

LOG NO: 0110	RD.
ACTION:	
FILE NO:	

BOULDER GOLD MINES LTD.

REPORT ON

SEISMIC REFRACTION INVESTIGATION
 PLACER GOLD EXPLORATION
 CARIBOO MINING DIVISION
 BRITISH COLUMBIA

LOG NO: 0706	RD. 2
ACTION: Date received back from amendment	
FILE NO:	

SUB-RECORDER RECEIVED
 JAN 5 1990
 M.R. # _____ \$ _____
 VANCOUVER, B.C.

Wells Area, B.C.

NTS 93 H/4

53° 03.5'N, 121° 40.5'W

OWNER AND OPERATOR
 BOULDER GOLD MINES LTD.
 #2505 - 1850 Comox Street
 VANCOUVER, B.C. V6G 1R3

by
 Russell A. Hillman, P. Eng.

SEISMIC REFRACTION INVESTIGATION REPORT
 ASSESSMENT REPORT
 19,538

January, 1989

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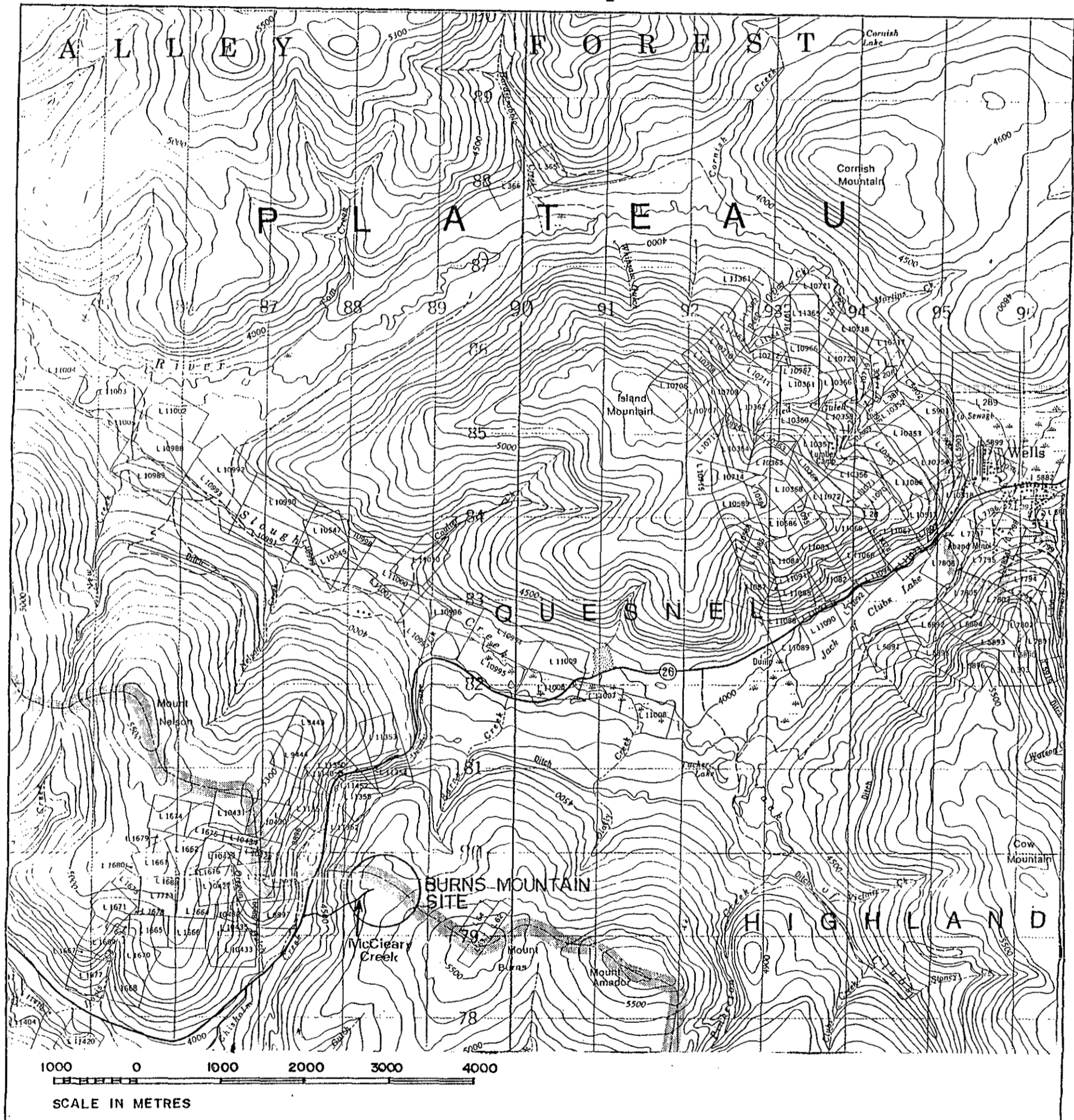
FIGURES

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1. INTRODUCTION

In the period August 3, to August 5, 1989, Frontier Geosciences carried out a seismic refraction survey in the Wells area of British Columbia for Boulder Gold Mines Ltd. In all, a total of 1690 m of survey work was carried out on claims 483, 484, 485, and 1517 on Burns Mountain. A survey location plan at 1:50,000 scale is shown in Figure 1 with a claim location plan at 1:31,680 shown in Figure 2. A detailed site plan is presented in Figure 3 at a scale of 1:2860.

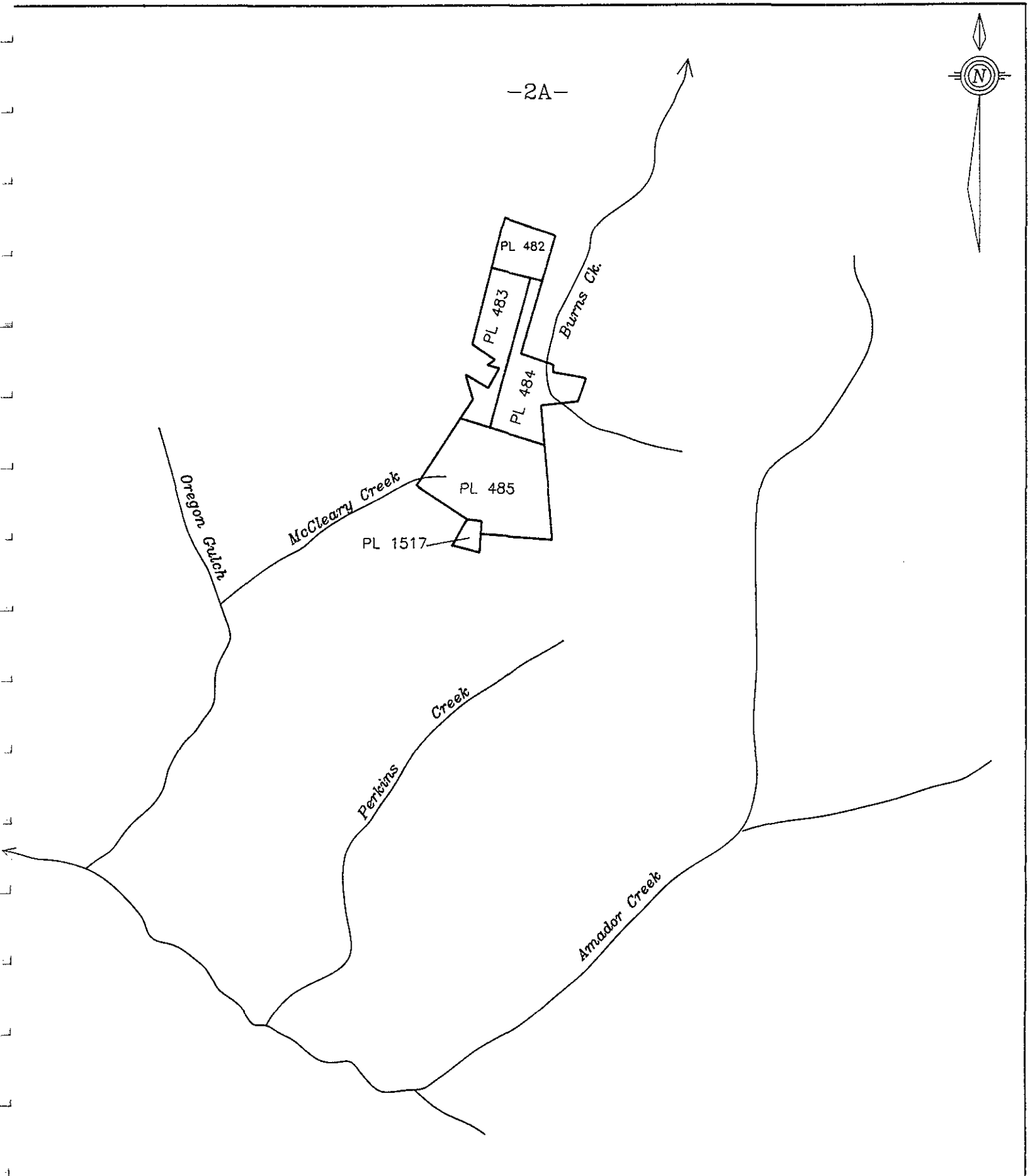
The purpose of the survey was to delineate bedrock depressions infilled with either alluvial sands, gravels, cobbles and boulders or glacial till which may contain anomalously high placer gold values.




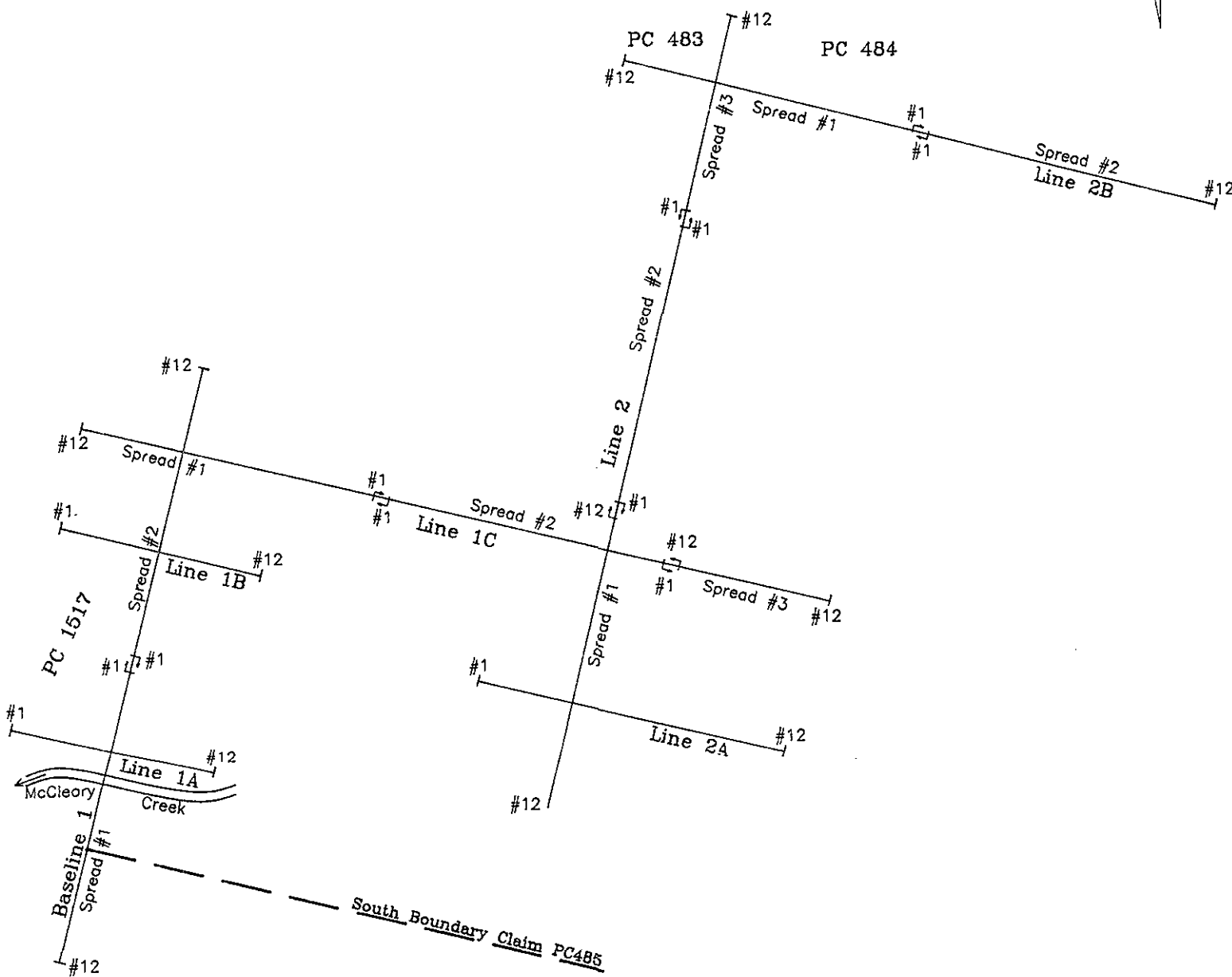
BOULDER GOLD MINES LTD. BURNS MOUNTAIN PROJECT		FRONTIER GEOSCIENCES INC.	
SEISMIC REFRACTION SURVEY SURVEY LOCATION PLAN		August 1989	Fig.1
		NTS 92H/4	



-2A-



BOULDER GOLD MINES LTD. BURNS MOUNTAIN PROJECT	FRONTIER GEOSCIENCES INC.	
SEISMIC REFRACTION SURVEY CLAIM LOCATION PLAN	August 1989	Fig. 2
	0  1 km	



BOULDER GOLD MINES LTD. BURNS MOUNTAIN PROJECT		FRONTIER GEOSCIENCES INC.	
SEISMIC REFRACTION SURVEY SITE PLAN		August 1989	
			Fig.3

2. LOCATION AND ACCESS

The survey area lies in close proximity to the town of Wells, B.C. The Burn's Mountain site is on the west flank of Burns Mountain, approximately 6 km west of Wells along Highway 26 and then 3 km south along a 4-wheel drive access road.

3. TOPOGRAHY AND CLIMATE

The region is characterized by rugged topography with local mountains rising to over 1675 m in elevation. The base of local creek valleys is at approximately 1220 m elevation. The areas surveyed are sub-alpine meadows with a forest cover of balsam and scrub spruce conifers.

Annual temperatures in the area range from -30°C in winter to highs of $+25^{\circ}\text{C}$ in the summer period. Precipitation in the area is high with the moisture falling as rain mainly in the spring and fall periods and snow throughout the winter.

4. HISTORY

The site of substantial placer and limited lode mining since the 1860's. Burns Mountain is famous for the richness of its quartz-hosted mineralization. Numerous historic and currently operating placer mines are located adjoining the B.G.M. Ltd. property, however, no detailed survey work has been carried out to date on this site.

In September 1989, Frontier Geosciences Inc. carried out a reconnaissance dipole-dipole resistivity investigation on the site. Several promising features were identified as favourable targets for further exploration.

Reference: Hillman, R.A., Report on Dipole-Dipole Resistivity Investigation, Golden Opportunity Mining Ltd., November, 1988.

5. GEOLOGY

The Downey Creek Succession composed of metamorphosed slates, phyllites, quartzites, carbonates, metatuffs and clastics is the most significant rock assemblage in the Barkerville/Wells area because of the good correlation between outcrops of these rocks and placer operations. These rocks form a belt trending southeast/northwest through the Cariboo Mining District.

Three types of placer deposits account for the gold production in the area. These deposits are (1) preglacial and inter-glacial gravels reworked from older glacial deposits; (2) lodgement tills containing reworked preglacial gravels deposited at the base of ice sheets and lee side boulder layers formed around bedrock highs, and; (3) modern reconcentrations of gold from older placers.* The areas investigated are largely valleyside benches which may have been favourable environments for deposition of type (1) and (2) deposits.

*Gold placers in Pleistocene glacial deposits; Barkerville, British Columbia N. Eyles and S.P. Kocsis, CIM Bulletin, August 1988.

6. SEISMIC REFRACTION SURVEY METHOD

6.1 EQUIPMENT

The seismic refraction investigation was carried out using a Geometrics Model ES-1225, 12 Channel, signal enhancement seismograph. A 152 metre multicored cable was used for all seismic refraction lines. Geophone spacings along the seismic cable ranged from 3.8 metres to 15.2 metres. Explosive charges were detonated electrically using a Geometrics, HVB-1, high voltage, capacitor-type blaster.

6.2 SURVEY PROCEDURE

For each spread, the seismic cable was stretched out in a straight line and the geophones implanted. Six different shot holes were then excavated: one at either end of the geophone cable, two at intermediate locations along the cable, and one off each end of the cable to ensure adequate coverage of the basal layer. Seventy-five percent Forcrite was utilized as an energy source in the survey. Shots consisting generally of one to three sticks of Forcrite were detonated individually and arrival times for each geophone were automatically recorded in the seismograph. Hard copy

records were made on electrically sensitive recording film. Data recorded during field surveying was generally of good to excellent quality. Photocopies of the recorded seismic data are shown in Appendix B.

Throughout the survey, notes were recorded regarding seismic line position in relation to topographic and geological features of the area. Elevation surveying was carried out utilizing a chain and inclinometer.

7. DISCUSSION AND RESULTS

7.1 GENERAL

The interpreted seismic sections for the site are presented at a scale of 1:500 in Appendix A (Figure 4). An inspection of the interpreted sections reveals relatively shallow depths to bedrock interpreted thicknesses of overburden vary from a minimum of 1m to a maximum of 10.5 meters. The basal surface in Figure 4 is represented by velocities ranging from 3750 m.p.s. to 4840 m.p.s.

Several Bedrock depressions are present in the sections. An isolated bedrock row is apparent at the north end of Baseline 1. This is consistent with dipole-dipole resistivity results at this location. A more continuous depression is evident trending from the east end of Line 2A to the intersection of Line 1C and Line 2. The depression centred on Line 2B may be a further extension of this feature to the north.

The generally thin surficial layer varies in velocity from 300 m.p.s. to 900 m.p.s. This layer has been correlated

with weathered glacial till, weathered bedrock, loose alluvium and silty organic material in the bog areas. Underlying this layer, is a thicker intermediate layer ranging in velocity from 1170 m.p.s. to 3000 m.p.s. The lower velocities are probably representative of weathered glacial till or unsaturated alluvium. The intermediate velocities in this layer are likely indicative of glacial till or saturated alluvium. The high velocities are interpreted to be loose weathered rock or coarse gravels, cobbles and boulders.

Frontier Geosciences Inc.


Russell A. Hillman, P.Eng.

The seal is circular with a double-line border. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "COLUMBIA" at the bottom. The inner ring contains "PROVINCE OF" at the top and "BRITISH COLUMBIA" at the bottom. In the center, the name "Russell A. Hillman" is written in a serif font. A handwritten signature in cursive is written over the seal.

8. ITEMIZED STATEMENT OF COST

PERSONNEL

Senior Geophysicist		
15.0 days @ \$400.00 per day	\$ 6,000.00	
Technician		
8.0 days @ \$175.00 per day	1,400.00	
Draftsman		
8.0 hours @ \$30.00 per hour	240.00	
Typist		
6.0 hours @ \$15.00 per hour	<u>90.00</u>	

Subtotal - Personnel \$ 7,730.00

EXPENSES

Seismic System Rental		
4.0 days @ \$175.00 per day	\$ 700.00	
Consumables - film, etc.	<u>20.00</u>	

