N.T.S.:104 A/4W
Lat.:56'04N
Long.: 130'01W

GEOLOGICAL, GEOCHEMICAL, AND GEOPHYSICAL REPORT ON THE ICE 1,2,3, AND 4 CLAIM GROUP

Skeena Mining Division

British Columbia

for

Navarre Resources Corporation
201-744 W. Hastings St.
Vancouver,B.C.

by

Andris Kikauka, B.Sc., F.G.A.C.

Oct. 25, 1990

ITEMIZED COST STATEMENT

Ice I, 2, 3, 4 Claim Group- Aug. 1-14, 20-31, 1990

Field crew;			
Geologist-	Andris Kikauka 16X350	5,600.00	
Geotechnician-	Ian Rose 16X125	2,000.00	
"	Kent Antoniak 14X125	1,750.00	
"	Chris Antoniak 7X100	700.00	
"	Harry Ball 7X100	700.00	
Driller-	Gene Harris 6X250	1,500.00	
	Shawn Kelly 6X175	1,050.00	
Drillers helper-	Vince Painchaud 6X125	750.00	
	Barry Watt 6X125	750.00	
	sub-total		14,800.00
Geophysical survey contract;			
Scott Geophysics Ltd., Vancouver, B.C.			7,750.00
Field costs;			
Helicopter charters (V.I.H. Stewart base)			5,770.00
Room and board $45/day X 84 man days			3,780.00
Lab analysis (Eco-tech labs, Stewart, B.C.)			
121 soil, 33 rock samples			2,000.000
Report writing			1,000.00
	total		$35,000.00

SUMMARY:

The Ice Claim Group consists of four contiguous mineral claims comprising 72 units. The property is situated in the Skeena Mining Division approximately 10 km. north of Stewart, B.C. and 2 km. east of the Silbak-Premier Mine.

The property is underlain by Lower and Middle Jurassic volcanics and sediments of the Unuk River Formation and Betty Creek Formation. This sequence is locally altered by secondary development of quartz-pyrite-sericite. A series of northwest trending Tertiary dykes cut the volcanics, sediments, and alteration zones.

Zones of pervasive quartz-sericite-pyrite are developed across an area of 1.5 by 0.3 km. over the central portion of the Main Grid (Fig. 4). A replacement zone of quartz-pyrite-graphite is developed over the east portion of the Ice B grid (Fig. 4). A trenched rock chip sample from this replacement zone assayed 205.6 g/t Ag across a width of 0.8 m. Soil samples from this area (approximately 150 by 300 m.) returned average values in excess of 20 ppm Ag and 0.1 ppm Au. A quartz-suphide vein zone located immediately south of the carbonaceous quartz-sulphide replacement zone assayed 2.93 g/t Au, 896.0 g/t Ag, 1.35% Pb, and 7.56% Zn. A diamond drill hole was positioned to cut this zone, but was stopped short of the projected target due mechanical problems. The 99 m. long hole did however intersect quartz-sphalerite-galena in the final 15 cm. of core that assayed 1.79 g/t Au, 343.0 g/t Ag, 9.24% Zn, 0.37% Pb.The contact zone of the vein and replacement zone are targets for high tonnage-low grade and low tonnage- high grade gold-silver deposits.

Another quartz-sulphide vein and replacement zone exist in the southwest corner of the Main Grid. A line of geochemical soil samples returned Ag values up to 199.8 ppm and 1835 ppb Au from this zone.

A geophysical Pulse-EM survey over the Main Grid (Fig. 4) failed to identify defined conductor axes. The survey was conducted over glacial ice testing an obscure quarz-sericite-pyrite alteration zone that extends northwest from the lower elevations to the crest of the Bear River Ridge, where only small 50-100 m. wide exposures of the zone come through the ice.

Previous work in the vicinity of Mt. Shorty Stevenson indicates the presence of high-grade mineralization. Assessment reports give assay values of 7.2 g/t Au, 5,848.2 g/t Ag, 12.6% Pb, 30.2% Zn, across a width of 35 cm. taken from a quartz vein immediately south of Mt. Shorty Stevenson.

The property is relatively close to the mining infrastructure

of the Westmin Gold Project, which includes a 2,000 tpd mill. The presence of quartz-sulphide vein and replacement zones across widths in excess of 200 m. with significant gold-silver-lead-zinc values indicate excellent potential for the discovery of new zones. Coupled with the fact that new exposures of outcrop are constantly appearing from rapidly retreating glacial ice and the claim group is relatively accessible, additional work is recommended.

A follow-up Phase II program of diamond drilling, trenching, and geological mapping is recommended. Approximate cost would be $225,000.

TABLE OF CONTENTS

LIST OF FIGURES AND APPENDICIES

1.0 INTRODUCTION

This report summarizes geological, geochemical, and geophysical surveys carried out between Aug. 1 and Aug. 31, 1990. The author Mr. A. Kikauka planned and supervised all field work and was project geologist on the subject claims from Aug. 1-14 and Aug. 20-31, 1990.

2.0 LOCATION, ACCESS, PHYSIOGRAPHY:

The Ice 1,2,3,4 Claim Group is located 10-15 km. north of the town of Stewart, B.C. along the crest of the Bear River Ridge. The property lies within the Skeena Mining Division on map sheet 104 A/4 W (Fig. 2).

Elevations on the claim group range from 1150 m. to 1950 m. The slopes are moderate to steep on the west slope of the Bear River Ridge and steep on the east side. Approximately half of the claim group is covered by glacial ice and the other half is generally bare with thin overburden/talus cover.

The area of detailed field work is located in the central portion of the Ice 2 and 3 claims.

Access is achieved by helicopter from Stewart. There is an open creek bed free of vegetation that originates at Mt. Shorty Stevenson and can be negotiated by hiking a total horizontal distance of 3.6 km. and a vertical distance of 1.5 km. that ends up directly at the Westmin Mill via Cooper Creek.

3.0 PROPERTY STATUS:

The Ice 1,2,3,4 Claim Group consists of four contiguous claims located in the Skeena Mining Division. The claims are owned by Navarre Resources Corp. (Fig. 2).

Claim Name	# of units	Record #	Record date	Expiry date
Ice 1	18	5662	Sept. 5, 86	Sept. 5, 93
Ice 2	18	5663	Sept. 5, 86	Sept. 5, 93
Ice 3	18	5664	Sept. 5, 86	Sept. 5, 93
Ice 4	18	5665	Sept. 5, 86	Sept. 5, 93

The total area of the claim group, allowing for overlap of previous claims, is approximately 1100 hectares.

4.0 AREA HISTORY:

The M.C. Showing located 200 m. south of the Ice 4 claim, on the crest of the Bear River Ridge, has been periodically examined. Pyrite-galena-sphalerite-tetrahedrite in a gangue of quartz-carbonate, 5-12 m. long up to 2 m. wide with assay values up to .16 oz/t Au, 550.0 oz/t Ag, 1.47% Cu, 35.15% Pb,

19.18% Zn (Grove, 1971

The Silbak-Premier Mine located 2.4 km. west of Mt. Shorty Stevenson, includes past production of 1.8 million ounces gold, 40.9 million ounces silver, 83.9 thousand tons copper, lead, and zinc. The old glory hole site is currently being open pit mined by Westmin Res. at a rate of approximately 1000 tons/day. Mineralization occurs as a transgressive vein-replacement-breccia quartz-polymetallic sulphide deposit emplaced in deformed, metasomatized Lower Jurassic epiclastic rocks (Grove, 1970).

Other active exploration and mining is being carried out on many of the 500 gold-silver-base metal prospects and deposits within the Stewart Complex. This area continues to be one of the most active mineral exploration areas of North America as demonstrated by numerous projects being carried out by major and junior mining companies within the "Golden Triangle".

5.0 PROPERTY HISTORY:

The Minister of Mines, B.C. Annual Report, 1929 states that quartz-carbonate lenses, north and northwest trending steeply dipping veins are found on the Bear River Ridge north of the M.C. Showing in areas just appearing under the ice. In the late 1920's and 1930's diamond drilling and hand trenching were performed on a vein on a ridge immediately south of Mt. Shorty Stevenson. No reports of this work can be located. A 15 inch chip sample across this quartz vein (taken by E.D.Dodson, 1968) assayed 7.2 g/t Au, 5,848.2 g/t Ag, 12.6% Pb, 30.2% Zn (M.P.Stadyck, 1970). A shipment of several hundred pounds of this high-grade material was shipped by helicopter to Stewart.

6.0 GENERAL GEOLOGY:

The Stewart Complex includes a thick sequence of mainly late Trassic to late Middle Jurassic volcanic, sedimentary, and metamorphic rocks. These have been intruded and cut by a mainly granitic to syenitic suite of Lower Jurassic through Tertiary plutons which together form part of the Coast Plutonic Complex. Deformation, in part related to intrusive activity has produced complex fold structures along the main intrusive contacts with simple open folds and warps dominant along the east side of the complex. Cataclasis marked by strong north-south structures are prominent structural features that cut all the pre-Jurassic units.

Country rocks in the general Stewart area comprise mainly Hazleton Group strata which includes the Lower Jurassic Unuk River Formation and the Middle Jurassic Betty Creek and Salmon River Formation and the Upper Jurassic Nas Formation (Grove,

1971, 1986). In the general Stewrart area the Unuk River strata include mainly fragmental andesitic volcanics, epiclastic volcanics and minor and minor volcanic flows. Widespread Aalenian uplift and erosion was followed by deposition of the partly marine volcaniclastic Betty Creek Formation, the mixed Salmon River Formation, and the dominantly shallow marine Nass Formation.

Intrusive activity in the Stewart area has been marked by Lower to Middle Jurassic Texas Creek granodiorite with which the Silbak-Premier, Big Missourri, and many small ore deposits are associated. Younger intrusions include the extensive Hyder Quartz Monzonite and the many Tertiary dyke swarms which form a large part of the Coast Plutonic Complex. Mineral deposits such as the B.C. Molybdenum mine at Alice Arm and a host of smaller deposits are localized in or related to these 48 to 52 m.y. plutons which include dykes forming part of the regionally extensive Portland Canal Dyke Swarm (Grove, 1986).

Stewart District Mineral Deposits

More than 700 mineral deposits and showings have now been discovered in a large variety of rocks and structural traps in the Stewart District. The famous Silbak-Premier mine which has been reactivated as an open pit operation by Westmin Resources represents a telescoped epithermal gold-silver-base metal deposit localized along a complex, steep fracture system in Lower Jurassic volcaniclastics overlain by shallow dipping Middle Jurassic sedimentary rocks. In this example, the shallow dipping younger rock units formed a dam, trapping bonanza type gold-silver mineralization at a relatively shallow depth. Mineralization at the Silbak-Premier, Big Missourri, and a number of other deposits in the area have been related to early Middle Jurassic regional plutonic events (Grove, 1971,1986). Younger high grade mineralization found localized in various members of the Portland Canal Dyke Swarm, particularly in the Stewart area, have also been related to the Cretaceous and Tertiary plutonic-volcanic events. Overall at least four major episodes of mineralization involving gold-silver, base metals, molybdenum and tungsten dating from early Lower Middle Jurassic through to Tertairy have been recorde throughout the Stewart Complex.

