

85-106-14242

WORK REPORT ON CLAIM

P.E.M. 554 (3)

OMINECA MINING DIVISION

LATITUDE 53 d 10 MINS. N
LONGITUDE 124 d 124 MINS.W

FILMED

NTS 93 F 2/W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

HELD BY:

14,242

GRANGES EXPLORATION LTD
900 625 HOWE ST.
VANCOUVER, B. C.
V6C 2T6

JANUARY 29, 1985

G. W. ZBITNOFF, P. ENG.
(J.J. WILLIAMS)



TABLE OF CONTENTS

	PAGE
INTRODUCTION.....	1
PHYSIOGRAPHY.....	1
GENERAL GEOLOGY.....	1
TRENCHING.....	1-4
CONCLUSIONS & RECOMMENDATIONS.....	4
GEOPHYSICAL SURVEY.....	4
RESULTS.....	4
COST BREAKDOWN.....	5-6
AUTHORS QUALIFICATIONS.....	7

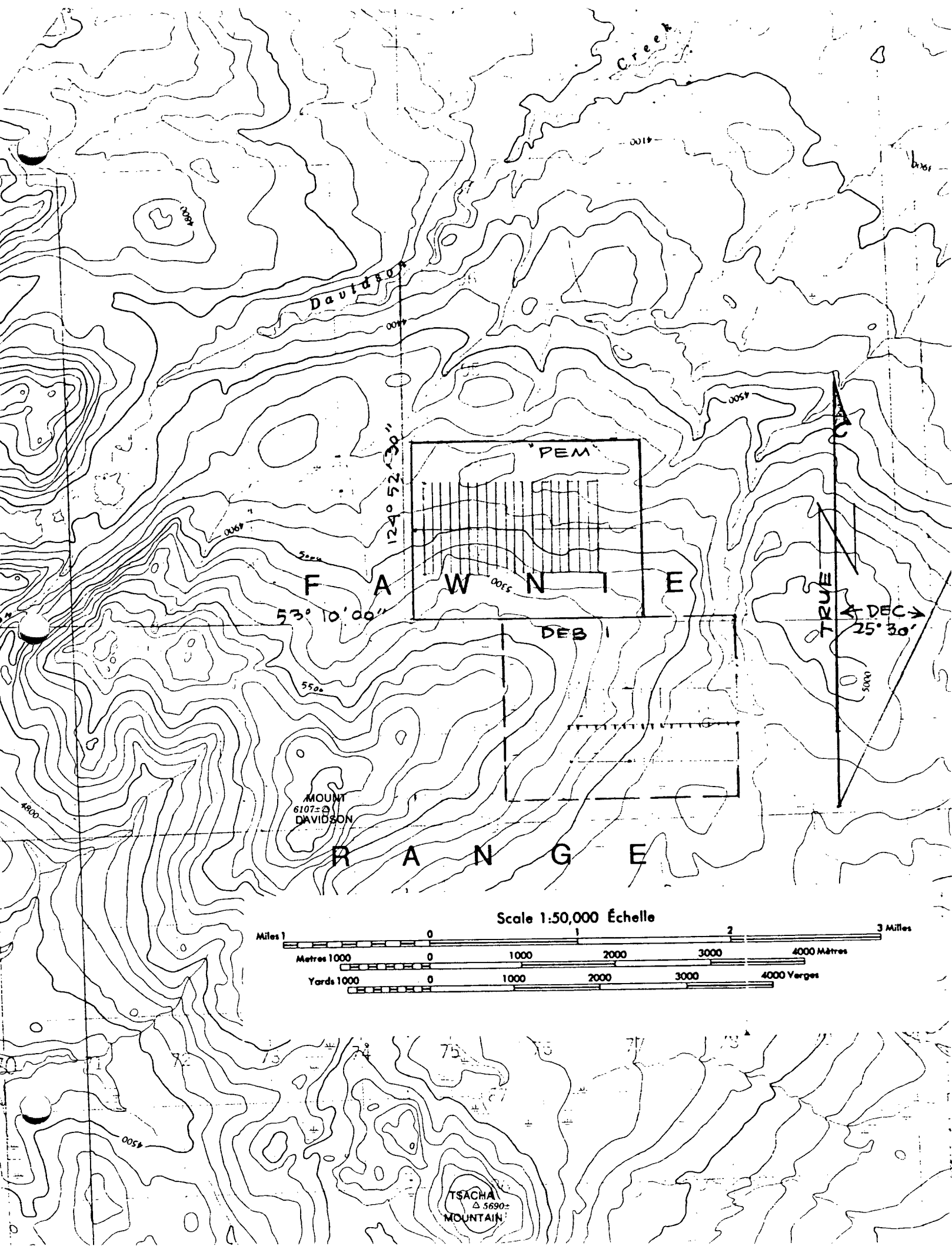
ENCLOSURES

TRENCHING CROSSECTIONS #1 - 30, SCALES AS SHOWN

1 PLAN OF V.L.F. SURVEY SCALE 1:5000

4 PROFILES OF V.L.F. SURVEYS SCALE AS SHOWN

LOCATION MAP SCALE 1:50,000



Davidson

Creek

124° 52' 30"

PEM

F A W N E

53° 10' 00"

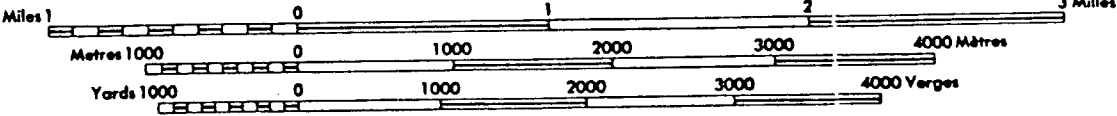
DEB

MOUNT
6107
DAVIDSON

R A N G E

TRUE
A DEC
25° 30'

Scale 1:50,000 Échelle



TSACHA
5690
MOUNTAIN

INTRODUCTION

The P.E.M. claim is located on the north slope of Mount Davidson in the Omineca Mining Division at longitude 124 d, 52' W, Latitude 53 d, 10' N. Access is via helicopter from Burns Lake, 153 km north of the claim. The claim lies within 11 km of the Klukus-Ootsa logging road.

PHYSIOGRAPHY

The survey area is situated on the north flank of Mount Davidson between 1433-1616 m elevations. Approximately one-third of the property lies within an old burn and is relatively open. The remainder of the area is covered by Balsam, Spruce and Pine. The northeast portion of the grid consists mainly of swampy sub-alpine meadows. The property for the most part is covered with pleistocene and recent gravels, sand, clay and till.

GENERAL GEOLOGY

The general geology of the area is shown on Map 1131A Nechako River at a scale of 1"=4 miles. The property is indicated as underlain by cretaceous and/or tertiary volcanics of the Ootsa Lake group. No outcrops have been located on the claims. Float in the area consists of volcanic breccias, quartz eye dacites, tuffs and meta-sediments.

TRENCHING

A total of 30 trenches were excavated and sampled during the period of September 1-6, 1984. These trenches were hand-dug, by Granges personnel, to investigate geochemical anomalies located by the 1982 survey. Assays from the only trench to reach bedrock returned values of 9.5 g ag. A summary of the results follows, but for further information please refer to the accompanying maps.

Trench No. 1 7+29W, 1+71S

Anomalous results were returned for Zn, Ag and Au from the soil, mineralized zone and grey clay horizons - values were as high as 4012 ppm Zn and 6.4 ppm Ag in the mineralized zone.

Trench No. 2 7+30W, 1+85S

Values of 5310 ppm Zn, 7.7 ppm Ag and 40 ppb Au were returned from the soil horizon and values of 4985 ppm Zn, 11.7 ppm Ag and 24 ppb Au were returned from the mineralized zone.

Trench No. 3 7+30W, 1+89S

Values of 4228 ppm Zn, 2.2 ppm Ag and 36 ppb Au were returned from the soil horizon and values of 7997 ppm Zn, 19.4 ppm Ag and 32 ppb Au were returned from the mineralized zone.

Trench No. 4 7+55W, 2+06S

The mineralized zone returned values of 8632 ppm Zn and 28.9 ppm Ag.

Trench No. 5 7+55W, 2+35S

Anomalous values of 9544 ppm Zn and 27.4 ppm Ag were returned from the mineralized zone and 3846 ppm Zn and 21.4 ppm Ag were returned from the Limonitic hardpan clay.

Trench No. 7 14+0W, 0+00S

6.4 ppm Ag was obtained from the sandy-clay horizon.

Trench No. 8 14+0W, 2+00S

Values throughout the trench ranged from 1350 to 3204 ppm Zn.

Trench No. 9 13+64W, 2+00S

Orange Limonitic clay at the base of the trench returned 5587 ppm Zn.

Trench No. 10 13+20W, 2+15S

Anomalous values from the mineralized soil returned 4985 ppm Zn, 13.3 ppm Ag and 6544 ppm As. Anomalous values from the mineralized zone returned 8760 ppm Zn, 12.7 ppm Ag and 4387 ppm As.

Trench No. 11 13+19W, 2+10S

The mineralized soil returned values of 7196 ppm Zn, 9.2 ppm Ag and 4707 ppm As. The mineralized zone returned values of 8732 ppm Zn, 4.9 ppm Ag, 1084 ppm As and 25 ppb Au. An intermixed horizon of limonitic clay and mineralized zone returned 1434 ppm Zn and 600 ppm As.

Trench No. 12 13+28W 2+20S

Highly anomalous values were returned from the entire trench ranging from 4583 ppm Zn in limonitic clay to 51894 ppm Zn in organic clay and 8.2 ppm Ag in mineralized soil to 15.9 ppm Ag in limonitic clay.

Trench No. 14 14+00W, 1+50S

Blue-grey hardpan clay returned 50 ppb Au.

Trench No. 15 7+00W 1+10S

Anomalous results were encountered for Pb, Zn, Ag and As in mineralized soil, sandy gravel and blue-grey pebbly clay. Values are as high as 9397 ppm Zn and 3.3 ppm Ag.

Trench No. 17 7+62W 2+45S

A value of 3414 ppm Zn was returned from the mineralized zone.

Trench No. 18 7+72W 2+67 S

A Au value of 95 ppb was obtained from the sandy clay horizon.

Trench No. 19 13+32 W 2+30S

Anomalous values for Zn were returned from all horizons, ranging from 1246 ppm Zn in sandy clay to 4024 ppm Zn in the mineralized zone.

Trench No. 20 13+28W 2+40S

Anomalous Zn values were returned from the sandy brown soil and mineralized zone, and additional anomalous values for Pb, Ag and As were returned from the limonitic clay.

Trench No. 21 13+28W 2+50S

Anomalous Zn values were obtained in both the mineralized zone and the limonitic clay.

Trench No. 23 13+37W 2+65S

Zn values of up to 2007 ppm and 2094 ppm were returned from the mineralized zone and the red soil horizon.

Trench No. 26 13+5-W 6+00S

A Au value of 95 ppb was obtained from the sandy clay horizon.

Trench No. 27 13+60W 4+00S

A Ag value of 9.5 g Ag was obtained from broken bedrock overlying rhyodacite breccia.

CONCLUSIONS & RECOMMENDATIONS

The bedrock encountered in Trench No. 27 at 13+60W, 4+00S suggests that the source of the anomaly is in this area. A program of diamond drilling is proposed for next year to explore this possibility.