Subtotal - expenses 720.00

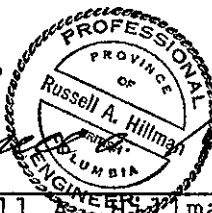
TOTAL COST \$ 8,450.00

9. CERTIFICATE

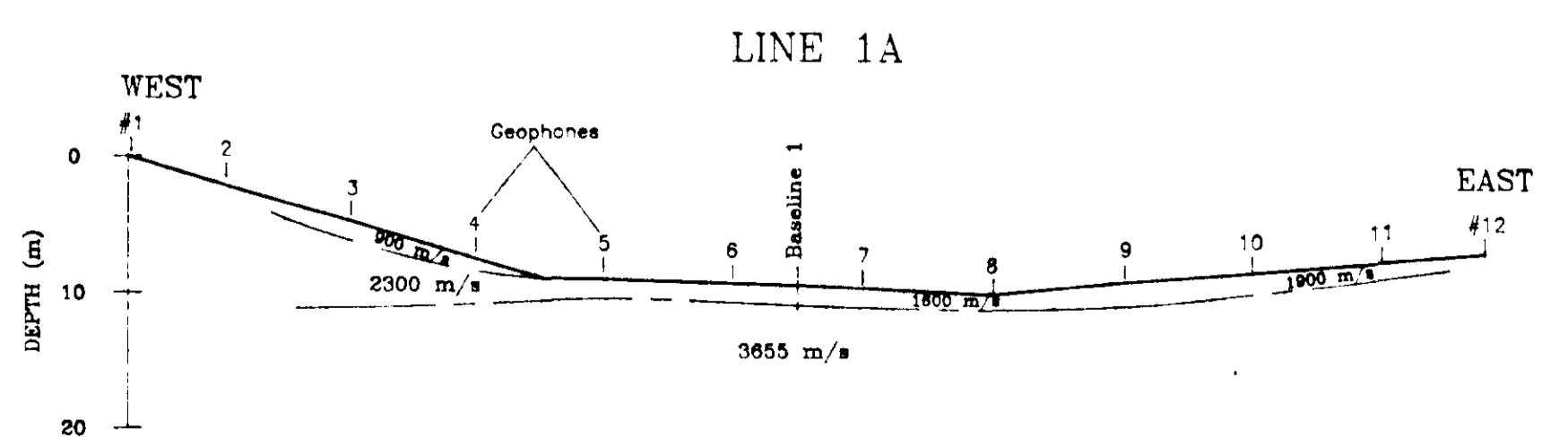
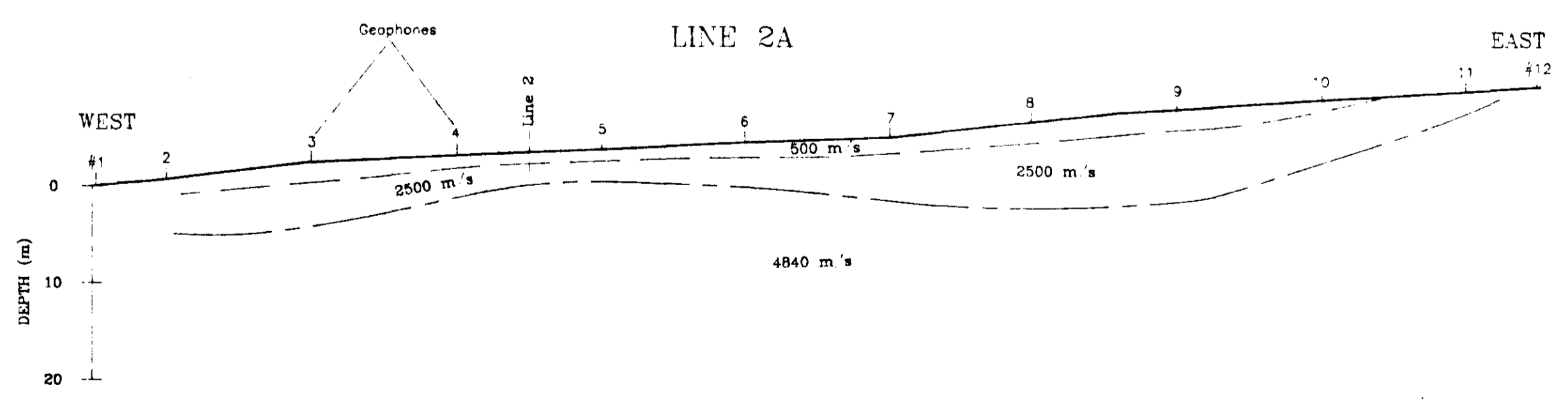
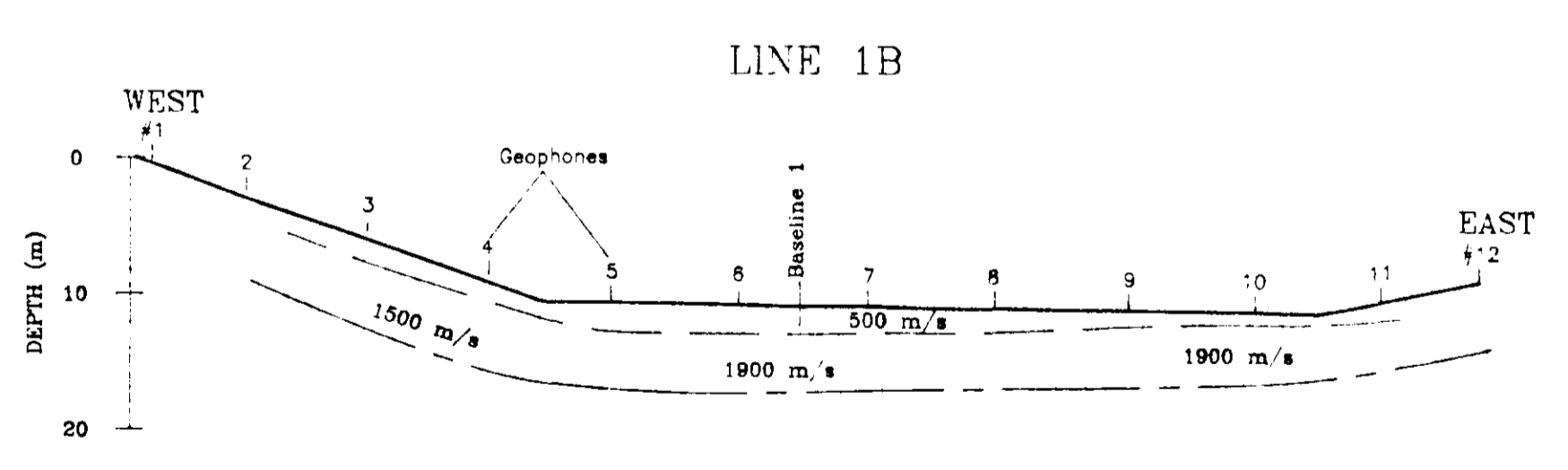
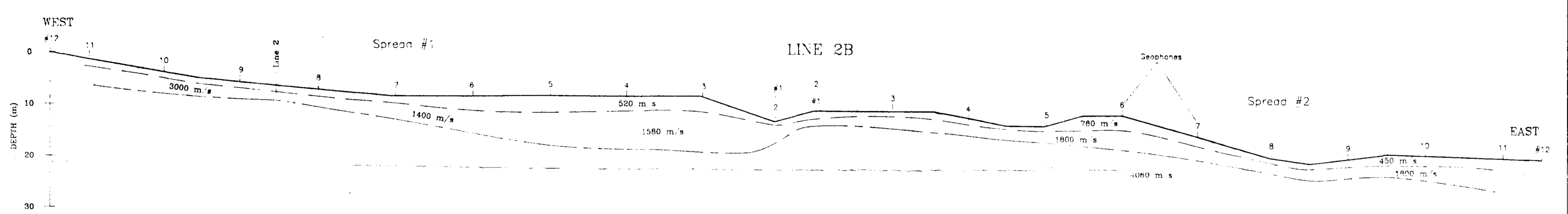
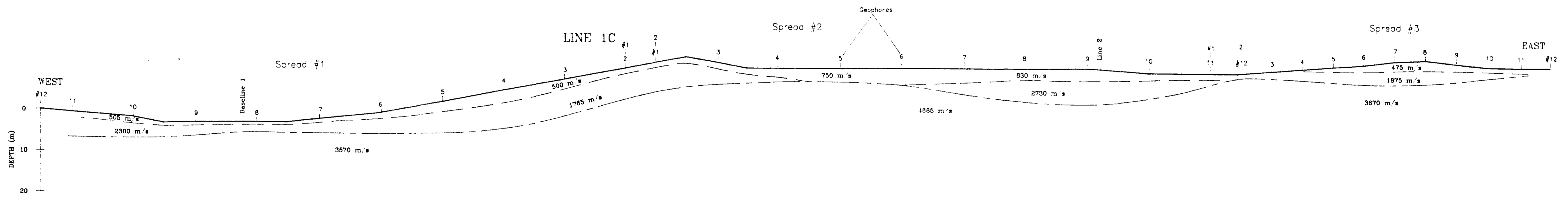
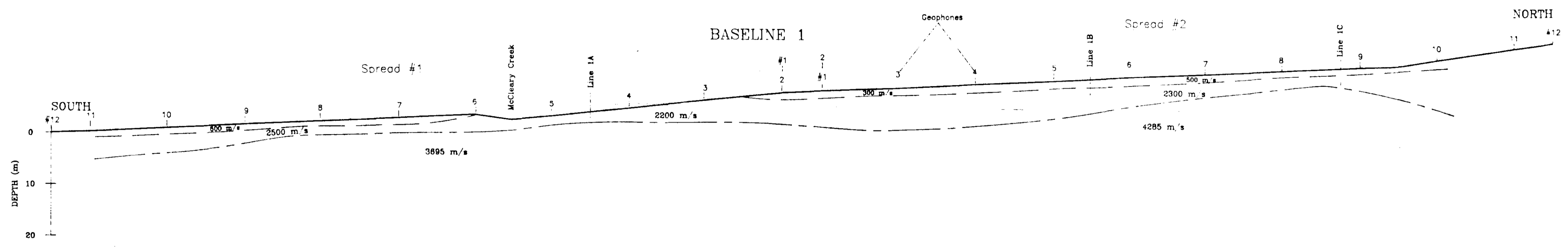
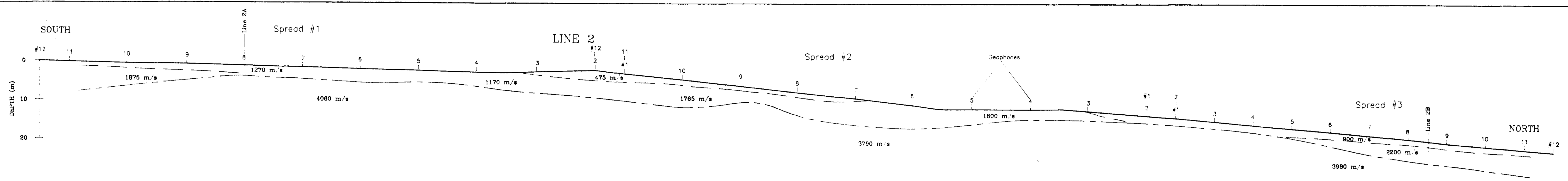
I, RUSSELL ALEXANDER HILLMAN, resident of Vancouver, British Columbia, hereby certify as follows:

1. I am a Consulting Geophysicist with an office at #7 - 84 Lonsdale Avenue in North Vancouver, B.C.
2. I graduated with a degree of Bachelor of Science, Geophysics, from the University of British Columbia.
3. I have practised my profession for 19 years. I am a Professional Engineer in the Province of British Columbia.
4. I am a member of good standing with the European Society of Exploration Geophysicists.
5. I have an interest of 40,000 shares in Boulder Gold Mines Ltd.
6. I supervised and interpreted the results of a Seismic Refraction Survey carried out on the property of Boulder Gold Mines Ltd. near Wells, B.C. in the period August 3, to August 5, 1989.

Dated at Vancouver, Province of British Columbia, this 29th day of December, 1989.


Russell A. Hillman
Russell A. Hillman, P.Eng.

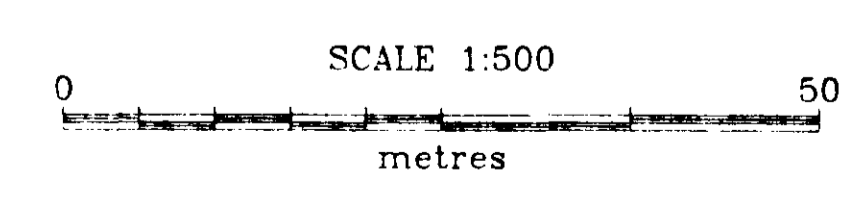
APPENDIX A



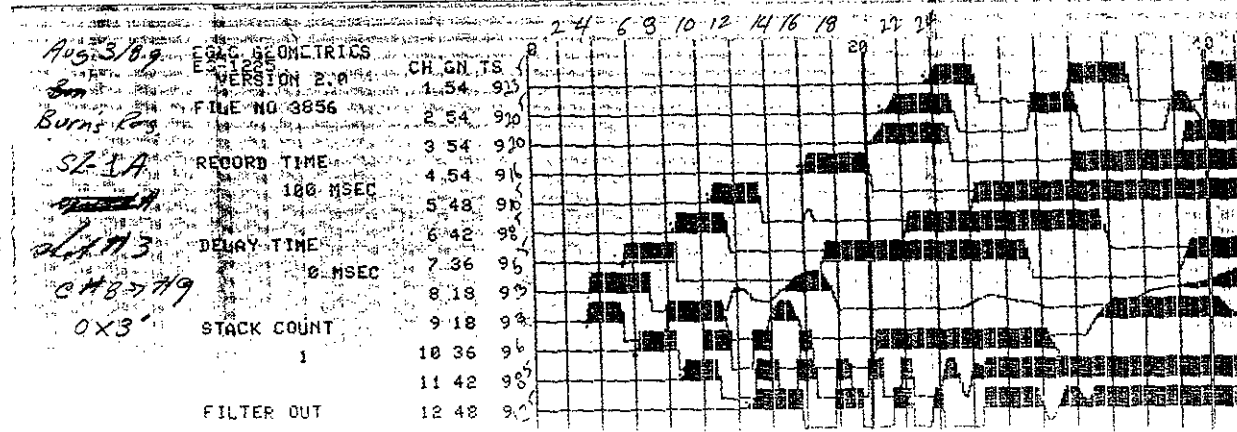
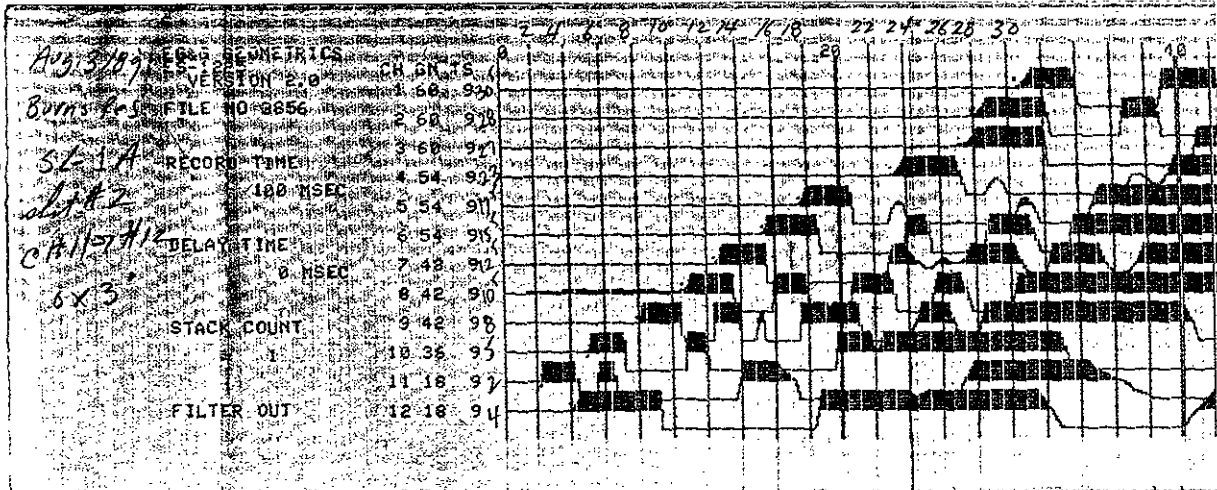
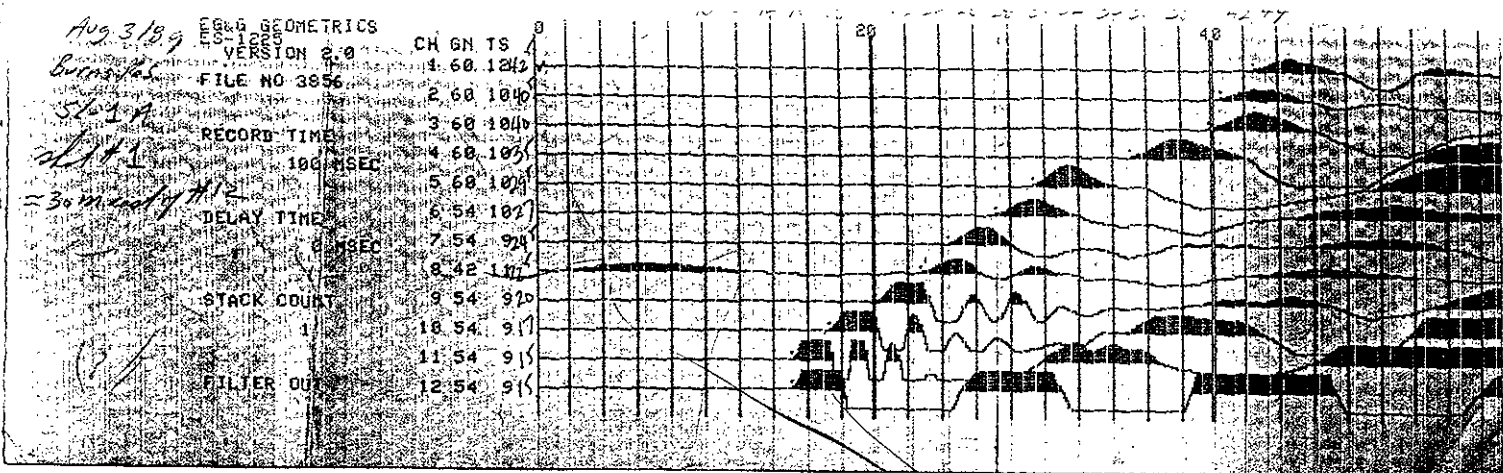
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,538

KEY
1800 m/s = 1800 metres/second



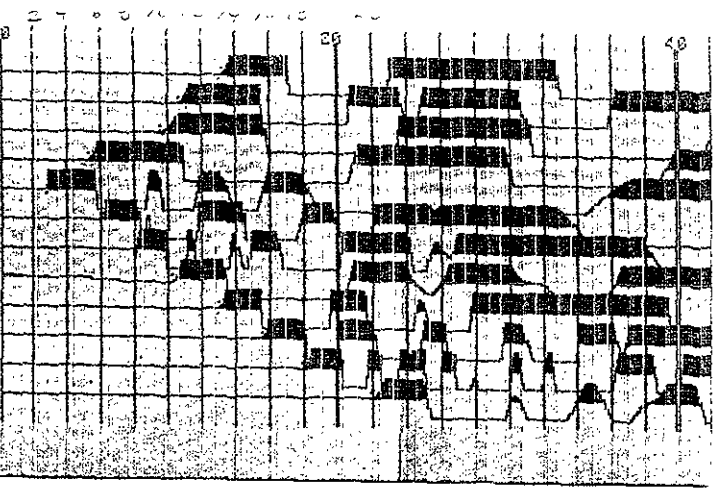
BOULDER GOLD MINES LTD. BURNS MOUNTAIN PROJECT		FRONTIER GEOSCIENCES INC.	
SEISMIC REFRACTION SURVEY INTERPRETED SEISMIC SECTIONS		August 1989	Fig.4



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Aug. 3/89
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 01A
 CH 45
 0X3

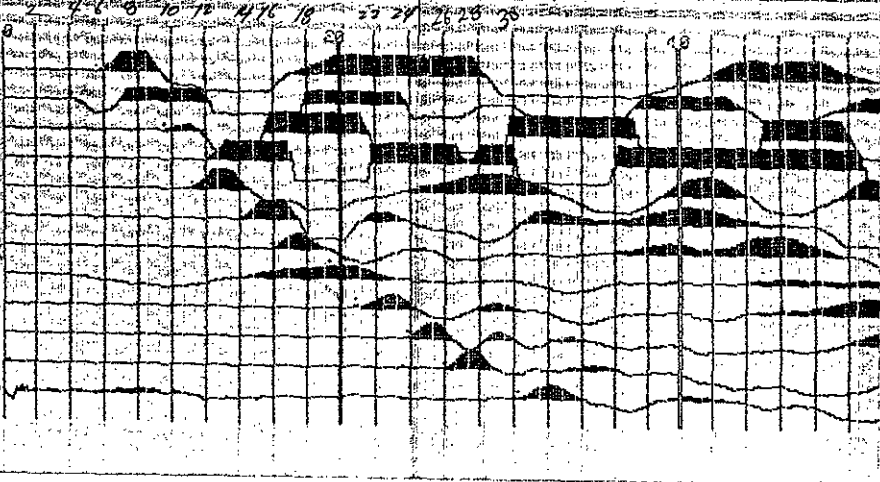
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DELAY TIME	5	18	93
0 MSEC	6	30	96
STACK COUNT	7	42	98
1	8	42	90
	9	54	96
	10	54	96
	11	54	96
FILTER OUT	12	54	914



APPENDIX B
Seismic Line No. 1A Spread No. 1

Aug. 3/89
 Burns Res. FILE NO 3856
 SL 1A
 01A
 CH 45
 0X3

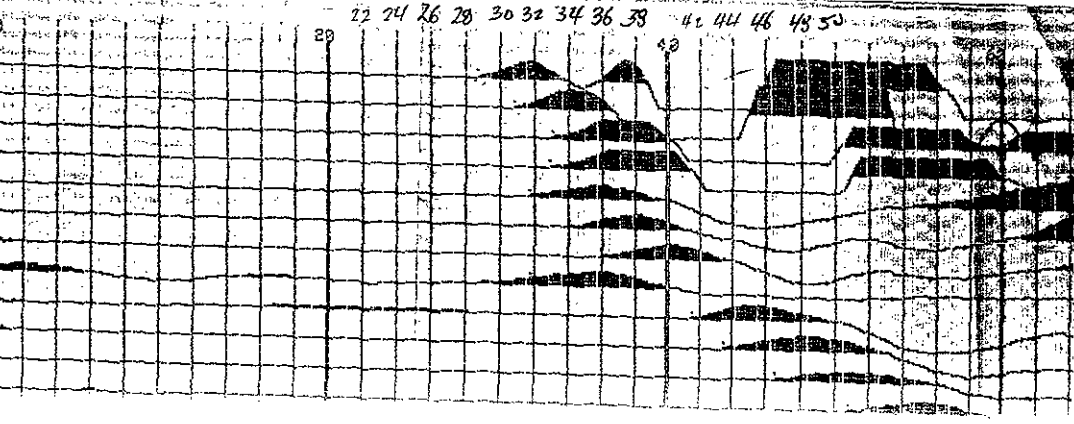
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DELAY TIME	5	48	911
0 MSEC	6	54	916
STACK COUNT	7	54	1816
1	8	48	1816
	9	60	1816
	10	60	1170
	11	60	1376
FILTER OUT	12	60	1330



APPENDIX B
Seismic Line No. 1A Spread No. 1

Aug. 3/89
 Burns Res. FILE NO 3856
 SL 1A
 01A
 CH 45
 0X3

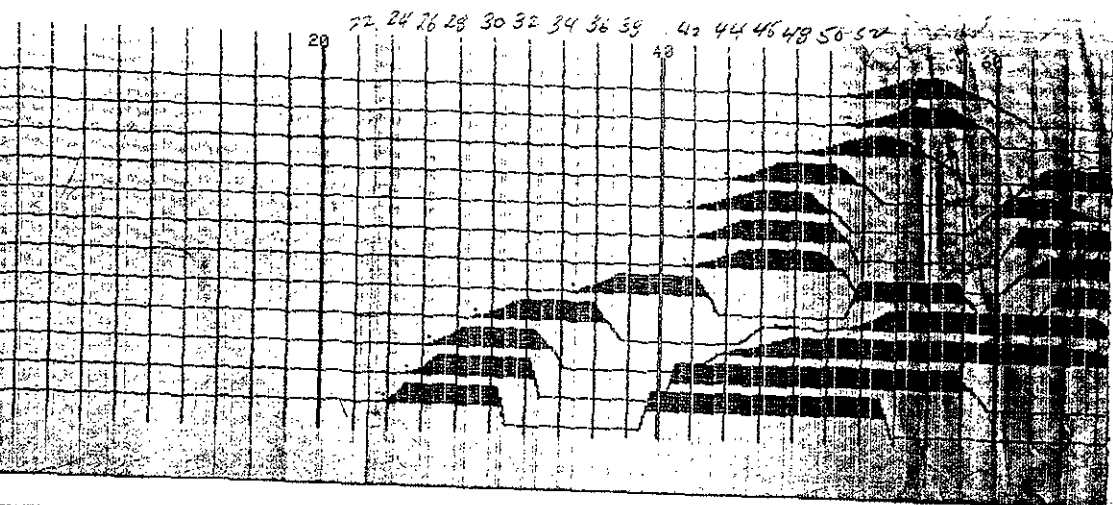
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0 MSEC	6	54	1134
STACK COUNT	7	60	1024
1	8	48	1031
	9	60	1241
	10	60	1243
	11	60	1246
FILTER OUT	12	60	1246