7.0 1990 FIELD PROGRAM

7.1 SCOPE AND PURPOSE

From August 1-14, 1990, a geologist, geophysicist and 3 geotechnicians carried out geological mapping, soil sampling and a Pulse-EM horizontal loop survey. From Aug. 20-31, 1990, a geologist, and 3 geotechnicians carried out mapping, sampling, trenching and drill site preparation. From Aug. 26-31, 1990 4

drillers performed core drilling.

The purpose of this program was:
a) to cover the property with detailed geological, geochemical, and geophysical surveys in order to evaluate mineral deposits.
b) to evaluate the physical parameters of mineralization.
c) systematically sample mineralization.

7.2 METHODS AND PROCEDURES

Utilizing a compass and hip chain a flagged grid was established over the central portion of the Ice 2 claim. The grid area covered an area 1.5 by 1.0 km. The lines perpendicular to the baseline were spaced at 100 m. A total of 16 km. of line grid was surveyed on the Main Grid (Fig. 4). A second grid covers the central portion of the Ice 3 claim and is centered on the peak of Mt. Shorty Stevenson, elevation 1950 m. Lines were spaced at 50 m. and coverage was restricted to areas free of snow and ice. A total of 3 km. line grid was surveyed on the Ice B Grid.

Using a grub hoe, soil samples were collected from talus fines. Sample depths averaged 25 cm. A total of 95 soil samples were collected from the Ice B Grid and 26 soil samples were taken from the Ice Main Grid.

The geophysical survey on the Main Grid covered an area 800 by 700 m. Readings were taken at 25 m. intervals along the grid lines. The horizontal loop was placed outside of the grid survey area to better assess the vertical component of the primary pulse as well as secondary magnetic field. The equipment used was a 2000 watt Crone Transmitter and Crone Digital Receiver.

An Atlas Copco Cobra was used to drill trench holes using 70% forcite to blast trench sites. A toal of 28 rock chip samples, averaging 2 kg., were collected on the grid areas (Fig.5). Rock samples were assayed for Au,Ag and geochemically analyzed for 30 elements using ICP. All soil samples were geochemically analyzed for Au and 30 elements using ICP. The analysis was performed by Eco-Tech Labs, Stewart and Kamloops, B.C. Their lab procedures are given in the appendix.

A Boyles B-20 diamond drill was mobilized to a site 170 m. southwest of Mt. Shorty Stevenson. The drill was set up on a talus slope near the edge of a glacier.

8.0 RESULTS

8.1 GEOLOGY AND MINERALIZATION

Geological mapping of the Ice 1,2,3,4 Claim Group indicates

that the Lower Jurassic Unuk River Formation (consisting of green, red, and purple volcanic breccias, conglomerate, sandstone, and siltstone) form a moderately west dipping homocline. Middle Jurassic volcanics of the Betty Creek Formation occurs on the peak of Mt. Shorty Stevenson and can be traced northwest. This sequence locally forms a rhyolite breccia (at Monitor Lake 2 km. northwest of Mt. Shorty Stevenson). Middle Jurassic Texas Creek granodiorite occurs on the east edge of the claim group. Tertiary dykes of intermediate composition cut all of the above units.

A northwest trending belt of mineralized, deformed volcaniclastics occurs in the central portion of the Ice 2 claim. This deformation follows a major shear zone that can be traced from the confluence of Bear R. and Bitter Ck. to Moniter Lake. As a result a 100-200 m. wide band of pyritic, bleached altered rock can be traced intermittently for approximately 1 km. through the Ice 2 claim (Fig.6). Adjacent, parallel shear zones contain erratic quartz-carbonate sulphide lenses that contain significant gold-silver values. One such zone was identified at 10+00S 4+50W, grid coordinates of the Main Grid. The width of mineralization varied from 0.3 to 1.0 m. and trended NNW with a steep west dip.

A relatively large scale quartz-sulphide replacement zone occurs over the middle lower portion of the Ice 3 claim. This zone is centered 300 m. southeast of Mt. Shorty Stevenson. The main zone gave soil geochemical values that averaged over 20 ppm Ag and 100 ppb Au. This zone covers an area of 200 by 250 m. Mineralization in this zone consists of grey-black coloured quartz, disseminated and vein pyrite, graphite, sphalerite, galena, and tetrahedrite. A 0.7 m. wide quartz-sulphide vein within this zone assayed 2.93 g/t Au, 896.0 g/t Ag, 1.35% Pb, 7.56% Zn. The grey-black quartz within the replacement zone is due to fine grain carbonaceous material forming up to 1% of the rock. The relatively unaltered rock at the edge of this zone consists of red, green, and brown coloured sandstone, siltstone, and volcanic breccia of the Unuk River Formation. This relatively thick and contorted formation is unconformably overlain by the relatively well preserved and locally thin Betty Creek Formation. The Betty Creek consists of rhyolite to andesite composition volcanic tuffs and flows with minor sandstone, siltstone, and chert. This relatively flat lying unit contrasts the contorted Unuk River Formation suggesting that Middle Jurassic plutonism (Texas Creek granodiorite) was responsible for warping the Unuk R. Fm. Well preserved primary flow and ash fall textures are present in the Betty Creek Fm. whereas very little original texture is preserved in the Unuk R. Fm. Mineralization on the claim group is hosted by the Unuk R. Fm. immediately below the unconformity of the overlying Betty Creek Fm.

Detailed examination of mineralization reveals 3 distinct styles of sulphide-quartz distribution and emplacement:
1) Structurally controlled quartz-sulphide veins occurring along shear zones across widths of 0.1 to 2.0 m.
2) Quartz-sulphide replacement zones silicification and pyrite developed across widths of 100 to 300 m.
3) Bleached country rock with secondary sericite, quartz, and pyrite developed adjacent to zones of cataclasis.

Trenching and rock chip channel sampling of the 3 types of mineralization revealed higher gold and silver values were obtained in the quartz-sulphide vein. The observed veins appear to increase their frequency and width in areas where faults interact with quartz-sulphide replacement zones, i.e. where mineral type 1) intersects type 2). Trenching results confirm an increase of gold and silver values in the quartz-sulphide veins adjacent to the quartz-sulphide replacement zone 300-500 m. southeast of Mt. Shorty Stevenson.

8.2 GEOCHEMISTRY

Geochemical samples listed in appendix C are talus fines, i.e. weathered C horizon. Little or no soil is developed above 1200 m. elevation. Sampling in this program was done at 1500-1900 m. elevation. Different styles of mineralization gave specific geochemical signatures; 1) Quartz-sulphide vein zones gave erratic, above average gold and silver values up to 1835 ppb Au and 199.8 ppm Ag, with above average Cu, Pb, Zn values and spot highs of As (up to 1120 ppm), Sb (up to 95 ppm). The quartz-sulphide replacement zone gave relatively consistent above average metal values with exceptionally high Ag values. An area approximately 150 by 300 m. contained average silver values of 20 ppm located 300-500 m. southeast of Mt. Shorty Stevenson. Relatively high Pb-Zn values were associated with this silver zone. The geochemical anomaly is directly related to the presence of sphalerite-galena-tetyrahedrite mineralization that was observed in the geological mapping.

The bleached quartz-sericite-pyrite zone located at the center of the Ice Main Grid returned relatively low Cu-Pb-Zn-Ag-Au values with somewhat elevated As (up to 545 ppm).

8.3 GEOPHYSICS

A Pulse-EM survey was performed to test for conductive sulphide zones along a major shear zone approximately 1.5 km. north of Mt. Shorty Stevenson. This zone was located by following the mineral trend within the Rock of Ages crown granted claims located 0.7 km. east of Mt. Shorty Stevenson, and carries on through to Monitor Lk. 2.5 km. northwest of Mt. Shorty Stevenson. The advantage of the Pulse-EM system is the ability of this survey to scan underneath the glacial ice. An area 0.8

by 0.7 km. was surveyed on the Ice Main Grid between L3+00S and 5+00N. This area is approximately 90% ice. The hub of this grid was located on a rock island within the glacier. This outcrop (approximately 50 by 150 m.) consists of bleached, altered rock with abundant sericite, silica, and pyrite.

The objective of the survey was to test extension of the known mineral trend and to identify conductive zones near the alteration zone located near the center of the survey area.

The parameters of the survey are given in appendix A. A total of 4.525 km. of line grid was surveyed at 25 m. station intervals. The horizontal loop for this area covered a perimeter of 400 by 800 m. immediately east of the surveyed portion of the grid. The location of the loop outside of the survey area would enhance reception of vertical conductors.

A change from negative to positive readings indicate a conductive response. The 12 channel readings give an extra dimension to the interpretation of strength and attitude of the conductive zone.

There is a general channel 1 response, i.e. change from negative to positive, at stations 2+75E to 3+75E between L4+00N and L3+00S. This corresponds to the east edge of the grid where there is a lithological boundary within the Betty Ck. Fm. i.e. rhyodacitic tuffs/flows are overlain by an argillaceous siltstone. There is a minor amount of carbonaceous material and graphite within the sediments which probably account for the weak conductive response. The survey failed to identify any conductive zones under the glacier.

The survey was originally planned to cover the southern portion of the Main Grid and the Ice B Grid however the steep terrain and glacial ice proved too difficult for this type of survey. An airborne EM survey could cover these areas.

8.4 DIAMOND DRILLING

A proposal of drilling 3 holes from a setup 150 m. south of Mt. Shorty Stevenson was stopped short due to mechanical problems with the drill. The objective was to intersect the quartz-sulphide replacement-vein zone located 200 m. horizontally and 140 m. vertically from the drill collar. Projected to cut this zone at 200-275 m. depth, only a 99 m. depth was attained. Two other holes were planned to cut mineralized shear zones that are part of the same zone.

The 99 m. drill hole intersected 2 mineral zones within a sequence of Lower Jurassic volcanics and sediments. The final 15 cm. of this hole intersected carbonaceous quartz gangue with disseminated sphalerite and traces of fine grain galena. This

core assayed 1.79 g/t Au, 343.0 g/t Ag, 9.24% Zn, 0.37% Pb.