GEOPHYSICAL SURVEY

During the period of September 7-13, 1984 the old E.M. grid was re-located and prepared (including straightening of the lines) in preparation for a V.L.F. electromagnetic survey. A total of 4.8 km of surveying was completed by Granges personnel operating a Phoenix V.L.F. 2 unit manufactured by Phoenix Geophysics Limited. The frequency used was that of 23.4 KHZ from Lanulualei, Hawaii. The survey was conducted along old E.M. lines that covered two areas of geochemical anomalies.

RESULTS

Three rather weak anomalies were located by the survey. These were:

Line 9 W at 303 S
Line 15 W at 40 N
Line 16 W at 40 S

The very weak anomaly on line 9W does not correlate with any known E.M. or geochemical anomalies.

The anomaly on lines 15W and 16W is in the vicinity of a Pb/Zn geochemical anomaly. The trenching carried out this summer however, suggests that the source of the geochemical anomaly was further south. This is based on the bedrock encountered at the bottom of Trench No. 27 at 13+60W.

COST BREAKDOWN

Trenching

Trench #1	.8 x 2.25 x 4.1 x \$20 =	\$147.60
Trench #2	.6 x .7 x 2.5 x \$20 =	76.00
Trench #3	1.2 x 3.0 x 3.3 x \$20 =	26.90
Trench #4	.35 x 1.0 x 2.0 x \$20 =	14.00
Trench #5	.8 x 2.0 x 3.0 x \$20 =	96.00
Trench #6	.6 x 1.9 x 3.5 x \$20 =	79.80
Trench #7	.6 x 2.0 x 3.8 x \$20 =	91.20
Trench #8	1.8 x 1.9 x 4.0 x \$20 =	273.60
Trench #9	.6 x 2.0 x 3.2 x \$20 =	76.80
Trench #10	.53 x 1.0 x 3.8 x \$20 =	40.28
Trench #11	.79 x 1.0 x 4.1 x \$20 =	64.78
Trench #12	.79 x 1.0 x 3.5 x \$20 =	55.30
Trench #13	.5 x 1.0 x 4.0 x \$20 =	40.00
Trench #14	1.65 x 1.0 x 3.9 x \$20 =	128.70
Trench #15	1.25 x 3.8 x 1.4 x \$20 =	133.00
Trench #16	0.9 x 4.1 x 1.2 x \$20 =	88.60
Trench #17	1.1 x 4.5 x 1.0 x \$20 =	99.00
Trench #18	1.0 x 3.7 x 1.0 x \$20 =	74.00
Trench #19	1.7 x 4.0 x 1.1 x \$20 =	149.60
Trench #20	1.1 x 3.6 x 1.1 x \$20 =	87.20
Trench #21	1.1 x 4.1 x 1.1 x \$20 =	99.20
Trench #22	1.2 x 3.5 x 1.0 x \$20 =	84.00
Trench #23	1.1 x 3.6 x 1.1 x \$20 =	87.20
Trench #24	0.9 x 3.9 x 1.0 x \$20 =	70.20
Trench #25	1.0 x 3.4 x 1.2 x \$20 =	81.60
Trench #26	1.0 x 3.3 x 1.0 x \$20 =	66.00
Trench #27	0.65 x 3.9 x 1.1 x \$20 =	55.80
Trench #28	1.25 x 3.5 x 1.1 x \$20 =	96.20
Trench #29	0.95 x 3.2 x 1.1 x \$20 =	66.80
Trench #30	.9 x 3.7 x 1.0 x \$20 =	<u>66.60</u>

Total Overburden Removed = 130.80 m 3 \$2,615.96

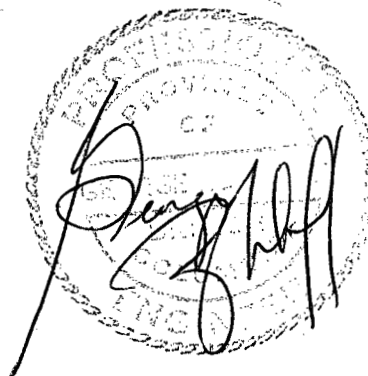
PERSONNEL

E.W.G. Fluskey	7 days @ \$132.14 =	\$924.98
S. Weekes	6 days @ \$92.48 =	554.88



REPORT PREPARATION

C. Ulanday	3 days @ \$83.33 =	\$249.99
J. J. Williams	2 days @ \$90.48 =	180.96
Assay Costs	48 days @ \$10.25 =	492.00
Camp Costs	25 man days @ \$35.00 =	875.00
Helicopter	5.3 hrs. @ \$430.00 @ 50%	1,136.00
	473 litres fuel @ 0.68/L @ 50%	<u>237.00</u>
Totals		<u>\$7,266.77</u>



Granges Exploration Aktiebolag

STATEMENT OF QUALIFICATIONS

Name: Zbitnoff, George Wm.

Profession: Geologist

Professional Associations: Member of the Association of Professional Engineers of the Province of Manitoba since 1969.

Member of the Association of Professional Engineers of the Province of British Columbia since 1973.

Member of the Canadian Institute of Mining and Metallurgy.

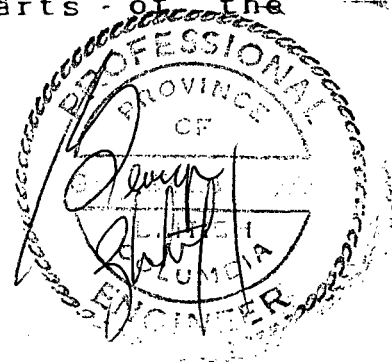
Experience: Pre graduation experience in geology with the Department of Mineral Resources of Saskatchewan.