Aug 3/89
Burns Cor.
SL-1B
SLA1
3m 9m 112

CH	GN	TS
1	60	1051
2	60	951
3	60	848
4	60	944
5	60	941
6	60	941
7	54	940
8	54	934
9	54	974
10	54	976
11	54	921
12	54	934

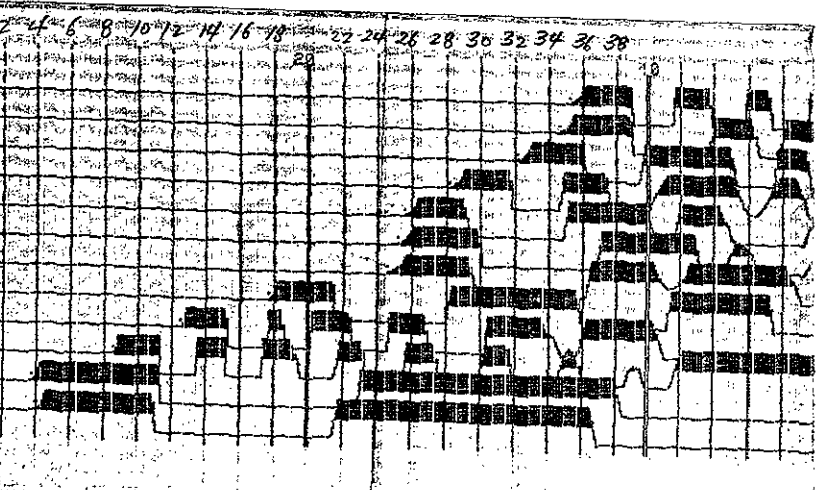
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FILE NO 3856
RECORD TIME 100 MSEC
DELAY TIME 0 MSEC
STACK COUNT 1
FILTER OUT



Aug 3/89
Burns Cor.
SL-1B
SLA2
e 11-7-112
Ox 3

CH	GN	TS
1	60	923
2	60	934
3	60	932
4	54	920
5	54	921
6	54	921
7	48	914
8	48	911
9	42	921
10	36	920
11	18	914
12	18	914

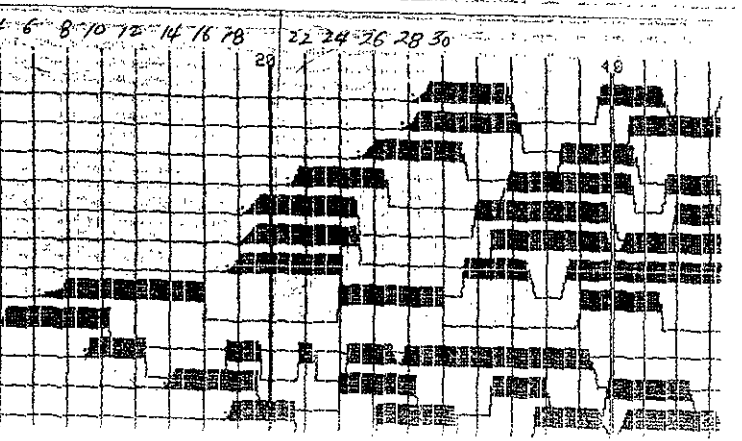
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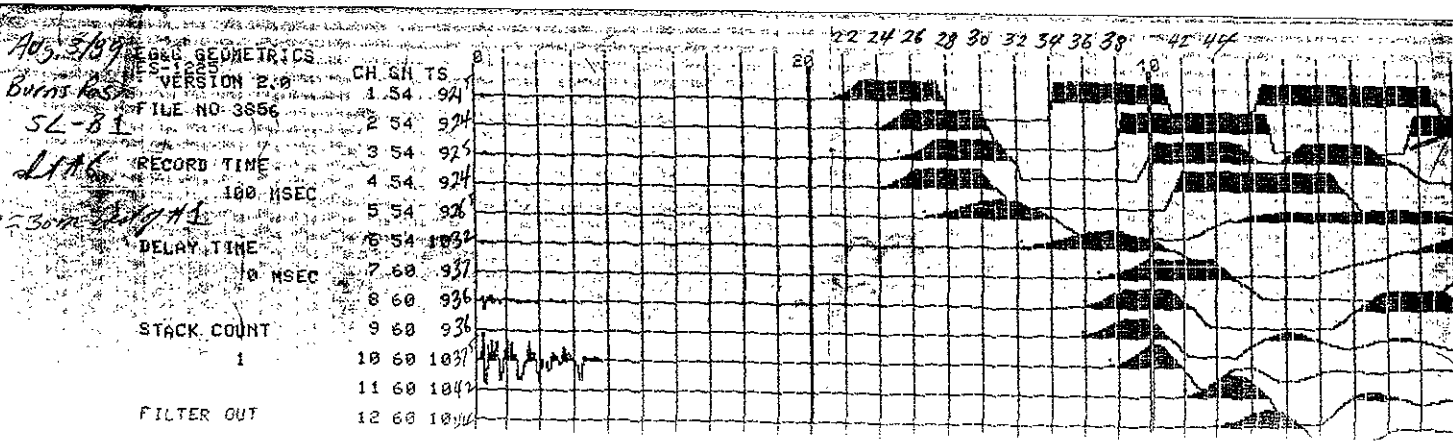
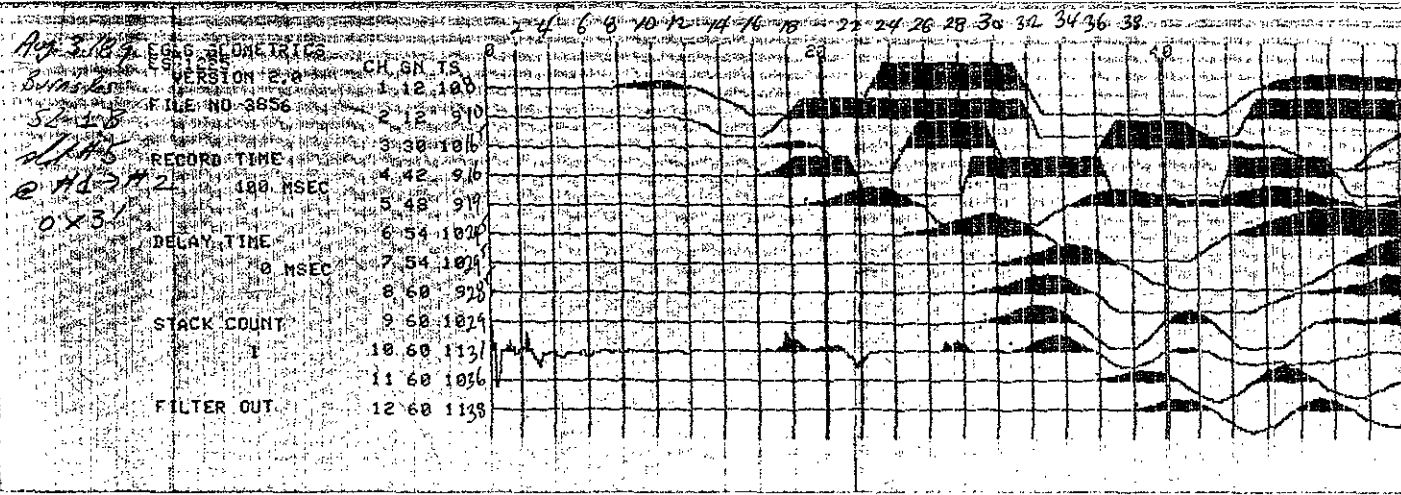
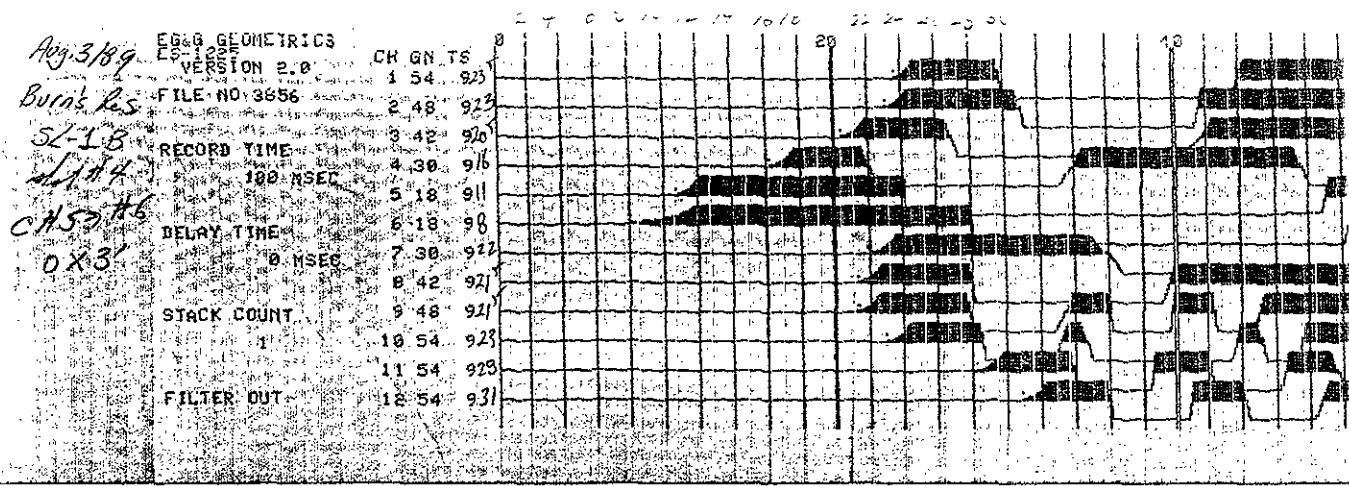


Aug 3/89
Burns Cor.
SL-1B
SLA3
Ox 3

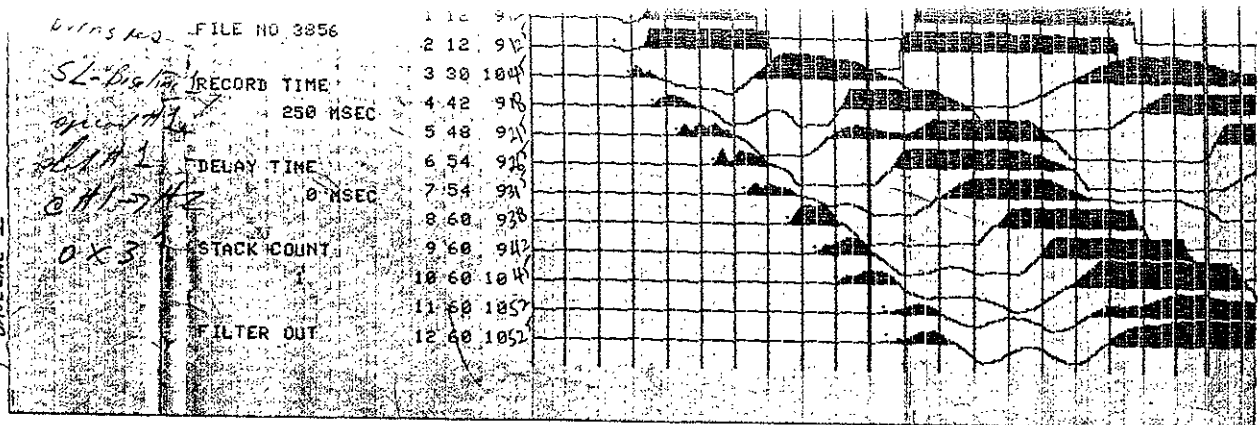
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2	54	927
3	54	927
4	54	921
5	48	918
6	42	914
7	36	917
8	18	916
9	18	914
10	36	919
11	42	913
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EG&G GEOMETRICS
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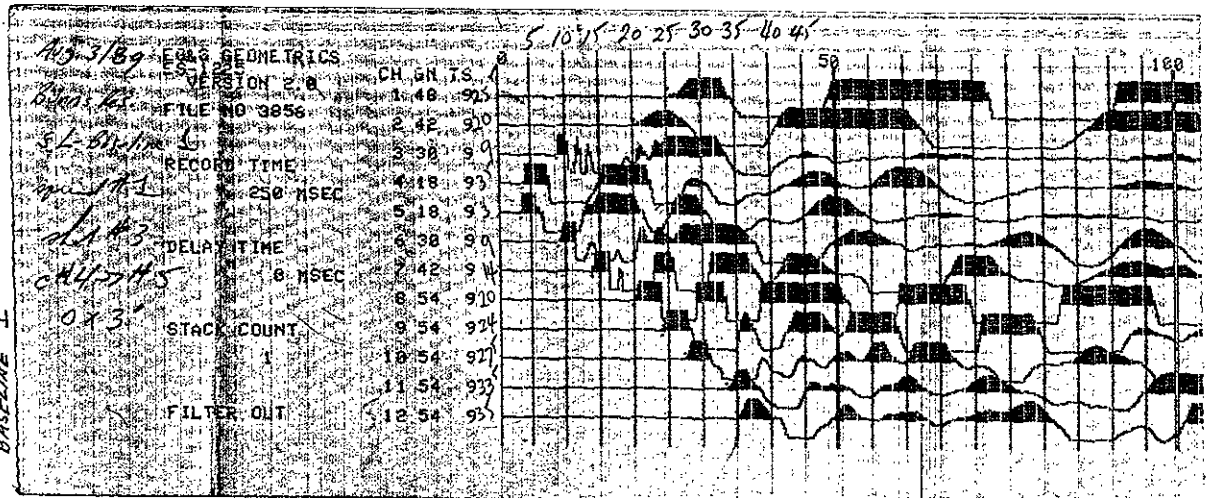




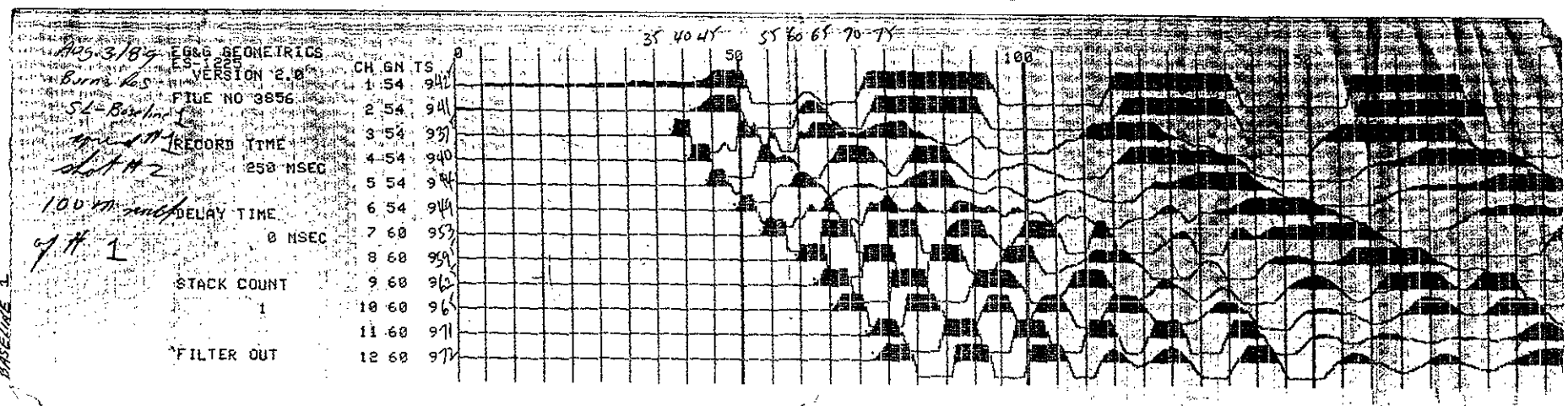
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Seismic Line No. 1
BASELINE 1



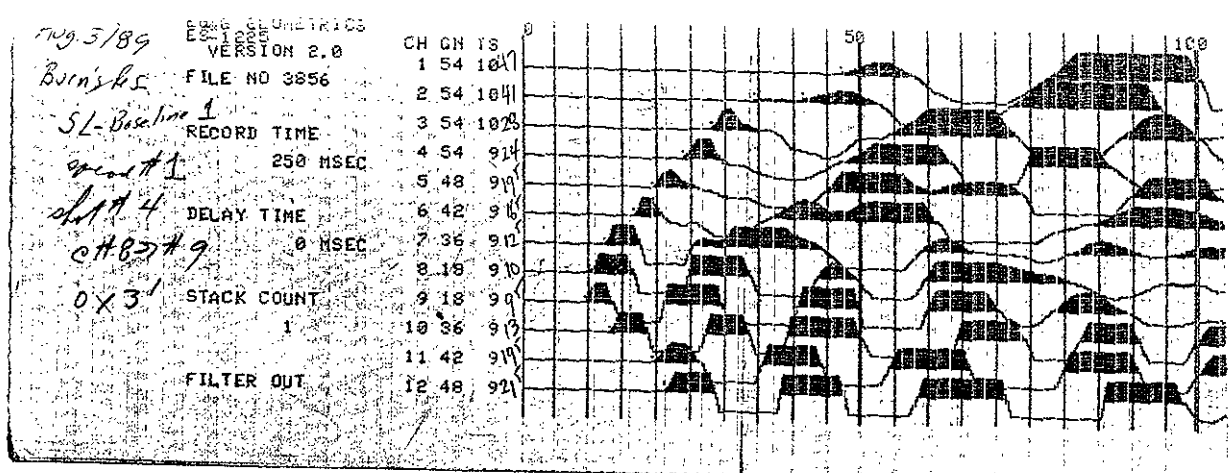
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Seismic Line No. 1
BASELINE 1



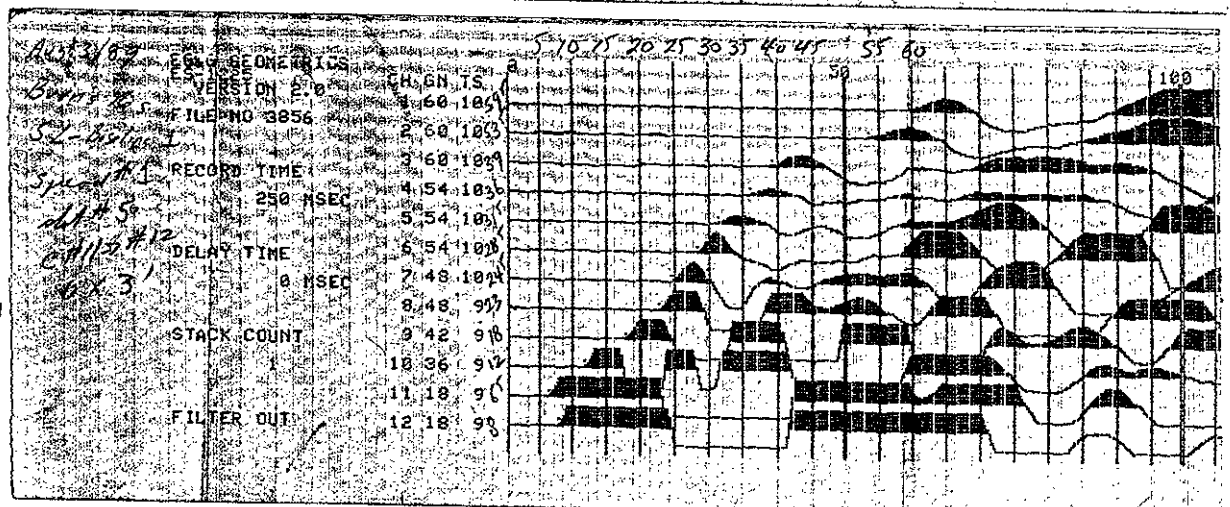
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Seismic Line No. 1
BASELINE 1



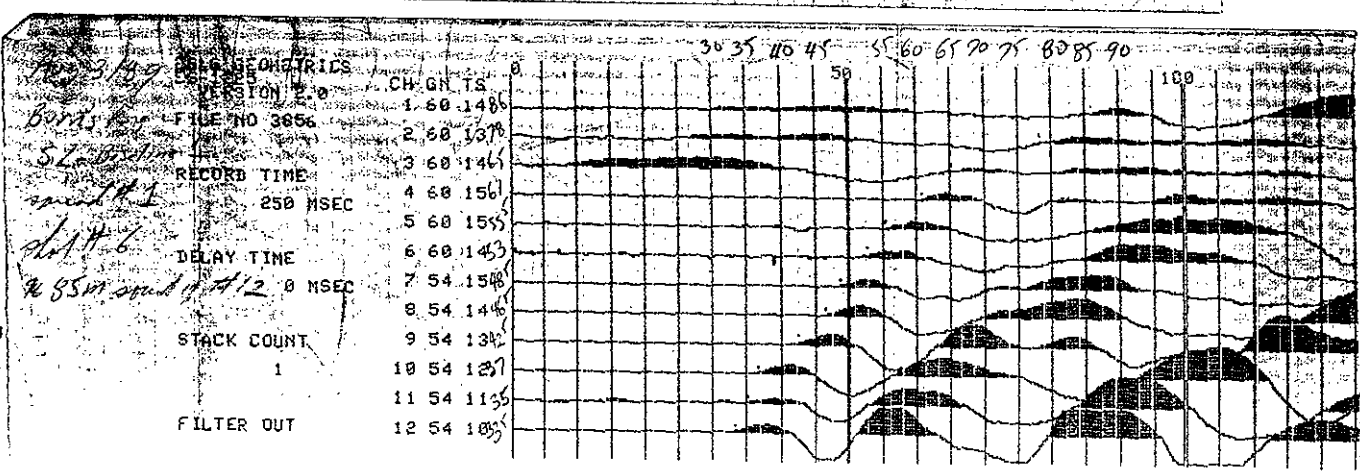
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Seismic Line No. 1
BASELINE 1