9.0 CONCLUSION

The author believes that the Ice Claim Group has potential for hosting an economic Ag-Au-Zn-Pb deposit for the following reasons:

1) Rock samples from trenches returned significant silver, gold, zinc, and lead values. Geological mapping identified replacement and vein mineralization across significant widths and strike length.
2) Three distinct episodes of mineral emplacement created a quartz-sulphide vein-replacement network of zones that contain relatively high concentrations of precious metals. The quartz-sulphide zones occur adjacent to shear zones. In areas of complex cross cutting episodes of mineralization there is a signifigant potential for a large system of sulphides to occur at depth.
3) Soil sampling indicates relatively high Ag-Au-Zn-Pb values over the east portion of the Ice B Grid and the southwest portion of the Main Grid.
4) The claim group contains relatively large quartz-sulphide replacement and alteration zones that were probably emplaced in the Mid-Jurassic. The age of emplacement coincides with the age of ore at the Silbak-Premier which is located a relatively short distance from the Ice Claim Group.
5) High grade silver and gold ore is reported in previous reports on the property.
6) Although stopped short, diamond drilling intersected significant Ag-Au-Zn values.
7) The nearby producing mines have a well established mining and milling infrastructure which is relatively accessible.

For these reasons further exploration work is warranted.

10.0 RECOMMENDATIONS

a) A fence pattern of diamond drill holes to test the depth extension of surface trenching. A series of 100-250 m. drill holes at 50 m. spacing could be collared 50-100 m. southwest of the quartz-sulphide replacement-vein zone in the east portion of the Ice B Grid. Angle holes could be directed northeast to intersect this zone (Fig. 7). A total of 950 m. of core drilling is recommended.

b) Detailed geological mapping in the area of the drill program. Regional mapping and prospecting to cover entire claim group.

c) Airborne EM geophysical survey to test conductive zones in the vicinity of Mt. Shorty Stevenson.

d) Further trenching to test extensions of known showings and exposures of new zones.

11.0 PROPOSED BUDGET

Mob/demob, project preparation	$ 8,000
Field Crew	24,000
Field costs	18,000
Helicopter charters	20,000
Geophysics	10,000
Diamond drilling	95,000
Lab analysis	14,000
Trenching	4,000
Report	2,000
Administration	30,000
total	225,000

Respectfully submitted;

A. Kikauka

Andris Kikauka, B.Sc., F.G.A.C.

Oct. 25, 1990

REFERENCES:

Alldrick, D.J., 1987, Stratigraphy and Petrology of the Stewart Mining Camp. Min. of E.M.&P. Res. Report of Geological Fieldwork.

Alldrick, D.J., 1988, Geological Setting of Precious Metals in the Stewart Area. Min of E.M.&P. Res. Report of Geological Fieldwork.

Grove, E.W., 1971, Geology and Mineral Deposits of the Stewart Area, B.C.D.M. Bulletin 58.

Grove, E.W., 1986, Geology and Mineral Deposits of the Unuk R., Salmon R., Anyox Area. Min. of E.M.&P. Res., Bulletin 63.

Standyk, M.P., 1970, Report on Geochemical and Geophysical Surveys on the Mineral Lease 224, Mt. Shorty Stevenson. Min. of E.M.&P. Res., Assessment Report # 2754.

STATEMENT OF QUALIFICATIONS

I, Andris Kikauka, do hereby declare that;

- I graduated from Brock University, Faculty of Geological Sciences, St. Catharines, Ontario, 1979, receiving Honours B.Sc., First Class.

- From 1976-79 have performed geological fieldwork for uranium on the Canadian Shield.

- From 1979-90 have performed geological fieldwork for precious metal and base metal on the cordillera of Western Canada.

- I am a fellow in good standing with the Geological Association of Canada.

- Personally participated in the field work of this report, reviewed and assessed the data.

- I have no direct interest in the subject claims or the securities of Navarre Resources Corp.

- I consent to the use of this report in a Prospectus of material facts for the purpose of private or public financing.

A. Kikauka

Andris Kikauka, B.Sc., F.G.A.C.

Oct. 25, 1990

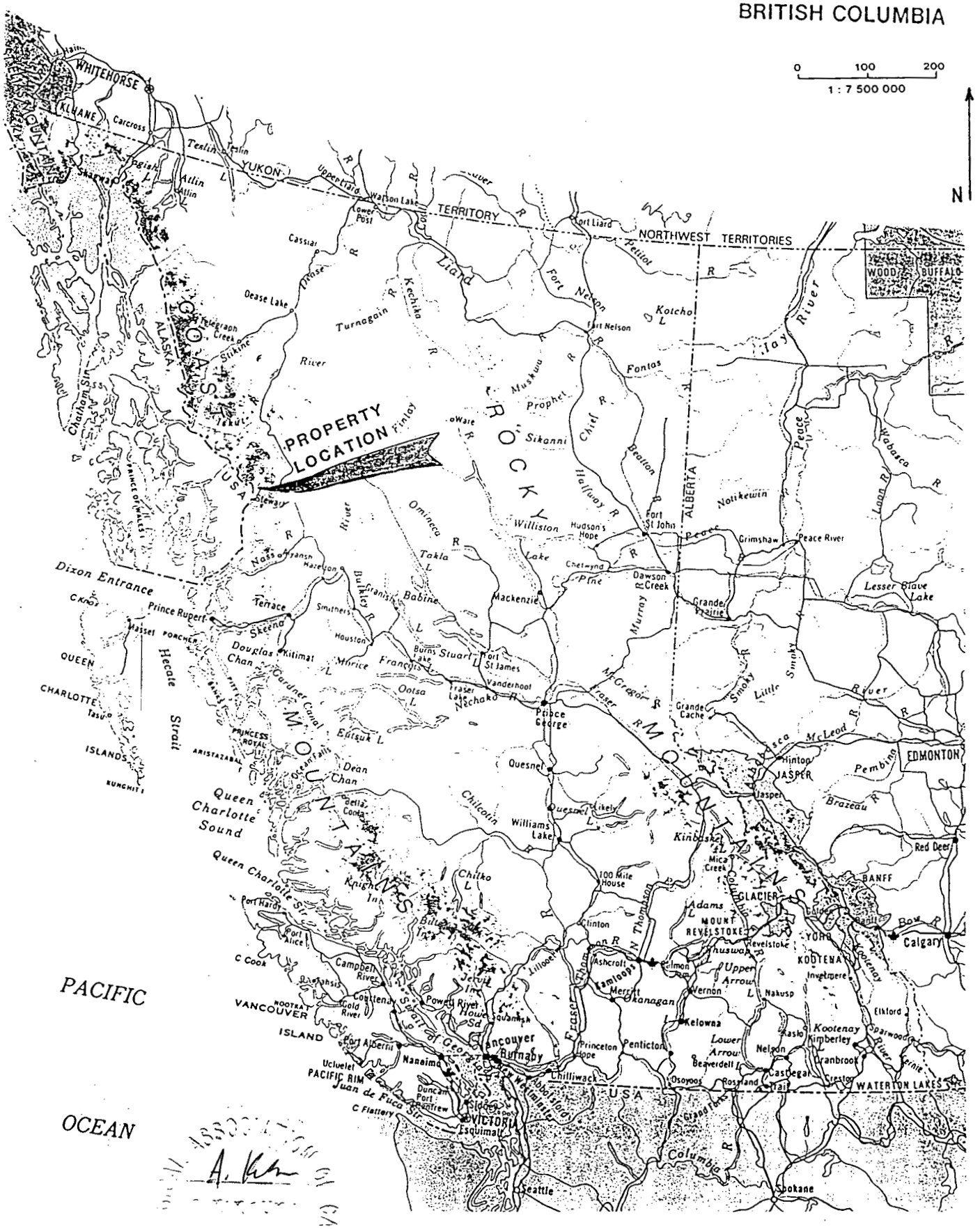


FIGURE 1
LOCATION MAP

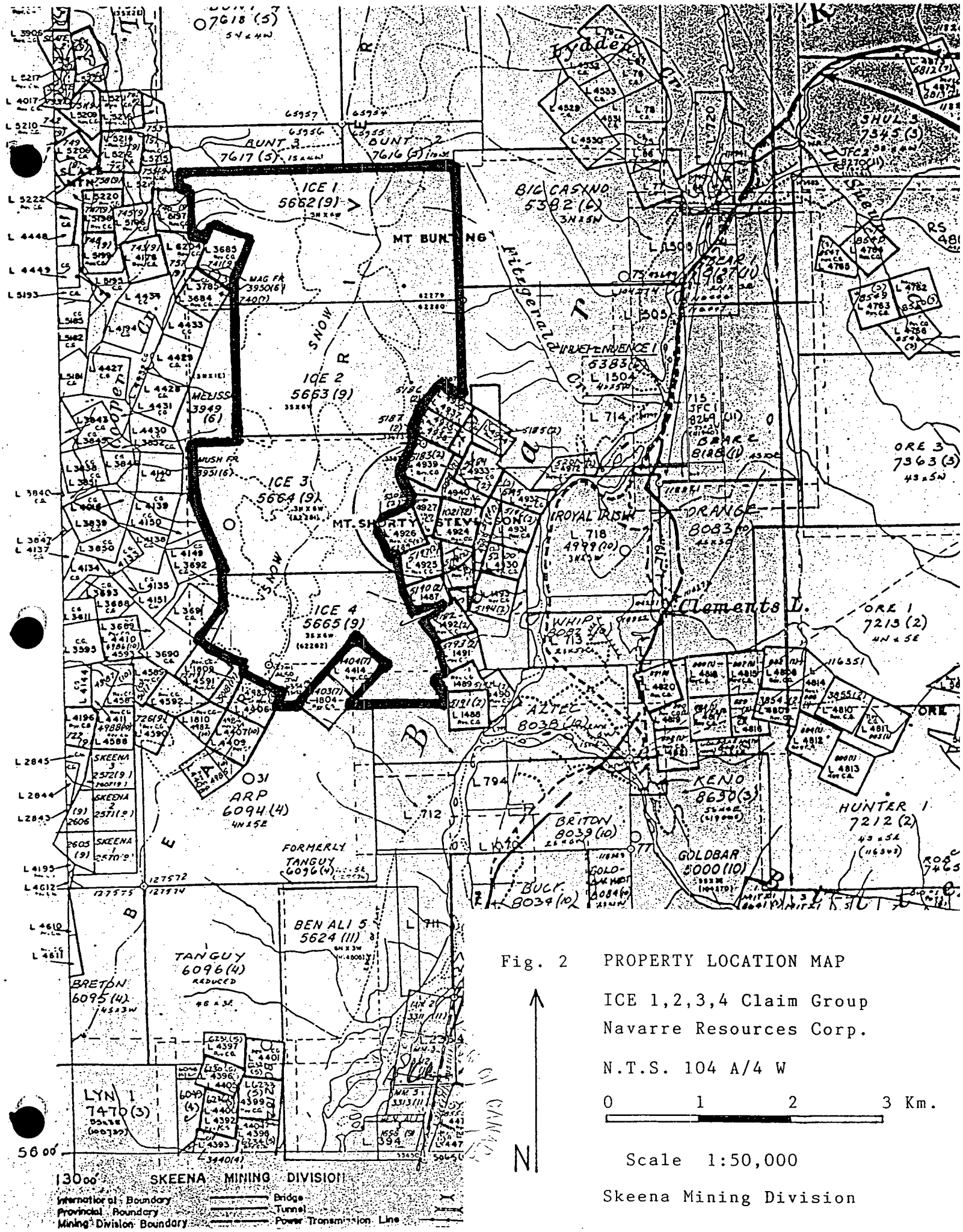


Fig. 2 PROPERTY LOCATION MAP

ICE 1,2,3,4 Claim Group
Navarre Resources Corp.