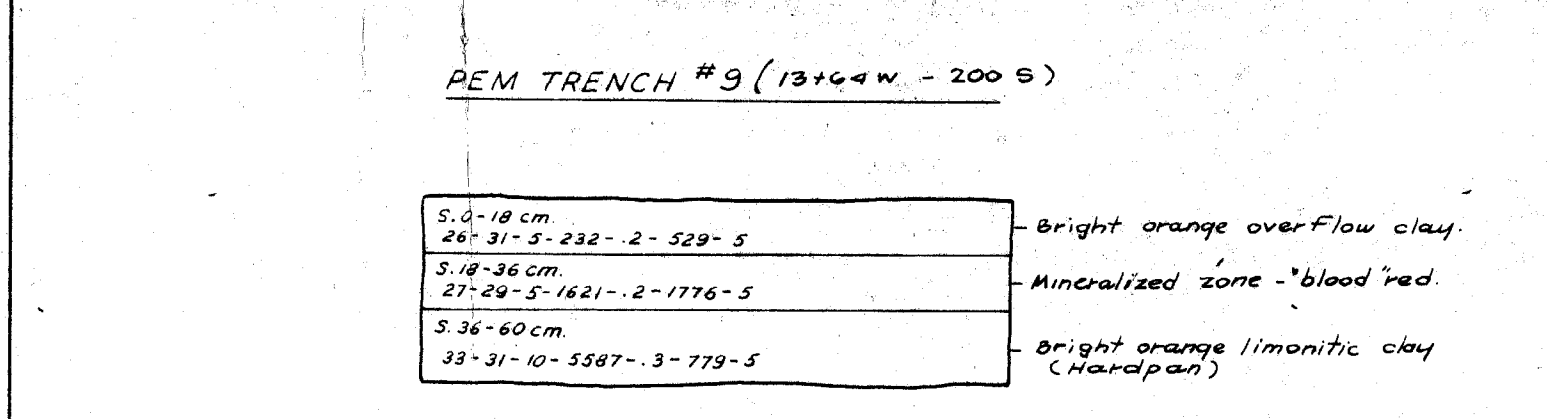
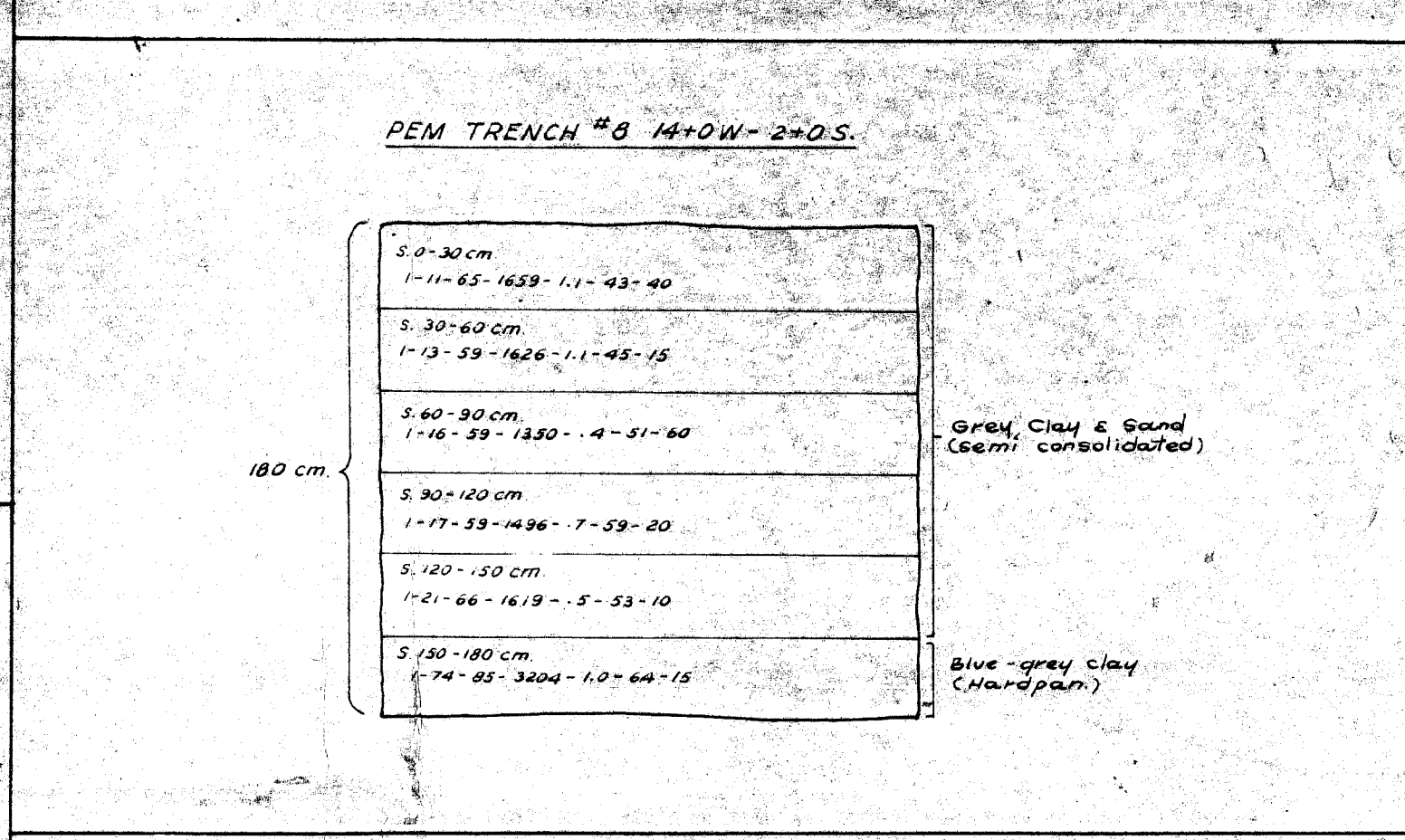
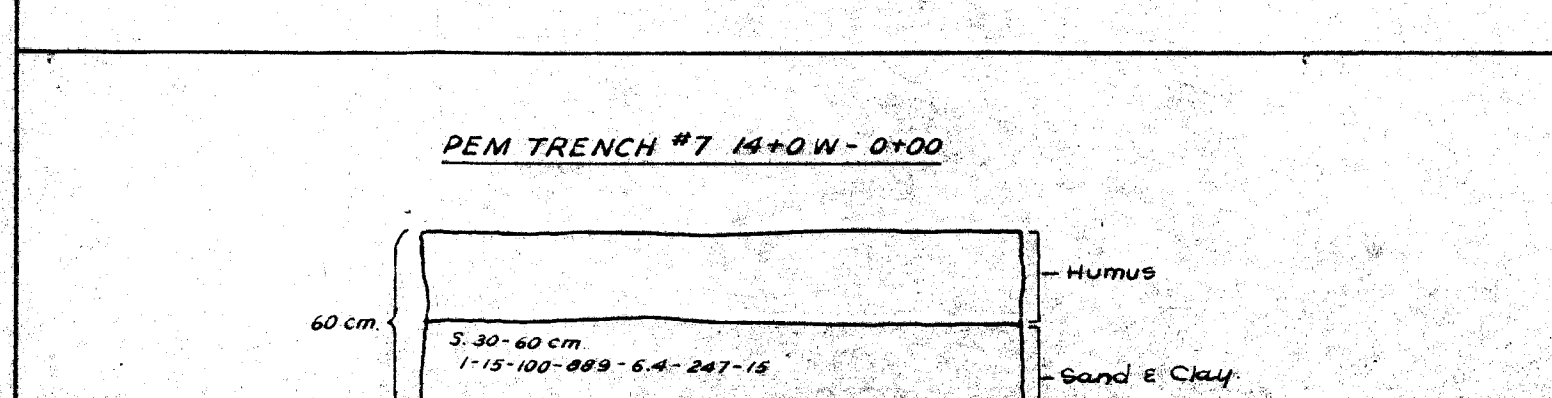
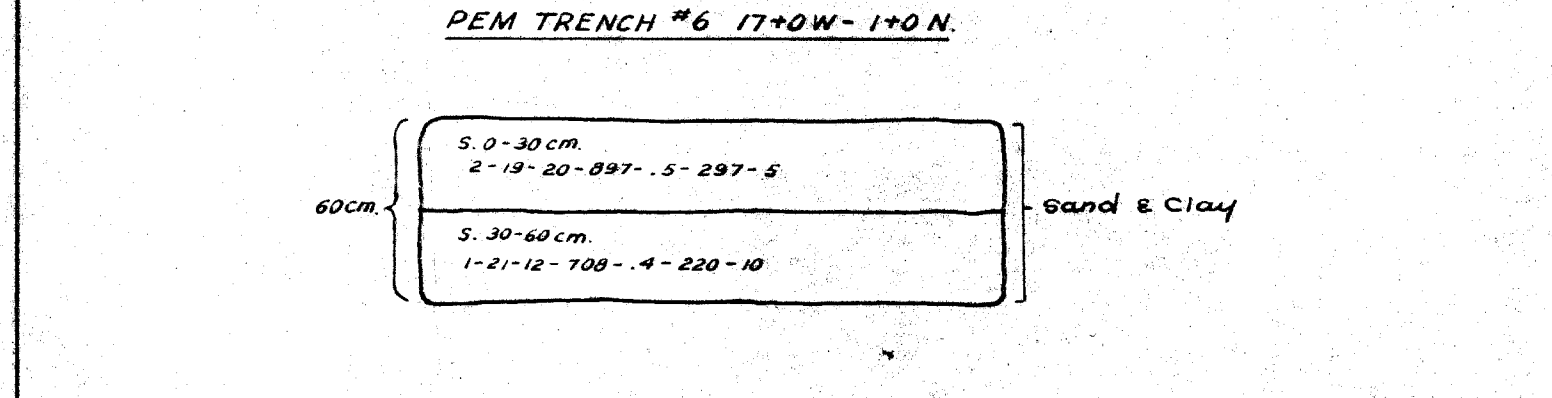
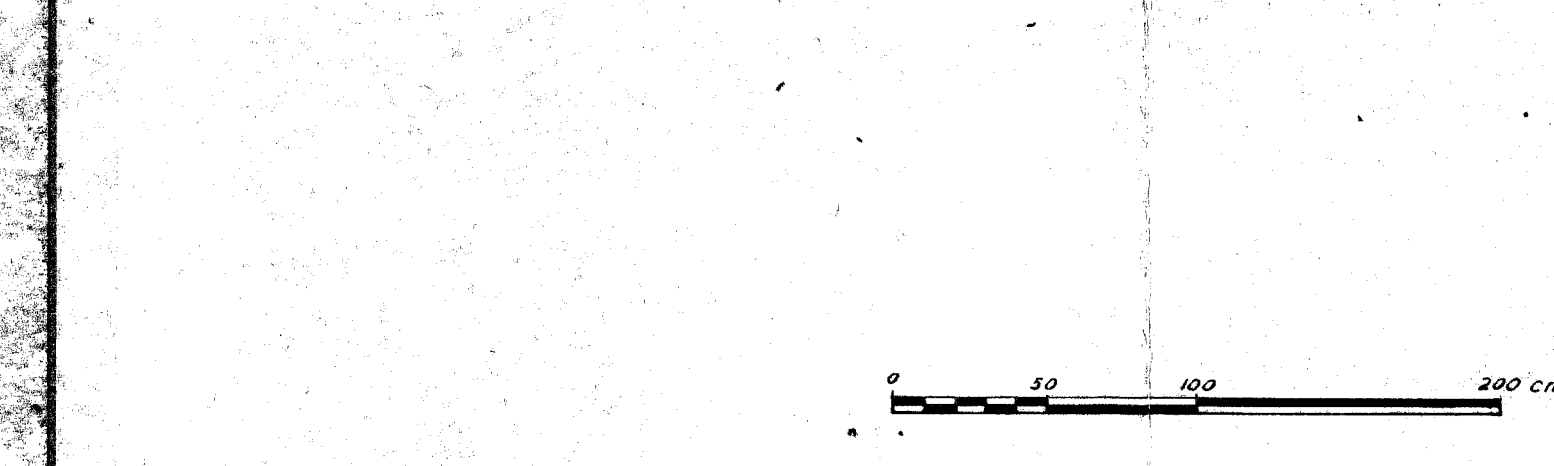
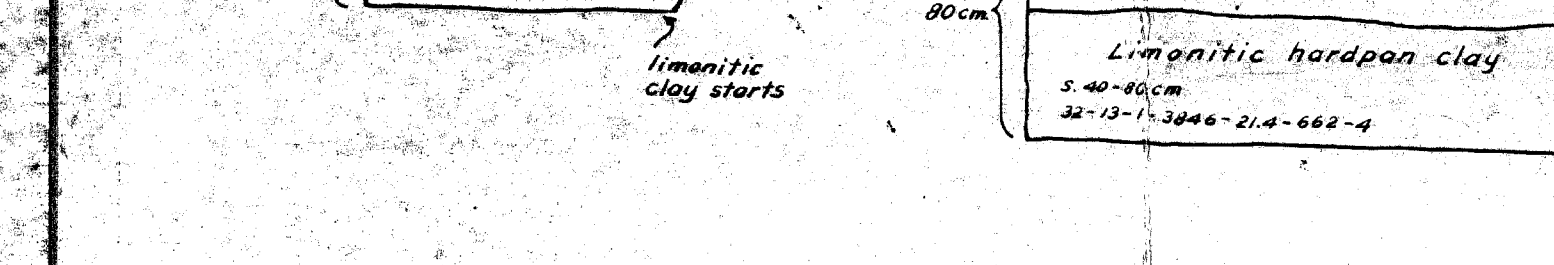
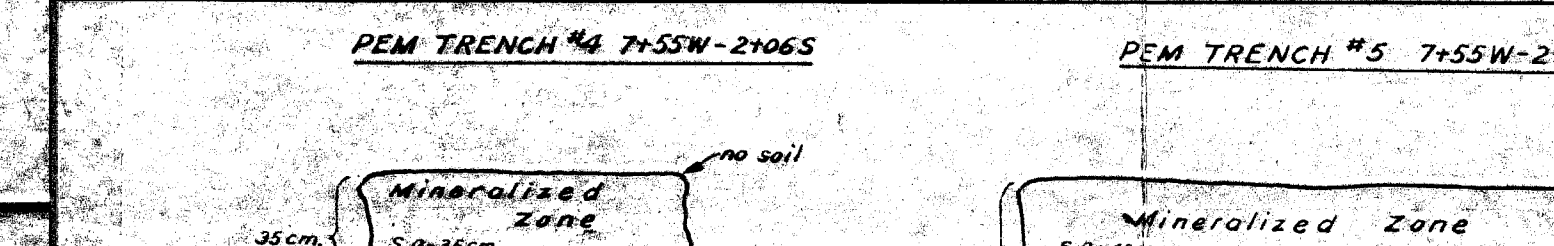