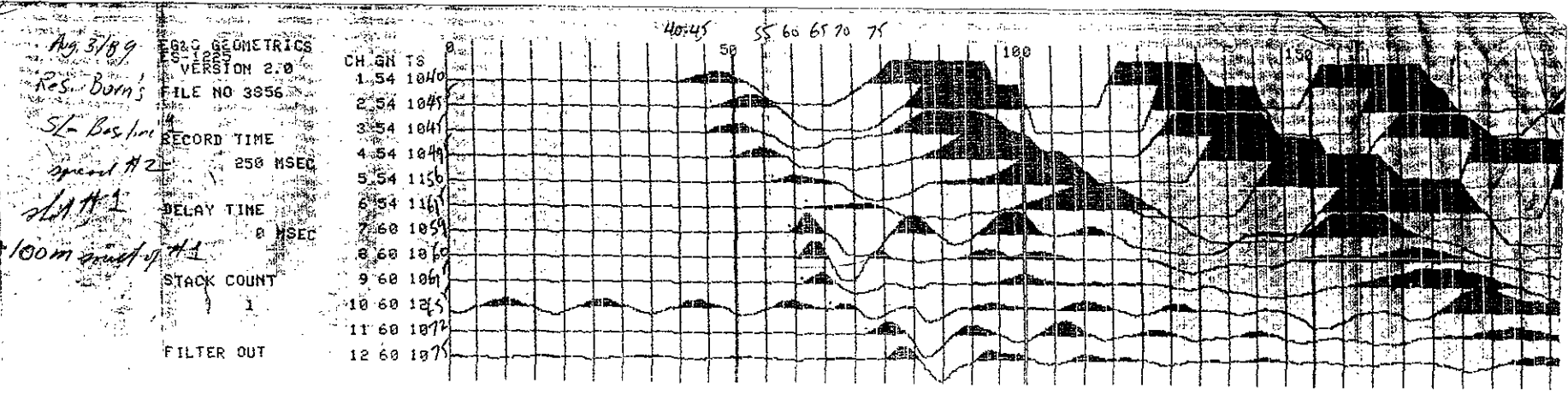
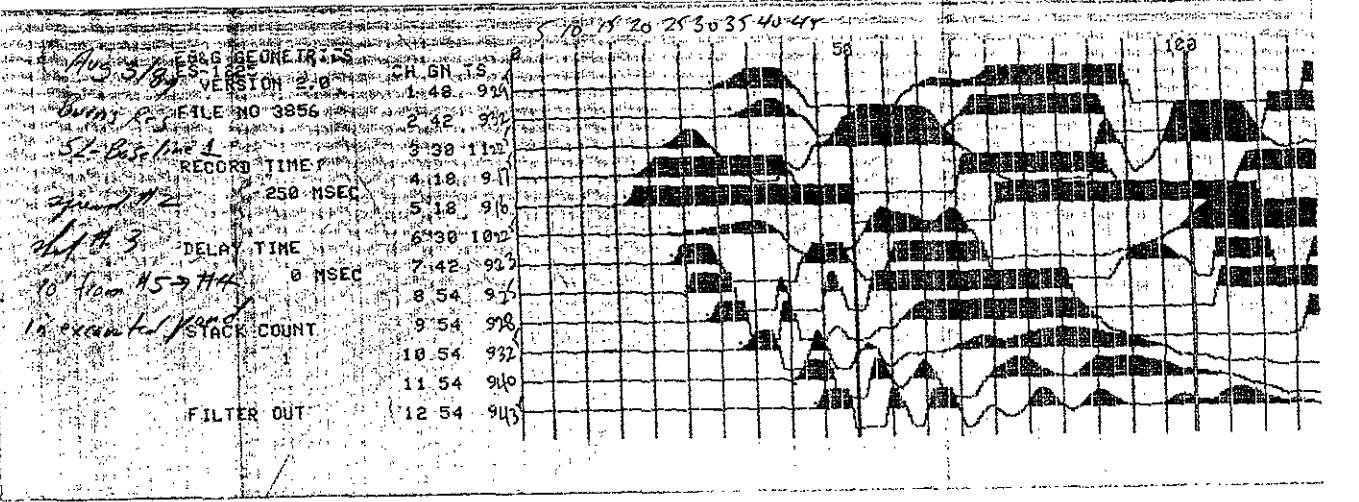
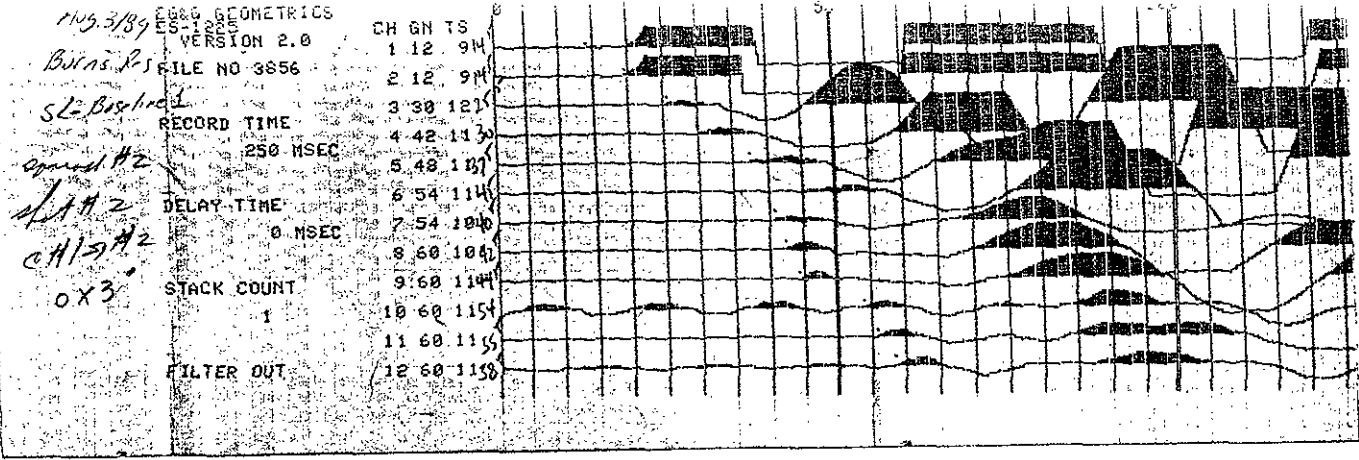


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Seismic Line No. 1
BASELINE 1

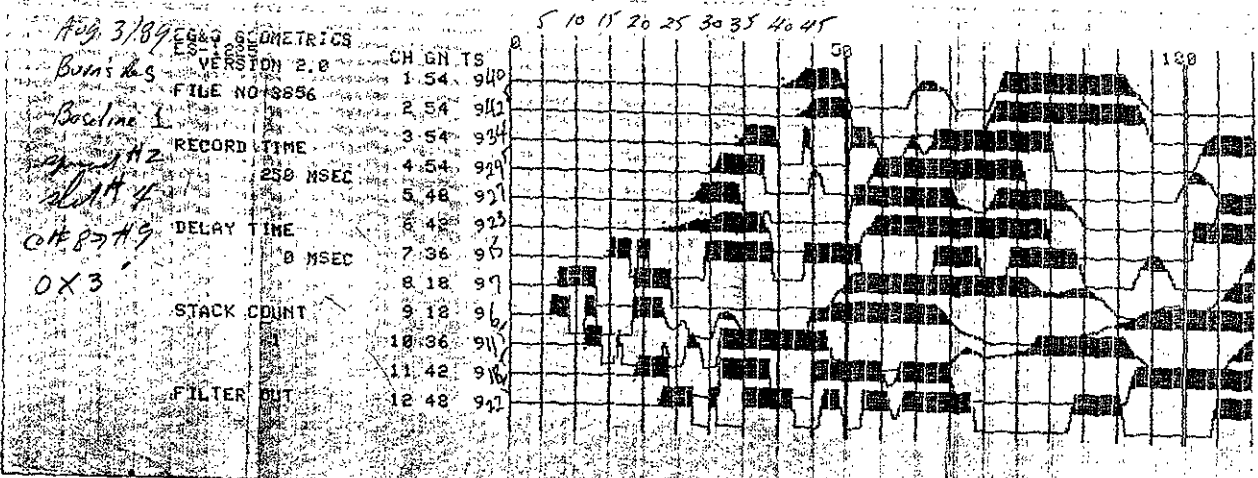


APPENDIX B
Seismic Line No. 1
BASELINE 1

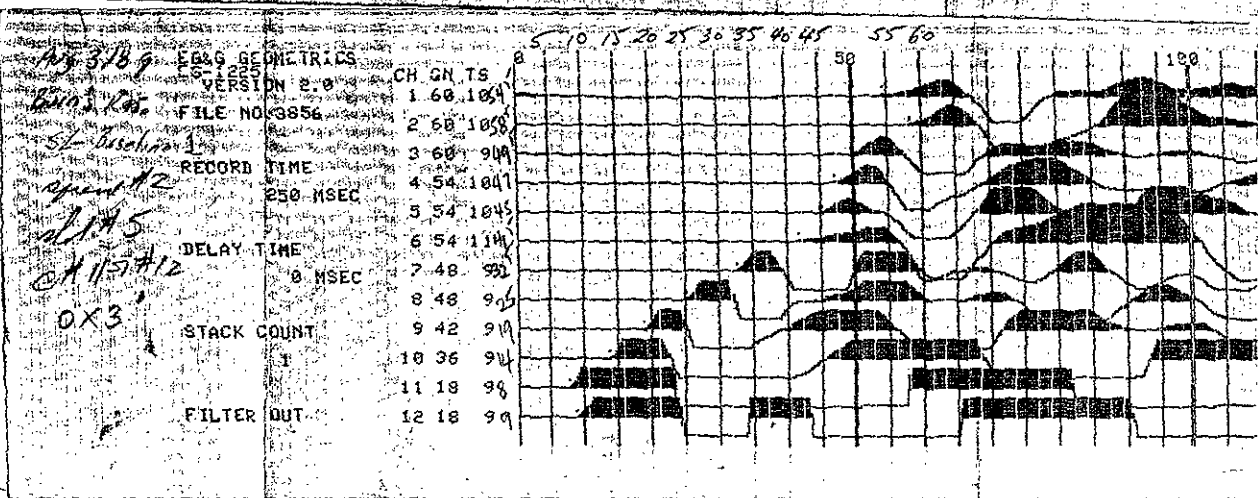




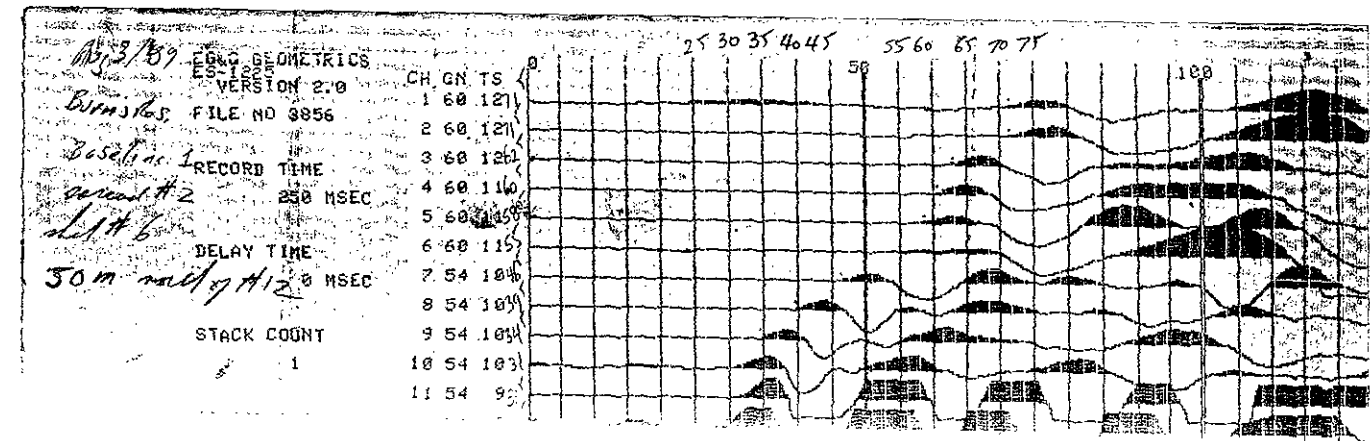
APPENDIX B
Seismic Line No.
BASELINE 1
Spread No. 2



APPENDIX B
Seismic Line No.
BASELINE 1
Spread No. 2

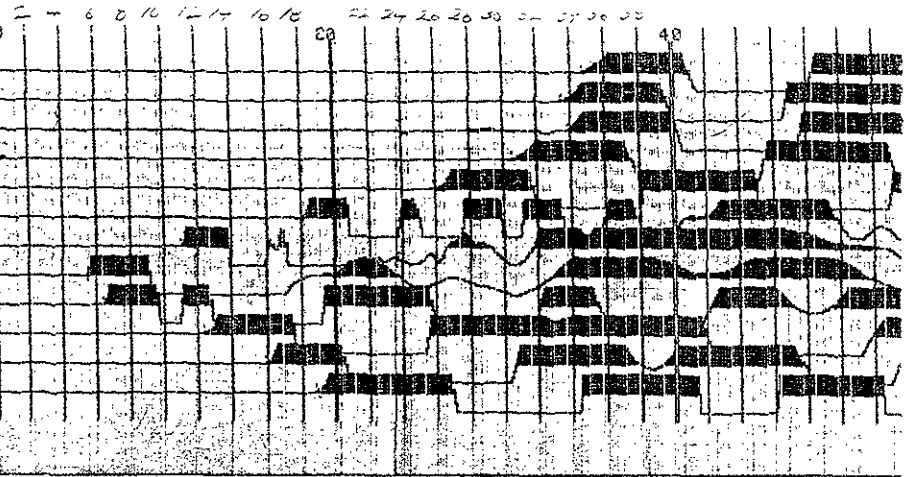


APPENDIX B
Seismic Line No.
BASELINE 1
Spread No. 2



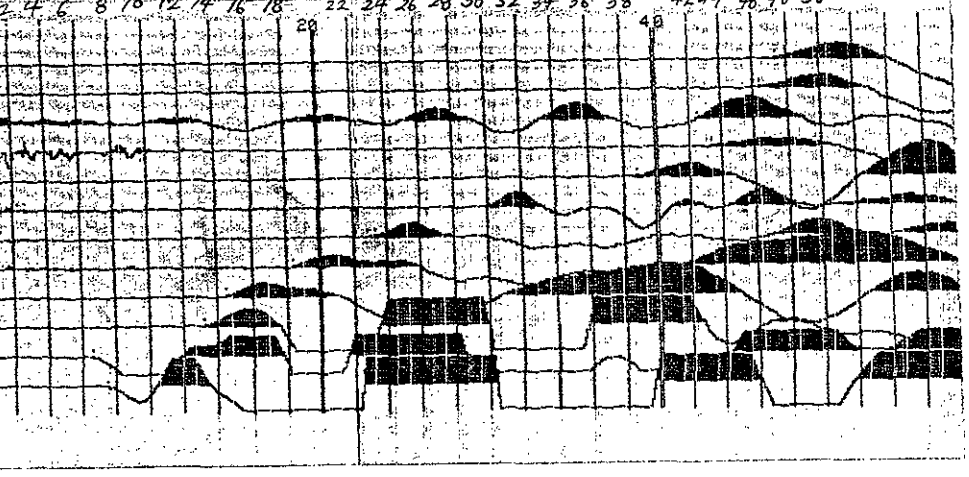
Aug 4/89
Buras Res
SL-1C
spread #1
shot #3
CR 89119
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VERSION 2.0
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DELAY TIME
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STACK COUNT
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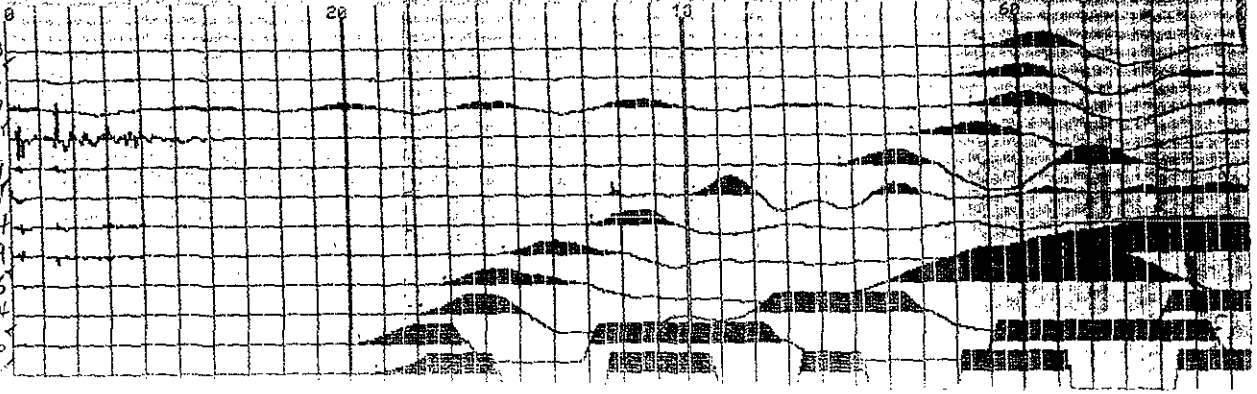
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STACK COUNT
1
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Aug 4/89
Buras Res
SL-1C
spread #1
shot #1
CR 89112
30 m wind of #12
0X3

EG&G GEOMETRICS
VERSION 2.0
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RECORD TIME
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DELAY TIME
0 MSEC
STACK COUNT
1
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Aug 4/89

Burns Res

SL-1C

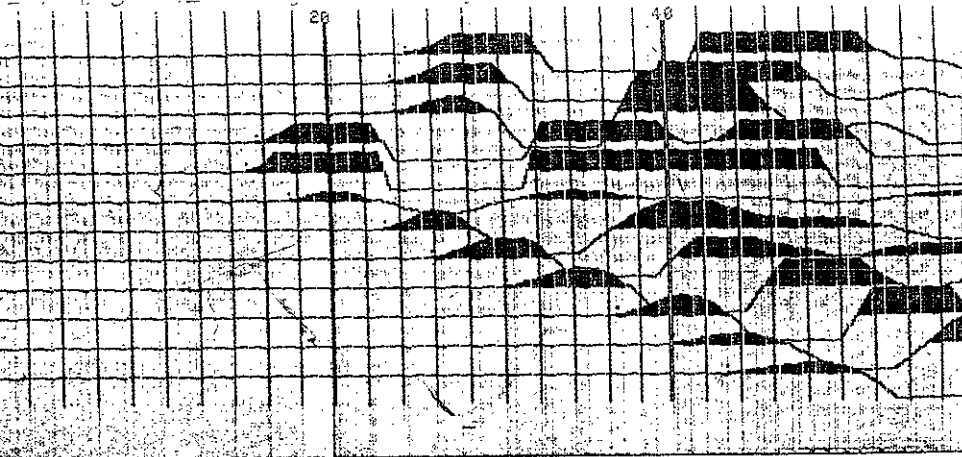
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CH#1-#5

OX3

EGG SEISMOMETRICS
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FILTER OUT 12 54 1042



Aug 4/89

Burns Res

SL-1C

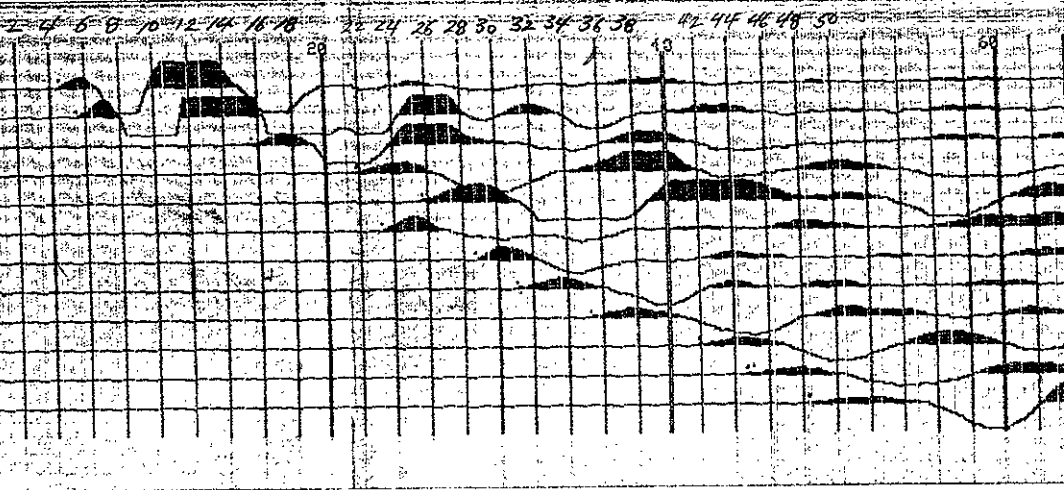
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DELAY TIME 6 54 1025
0 MSEC 7 54 1028
8 60 1031
STACK COUNT 9 60 1135
10 60 1042
11 60 1144
FILTER OUT 12 60 1148



