

XY MINERAL CLAIMS HIGHLAND VALLEY AREA KAMLOOPS, M.D., B.C.

LATITUDE 120° 55'W

LONGITUDE 50° 00N

hv

ROBERT E. CHAPLIN, P. ENG.

OWNER - COMET INDUSTRIES LIMITED - 2502- 1177 to HAST ALCOUNTED WORK BY - R. CHAPLIN

WORK DATES - JUNE 21st to JULY 10th, 1972



INDUCED POLARIZATION SURVEY

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Department of

Mines and Association Resources

ASSESSMENT REPORT

NO. 414 H. MAP.

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#1 Index Map #2 Location Map Map 2 Percent frequency effect 3.0 0.1 cps 1" - 40	01 -
#3 MAI 3 - PLAN OF CLAIMS & INDUCED PSC. POLARIZATION SURVEY	
#4 Line 26E I.P. Pole - Dipole 1"=200' #5 " 34E "	
#6 " 38E " " "	
#1 " 4DE " "	
#8 " 46E " " " " " " " " " " " " " " " " " " "	
#9 " 50E " " " " " " " " " " " " " " " " " " "	
#10 " 54E " " " " "	
#12 " 62E " "	
#13 " 66E " "	
#14" 74E"	

<u>Summary</u>

Nine miles of pole - dipole reconnaissance induced polarization survey were completed on the XY Claims using a 400 foot spread to the first separation, on N - S lines spaced 400 feet apart. No anamalous frequency effects were located and no further work is recommended in the search for a large low grade type of copper deposit.

INTRODUCTION

The XY Claims are located on the NE side of the Guichon Batholith, the host rock for the large low-grade copper deposits of the Highland Valley area of British Columbia.

Access is provided by jeep road from the Merritt - Savona road, approximately six miles south of the Leighton - Tunkwa Lakes turn-off.

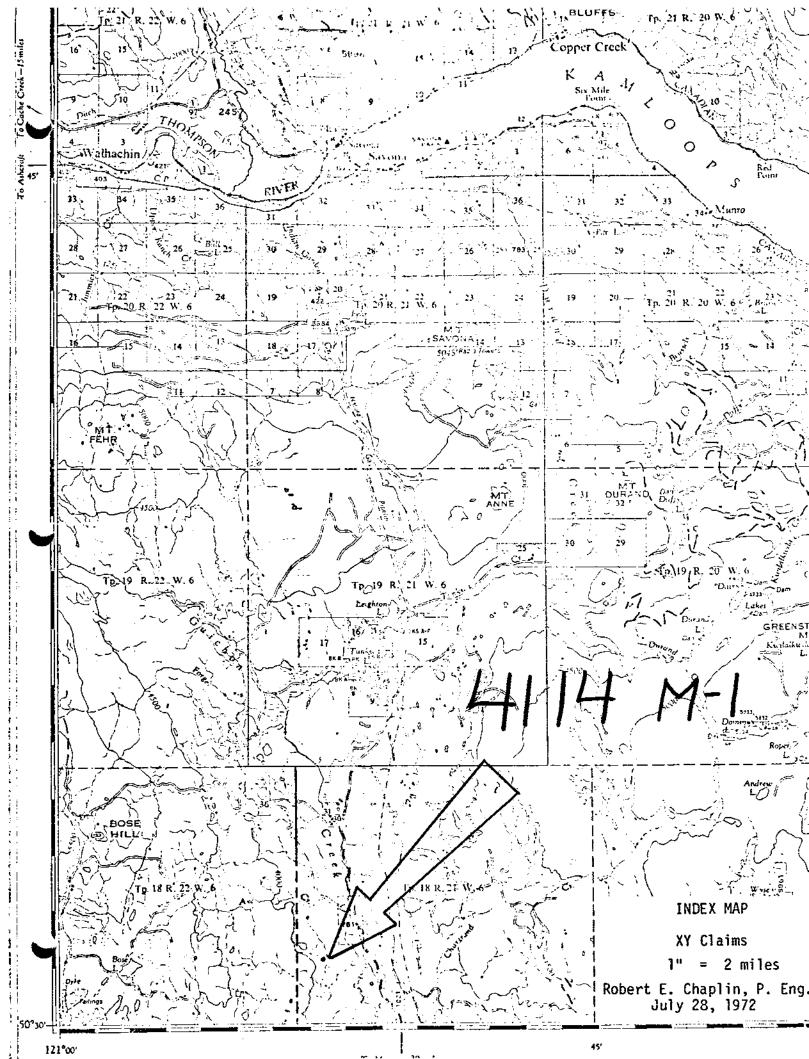
The survey was performed to locate the presence of a large low-grade copper deposit. Outcrop is common on the property except for the S.W. corner. A relatively narrow exposure of copper mineralization was seen during the survey.

SURVEY PROCEDURE

A geoscience frequency - type induced polarization unit performed a pole - dipole array using a 400 foot spread to the first separation.

The unit was powered by a 2.75 kw generator, and ground currents of approximately one ampere maintained relatively noise - free signals on the 3.0 - 0.1 c.p.s. frequency range.

Apparent resistivities commonly above 100 ohm - meters, were calculated at each station during the survey to insure adequate spread widths to measure bedrock effects.



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All percent frequency effects were calculated by deducting both transmitter and daily calibration frequency effects from the receiver frequency effects.

SURVEY RESULTS

The percent frequency effects ranged between 0.5 to 3.0, indicating background response typical of the Guichon quartz diorite rock.

Apparent resistivities were commonly above 100 ohm-meters, indicating that bedrock was adequately searched for a large area of sulphide within 200 feet of the topographic surface.

CONCLUSIONS

and depth surveyed to constitute a large-low grade copper deposit within the Guichon intrusive rocks that underlie the survey area.

No further work for the above type target is recommended.