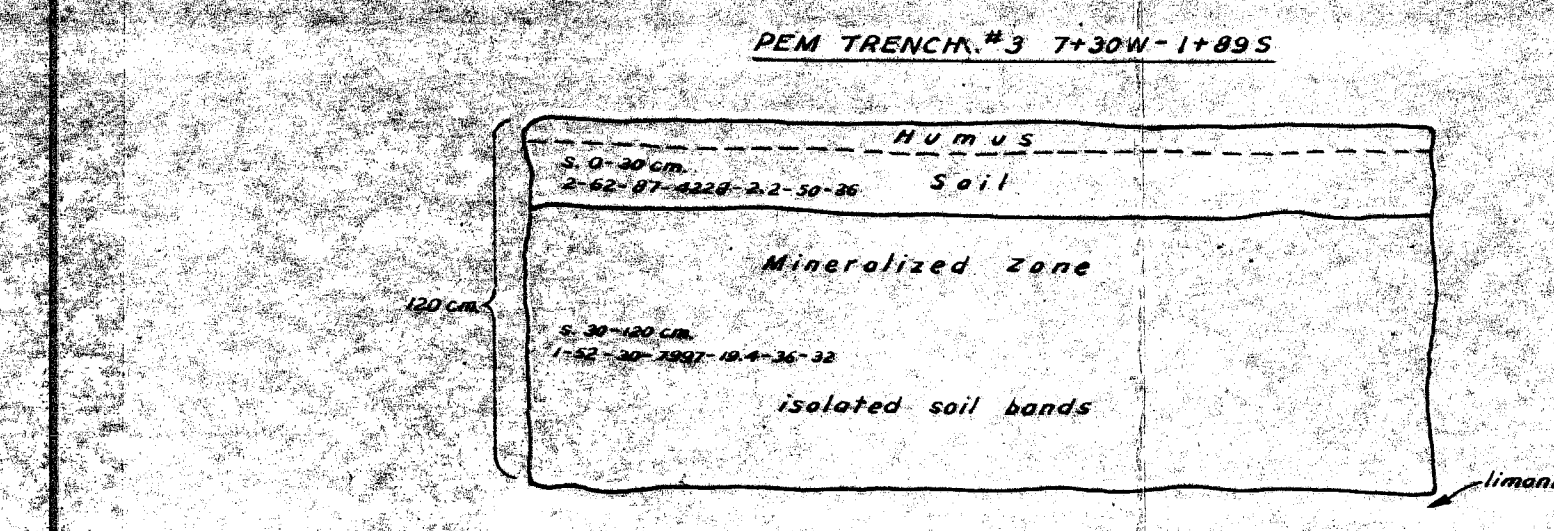
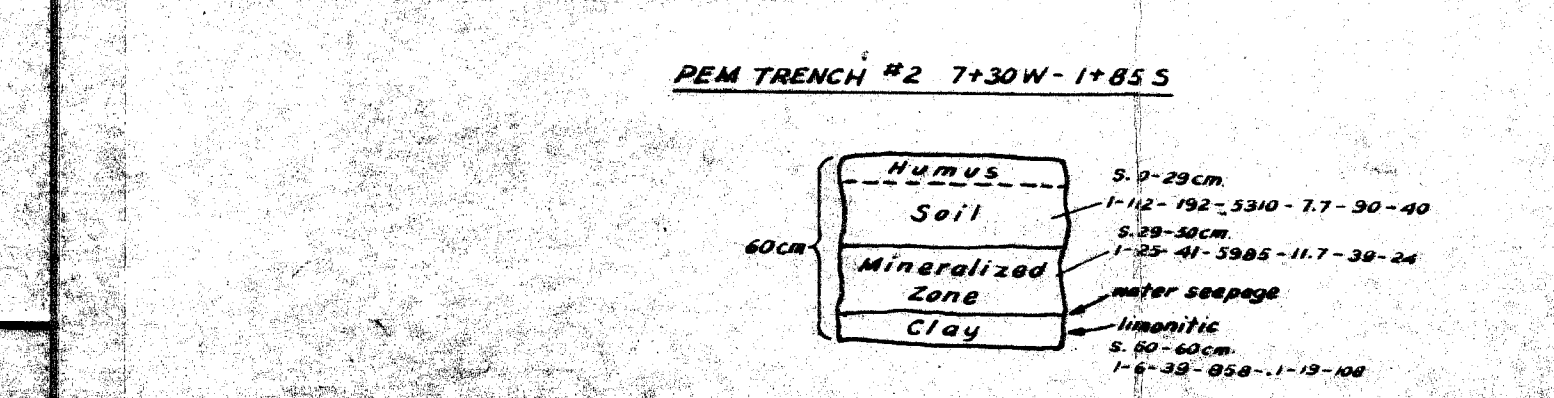
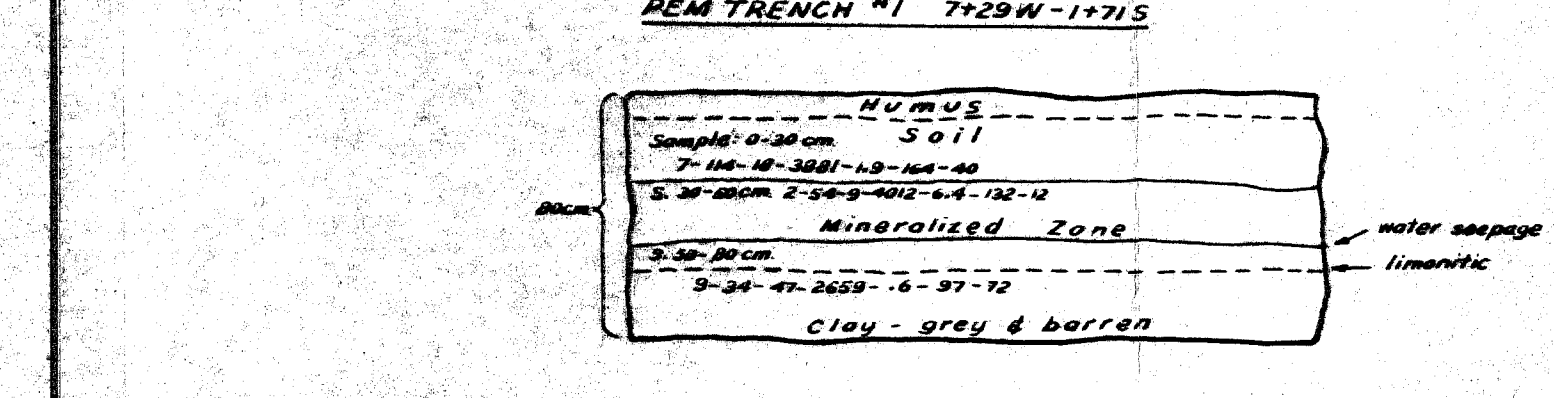
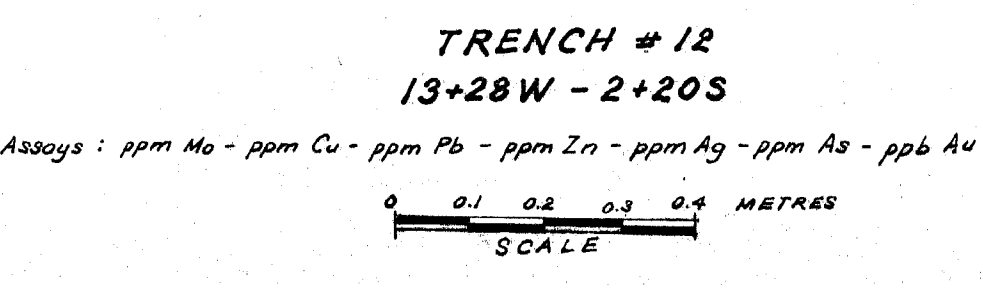
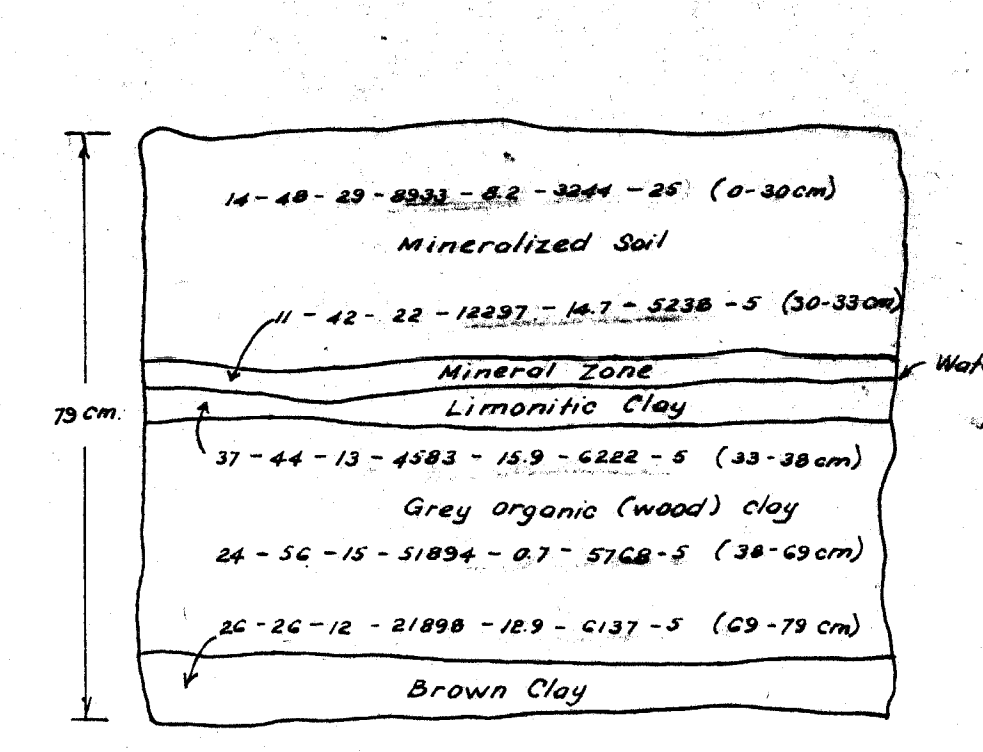
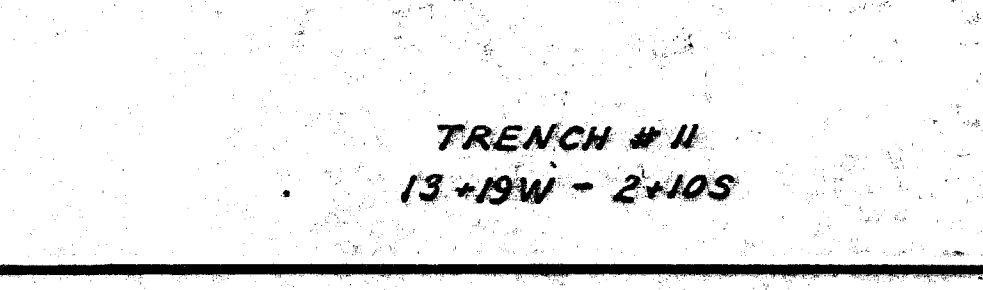
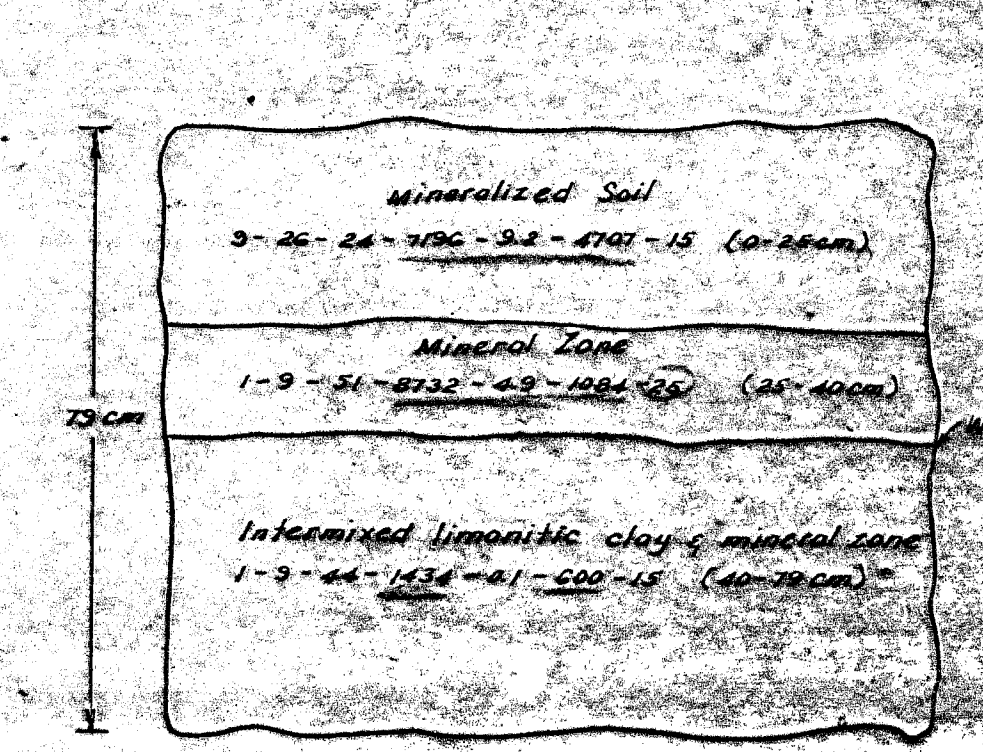