Aug 4/89

Burns Res

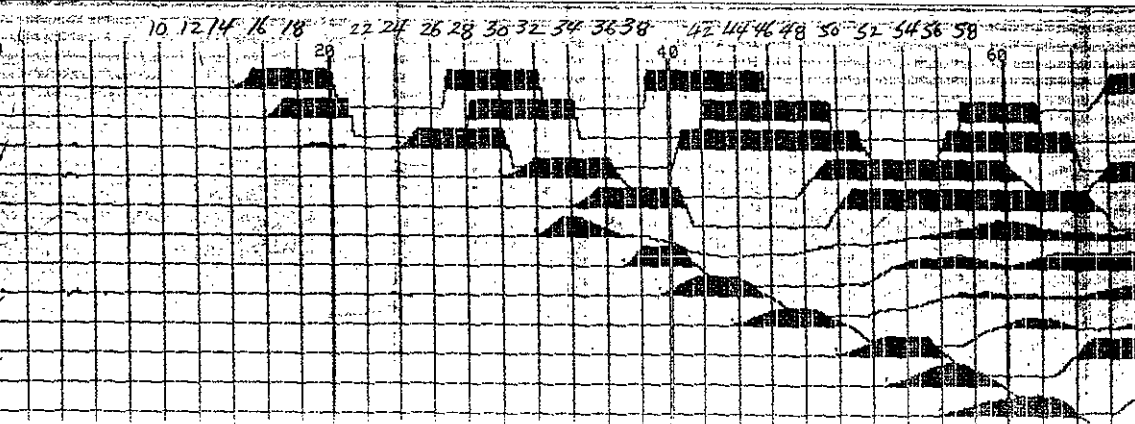
SL-1C

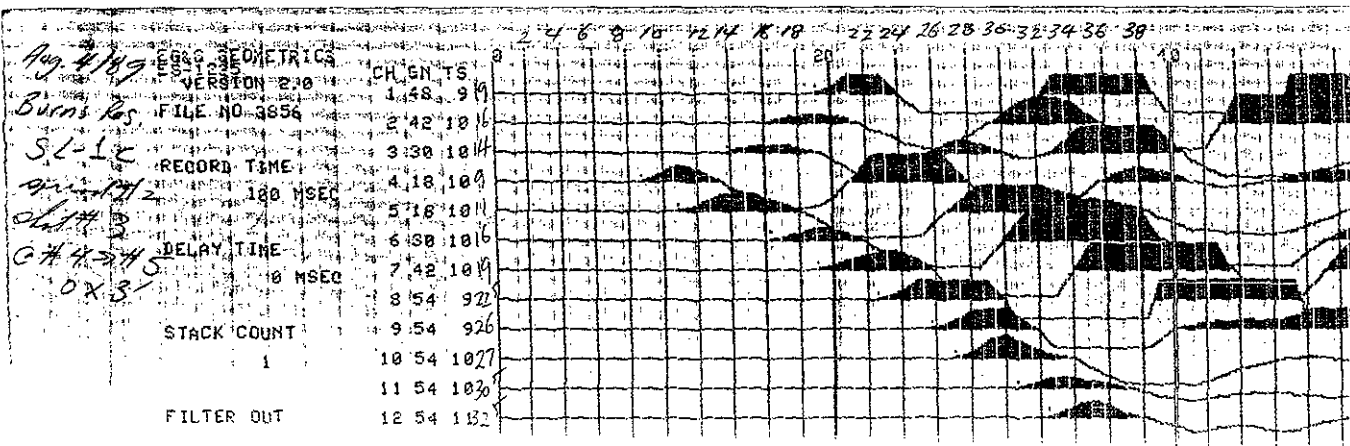
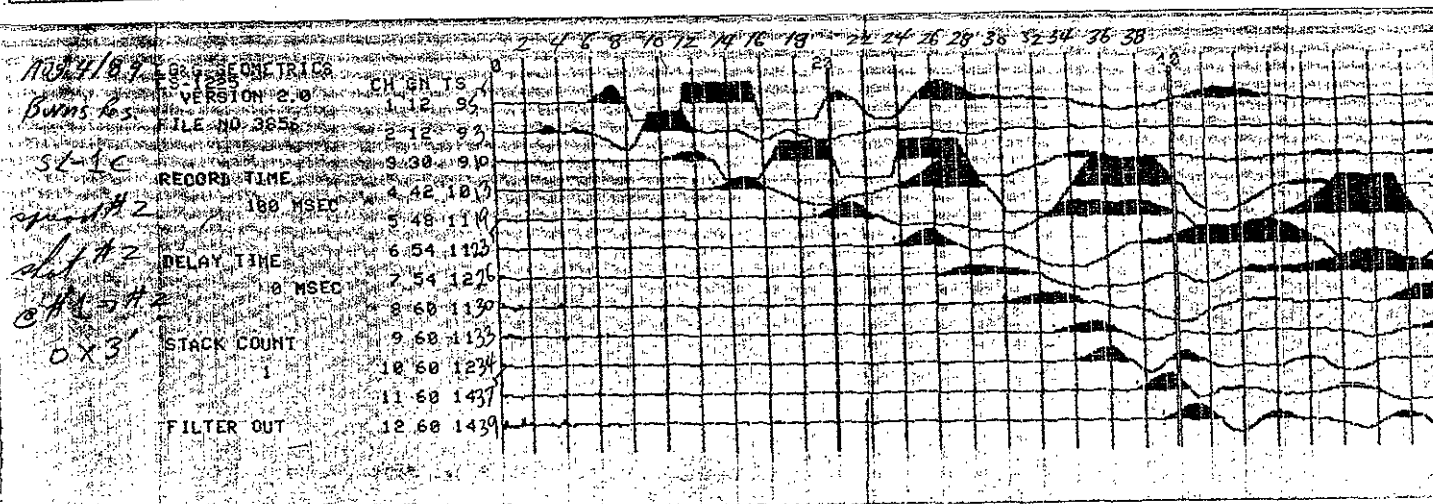
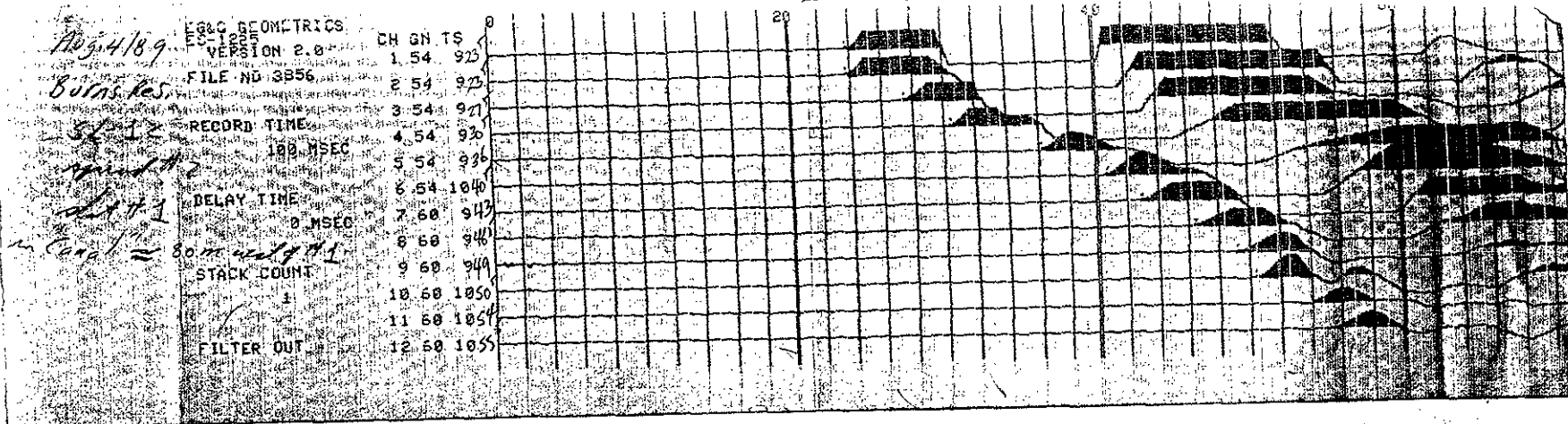
spread #1

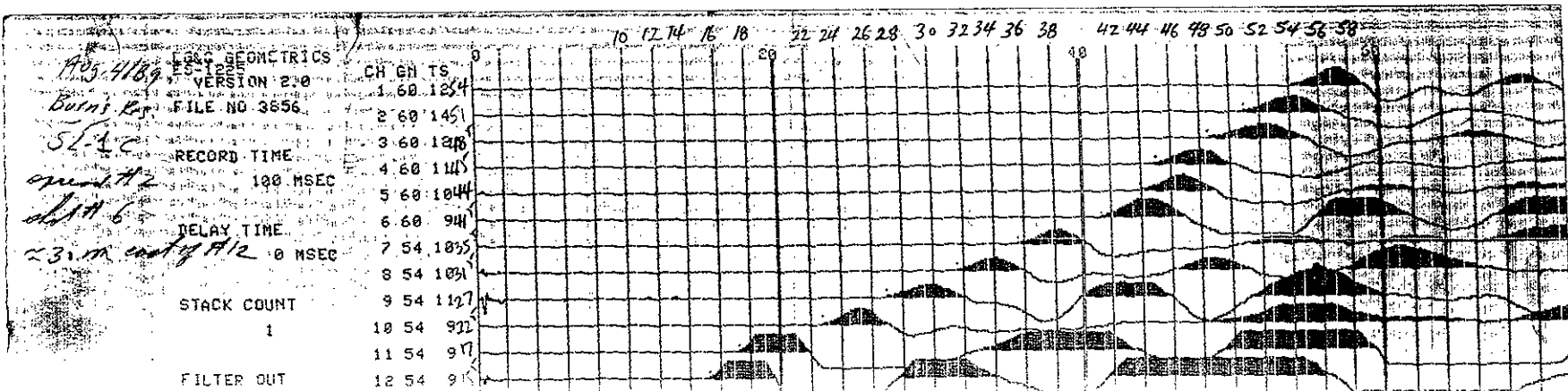
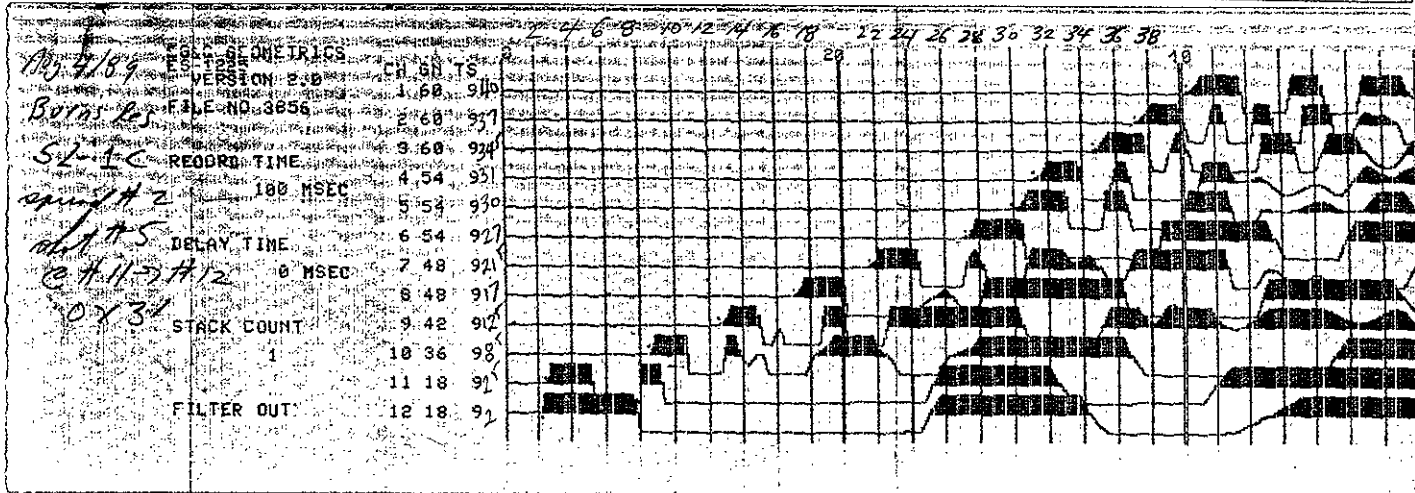
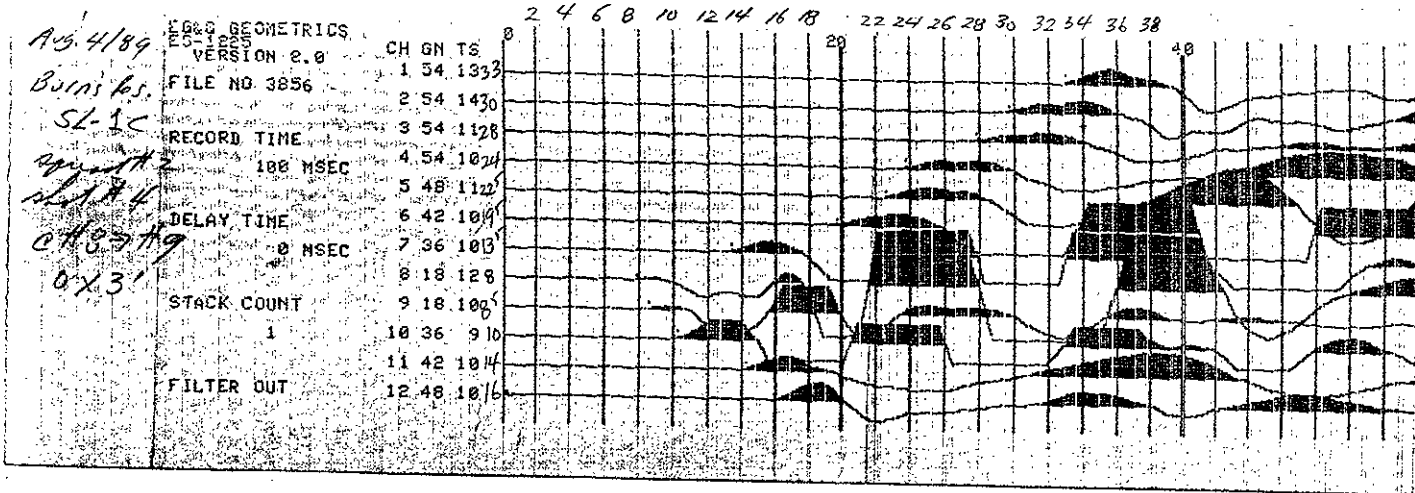
SL#6

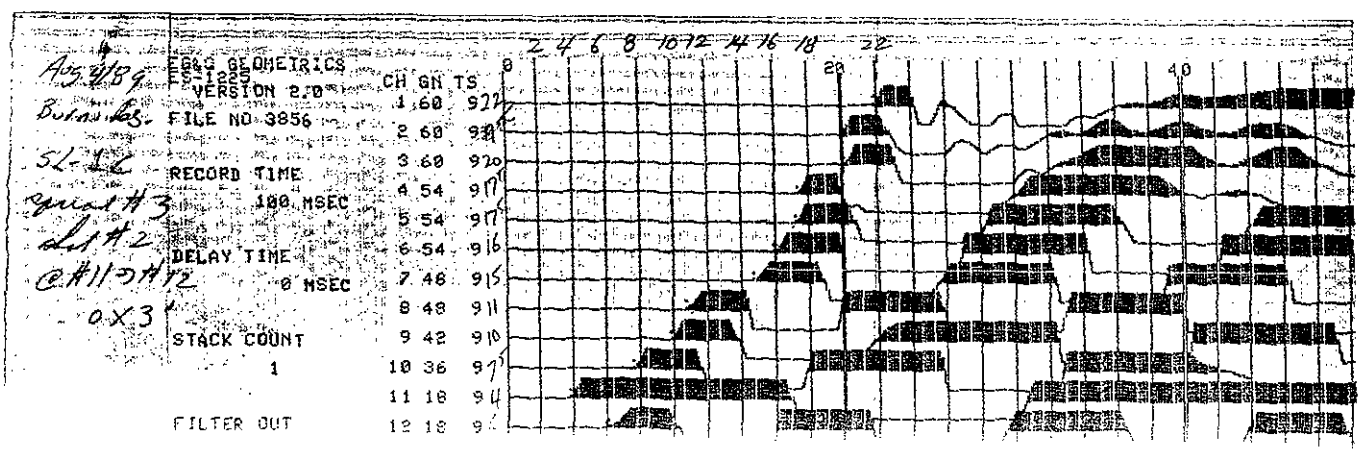
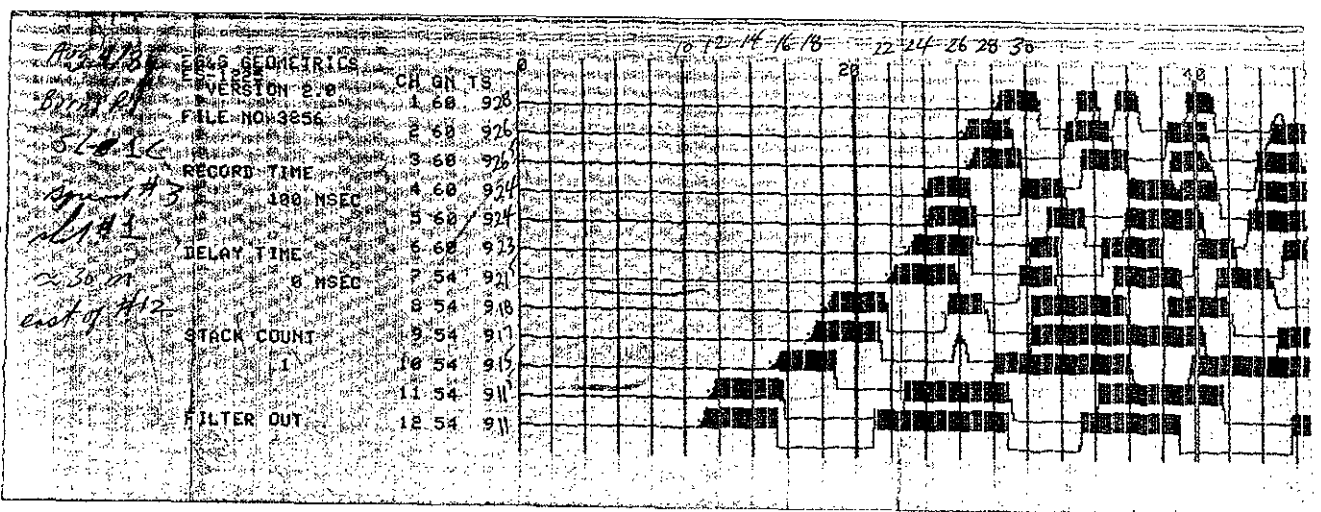
30m with #5

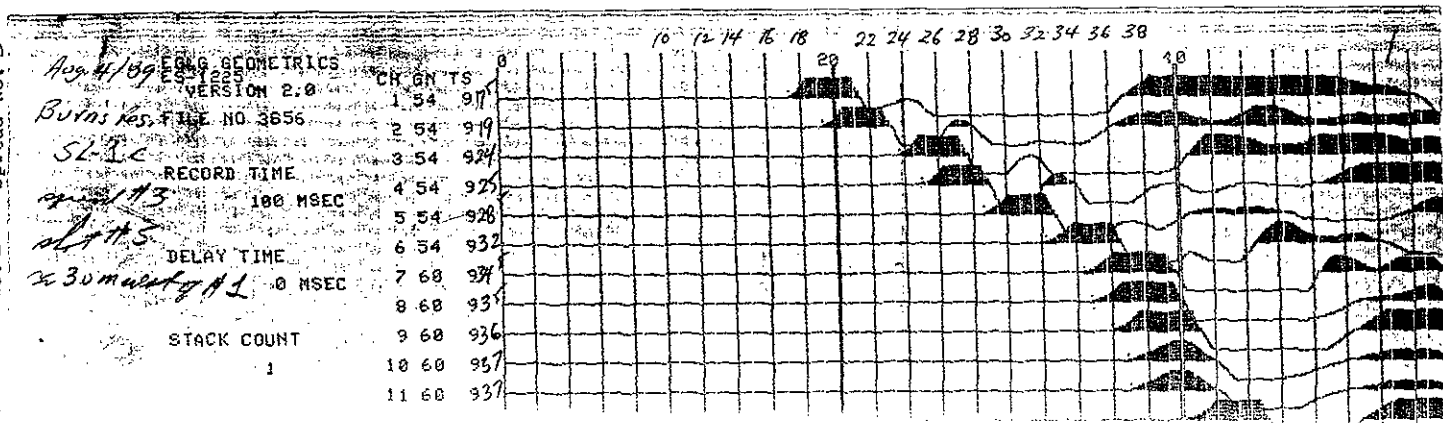
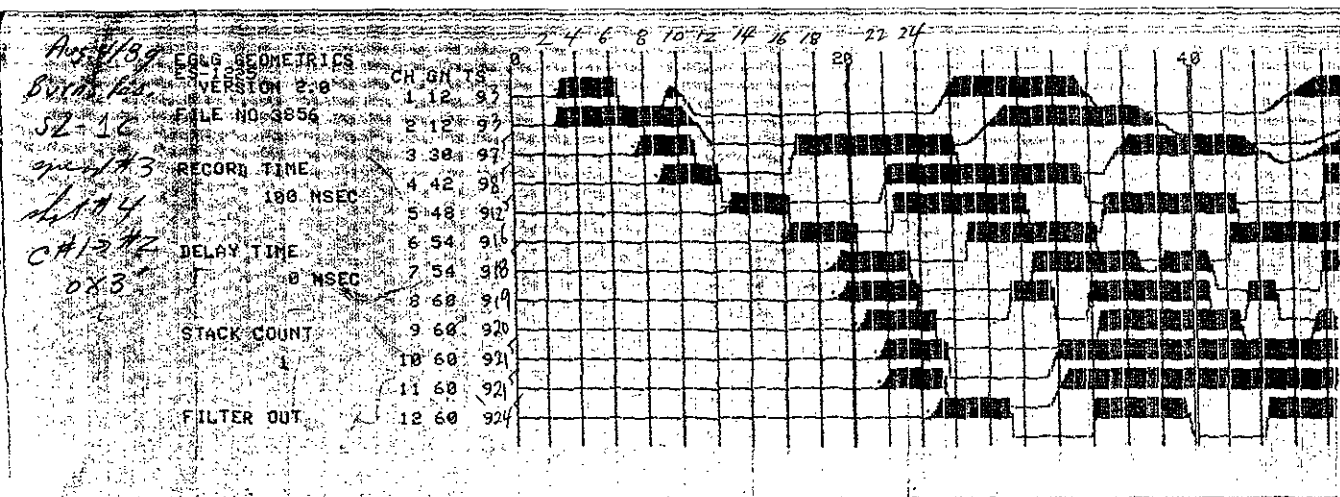
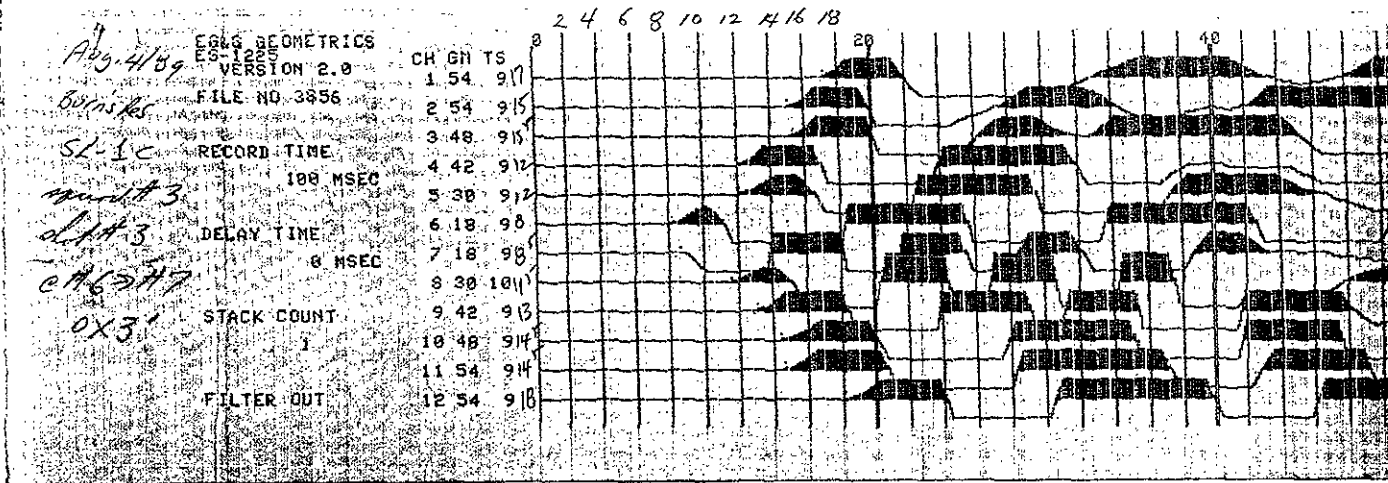
EGG SEISMOMETRICS
VERSION 2.0 CH GN TS
FILE NO 3856 1 54 914
2 54 916
3 54 924
RECORD TIME 4 54 930
100 MSEC 5 54 934
DELAY TIME 6 54 932
0 MSEC 7 60 937
8 60 939
STACK COUNT 9 60 943
10 60 950
11 60 1052
FILTER OUT 12 60 1056