N.T.S. 104 A/4 W

0 1 2 3 Km.

Scale 1:50,000

Skeena Mining Division

Crown Grants

ICE 1

ICE 2

ICE 2

ICE 3

Axis of Bear R. Ridge

Crown Grants

Mt. Shorty Stevenson

I-90-1
-55

ICE 3

ICE 4

DIAMOND DRILL HOLE-SOIL SAMPLE LOCATIONS FIG. 3

Navarre Resources Corp. Aug., 1990

Diamond drill hole

Soil sample

L.C.P.

0 0.1 0.2 0.3 Km.

N

Scale 1:10,000

Crown Grants

ICE 1

ICE 2

L 5+00N
L 4+00N
L 3+00N
L 2+00N
L 1+00N
L 0+00N
L 1+00S
L 2+00S
L 3+00S
L 4+00S
L 5+00S
L 6+00S
L 7+00S
L 8+00S
L 9+00S
L 10+00S

AREA COVERED BY PULSE-EM GEOPHYSICAL SURVEY

ICE MAIN GRID →

HUB

Baseline

ICE 2

ICE 3

ICE B GRID

L 4+50W

L 4+50W
L 3+50W
L 2+50W
Baseline
L 1+00W
HUB
L 0+00E
Mt. Shorty Stevenson
L 0+25S
Baseline
1+50S
L 2+50E
L 3+50E
L 3+00E
L 4+00E

Crown Grants

ICE 3

ICE 4

L 6000 Ft.

L 5,500 Ft.

SOIL SAMPLE LOCATIONS, GRID LOCATIONS-ICE CLAIMS

Navarre Resources Corp.- Aug., 1990

LEGEND

Scale 1:10,000

SOIL SAMPLE (grid line)

Limit of ice (1977 air photo)

Axis of Bear R. Ridge

L.C.P.

N

0 0.3K

N.T.S. 104 A/4 W

Fig. 4

20429

ICE MAIN GRID

Bear R. Ridge

Grid Baseline

L 9+00S

L 10+00S

52516
52515
52514
70
52513 Q.V.
52512
ga.
sp.
py.

Quartz - Sulphide Vein Zone

Quartz - Sulphide Replacement Zone

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52510	Main Grid	1·00E 0·00N	1.4	Bleached,silicified,pyritic (5%)	0.03	1.1	0.0	0.0	0.0
52511	"	0·00N 1·15E	1.0	" " "	0.03	1.7	0.0	0.0	0.0
52512	"	4·75W 9·75S	0.3	Qua[illegible] bx.,tr.sp.	0.29	32.1	0.0	0.04	0.3
52513	"	4·50W 9·50S	0.4	Qtz.vn.20%ank.5%ga.sp.(az.330,dip 75W)	0.18	32.6	0.1	6.84	1.48
52514	"	4·50W 9·00S	0.3	" " 20%ga.sp. "	0.06	46.4	0.07	15.62	8.21
52515	"	4·75W 8·75S	0.5	" " " "	0.07	60.5	0.05	21.46	1.66
52516	"	4·70W 8·60S	1.0	Qtz.vn.shear zone,tr.ga.sp.	0.38	39.8	0.16	0.06	0.3

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52517	Ice B Grid	0·00W 1·50S	float	Calcareous sst.,5% ank.,Mn-oxides	0.03	2.1	0.01	0.01	0.03
52518	"	3·50E 2·12S	0.8	Quartz(carbonate) vein,1% py.	0.03	205.6	0.01	0.02	0.01
52519	"	3·20E 2·12S	1.0	" " ,10% py.	0.03	10.9	0.01	0.01	0.01
52520	"	4·00E 2·90S	0.5	" " ,60% py.	0.03	11.3	0.01	0.01	0.02
52521	"	4·10E 3·15S	float	" " ,30% py.	0.03	11.8	0.01	0.01	0.01
52522	"	3·25 E 2·20S	float	" " ,5% ank.,tr.ga.	0.03	9.9	0.01	0.12	0.19
52523	"	3·00E 1·70S	"	" " ,5% tetrahedrite	0.03	14.1	4.12	0.01	0.02
52524	"	3·10E 1·70S	0.7	Quartz-pyrite(5%)-sericite	0.03	4.3	0.01	0.02	0.01
52525	"	3·14E 1·68S	1.0	Carbonaceous qtz.py.,ser.	0.03	6.3	0.01	0.01	0.01
52526	"	3·10E 1·79S	0.4	Py.vn. (60% py.	0.09	22.2	0.01	0.11	0.22
52527	"	3·08E 1·77S	1.0	Qtz.-py.-ser.	0.06	25.3	0.01	0.07	0.24
52528	"	2·88E 2·21S	0.6	Carbonaceous qtz.,1% py.	0.18	61.8	0.01	0.13	0.32
52529	"	2·65E 2·22S	0.1	" " "	0.05	99.4	0.01	0.01	0.05
52530	"	2·90E 2·50S	0.1	" " "	0.08	27.2	0.02	0.08	0.11

L 2+50W

L 1+00W

Grid Baseline

Mt. Shorty Stevenson

Hub

52533

52517

Grid Baseline 1+50S

L 3+00E

L 3+50E

L 4+00E

ICE B GRID

py

52523

52518

ga. sp.

py

52528

52524

52525

52529

52519

graph.

52530

52522

52531

52526,27

52532

50

60

py.

Q.V.

60

52542

Q.V.

70

52541

Q.V.

70

52520

52521

52545

52546

Quartz - Sulphide Replacement Zone

Quartz - Sulphide Vein Zone

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52531	Ice B Grid	3·00E 2·70S	0.4	graphite,3% py.,Mn-oxide	0.06	19.7	0.01	0.32	0.57
52532	"	3·00E 2·80S	0.3	" "	0.03	32.0	0.01	0.03	0.08
52533	"	0·75W 1·30S	float	Calcareous sst.,10% ank.	0.03	0.7	0.01	0.04	0.03
52541	"	4·50S 0·00W	0.1	Qtz.py.vn. in conglomerate host	0.05	12.9	0.01	0.01	0.01
52542	"	4·20S 0·25E	0.1	Qtz.,sp.,ga.	0.08	59.8	0.01	3.86	0.6
52545	"	4·00E 0·70S	0.7	Qtz.vn.,5% ga.sp.	2.93	896.0	0.01	1.35	7.56
52546	"	4·00E 1·25S	float	Coarse massive galena	0.12	396.0	0.01	69.28	1.44

ICE 3

ICE 4

LCP for ICE 3 500 m.

ICE 4

TRENCH LOCATIONS, CHANNEL SAMPLE LOCATIONS

Ice Claim Group- Navarre Resources Corp., Aug.,1990

LEGEND

× Float sample

Trench sample

Fault

Vein

Q.V. Quartz vein
py. Pyrite
ga. Galena
sp. Sphalerite
graph. Graphite

Scale 1:5,000

0 0.3K

N

N.T.S. 104 A/4 W

Fig. 5

Fig. 6 CLAIM GEOLOGY- ICE CLAIM GRP.
Navarre Resources Corp.- Aug.,90

LEGEND

Intrusive Rocks (Tertiary)

3a Dacitic dykes,1-5% hornblende

Sediments and Volcanics(Lower and middle Jurassic)

2d Rhyolite-dacite mixed tuff
2c Argillaceous siltstone,sandstone
2b Andesite-dacite tuffs/flows
2a Rhyodacite, tuffs/flows, chert

1d Bleached,altered country rock, secondary silica, sericite, diss. and vein sulphides
1c Argillaceous siltstone,sandstone
1b Conglomerate,volcanic breccia
1a Sandstone, tuffaceous sandstone siltstone, red and green colour minor carbonate.

Fault ..... Limit of ice

Outline of mapped outcrop

Crown Grants

ICE 1
ICE 2
ICE 3
ICE 4

Axis of Bear R. Ridge

Grid Baseline

Mt. Shorty Stevenson

LEGEND (Cont.)

Bedding
Vein
L.C.P.

py. Pyrite
sp. Sphalerite
ga. Galena
jasp. Jasper
graph. Graphite
ser. Sericite
Q.V. Quartz vein
hem. Hematite