COST OF SURVEY

DATES WORKED	PERSONNEL EMPLOYED	WAGES
June 21 - July 7, 1972	E. Lee 12 @ \$40.00/day	\$ 480.00
	M. Hilland 13 @ \$25.00/day	\$ 325.00
•	R. Jelfs 13 @ \$25.00/day	\$ 325.00
	S. Reid 13 @ \$25.00/day	\$ 325.00
	B. Tattrie 13 @ \$25.00/day	\$ 325.00
	R. Chaplin	
	5 @ \$100.00/day	\$ 500.00
		\$2280.00
FOOD AND SUPPLIES		\$ 585.00
I.P. EQUIPMENT RENTAL @	\$75.00/day	\$1000.00
I.P. WIRE		\$ 250.00
TRANSPORTATION & FUEL		\$ 400.00
		\$4515.00

Robert Chach Pany

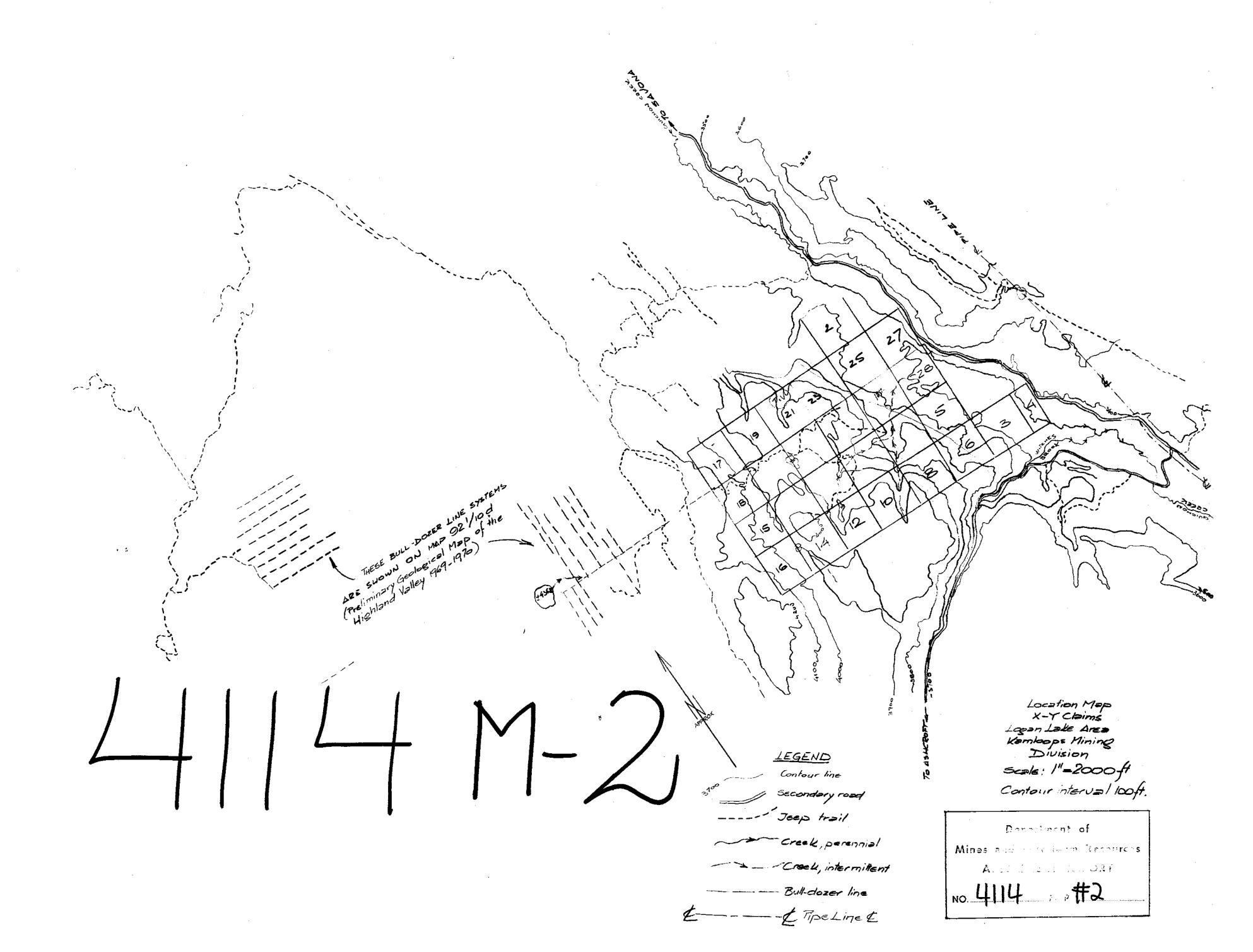
QUALIFICATIONS OF AUTHOR

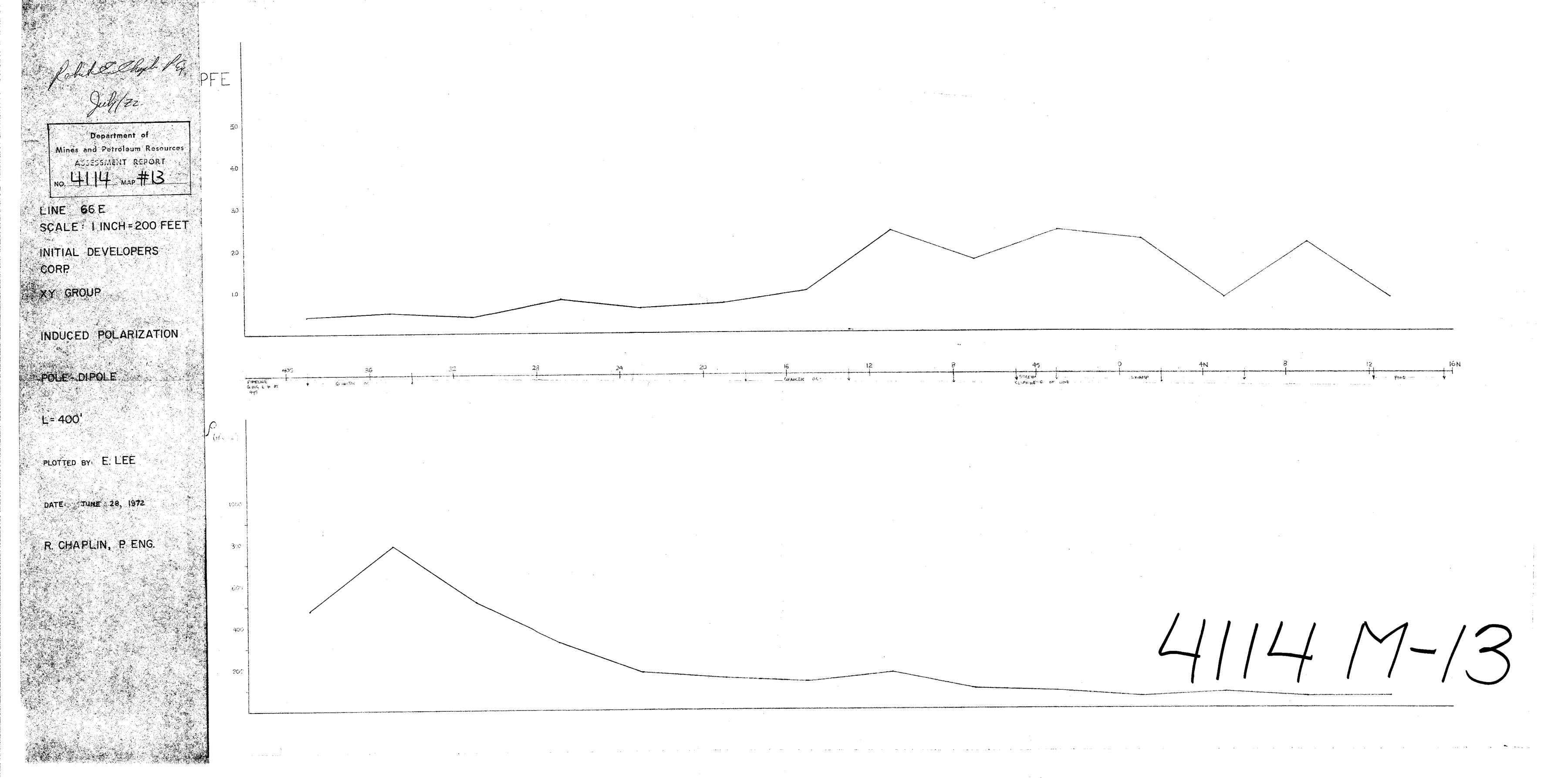
- Graduate, University of British Columbia, Geological Eng. 1959 (B.A. - Sc.)
- 2. Owned and operated induced polarization unit for seven seasons.
- 3. Registered with the British Columbia Association of Professional Engineers.