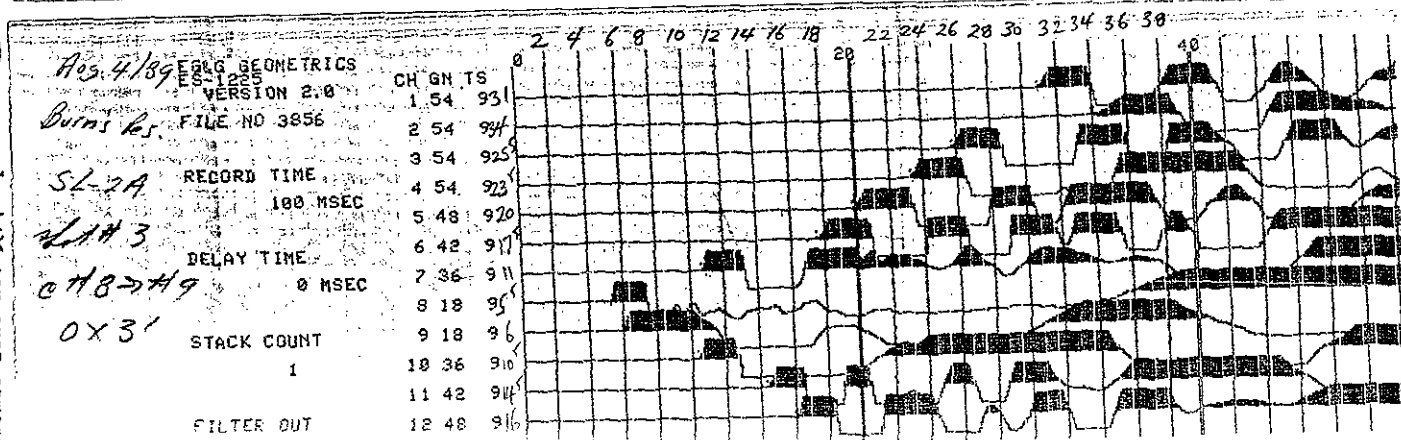
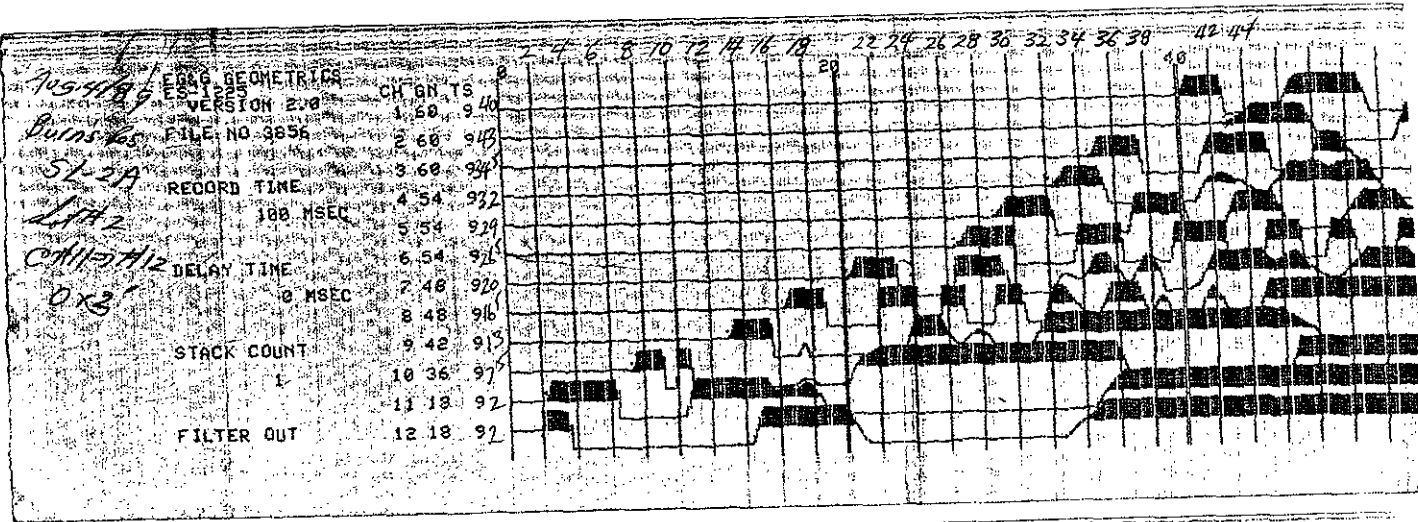
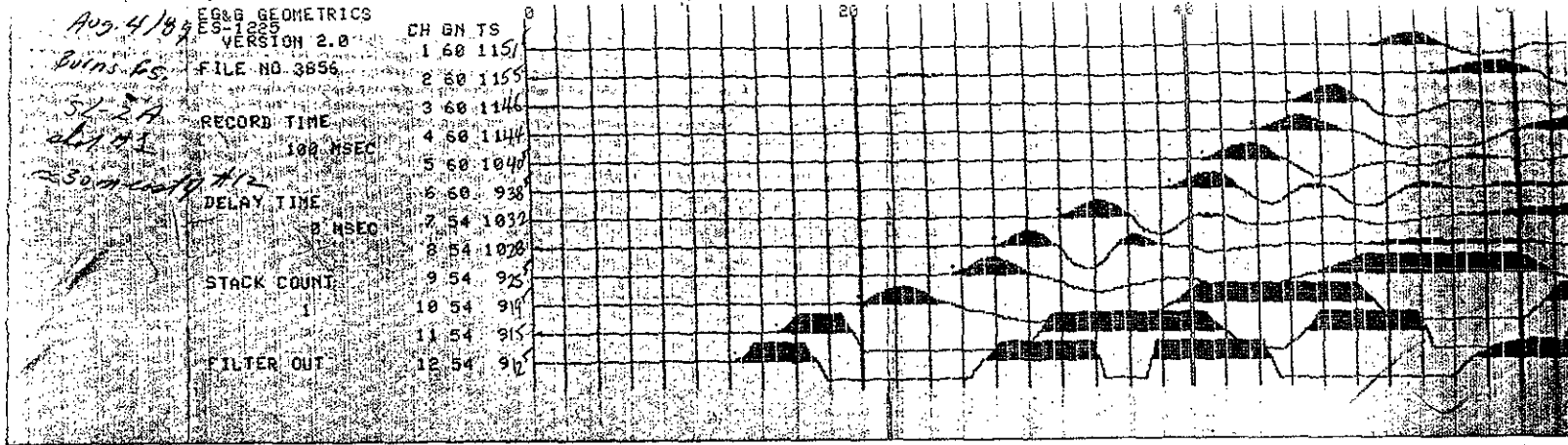






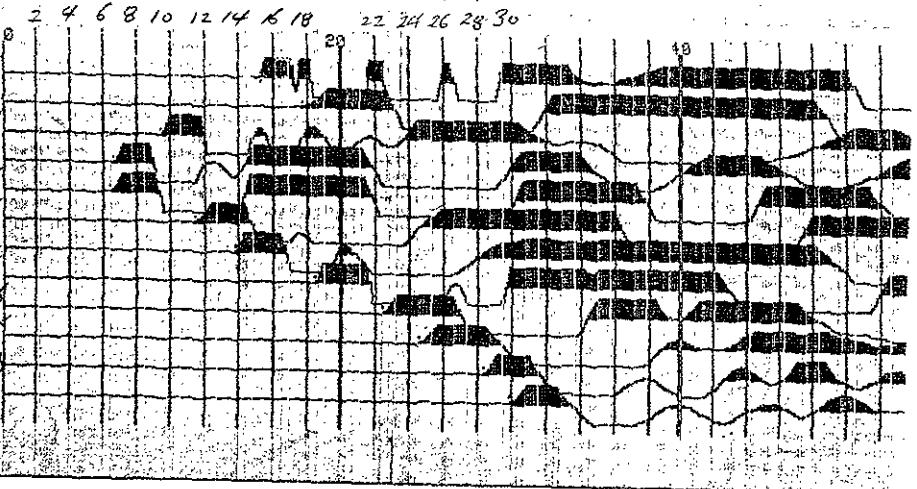






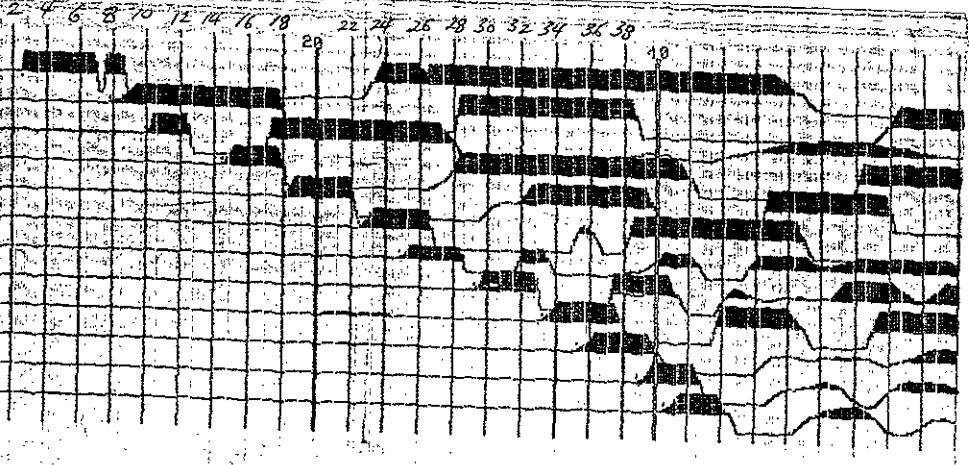
Aug. 4/89
Burns Res
SL-2A
d114
CH4775
OX31

EG&G GEOMETRICS
ES-1000
VERSION 2.0
FILE NO 3856
RECORD TIME 3.30
100 MSEC 4.18
DELAY TIME 6.30
0 MSEC 7.42
STACK COUNT 9.54
1 10.54
11.54
FILTER OUT 12.54



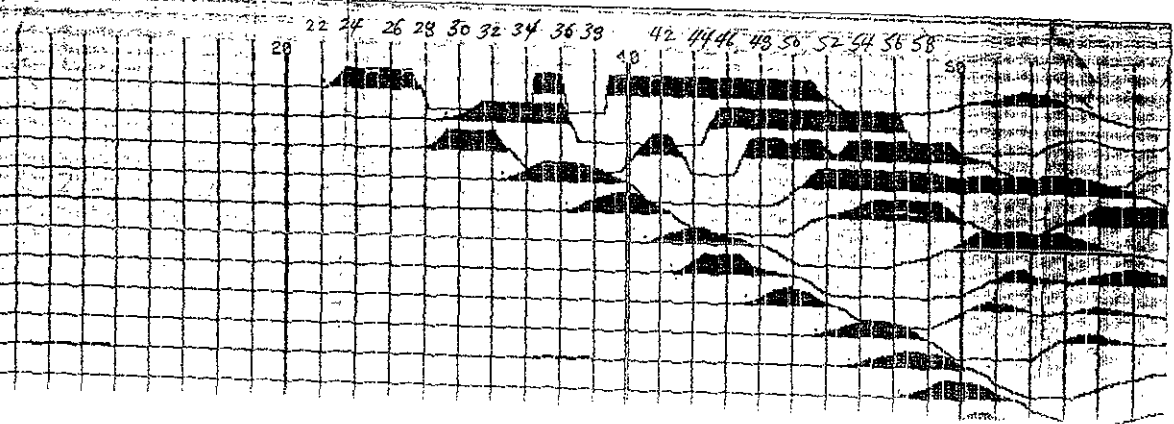
Aug. 4/89
Burns Res
SL-2A
d114
CH4775
OX31

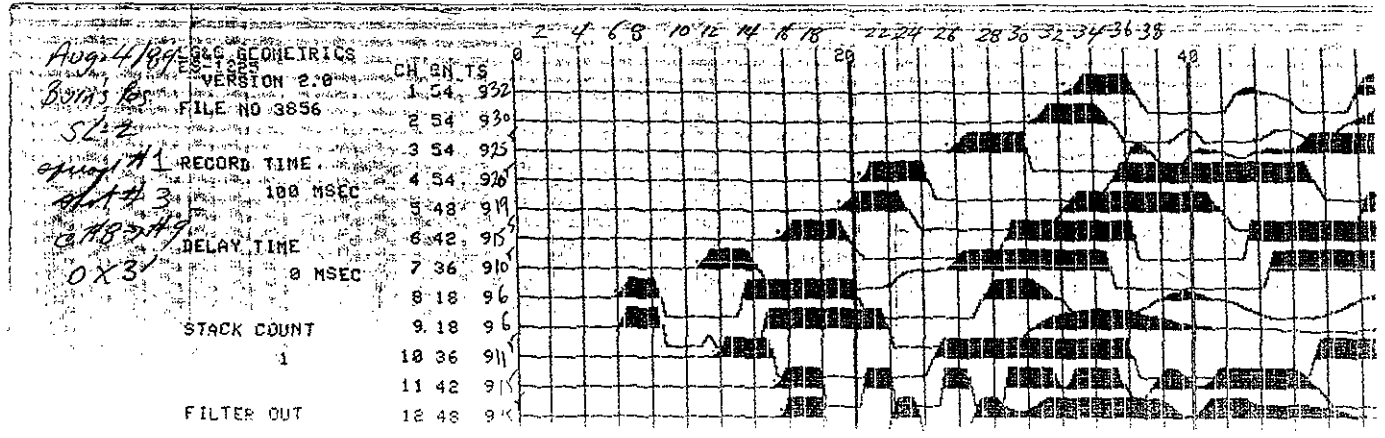
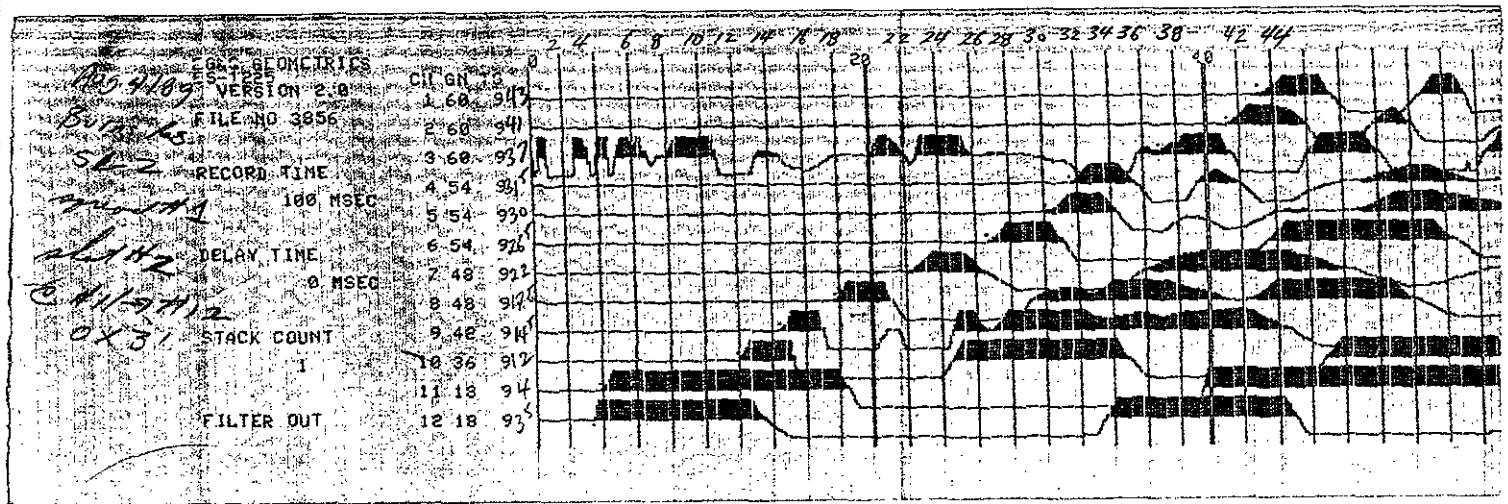
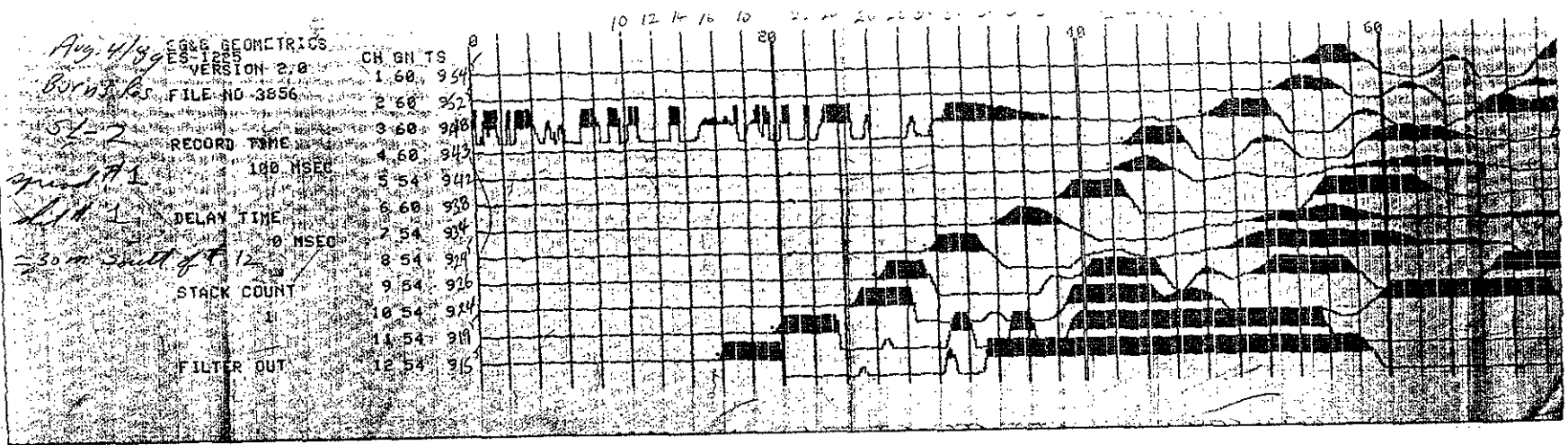
EG&G GEOMETRICS
ES-1000
VERSION 2.0
FILE NO 3856
RECORD TIME 3.30
100 MSEC 4.42
DELAY TIME 6.54
0 MSEC 7.54
STACK COUNT 9.60
1 10.60
11.60
FILTER OUT 12.60



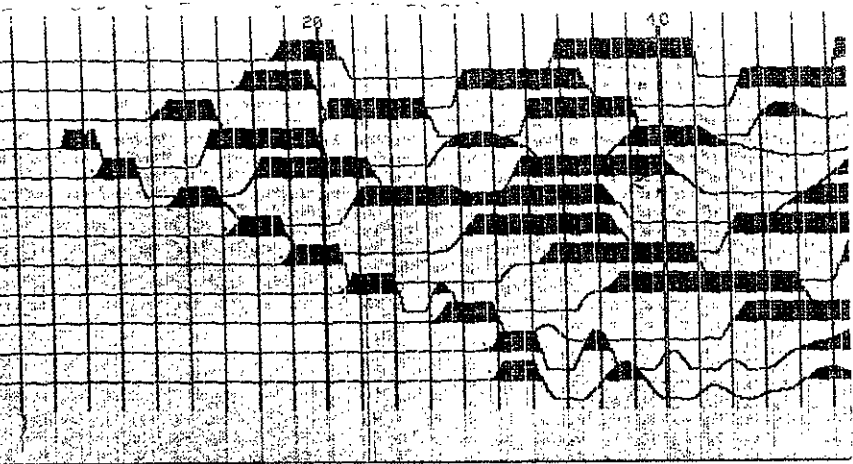
Aug. 4/89
Burns Res
SL-2A
d114
CH4775
OX31

EG&G GEOMETRICS
ES-1000
VERSION 2.0
FILE NO 3856
RECORD TIME 3.54
100 MSEC 4.54
DELAY TIME 6.54
0 MSEC 7.60
STACK COUNT 9.60
1 10.60
11.60
FILTER OUT 11.60