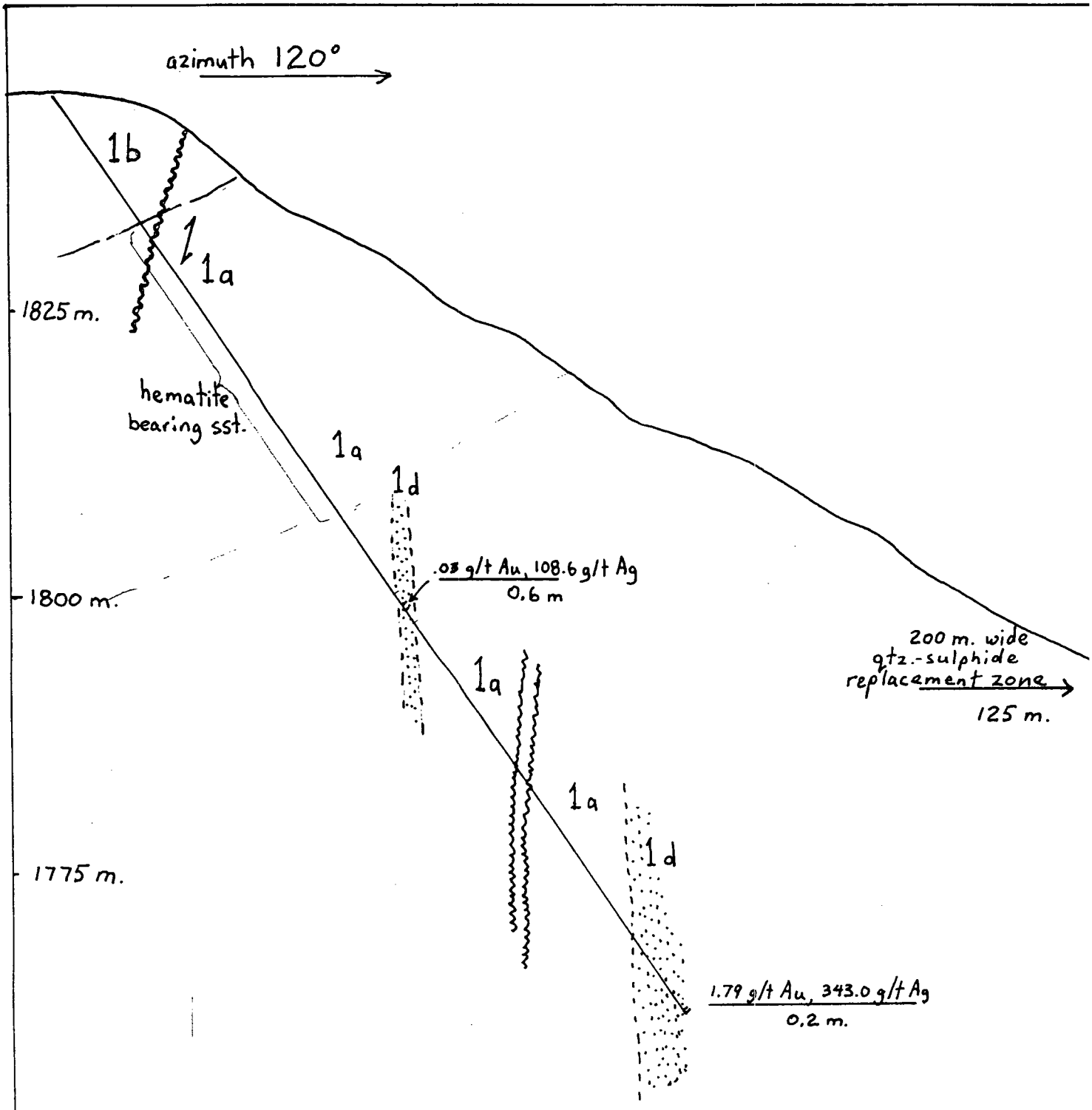
N

Scale 1:10,000

0 0.1 0.2 0.3 Km

N.T.S. 104 A/4 W
Skeena, M.D.

20429



Diamond Drill Hole Cross Section - Ice Claim Group - I-90-1

Navarre Res. Corp. - Aug., 1990

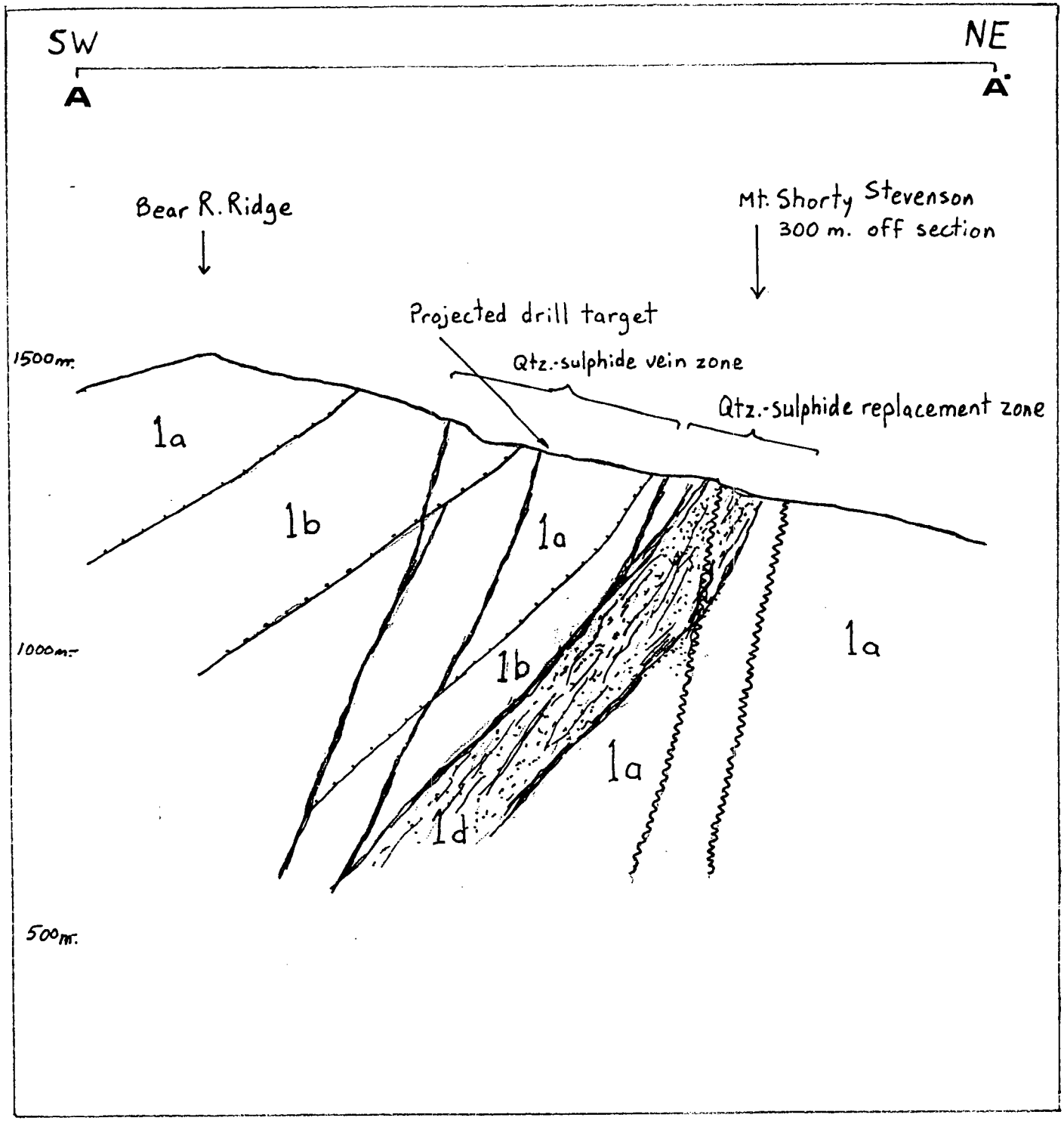
0 10 20 30 m.

Scale 1:500

Legend

- Foliation
- Fault
- Disseminated sulphides

Fig. 7



SW - NE CROSS - SECTION 300 m. SE OF MT. SHORTY STEVENSON

Legend

Lithological contact

Qtz.-sulphide vein

Disseminated sulphides

Fault

0 0.1 0.2 0.3 K

Scale 1:10,000

Fig. 8

Crown Grants

ICE 1

ICE 2

L 5+00N

L 4+00N

L 3+00N

L 2+00N

L 1+00N

L 0+00N

L 1+00S

ICE MAIN GRID

HUB

Baseline

L 2+00S

L 3+00S

L 4+00S

L 5+00S

L 6+00S

L 7+00S

L 8+00S

L 9+00S

L 10+00S

ICE 2

ICE 3

ICE B GRID

L 4+50W

Crown Grants

L 4+50W

L 3+50W

L 2+50W

Baseline

L 1+00W

L 0+00E

Mt. Shorty Stevenson

L 3+00E

Lot 2S

Baseline 1+50S

L 4+00E

L 2+50E

L 3+50E

ICE 3

ICE 4

L 6000 ft

L 5,500 ft.

SOIL SAMPLE LOCATIONS, GRID LOCATIONS-ICE CLAIMS

Pb Navarre Resources Corp.- Aug., 1990

LEGEND

Scale 1:10,000

SOIL SAMPLE (grid line)

500-1999 ppm Pb (5.8% of total)

2000-49228 ppm Pb (6.6% of total)

L.C.P.

N.T.S. 104 A/4 W

N

0 0.3K

Fig. 9

Crown Grants

ICE 1

ICE 2

L 5+00N

L 4+00N

L 3+00N

L 2+00N

L 1+00N

L 0+00N

L 1+00S

ICE MAIN GRID

HUB

Baseline

L 2+00S

L 3+00S

L 4+00S

L 5+00S

L 6+00S

L 7+00S

L 8+00S

L 9+00S

L 10+00S

ICE 2

ICE 3

ICE B GRID

M 05+45N

Crown Grants

L 4+50W

L 3+50W

L 2+50W

L 1+00W

HUB

L 0+00E

Baseline

Mt. Shorty Stevenson

Lot 25

1+50S

L 3+00E

L 4+00E

L 2+50E

L 3+50E

ICE 3

ICE 4

L 6000 ft

L 5500 ft

SOIL SAMPLE LOCATIONS, GRID LOCATIONS-ICE CLAIMS

Zn Navarre Resources Corp.- Aug., 1990

LEGEND

Scale 1:10,000

SOIL SAMPLE (grid line)

1000-5000 ppm Zn (9.9% of total)

5001-65207 ppm Zn (4.9% of total)

L.C.P.

N.T.S. 104 A/4 W

N

0 0.3K

Fig. 10

Crown Grants

ICE 1

ICE 2

L 5+00N

L 4+00N

L 3+00N

L 2+00N

L 1+00N

L 0+00N

L 1+00S

ICE MAIN GRID

HUB

Baseline

L 2+00S

L 3+00S

L 4+00S

L 5+00S

L 6+00S

L 7+00S

L 8+00S

L 9+00S

L 10+00S

ICE 2

ICE 3

ICE B GRID

L 4+50W

L 3+50W

L 2+50W

Baseline

L 1+00W

L 0+00E

Mt. Shorty Stevenson

L 0+25S

Baseline

1+50S

L 2+50E

L 3+50E

L 4+00E

L 4+50E

Crown Grants

ICE 3

ICE 4

L 6000 ft

L 5,500 ft

SOIL SAMPLE LOCATIONS, GRID LOCATIONS-ICE CLAIMS

Ag Navarre Resources Corp.- Aug., 1990

LEGEND

Scale 1:10,000

SOIL SAMPLE (grid line)

10-20 ppm Ag (12.3% of total)

20.1-199.8 ppm Ag (12.3% of total)

L.C.P.

N.T.S. 104 A/4 W

N

0 0.3K

Fig. 11

Crown Grants

ICE 1

ICE 2

L 5+00N

L 4+00N

L 3+00N

L 2+00N

L 1+00N

L 0+00N

L 1+00S

ICE MAIN GRID

HUB

Baseline

L 2+00S

L 3+00S

L 4+00S

L 5+00S

L 6+00S

L 7+00S

L 8+00S

L 9+00S

L 10+00S

ICE 2

ICE 3

ICE B GRID

L 4+50W

L 3+50W

L 2+50W

Baseline

L 1+00W

HUB

L 0+00E

L 3+00E

Mt. Shorty Stevenson

L 0+00S

Baseline 1+50S

L 4+00E

L 2+50E

L 3+50E

L 4+50W

Crown Grants

ICE 3

ICE 4

L 6000 ft.

L 5,500 ft.

SOIL SAMPLE LOCATIONS, GRID LOCATIONS-ICE CLAIMS

Au Navarre Resources Corp.- Aug., 1990

LEGEND

Scale 1:10,000

SOIL SAMPLE (grid line)

100-254 ppb Au (11.6% of total)

255-1835 ppb Au (5% of total)

L.C.P.

N.T.S. 104 A/4 W

N

0 0.3K

Fig. 12

A.K.

