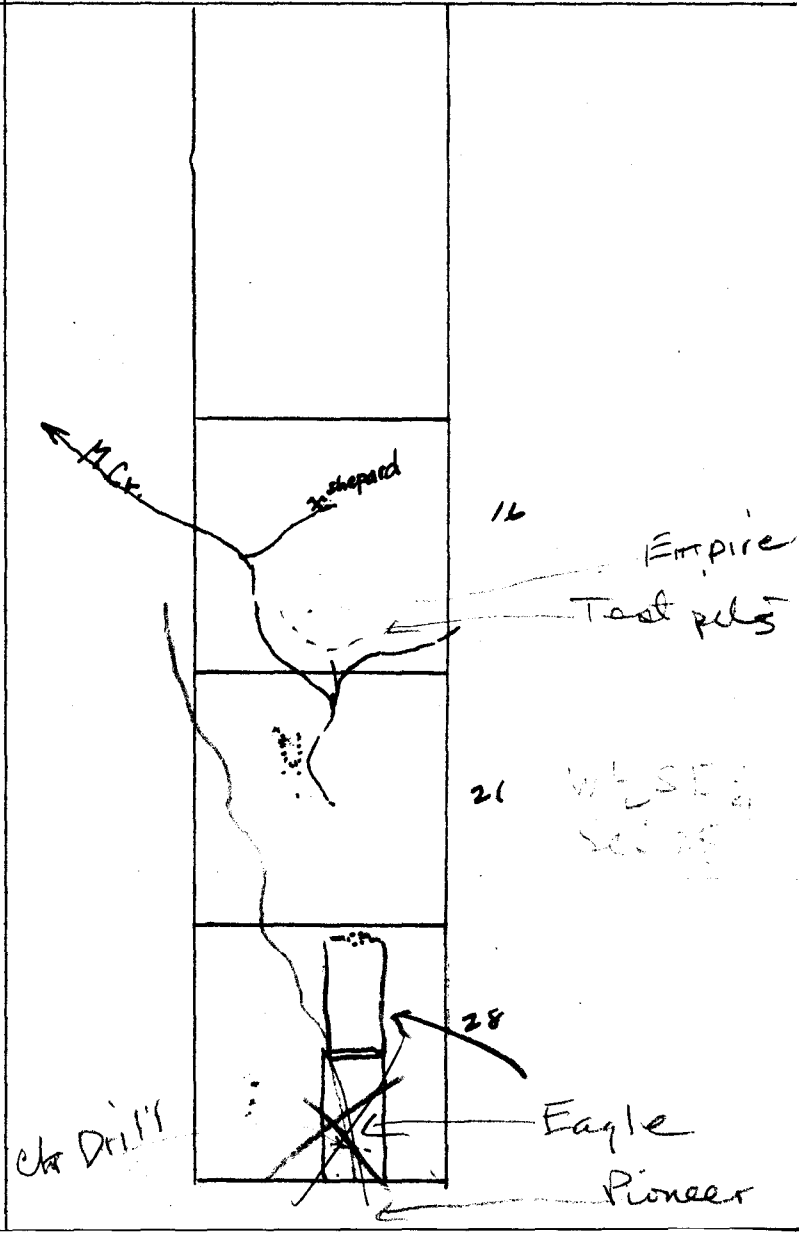
22

JAN. 1942

Sec 28 T 27 S  
R14 W



22 - THURS., JAN. 22, 1942 - 343



675' = Sea Level

Apr. 16 - Pioneer 12:00 PM

Station 1 = 300' (paced) E of SW Corner

claim on S.D. Road north of donkey  
engine. 01 = 1<sup>st</sup> the S. side wood

road - stations 100' apart (paced) going N.

Dip needle reading S at:

01 = ~~41 12 37 16 30~~ facing W = 17  
46 12 42 16 37 20 ~~32 28~~ 173  
= av. 29 facing E 29

02 = 32 4 30 6 58 7 26 9 142  
46 10 42 16 38 20 35 23 <sup>W=17</sup> 230  
E=29

03 = 39 13 35 19 32 22 160  
E=27  
36 3 33 5 32 6 30 8 21 <sup>W=184</sup>

04 = 44 10 39 14 35 16 33 18 31 20  
E. 26.0  
28 10 26 12 24 13 22 15 <sup>150</sup>  
W=19

05 = 38 14 33 19 30 22 28 23 207  
W.= 26  
28 8 26 11 25 14 23 26 161



6 is on floor of pit 15' or 20' to E of line

Ob facing W = 19.

elev. Ob = 880

Apr. 17 - after adj. of dip needle

checked Ob - facing W - 19.5

" (915) 5 - " " 18.5 on S. edge of pit

(908) 4 - " " 19.0

(910) 3 - " " 17.5

(917) 2 - " " 18.0

elev = (917) 1 - " " 18.0

Apr. 17 07 at ft. angles to 01 going

E. 07 = 100' E of 01 El. 01 = 916

(Elev.)  
(921) 07 facing W. 17.0

(932) 08 18.0 (100' E of 07)

(940) 09 18.0 ( " " 08)

ini

010 is 100' W of 01 elev. #10 = 908'

(908) 010 facing W. = 17.5'

(908) 011 = 17.5'

(No reading 100' W of 011 at cor. post +  
darker engine)  
elev. = 900

012 is 200' W of 011

(895) 012 facing W = 18.0

(915) 013 W = 17.5 013 is on N side of big pit  
about 350' N of 05

(908) 014 = 18.0 = 100' E. of 013

1.  $\frac{1}{2}$  way between Bondan + Langlois:  
Needle: 19.0°
2. Butler Mine:  
2 readings, each: 20.0°
3. Madden Mine:  
2 readings: 21.0°  
1 " : 17.0 } between giant  
1 " : 22.0 } + Bank  
          } over giant,
4. Cape Blanco. 200' SE of camp on beach (no black sand layer on top) 17.5°
5. " " 500 " " (black sand layer on top) 20.
6. " " 200' (no sand layer) 20.
7. " " Simpson's tailings on beach 19.

### Bottle Black sand:

Henry property at mouth of  
Myers Creek - Below tourist cabins  
which are on top of hill.

7. Wedderburn beach sand  
20.5°  
20.5°

elev.

(930) 016 facing W = 18.0 = 100' E of 015

(910) 017 " " = 17.0 = 100' W of 013 (barometer change elev. about same as 13)

(882) 018 " " = 17.5 = 100' W of 017

(860) 019 " " = 17.0 = 100' W of 018

(828) 020 = 20 = 100' N of 013

(835) 021 = 18.5 = 100' N of 020 (bar off should be little higher)

(884) 022 = 18.0 = 100' N of 021 (S. edge of pit - Eagle)

(855) 023 = 17.5 = about 350' W of 022 on road near camp - Eagle

(870) 024 = 18.0 = 100' N of 023 (W. of pit)

(870) 025 = 19.5 = 100' N of 024 (bar. off - 10-15' higher)

(868) 026 = 19.0 = 100' N of 025

(862) 027 = 18.0 = 100' N of 026

8. Chickamin - 18.5 at tunnel
9. on Trail above divide 20.0
10. on back trail top of hill at Jct. of old trail
11. at schoolhouse 18.0° 19.0

# Preliminary Dip-Needle Survey

Eagle Mine

Independence Mine

Pioneer Mine

Philpot

33

Lane Extension Mine

Lewis

Annie Mundy

Annie Mundy

T.F. Stillwell

T. 27 S., R. 14 W.