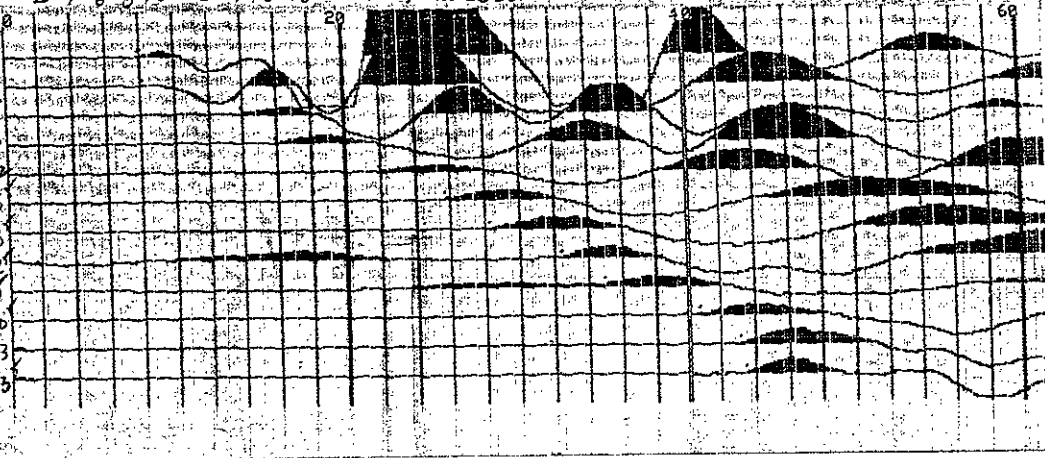




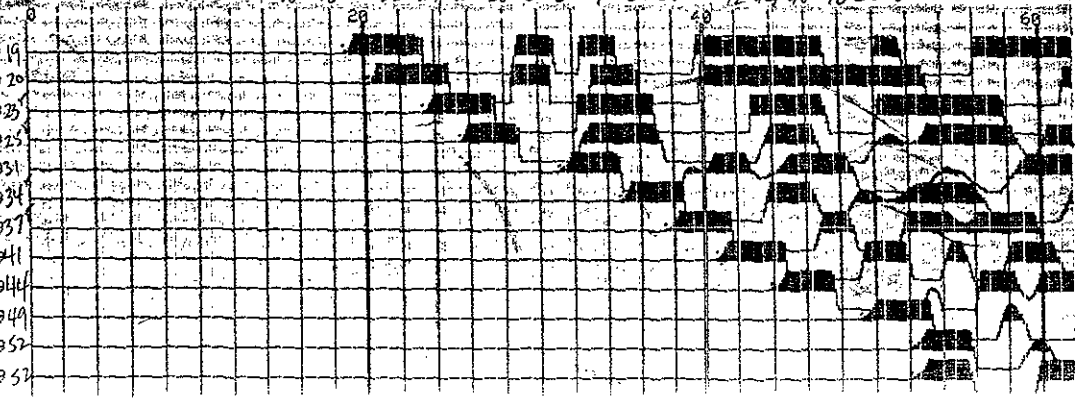
Aug. 4/89
 Burns Kus
 SL 2
 100 MSEC
 DELAY TIME
 0 MSEC
 STACK COUNT
 1
 FILTER OUT

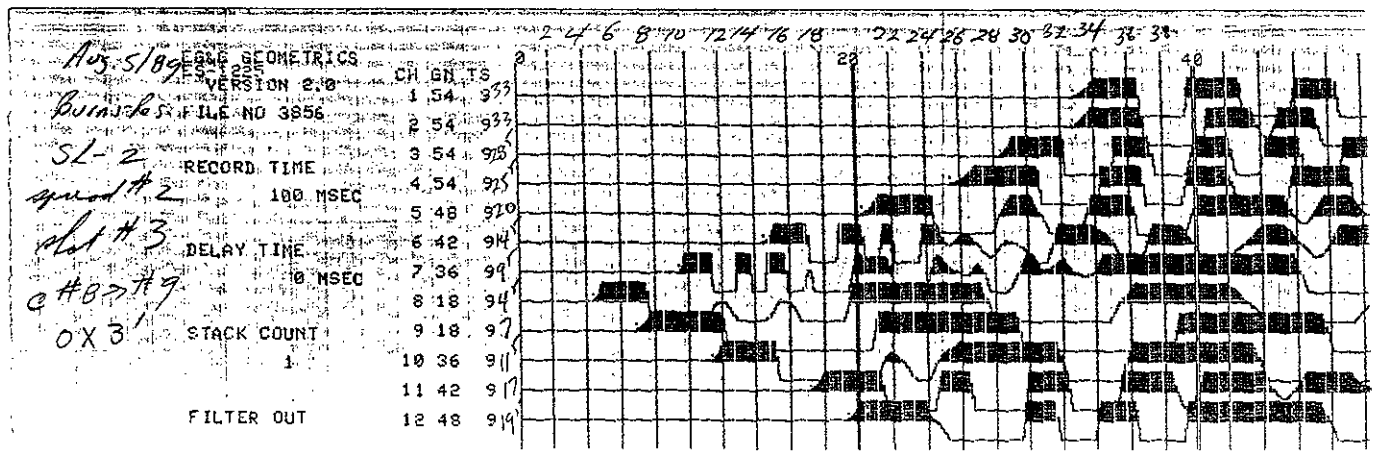
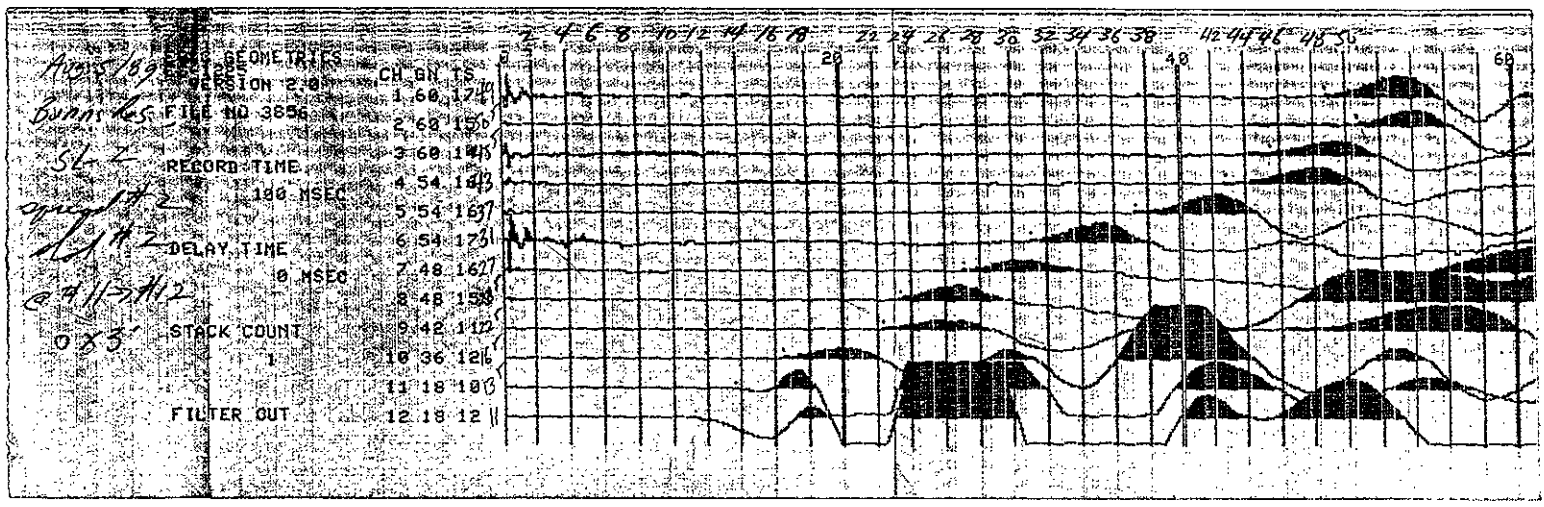
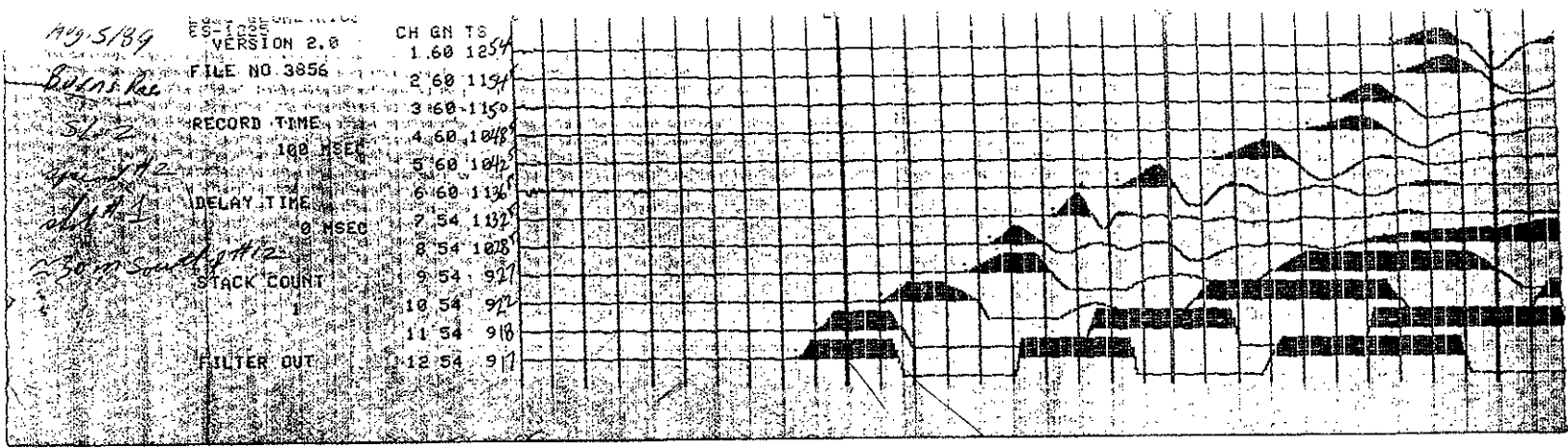


Aug 4/89
 Burns Kus
 SL 2
 100 MSEC
 DELAY TIME
 0 MSEC
 STACK COUNT
 1
 FILTER OUT



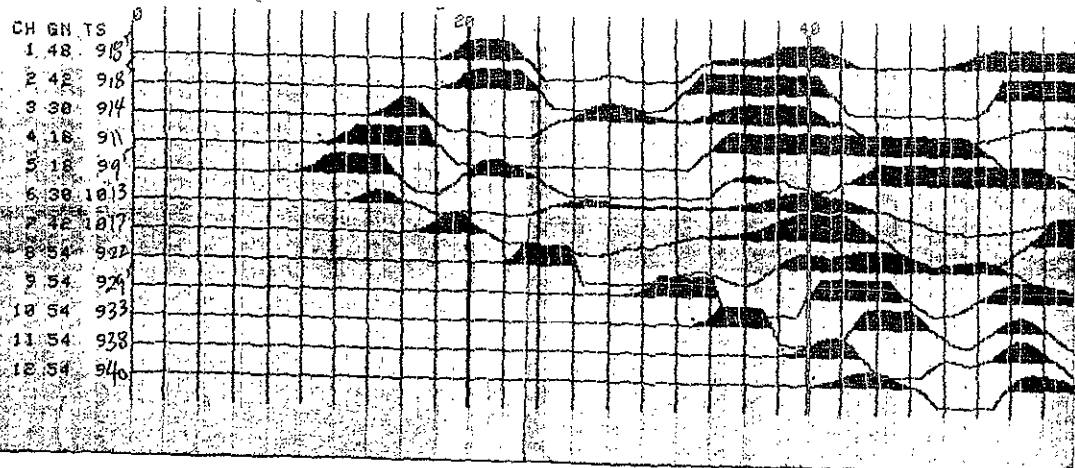
Aug 4/89
 Burns Kus
 SL 2
 100 MSEC
 DELAY TIME
 0 MSEC
 STACK COUNT
 1
 FILTER OUT





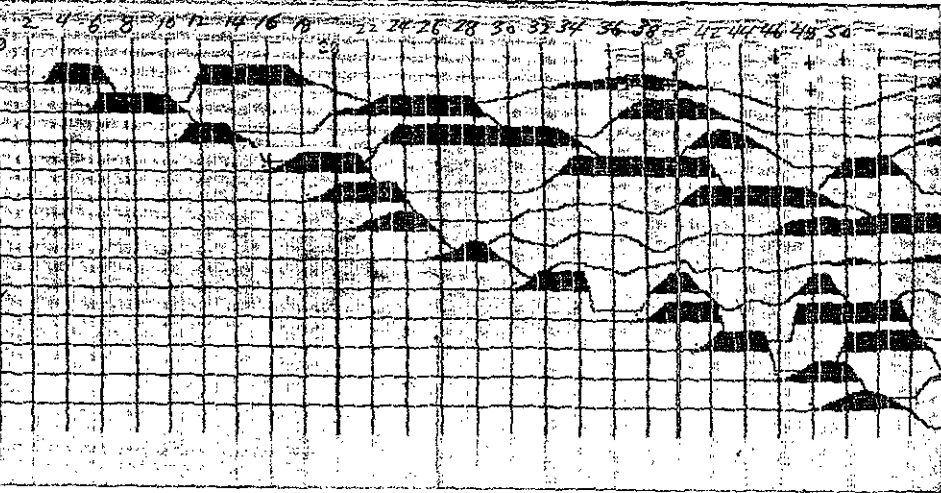
Aug 5 1989
 Burns & Co.
 SL-2
 11/2
 11/4
 01149/45
 OX 3!

E&G GEOMETRICS	
VERSION 2.0	
FILE NO	3856
RECORD TIME	
100 MSEC	
DELAY TIME	
0 MSEC	
STACK COUNT	
1	
FILTER OUT	



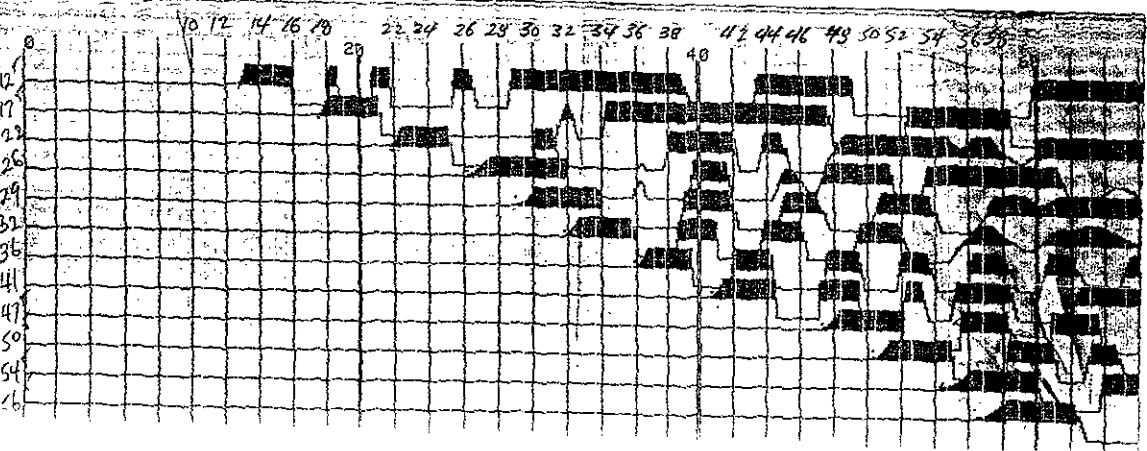
Aug 5 1989
 Burns & Co.
 SL-2
 11/2
 11/4
 01149/45
 OX 3!

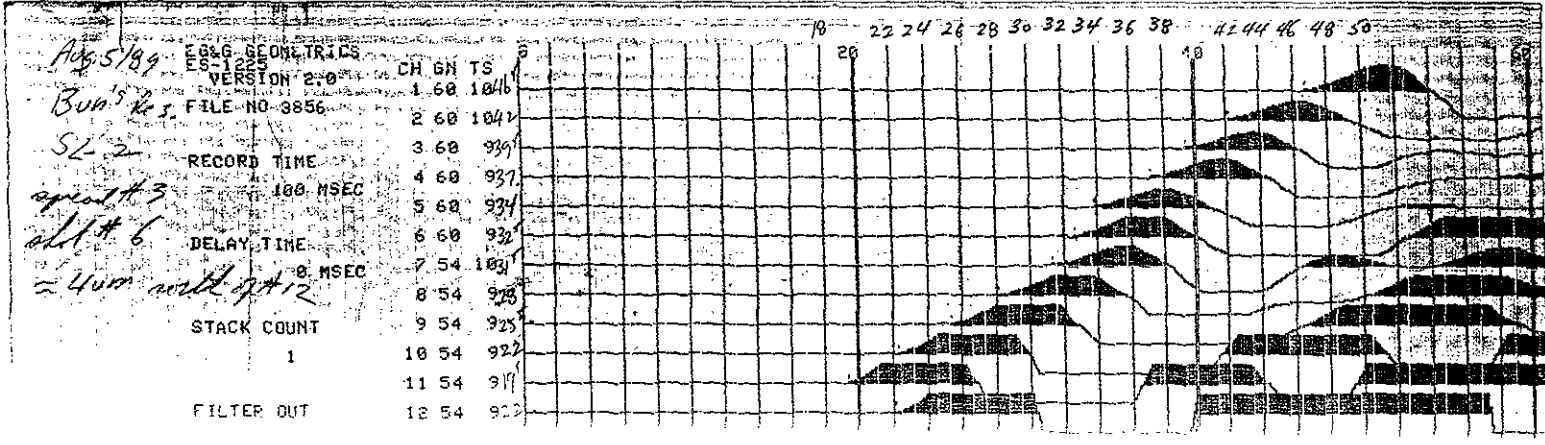
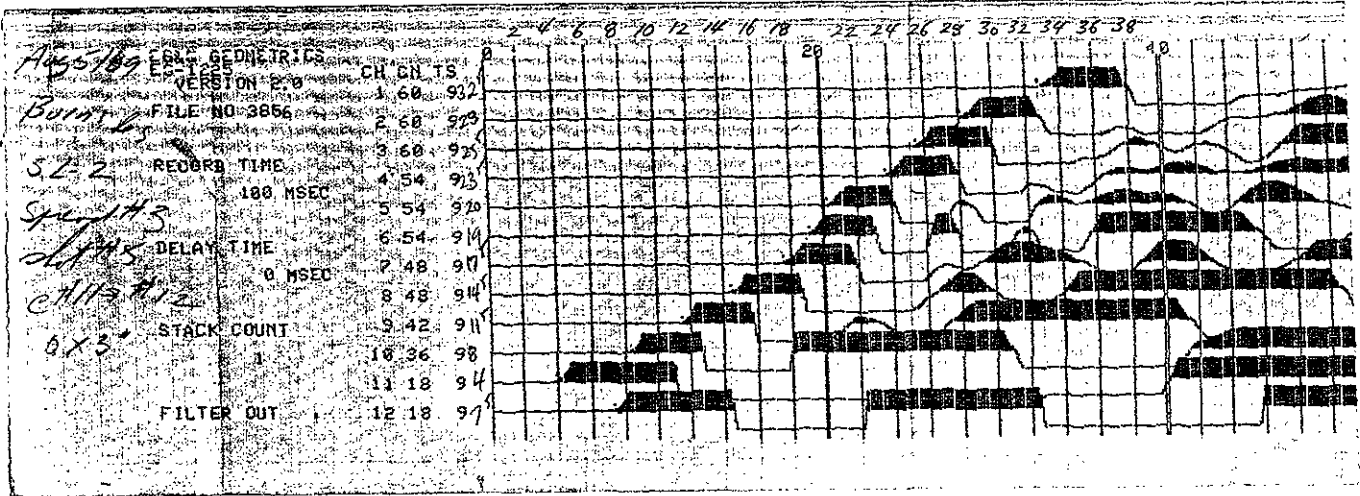
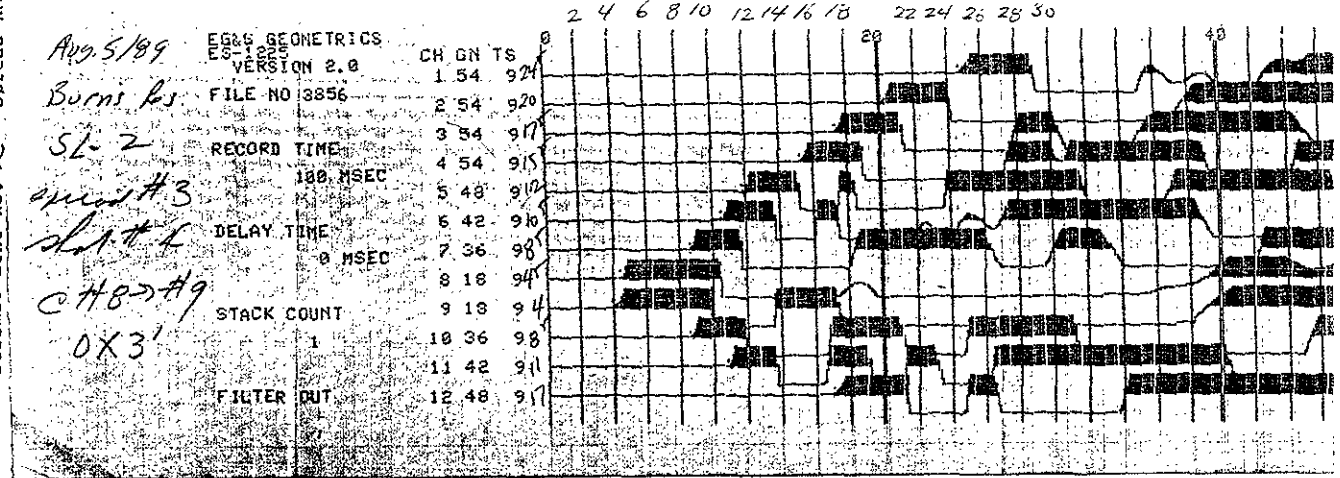
E&G GEOMETRICS	
VERSION 2.0	
FILE NO	3856
RECORD TIME	
100 MSEC	
DELAY TIME	
0 MSEC	
STACK COUNT	
1	
FILTER OUT	



Aug 5 1989
 Burns & Co.
 SL-2
 11/2
 11/4
 01149/45
 OX 3!