APPENDIX A

Introduction

Surface "DEEPEM" PEM surveys were conducted by Scott Geophysics Limited, 4013 West 14th Avenue, Vancouver, on behalf of Navarre Resources on their Ice Claims and Silver Crown Grids, Stewart area, B.C.

Both the in - line and vertical component of the secondary magnetic field was measured as well as the Primary Pulse.

Equipment

A Standard 2000 Watt Crone Transmitter and Crone Digital Receiver were used for all surveys.

Survey Parameters

ICE CLAIMS

LOOP

3+00S TO 5+00N, 5+00E TO 9+00E
#12 AWG wire

Transmitter / Receiver Settings

Ramp	:	1.0ms
Time Base	:	8.33ms
Current	:	10 Amps
Stacking	:	2048
ZTS	:	1003.5
Sync.	:	Radio

L300S - 2+25W TO 4+00E
L200S - 2+75W TO 4+50E
L100S - 2+50W TO 4+50E
L0 - 2+00W TO 4+50E
L100N - 2+50W TO 3+50E
L250N - 2+75W TO 4+00E
L400N - 1+00W TO 4+50E

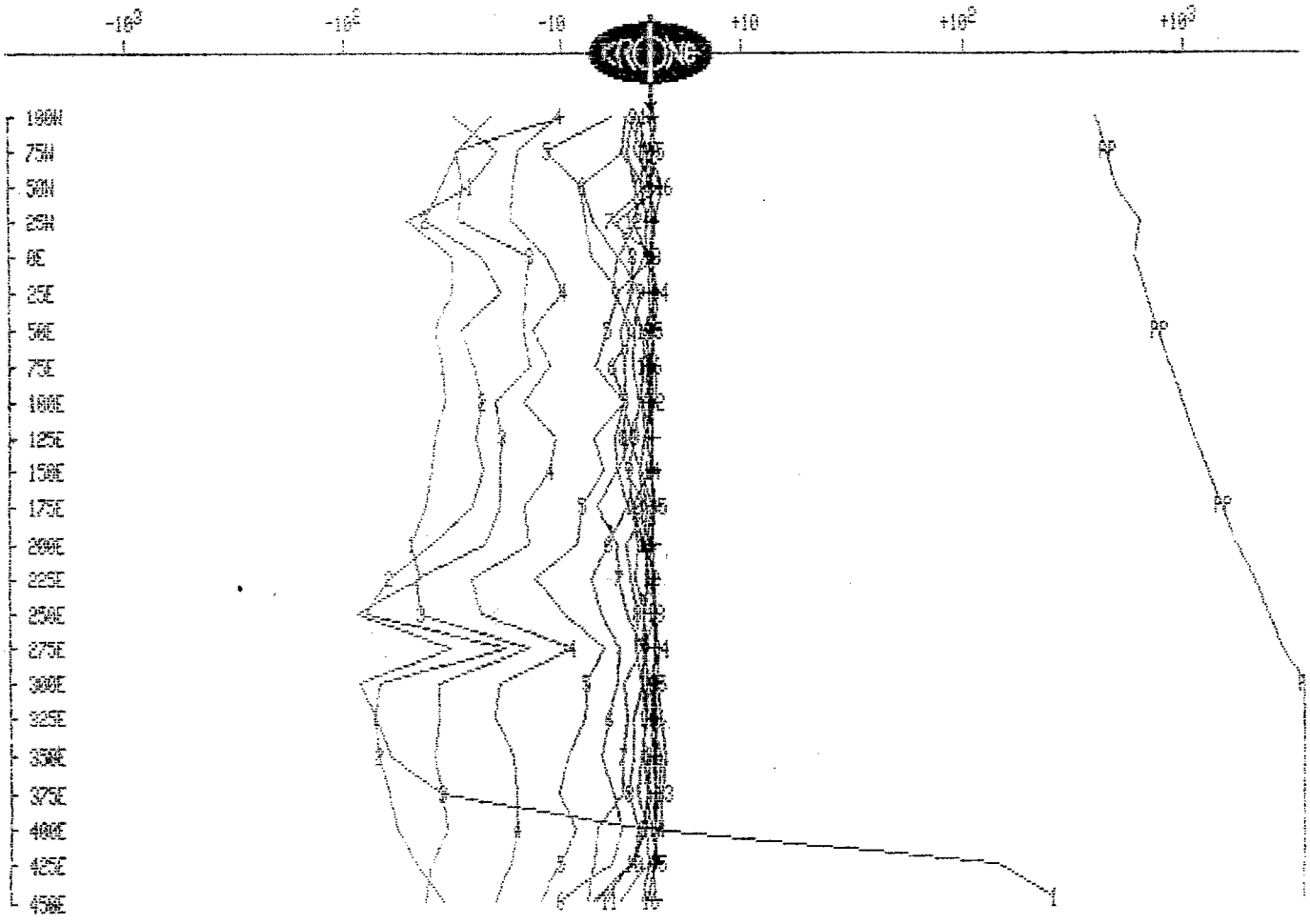
25m sample interval

Lines 200N and 300N were only about 50m apart. Line 200N was estimated to be midway between lines 100N and 400N so it was called 250N.

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L4N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L4NL1.PEM
Scale	: 1:5000		

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

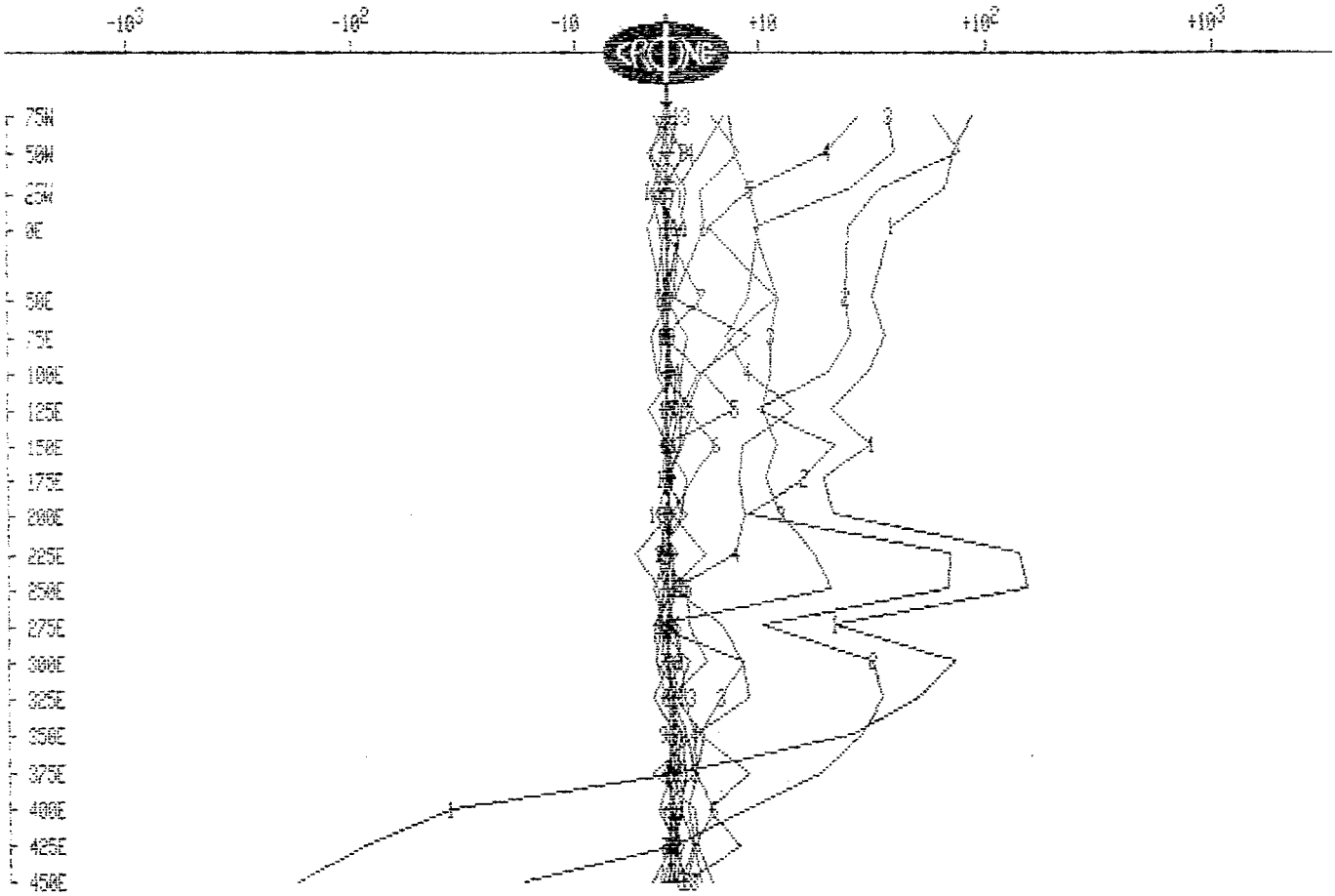


D

SURFACE PEM

Client	: WHITECHANNEL	Line	: L4N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L4NL1.PEM
Scale	: 1:5000		