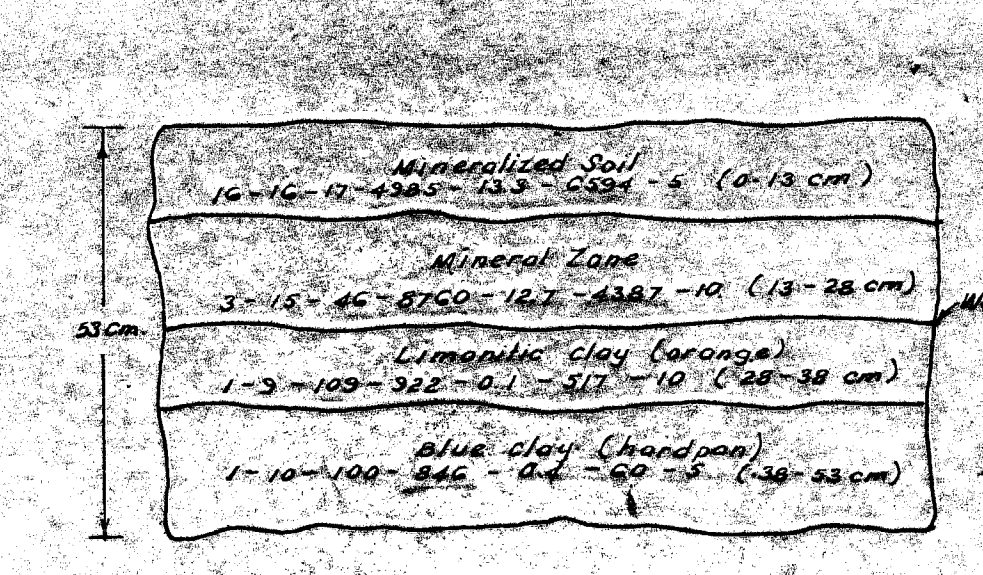
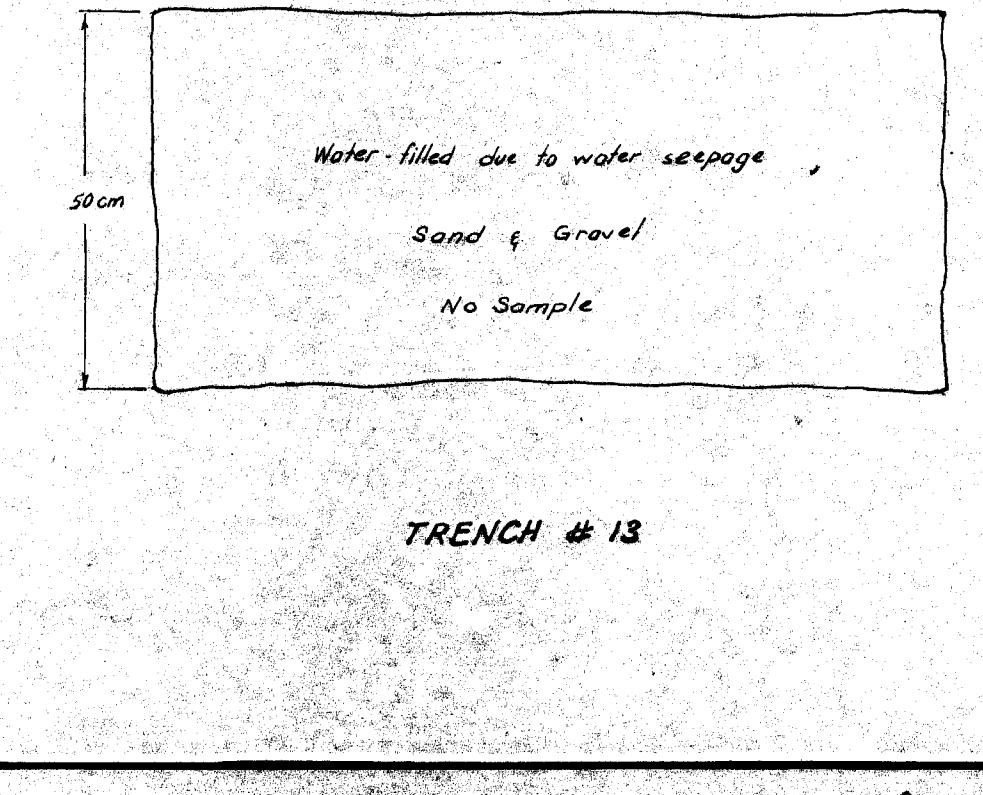
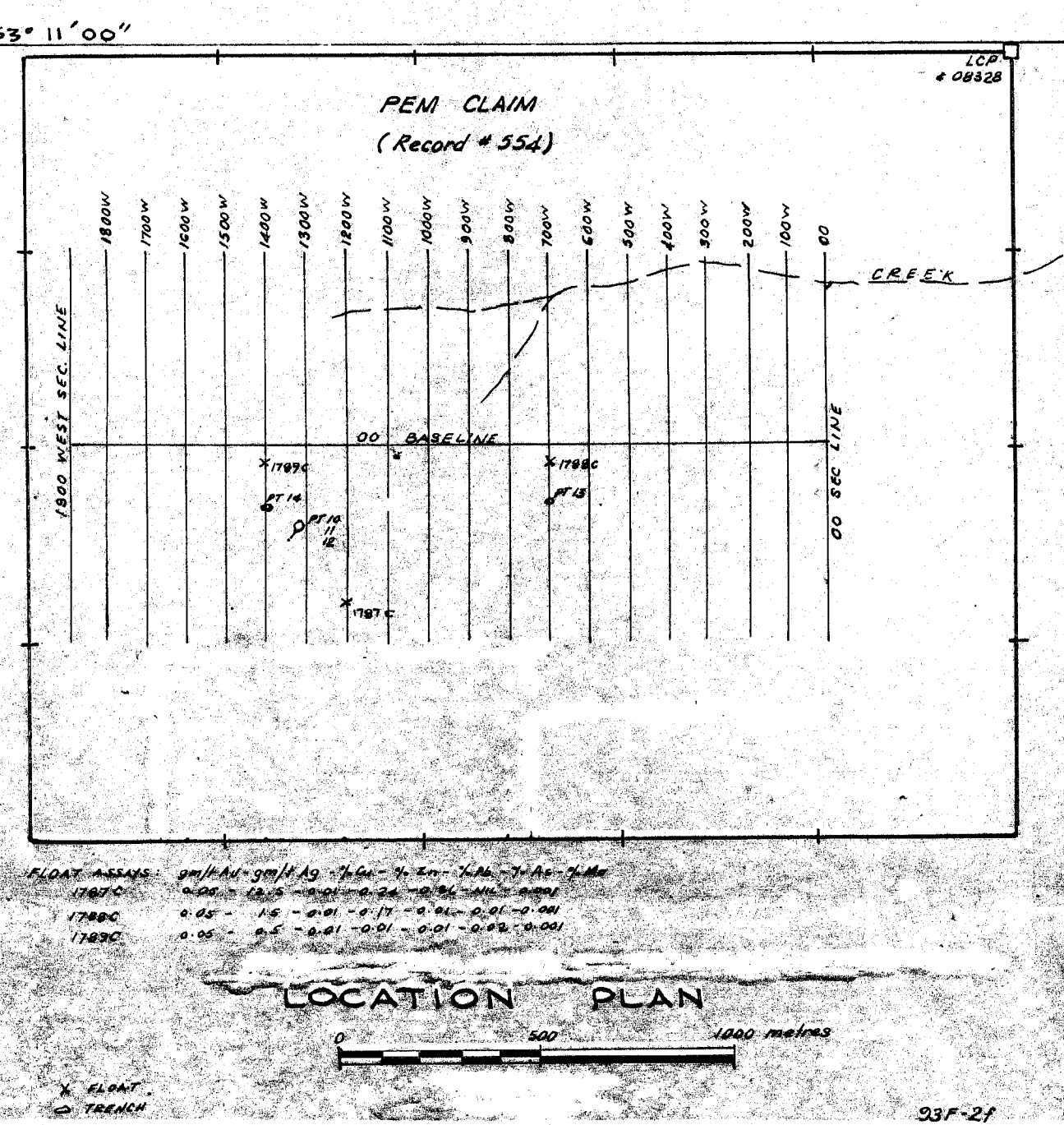
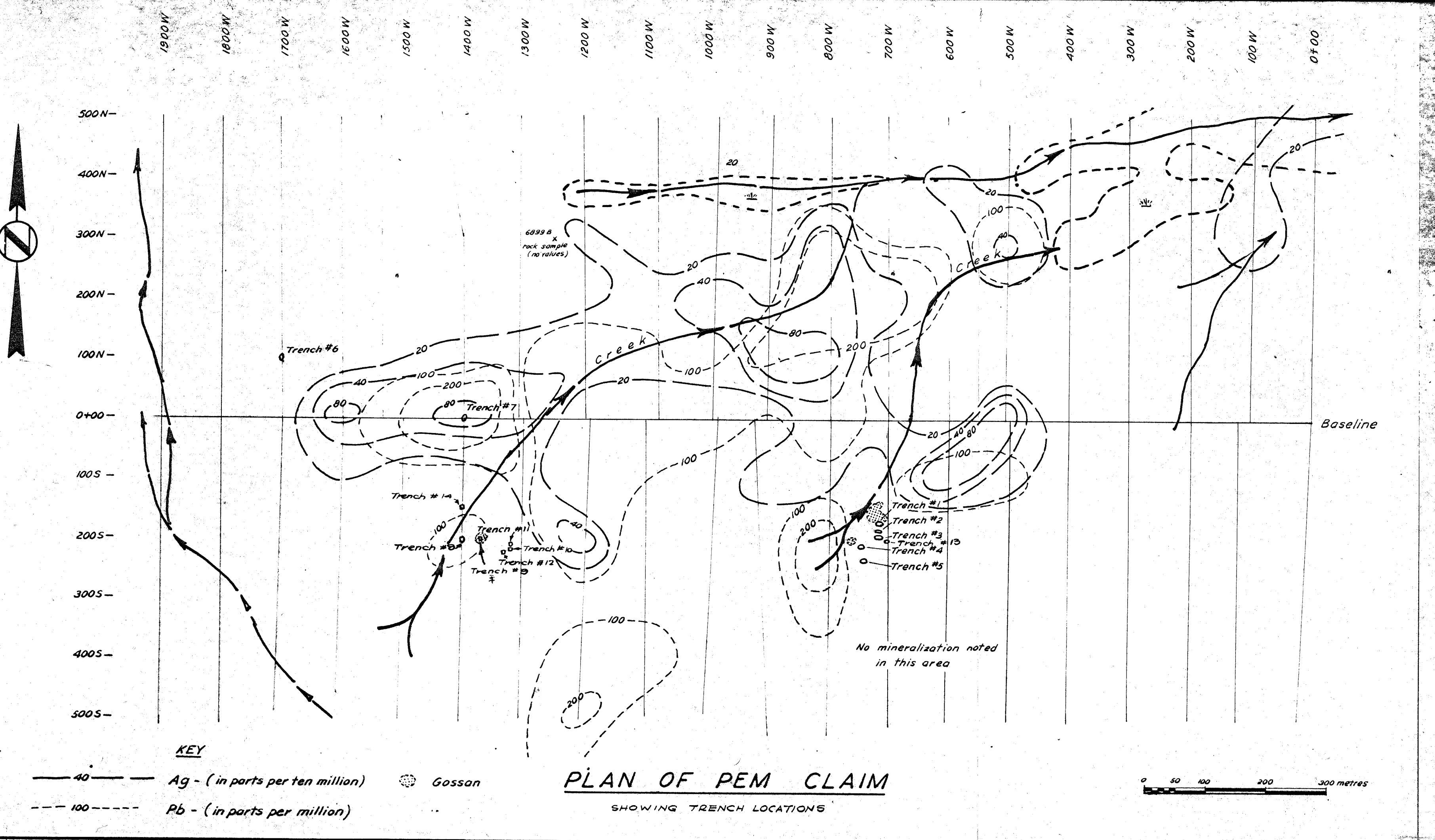
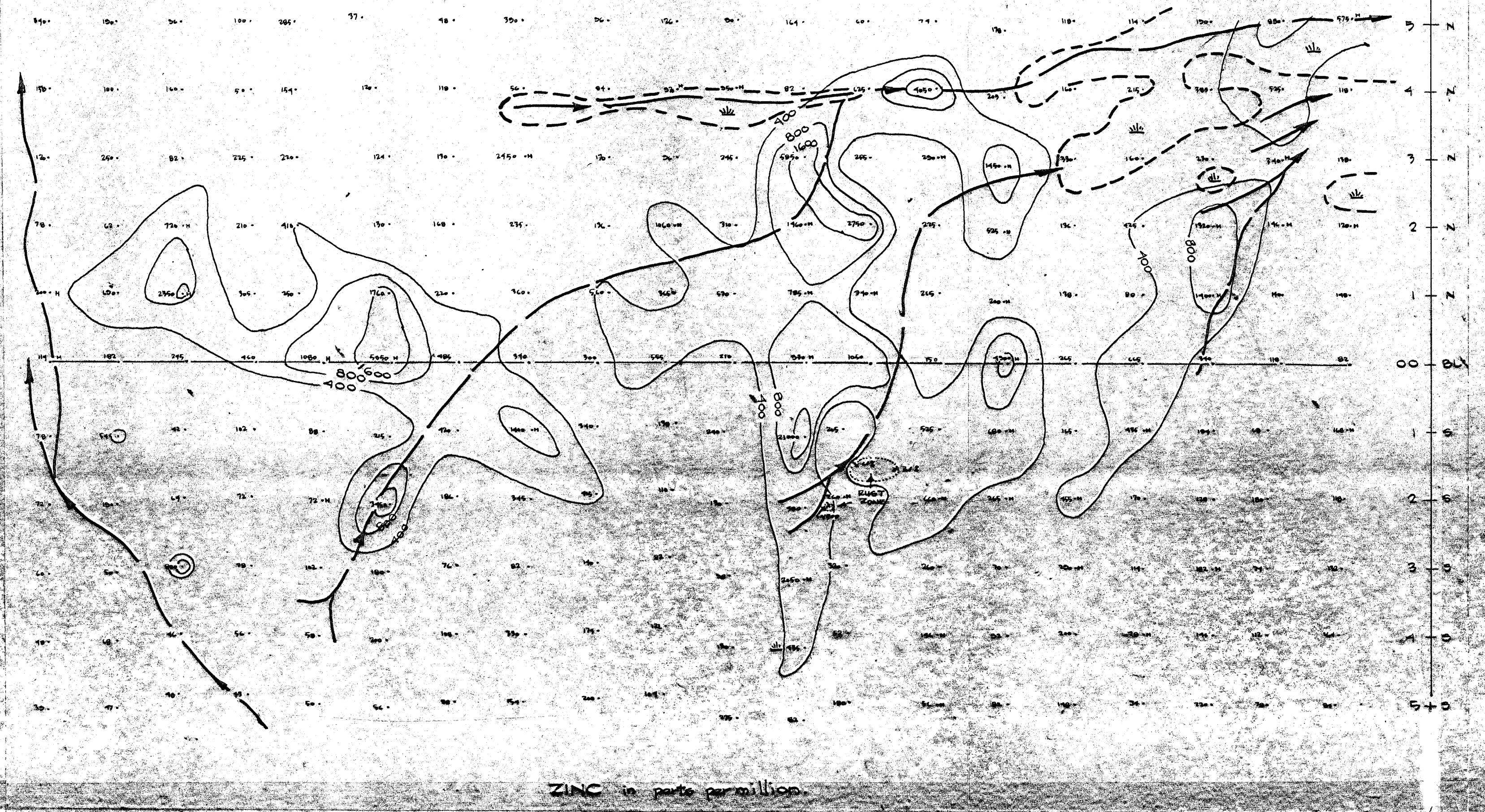
Two and one half years, field geologist with Hudson Bay Exploration and Development, Central Canada.