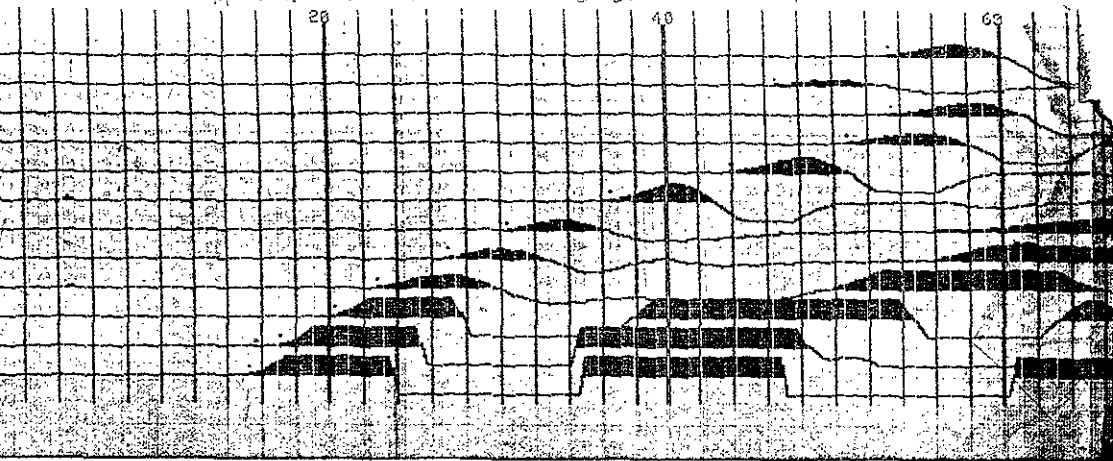
E&G GEOMETRICS	
VERSION 2.0	
FILE NO	3856
RECORD TIME	
100 MSEC	
DELAY TIME	
0 MSEC	
STACK COUNT	
1	
FILTER OUT	





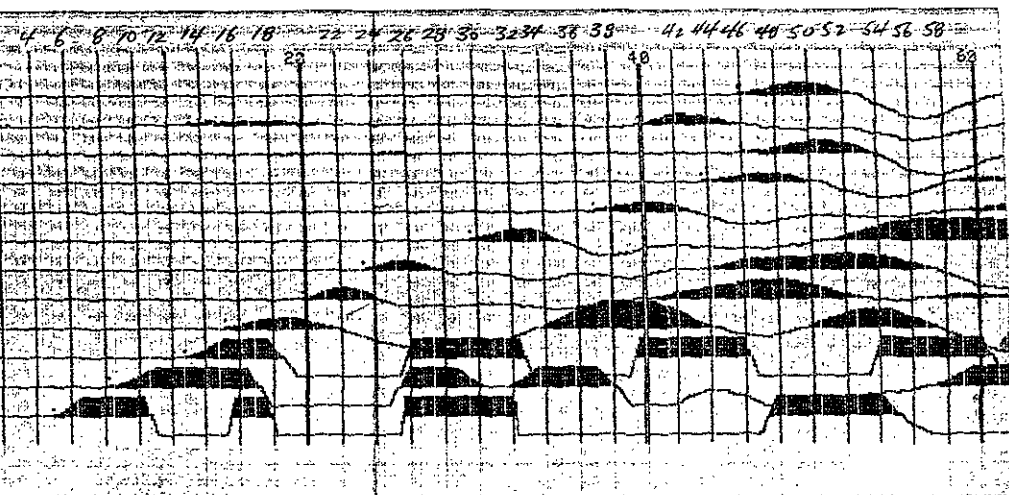
Aug 5/89
Burns Rts.
SL-2B
spread 11
SL 11
~30 m west of 112

ES-125	ES-125	CH	GN	TS
ES-125	ES-125	1	60	1833
ES-125	ES-125	2	60	1841
ES-125	ES-125	3	60	1853
ES-125	ES-125	4	60	1900
ES-125	ES-125	5	60	1904
ES-125	ES-125	6	60	1906
ES-125	ES-125	7	54	1830
ES-125	ES-125	8	54	1827
ES-125	ES-125	9	54	1822
ES-125	ES-125	10	54	1820
ES-125	ES-125	11	54	1817
ES-125	ES-125	12	54	1815



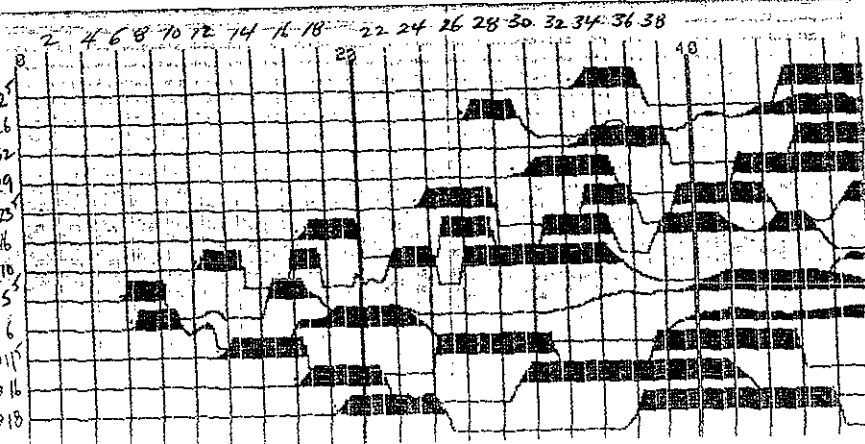
Aug 5/89
Burns Rts.
SL-2B
spread 11
SL 11
CH 117 112
OX3

ES-125	ES-125	CH	GN	TS
ES-125	ES-125	1	60	1146
ES-125	ES-125	2	60	1140
ES-125	ES-125	3	60	1046
ES-125	ES-125	4	54	1143
ES-125	ES-125	5	54	1031
ES-125	ES-125	6	54	1019
ES-125	ES-125	7	48	1113
ES-125	ES-125	8	48	1020
ES-125	ES-125	9	42	1015
ES-125	ES-125	10	36	912
ES-125	ES-125	11	18	909
ES-125	ES-125	12	18	905



Aug 5/89
Burns Rts.
SL-2B
spread 11
SL 11
CH 87 119
OX3

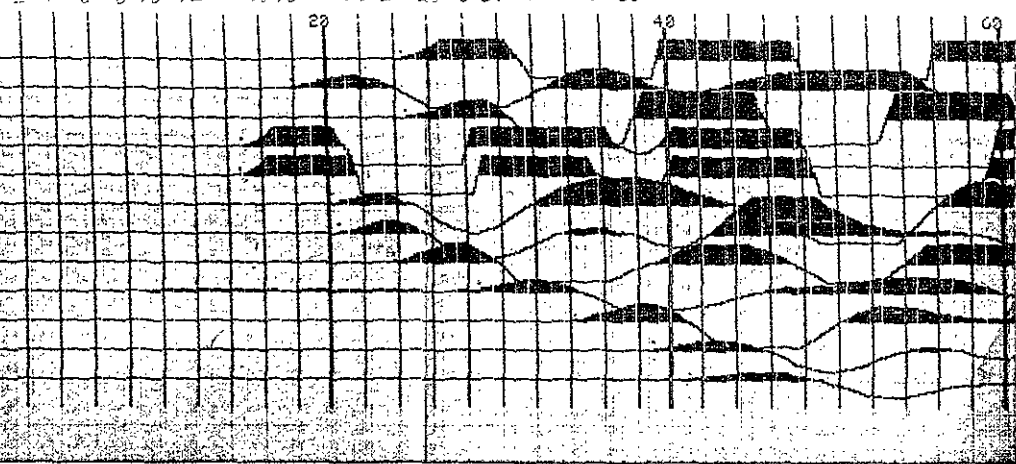
ES-125	ES-125	CH	GN	TS
ES-125	ES-125	1	54	932
ES-125	ES-125	2	54	926
ES-125	ES-125	3	54	932
ES-125	ES-125	4	54	929
ES-125	ES-125	5	48	923
ES-125	ES-125	6	42	916
ES-125	ES-125	7	36	910
ES-125	ES-125	8	18	905
ES-125	ES-125	9	18	906
ES-125	ES-125	10	36	911
ES-125	ES-125	11	42	916
ES-125	ES-125	12	48	918



Aug 5/89
Burns Rs.
SL-2B
quadrant
d114
0.4425
0.83

ESG SEISMOMETRICS
ES-12005
VERSION 2.0
FILE NO 3856
RECORD TIME
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
1
FILTER OUT

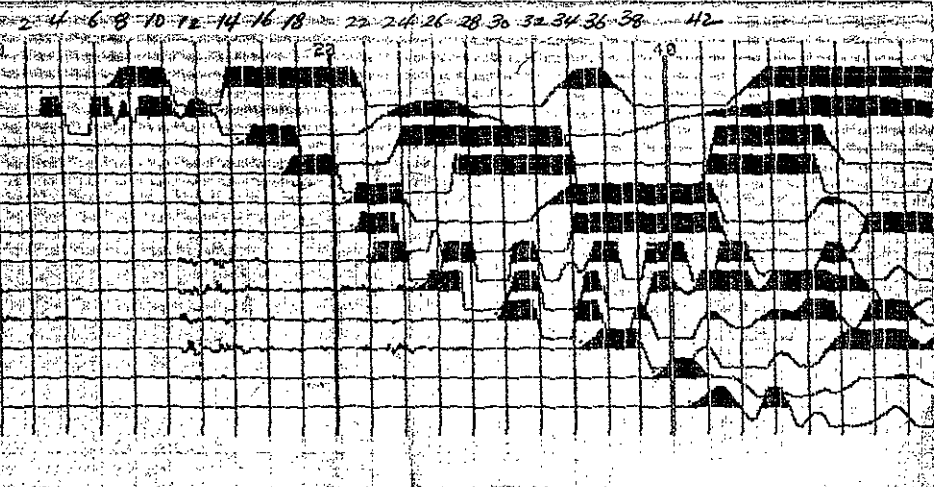
CH GN TS
1 48 924
2 42 918
3 30 1024
4 18 915
5 18 914
6 30 1120
7 42 1120
8 54 914
9 54 1028
10 54 1034
11 54 1039
12 54 1044



Aug 5/89
Burns Rs.
SL-2B
quadrant
d114
0.4425
0.83

ESG SEISMOMETRICS
ES-12005
VERSION 2.0
FILE NO 3856
RECORD TIME
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
1
FILTER OUT

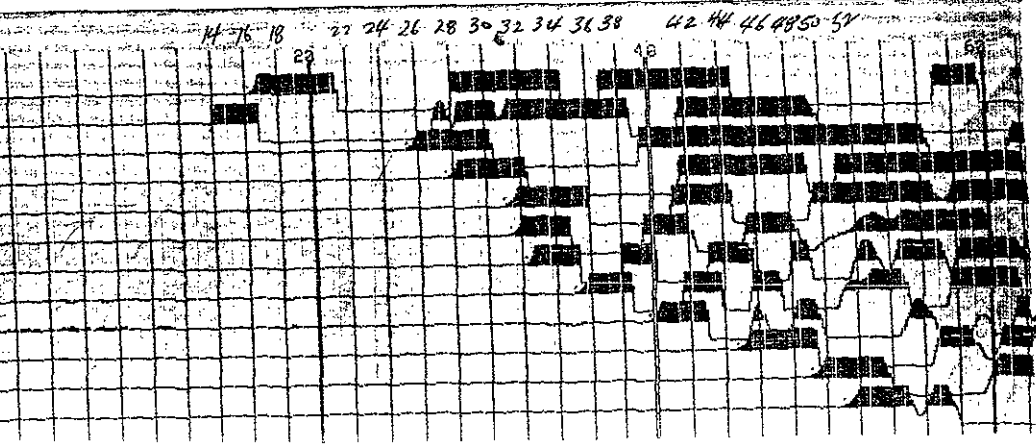
CH GN TS
1 12 916
2 12 913
3 30 914
4 42 911
5 48 910
6 54 911
7 54 912
8 60 912
9 60 911
10 60 914
11 60 919
12 60 914

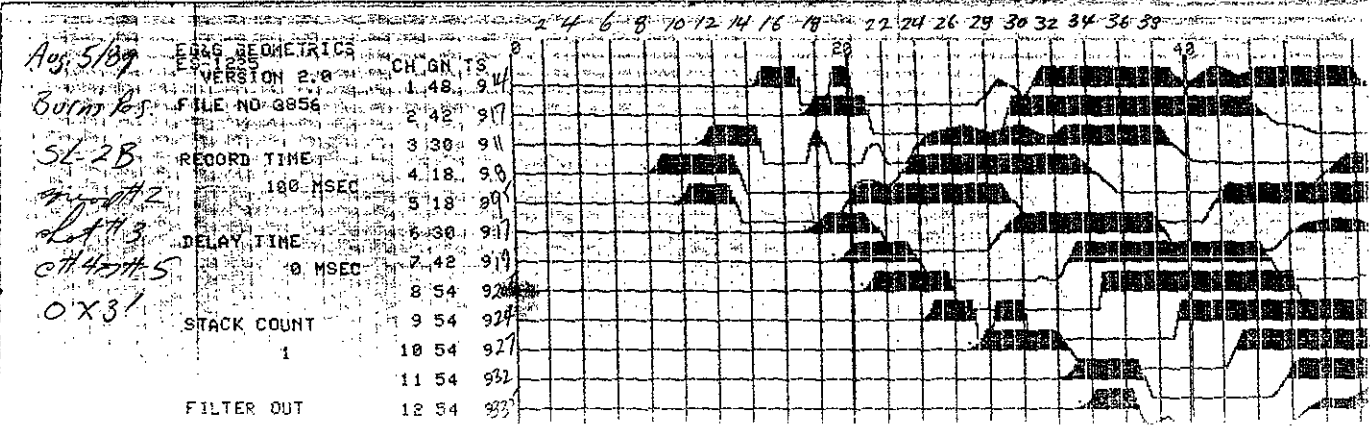
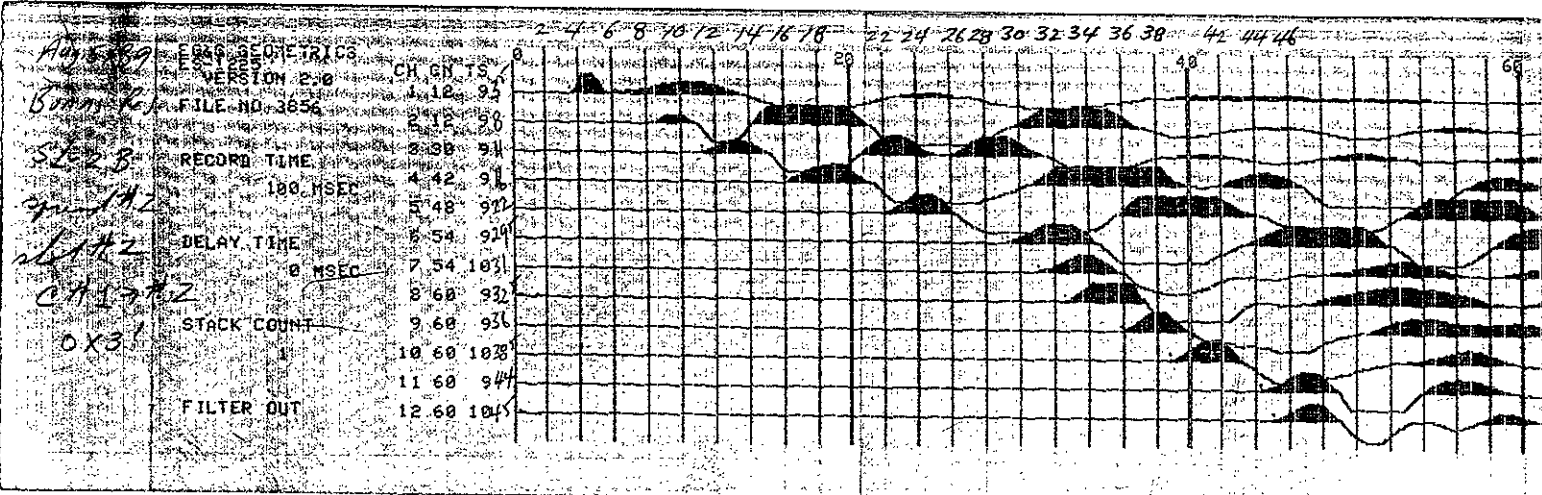
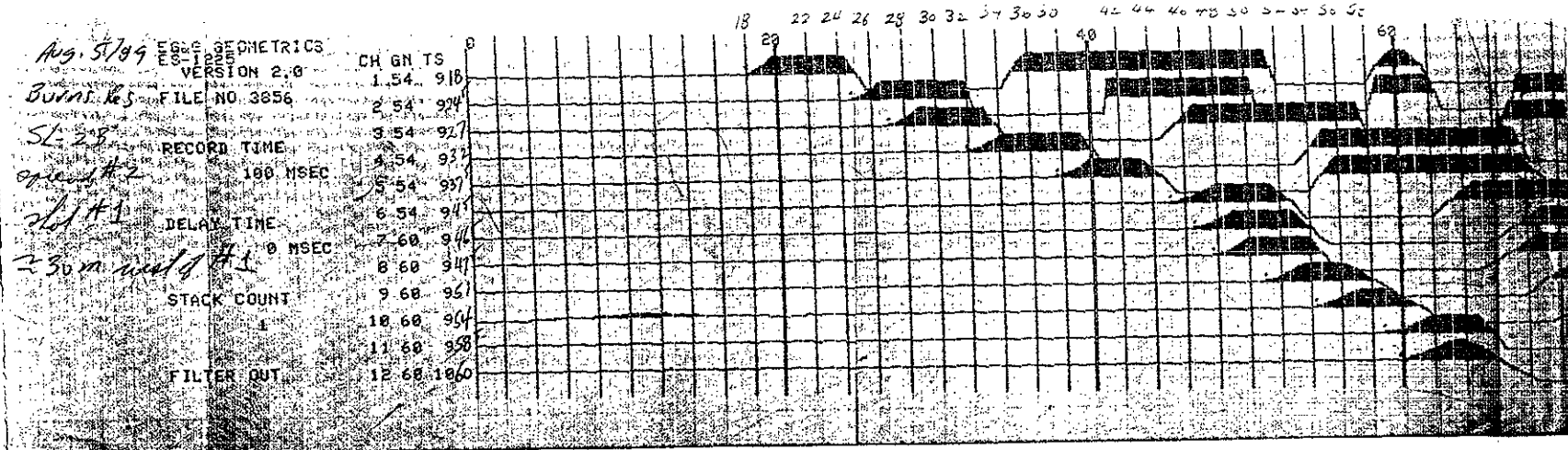


Aug 5/89
Burns Rs.
SL-2B
quadrant
d114
0.4425
0.83

ESG SEISMOMETRICS
ES-12005
VERSION 2.0
FILE NO 3856
RECORD TIME
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
1
FILTER OUT

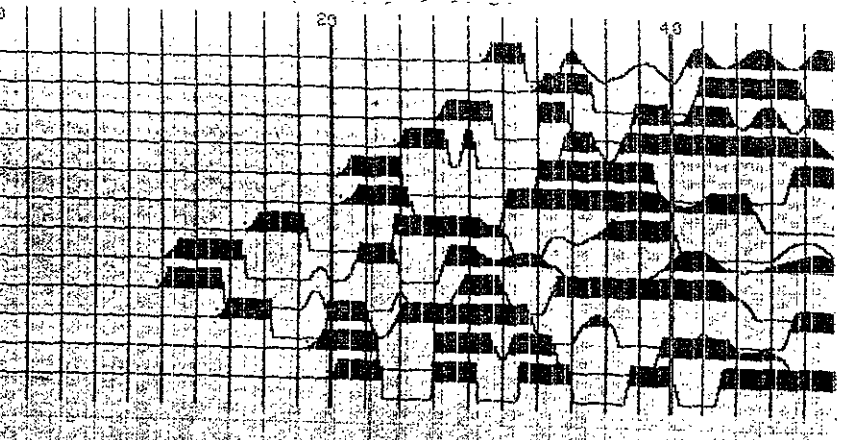
CH GN TS
1 54 916
2 54 914
3 54 915
4 54 911
5 54 911
6 54 911
7 60 912
8 60 915
9 60 914
10 60 914
11 60 919
12 60 914





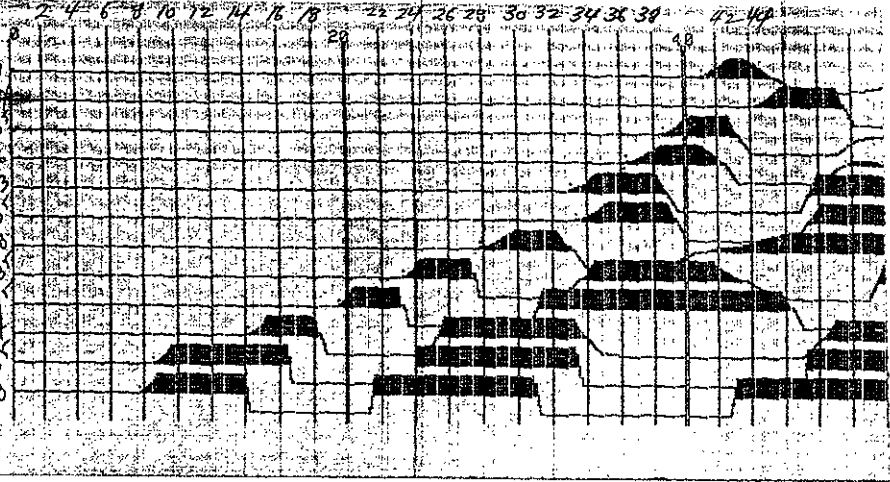
Aug 5/89
Burns Bay
SL-28
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
FILTER OUT

ES-1255	GEOMETRICS	VERSION 2.0	CH	GN	TS
FILE NO 3856			1	54	928
RECORD TIME			2	54	931
100 MSEC			3	54	926
DELAY TIME			4	54	925
0 MSEC			5	48	920
STACK COUNT			6	42	920
			7	36	915
			8	18	910
			9	18	910
			10	36	913
			11	42	916
			12	48	920



Aug 5/89
Burns Bay
SL-28
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
FILTER OUT

ES-1255	GEOMETRICS	VERSION 2.0	CH	GN	TS
FILE NO 3856			1	60	941
RECORD TIME			2	60	938
100 MSEC			3	54	934
DELAY TIME			4	54	933
0 MSEC			5	48	930
STACK COUNT			6	42	928
			7	42	928
			8	48	925
			9	42	921
			10	36	914
			11	18	906
			12	18	900



Aug 5/89
Burns Bay
SL-28
100 MSEC
DELAY TIME
0 MSEC
STACK COUNT
FILTER OUT

ES-1255	GEOMETRICS	VERSION 2.0	CH	GN	TS
FILE NO 3856			1	60	948
RECORD TIME			2	60	951
100 MSEC			3	60	945
DELAY TIME			4	60	943
0 MSEC			5	60	940
STACK COUNT			6	60	940
			7	54	935
			8	54	930
			9	54	927
			10	54	922
			11	54	919
			12	54	917