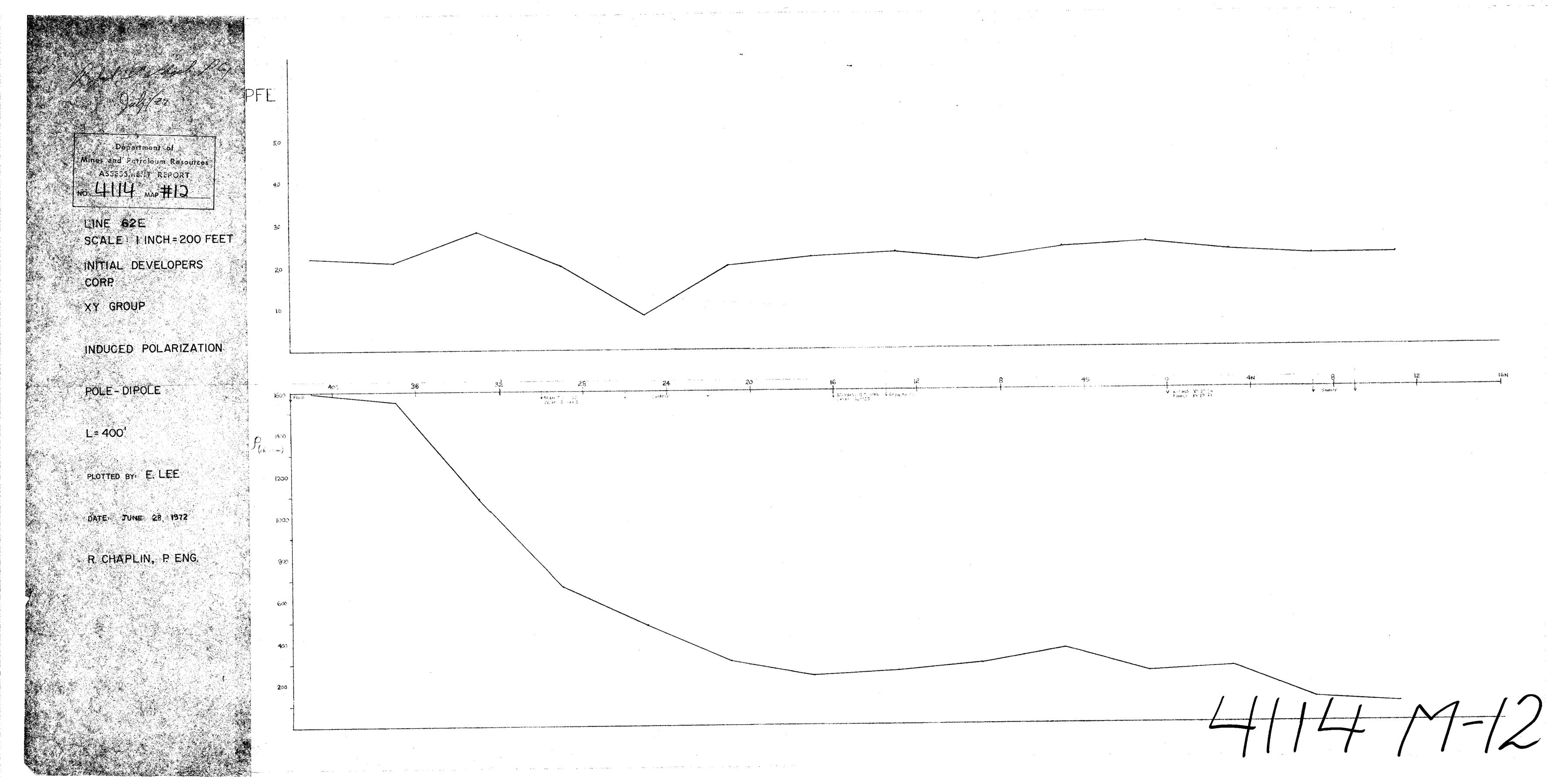
Respectfully submitted,

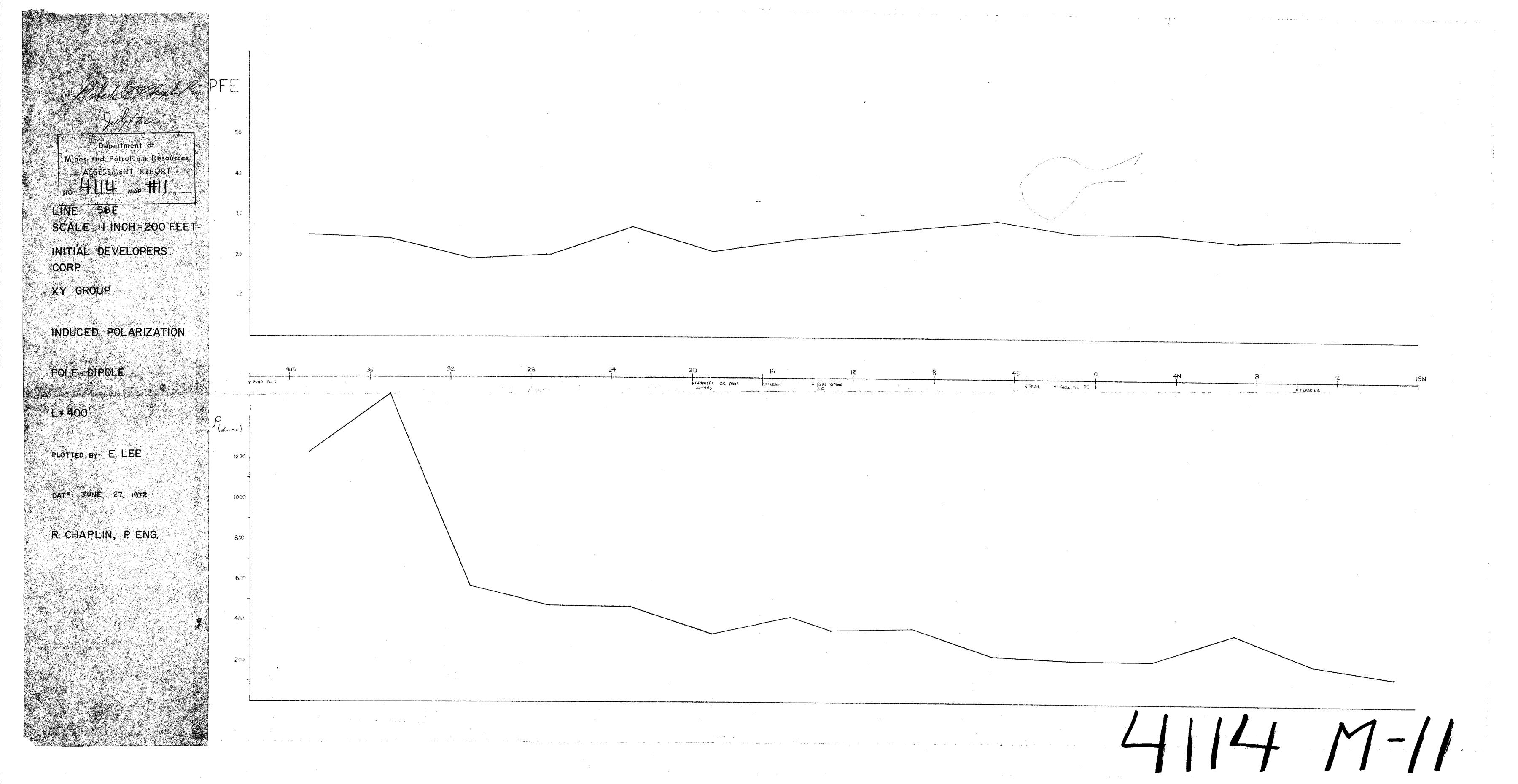