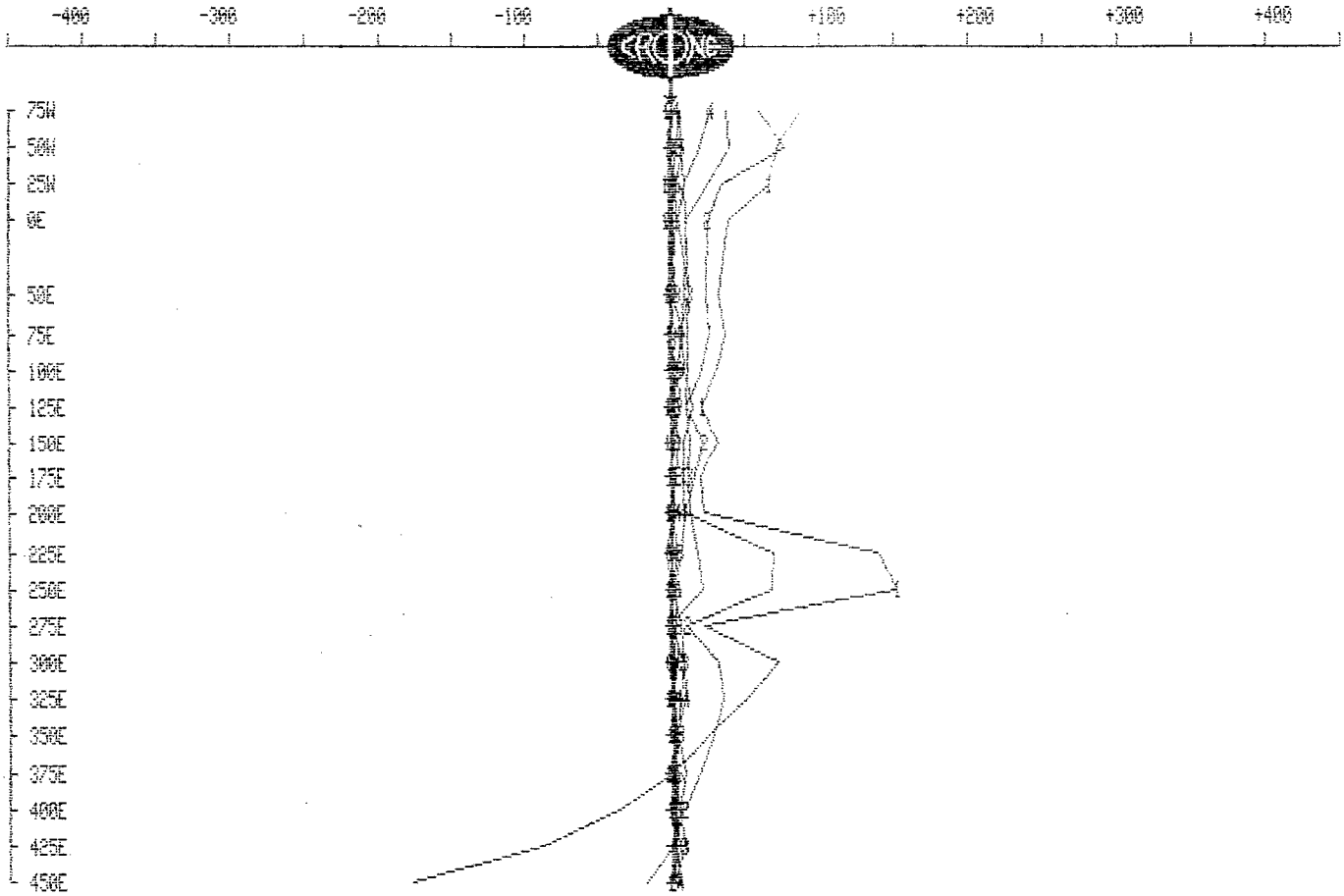
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L4N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L4NL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

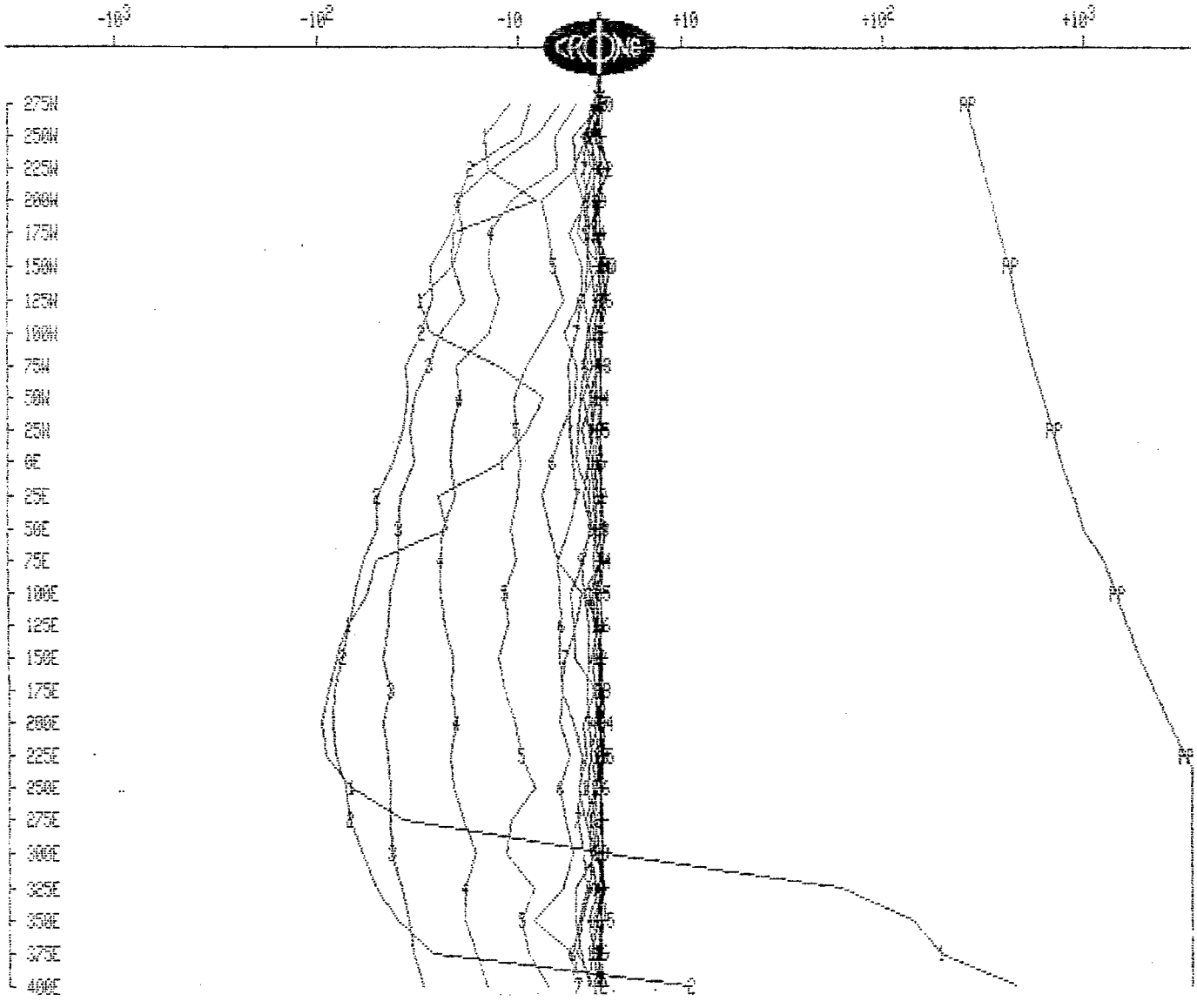
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L250N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L250NL1.PEM
Scale	: 1:5000		

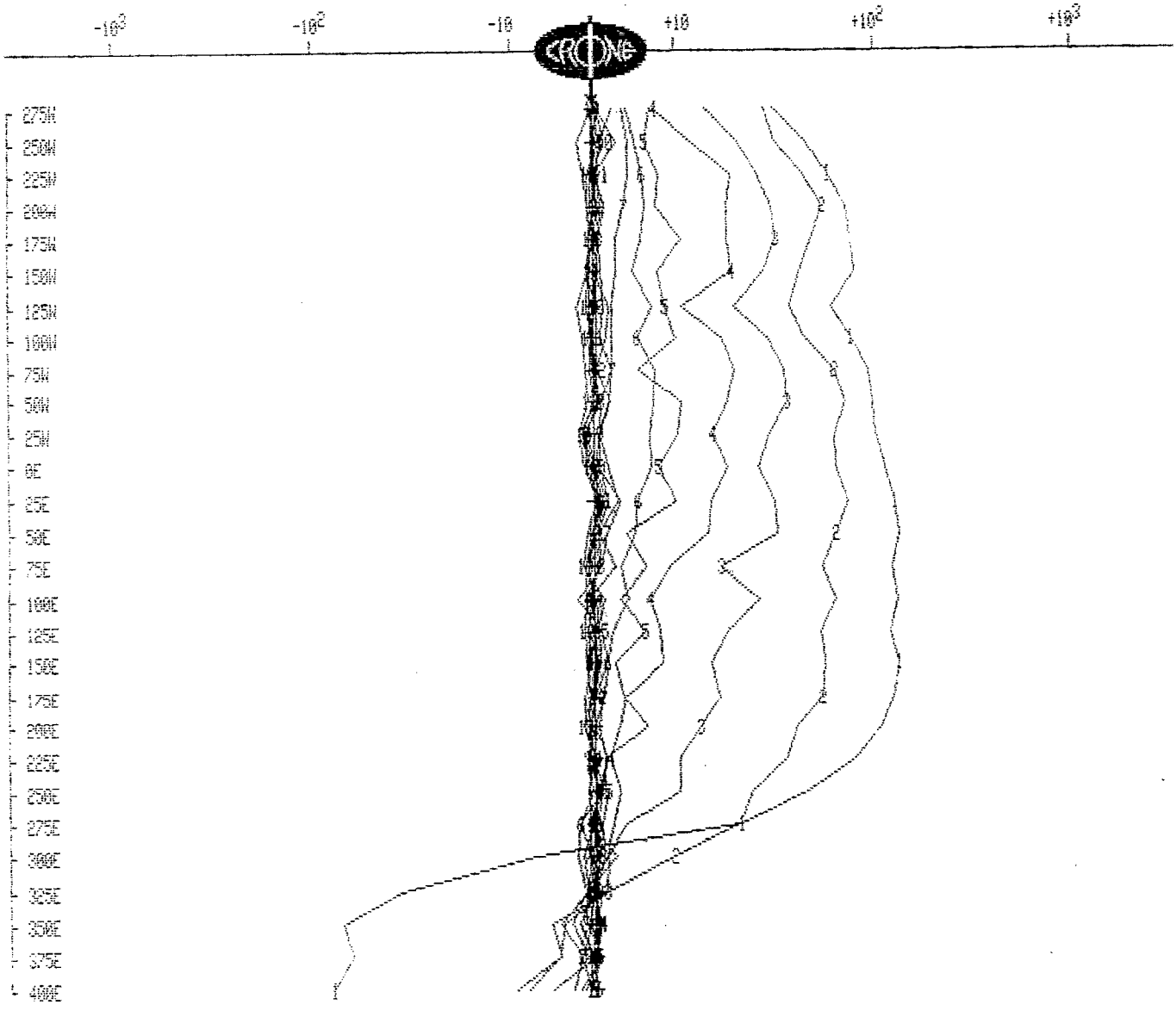
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP



CRONE GEOPHYSICS & EXPLORATION LTD.
SURFACE PEM

Client	: WHITECHANNEL	Line	: L250N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L250NL1.PEM
Scale	: 1:5000		