Six years, field and resident geologist with Noranda Exploration Ltd., Central Canada.

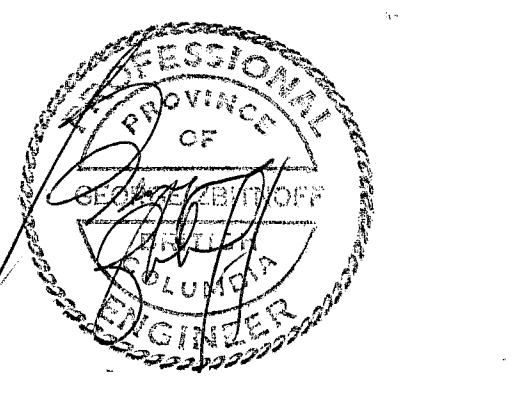
Thirteen years geologist and Assistant Manager at Granges Exploration Aktiebolag, Canadian Division, Vancouver, B. C.

Active geological experience in all provinces of Canada and parts of the United States and Mexico.





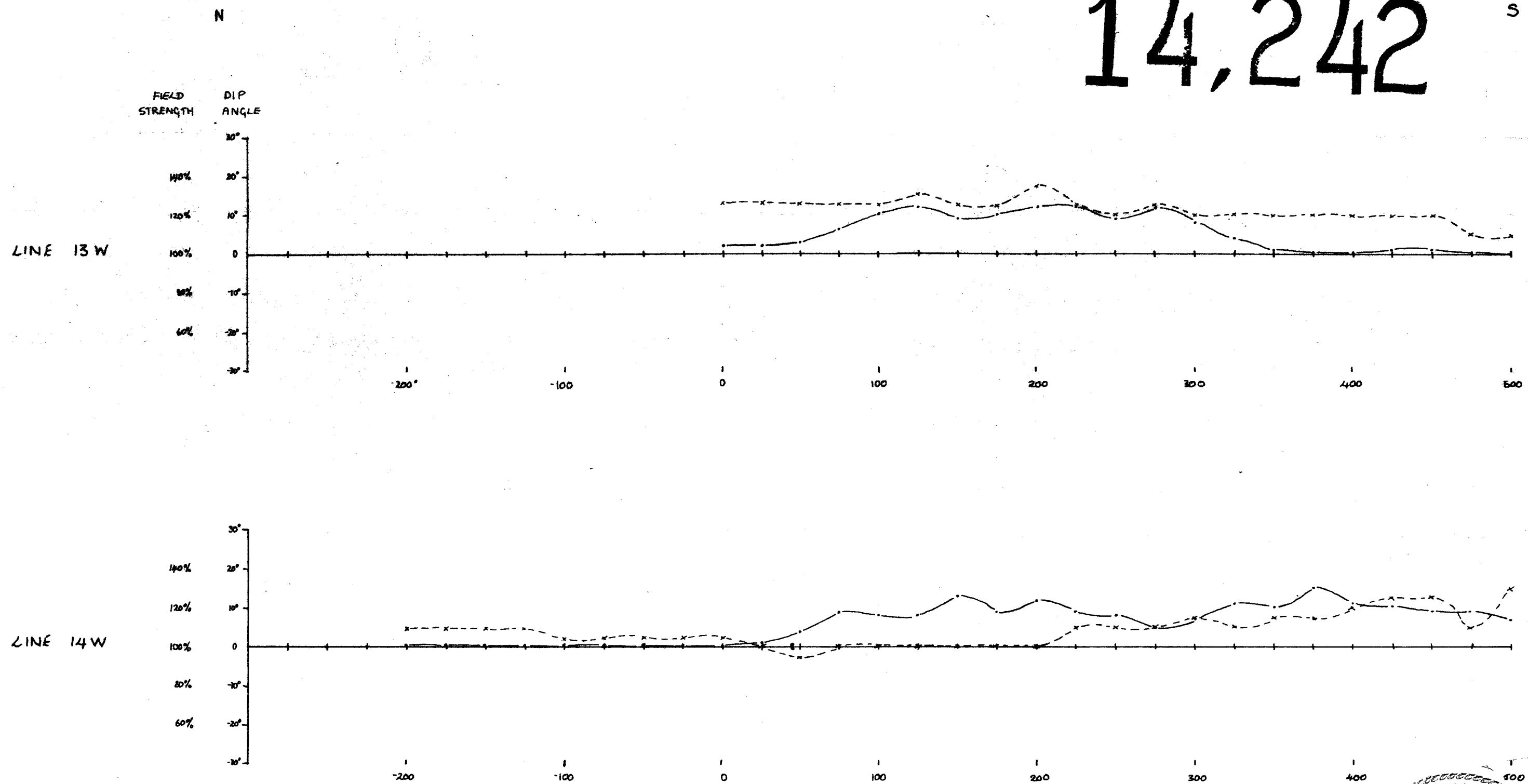
GEOLOGICAL BRANCH
ASSESSMENT REPORT
14,242



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ASSESSMENT REPORT

14,242

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LINES 13 + 14W
PEM CLAIM
554 (3)

GRANGES
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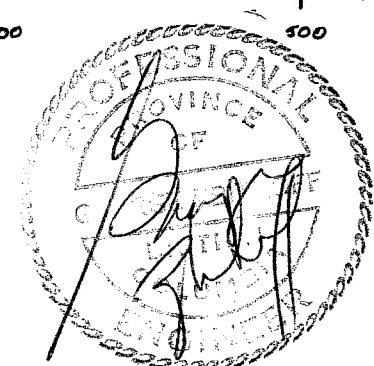
V.L.F. ELECTRO-
MAGNETIC
SURVEY

BLACKWATER-
DAVIDSON
PROJECT

PROFILE SECTION
OF FIELD DIP ANGLE
AND STRENGTH

SCALE 1:2500

— DIP ANGLE PROFILE
x---x FIELD STRENGTH
PROFILE

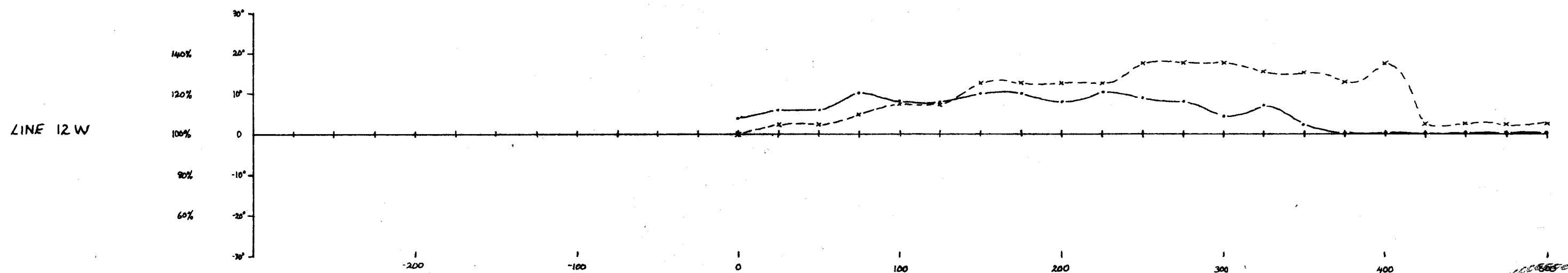
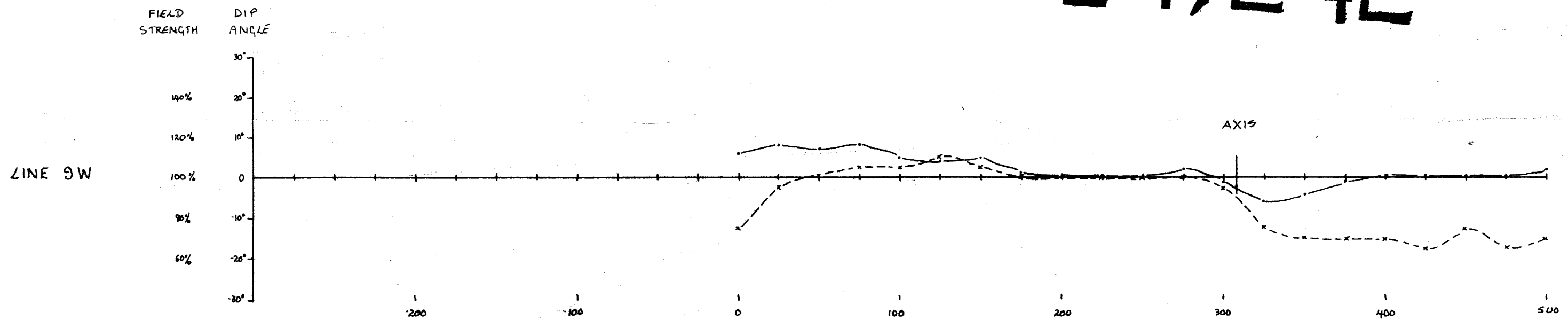


GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,242

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LINES 9 + 12W

PEM CLAIM
554 (3)

GRANGES
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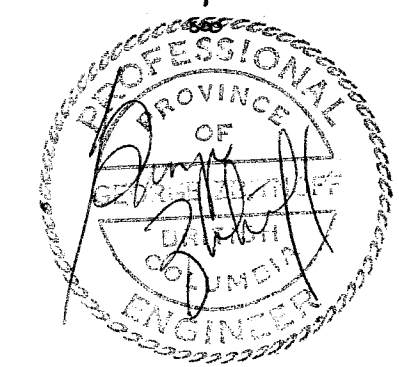
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SURVEY

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DAVIDSON
PROJECT

PROFILE SECTION
OF FIELD DIP ANGLE
AND STRENGTH

SCALE 1:2500

— DIP ANGLE PROFILE
- - - - FIELD STRENGTH
PROFILE



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,242 S

LINES 15+16 W
PEM CLAIM
554(2)

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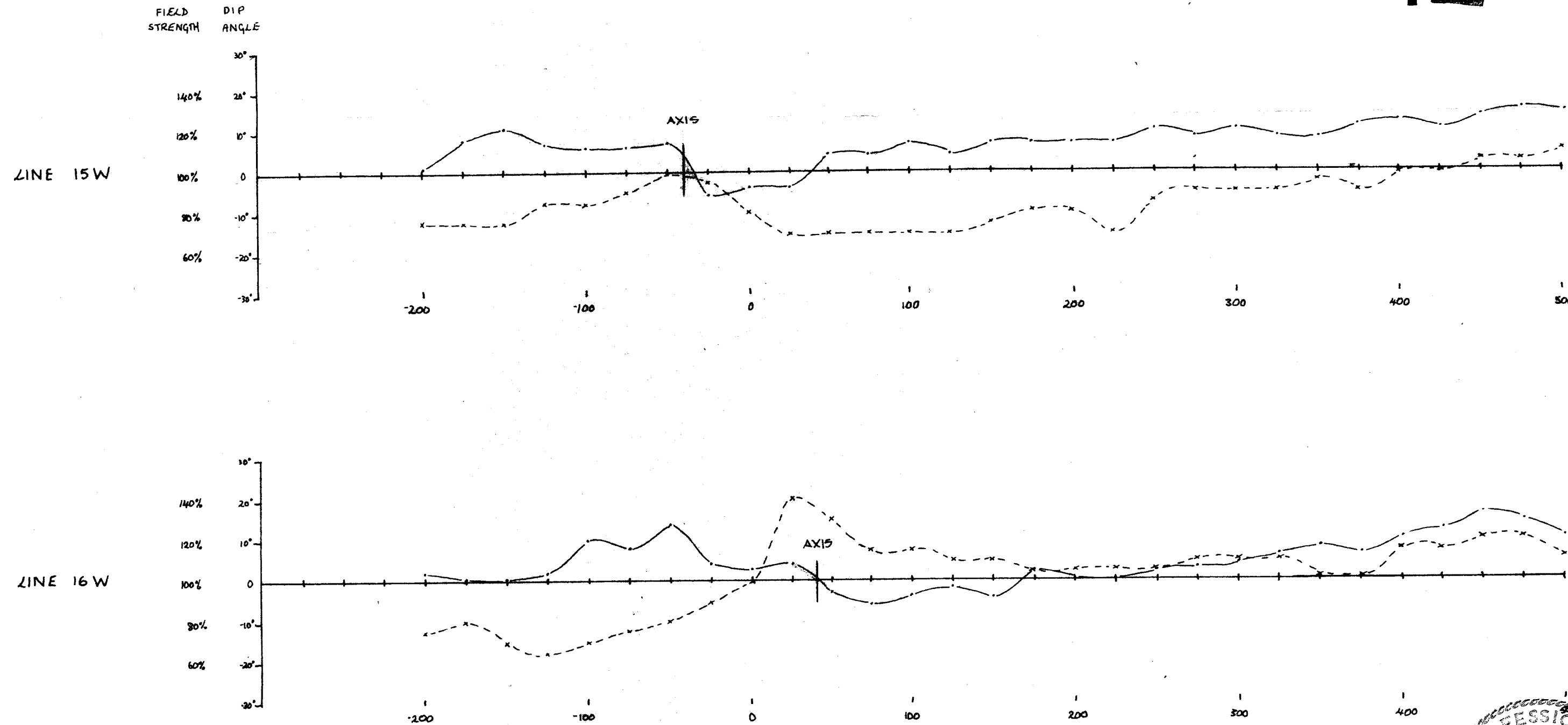
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SURVEY

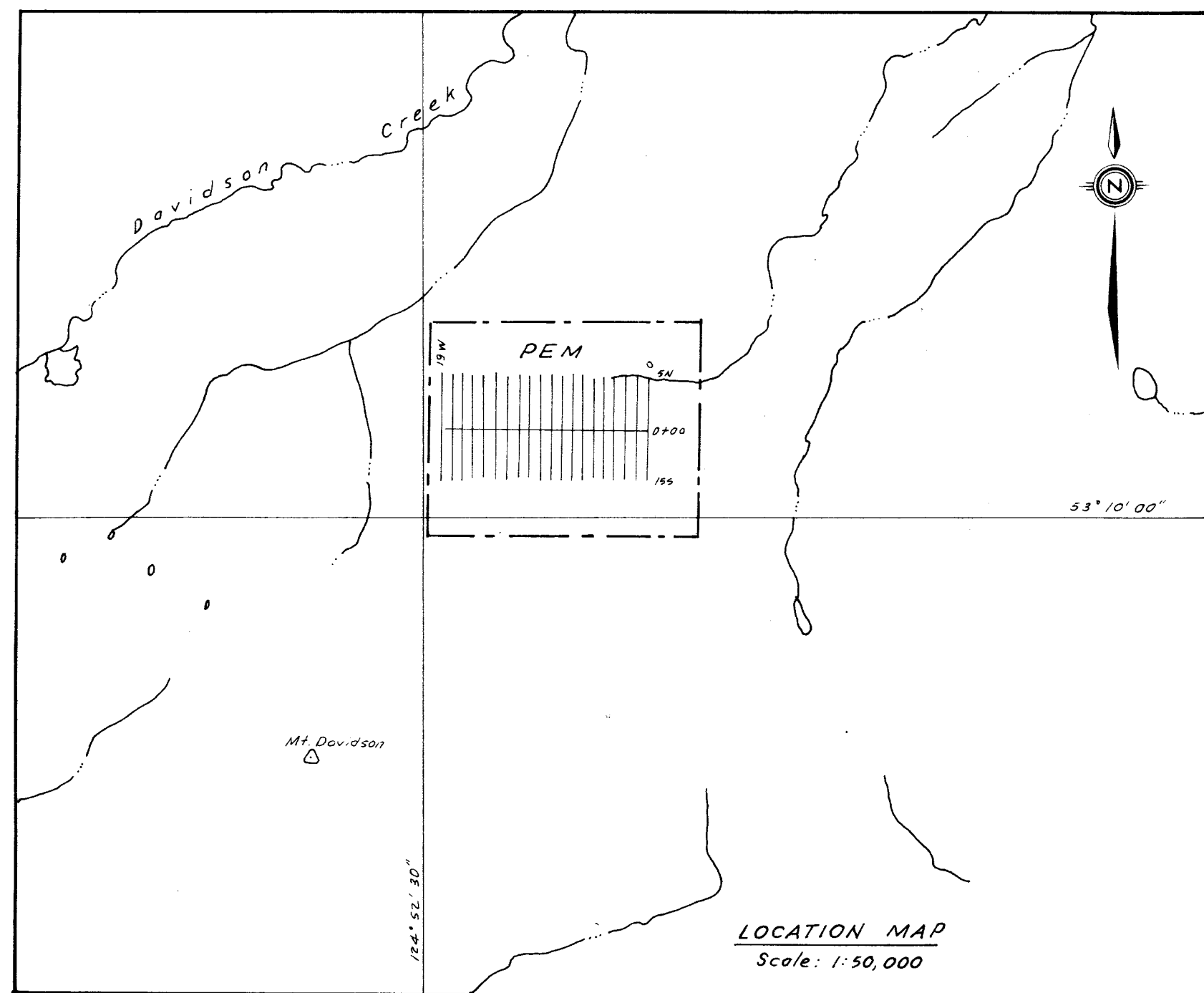
BLACKWATER-
DAVIDSON
PROJECT

PROFILE SECTION
OF FIELD DIP ANGLE
AND STRENGTH

SCALE 1:2500

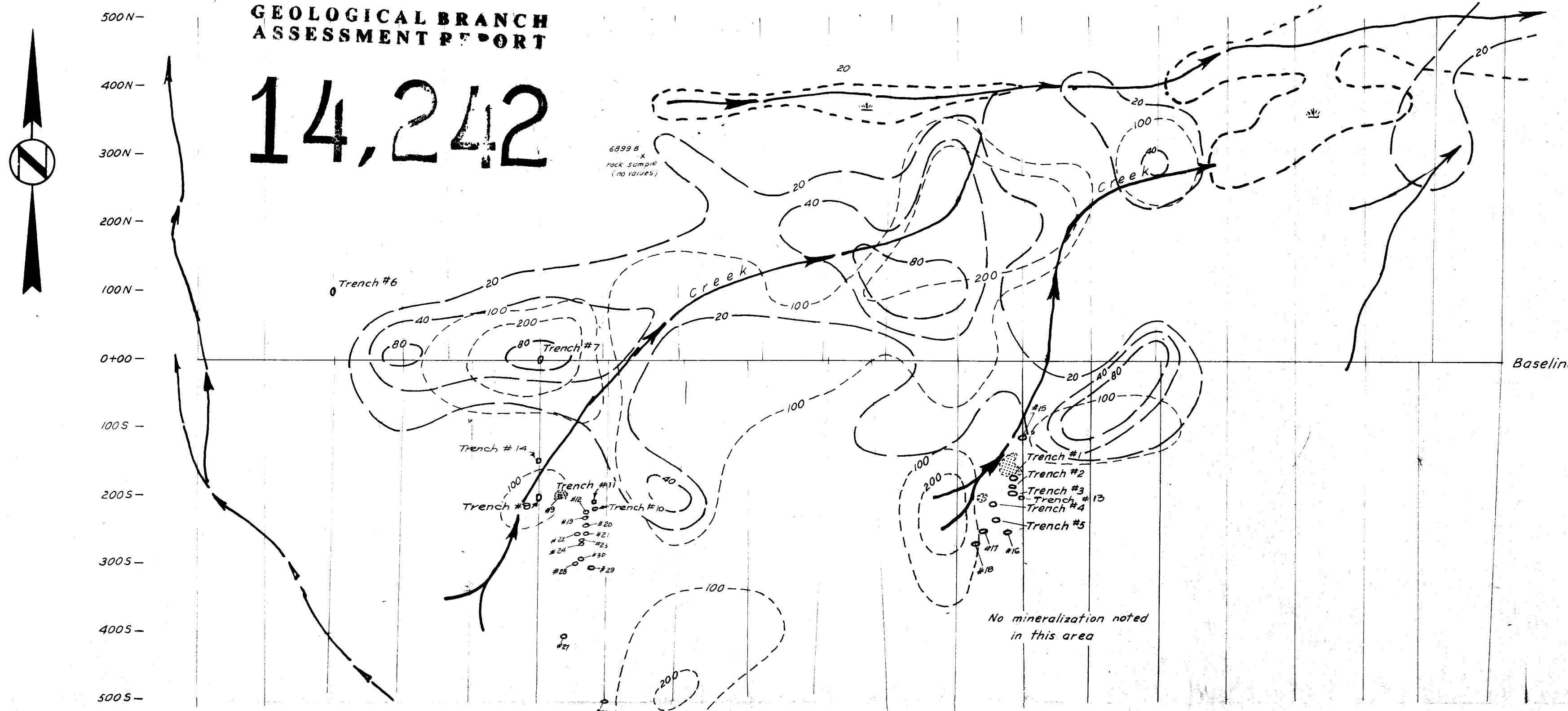
— DIP ANGLE PROFILE
x-x-x-x-x FIELD STRENGTH
PROFILE





GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,242

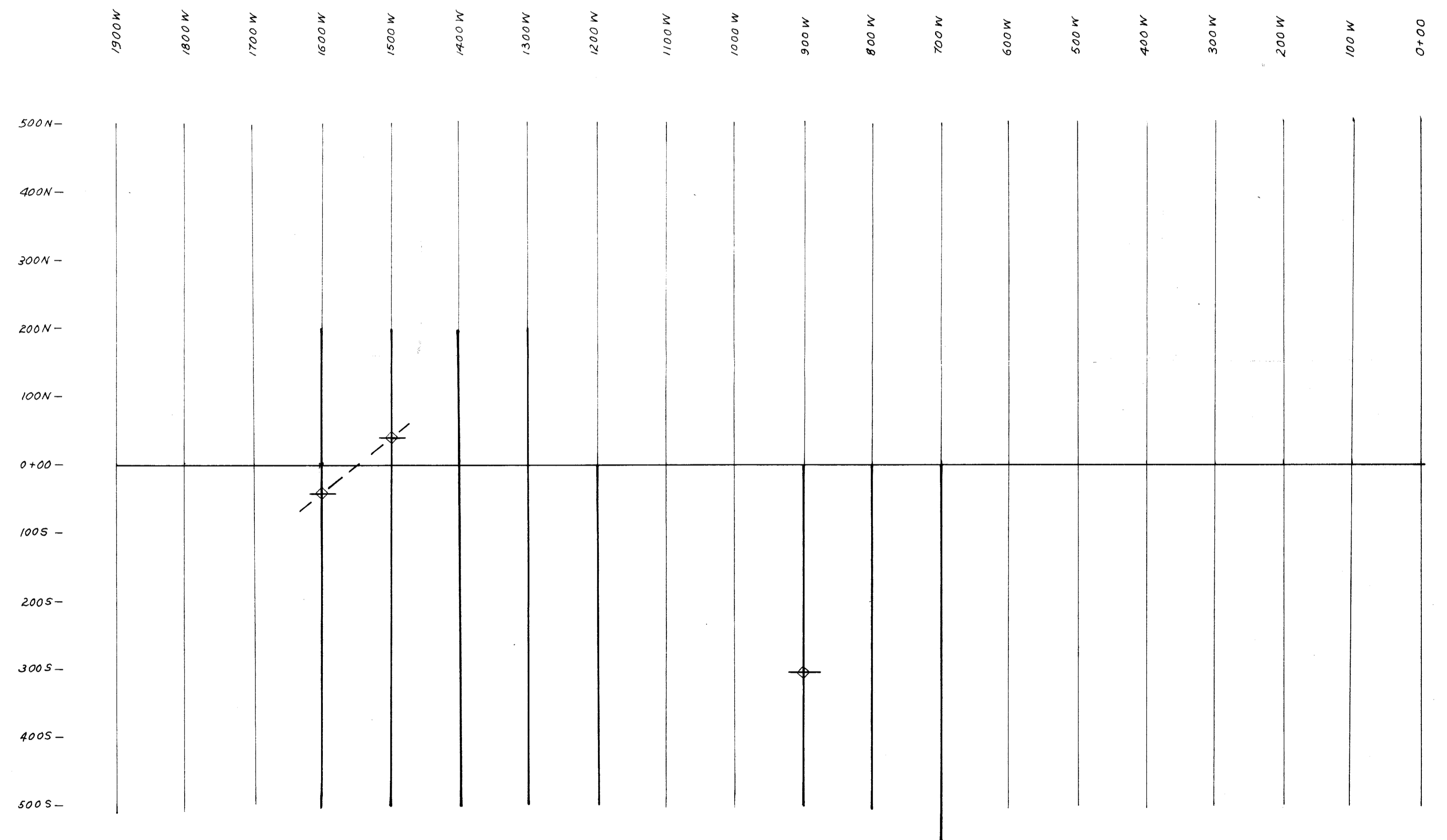
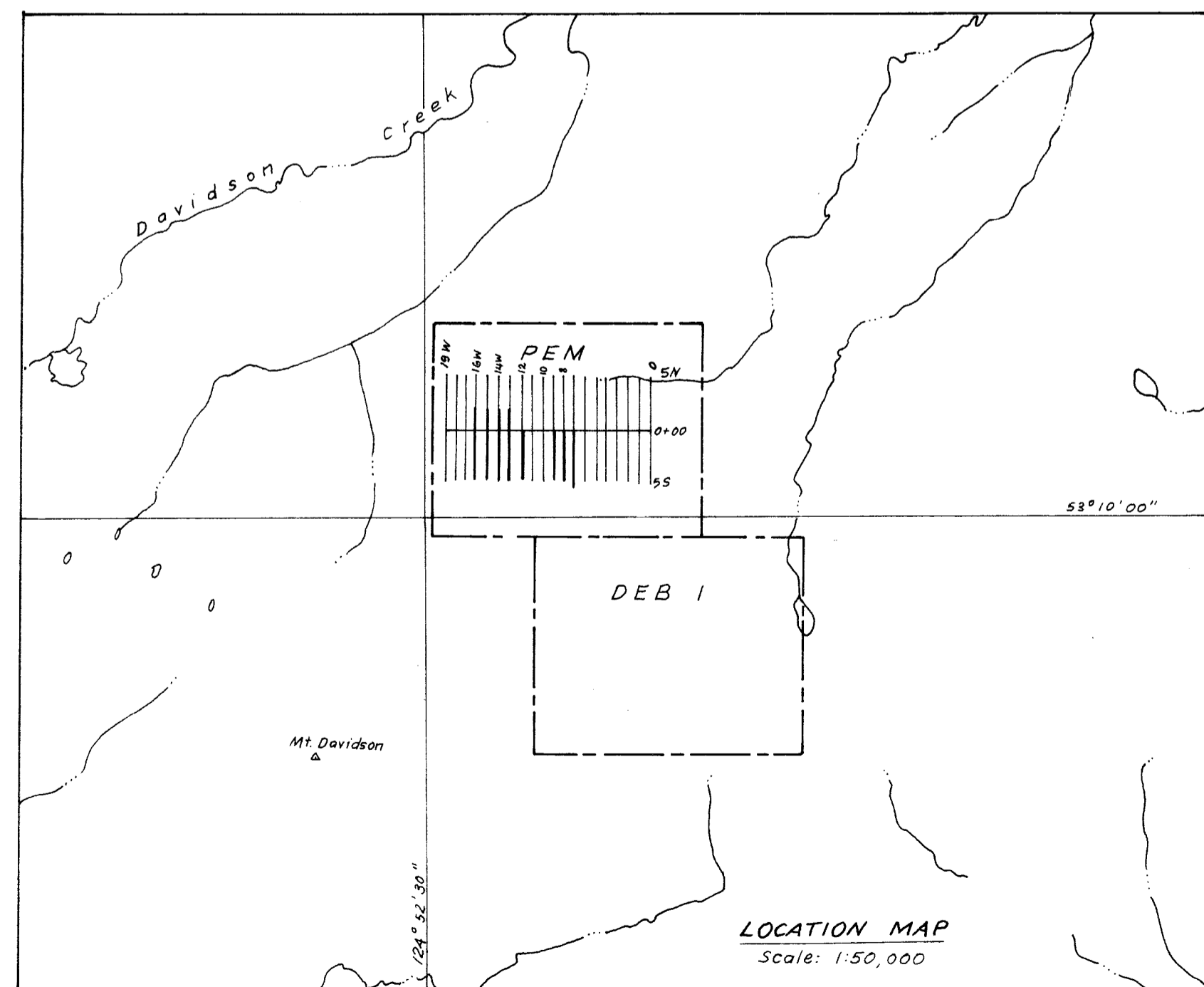


KEY
 --- 40 --- Ag - (in parts per ten million) ⊙ = Gossan
 --- 100 --- Pb - (in parts per million)

PLAN OF PEM CLAIM

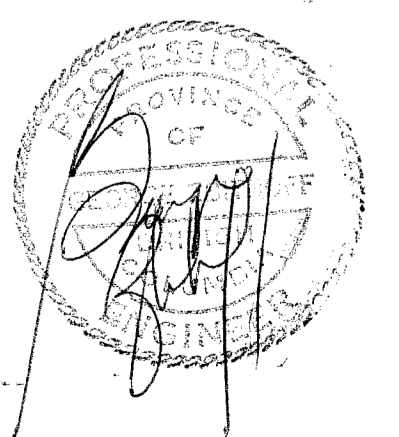
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<p>TRENCH # 15 7+00W - 1+10S</p>	<p>TRENCH # 16 7+25W - 2+48S</p>	<p>TRENCH # 17 7+62W - 2+45S</p>	<p>TRENCH # 18 7+72W - 2+67S</p>	<p>TRENCH # 19 13+32W - 2+30S</p>	<p>TRENCH # 20 13+28W - 2+40S</p>	<p>TRENCH # 21 13+28W - 2+50S</p>	<p>TRENCH # 22 13+45W - 2+52S</p>
<p>TRENCH # 23 13+37W - 2+65S</p>	<p>TRENCH # 24 13+37W - 2+67S</p>	<p>TRENCH # 25 13+00W - 5+00S</p>	<p>TRENCH # 26 13+50W - 6+00S</p>	<p>TRENCH # 27 13+60W - 4+00S</p>	<p>TRENCH # 28 13+50W - 3+00S</p>	<p>TRENCH # 29 13+27W - 3+00S</p>	<p>TRENCH # 30 13+39W - 2+88S</p>



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,242



— VLF SURVEY LINES	DRAWN BY: J.J.W.	GRANGES EXPLORATION LTD. VANCOUVER BC.	VLF ELECTROMAGNETIC SURVEY PEM CLAIM - 554 (3) DAVIDSON PROJECT Mt. Davidson area - BC.	SCALE: 1: 5000
— OLD SURVEY LINES	DATE: February 1985			PROJECT No.: 70120
⊕ WEAK ANOMALY	Surveyed: Sept 7-13 th 1984			N.T.S. No.: 93-F-2