Robert E. Chaplin, P. Eng.,

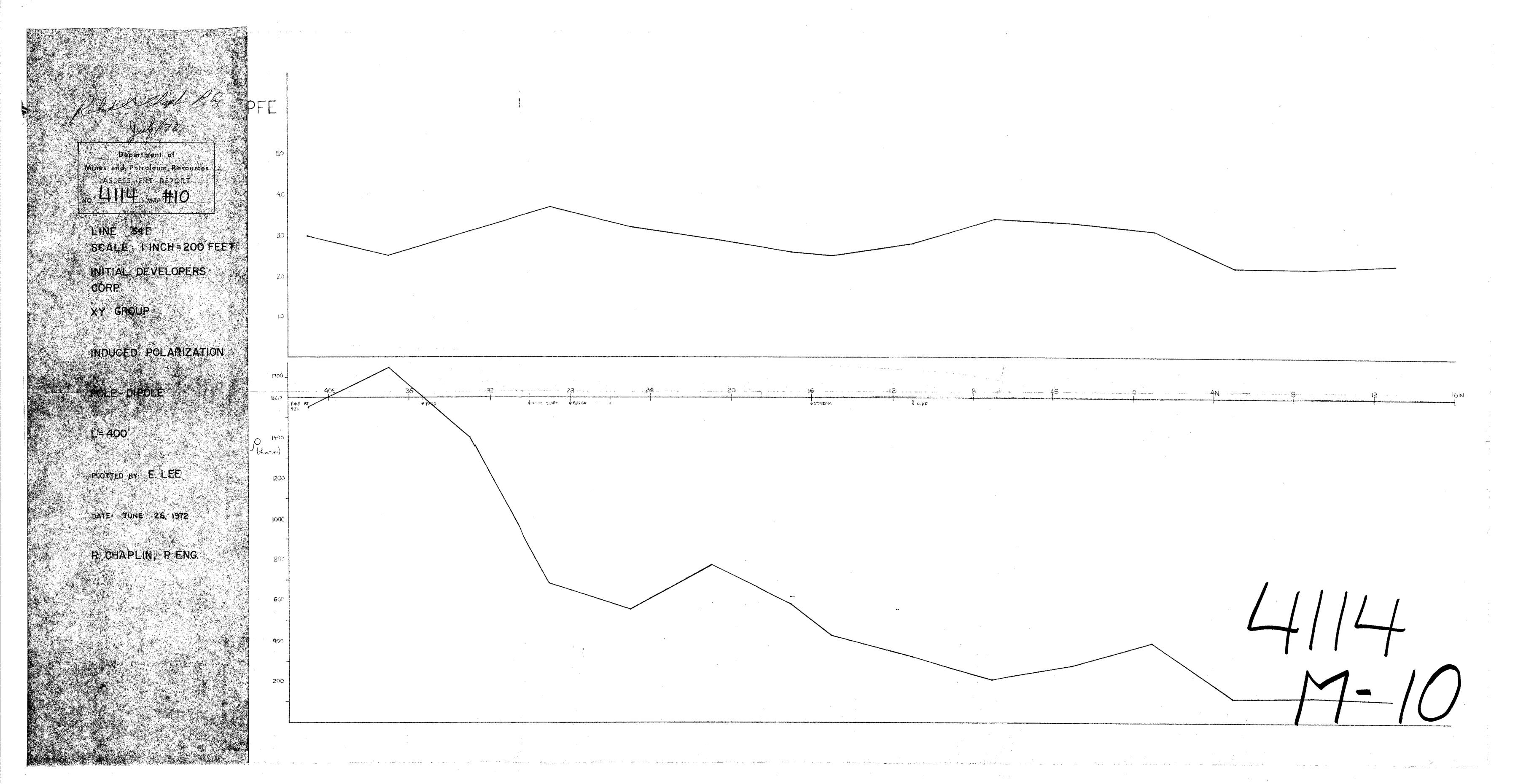
1761 Drummond Drive Vancouver 8, B.C.

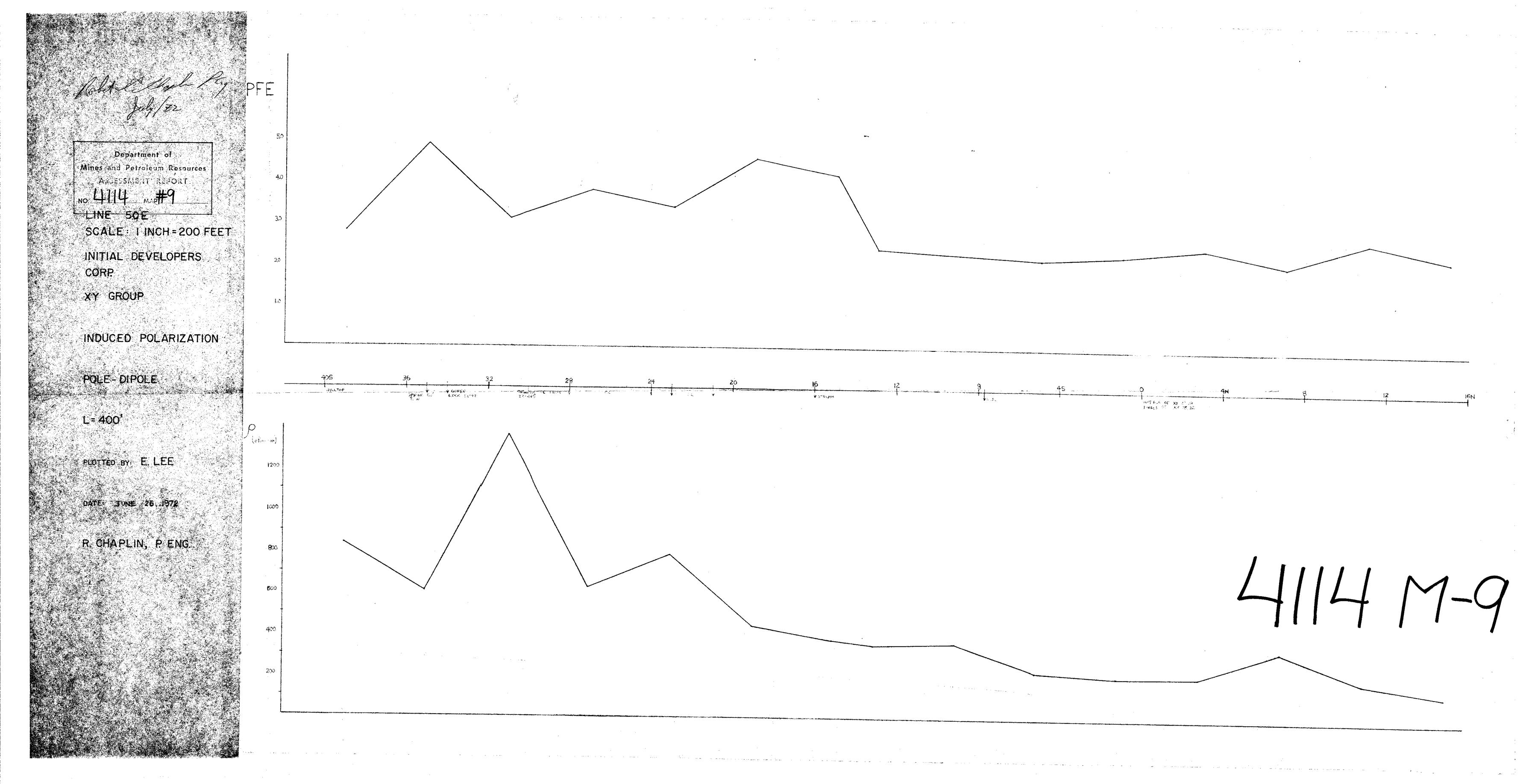




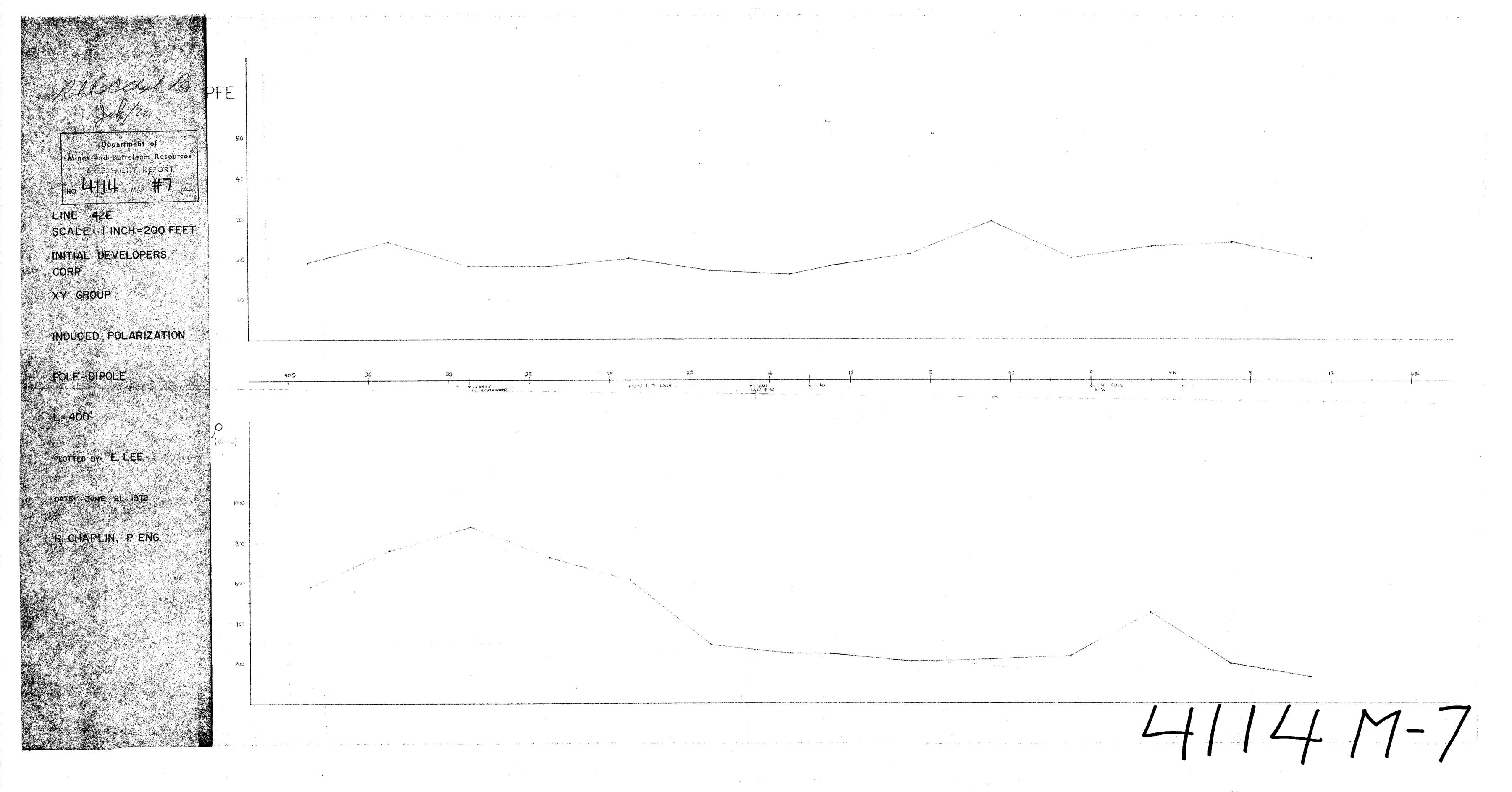


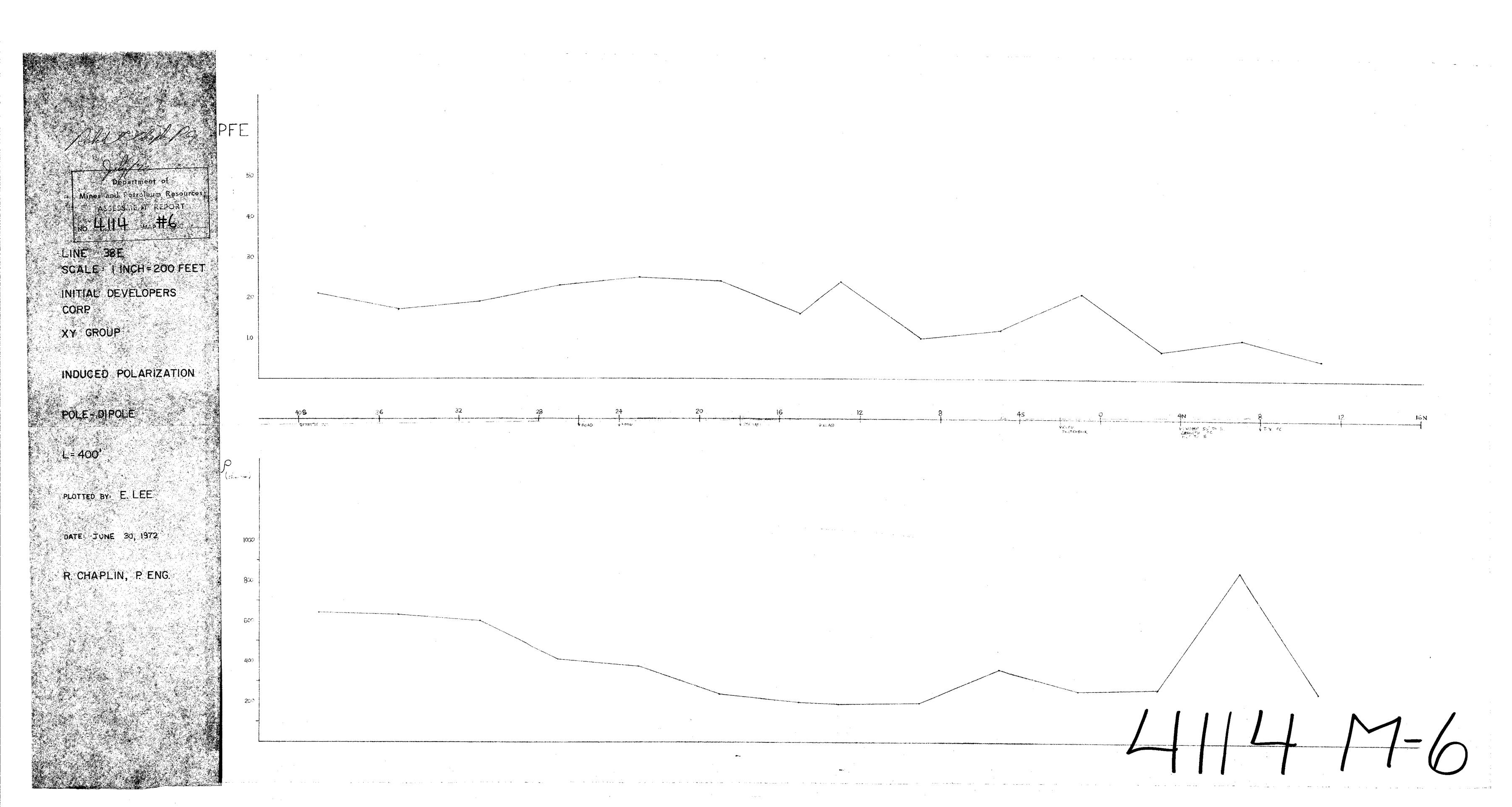


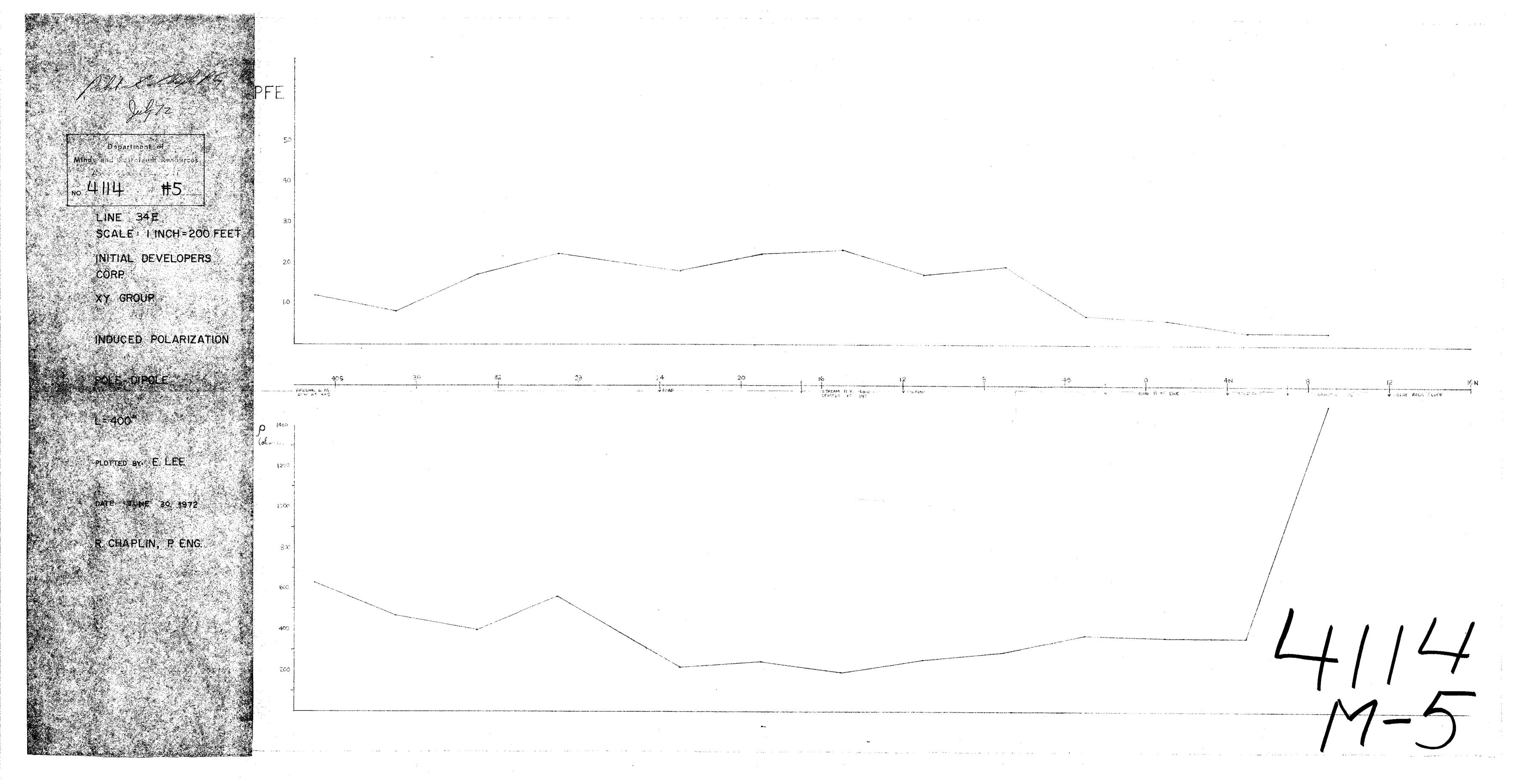


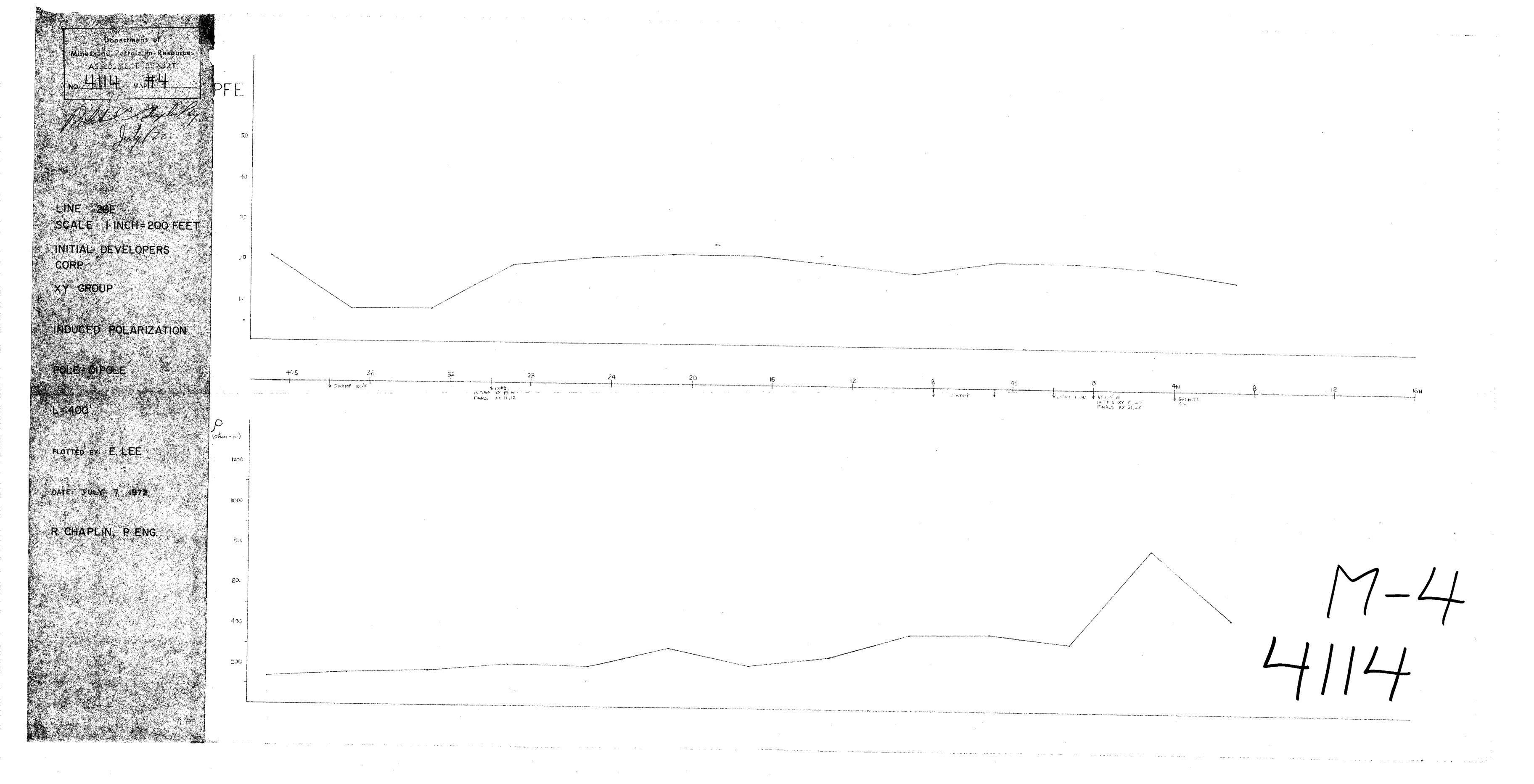


SCALE : I INCH=200 FEET INITIAL DEVELOPERS INDUCED POLARIZATION









					XY		
			iii o	- 54 E	XY2	SCALE 1"=400'	COMET INDUSTRIES LIMITED (N.P.L.) xy claim group highland vally PLAN OF CLAIMS AND INDUCED POLARIZATION SURVEY
XY-17	, XY 19	26E XX 51		XY 23	У XY 25	XY27	pole dipole L=400 feet Department of Mines and Petroleum Resources ASSESSAR AT REPORT NO. 4114 AMP #3
XY 18	XY 20	XY-22		Y 24	XY26	XY 2.8	DATE JULY 7, 1972 FOR REPORT BY R. CHAPLIN P.ENG. WORK DONE 21 JUNE TO 10 JULY, 1972
XY-15	XY-13	X Y 1 1			X 7	XY 5	I.P. LINE COVERAGE (SEE DETAILED MAPS ACCOMPANYING REPORT)
XY 16	XY 14	XY:12	XY.10		XY.8	XY.G	XY3 XY4
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