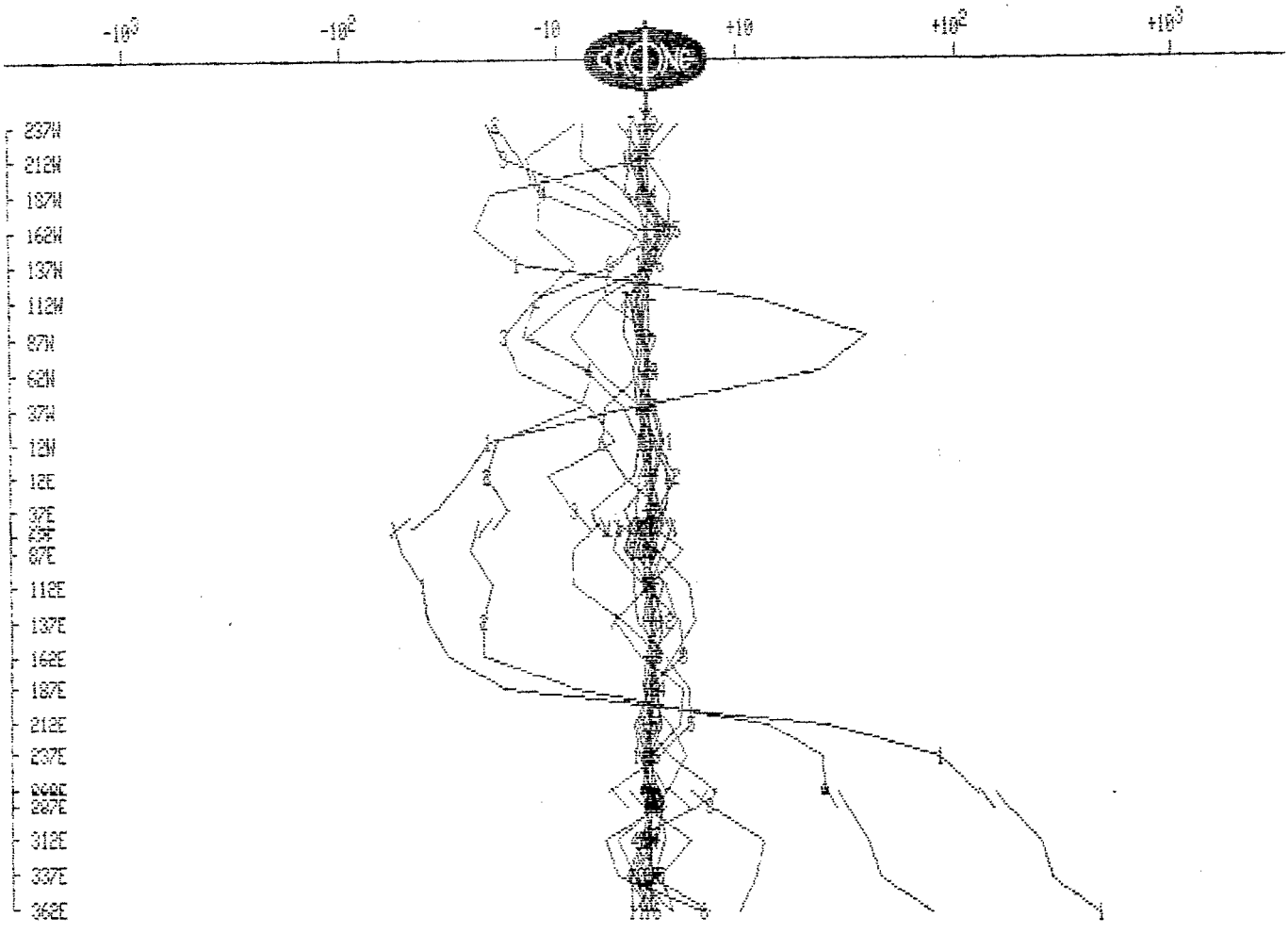
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L250N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L250NL1.PEM
Scale	: 1:5000		

25m FRASER FILTER
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels

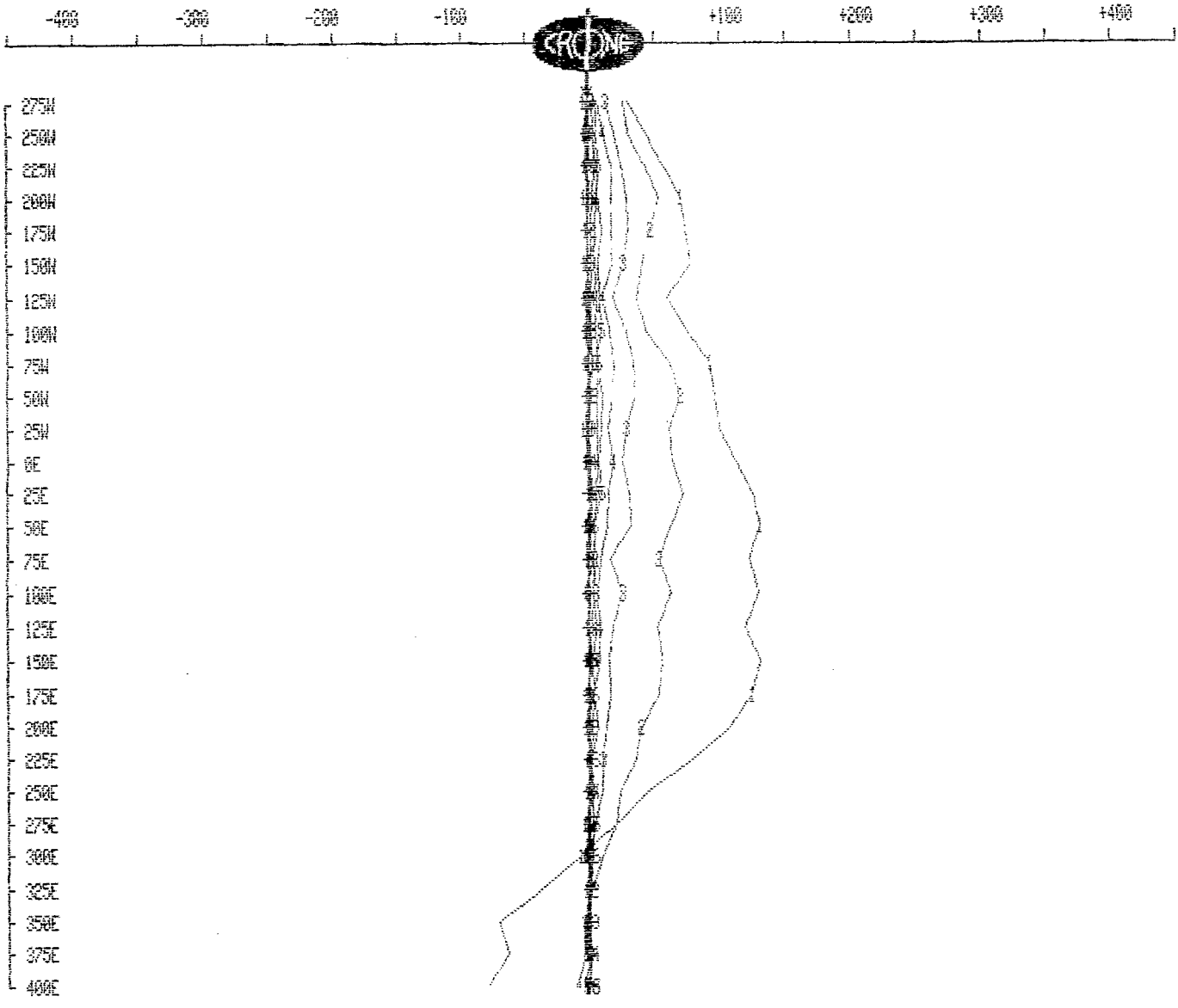


CRONE GEOPHYSICS & EXPLORATION LTD

SURFACE PEM

Client	: WHITECHANNEL	Line	: L250N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.88 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L250NL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

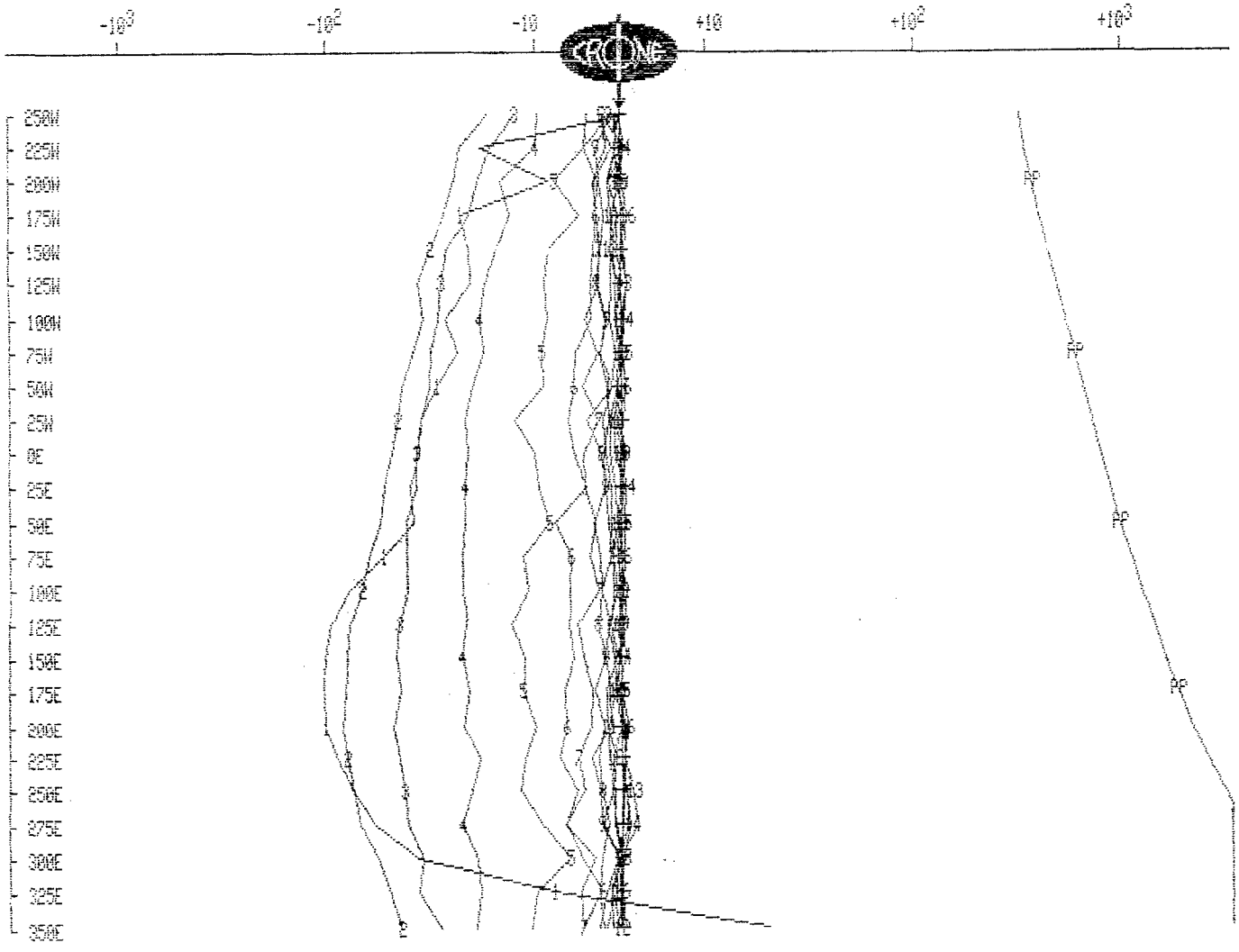
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



SURFACE PEM

Client	: WHITECHANNEL	Line	: L1N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L1NL1.PEM
Scale	: 1:5000		

VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP

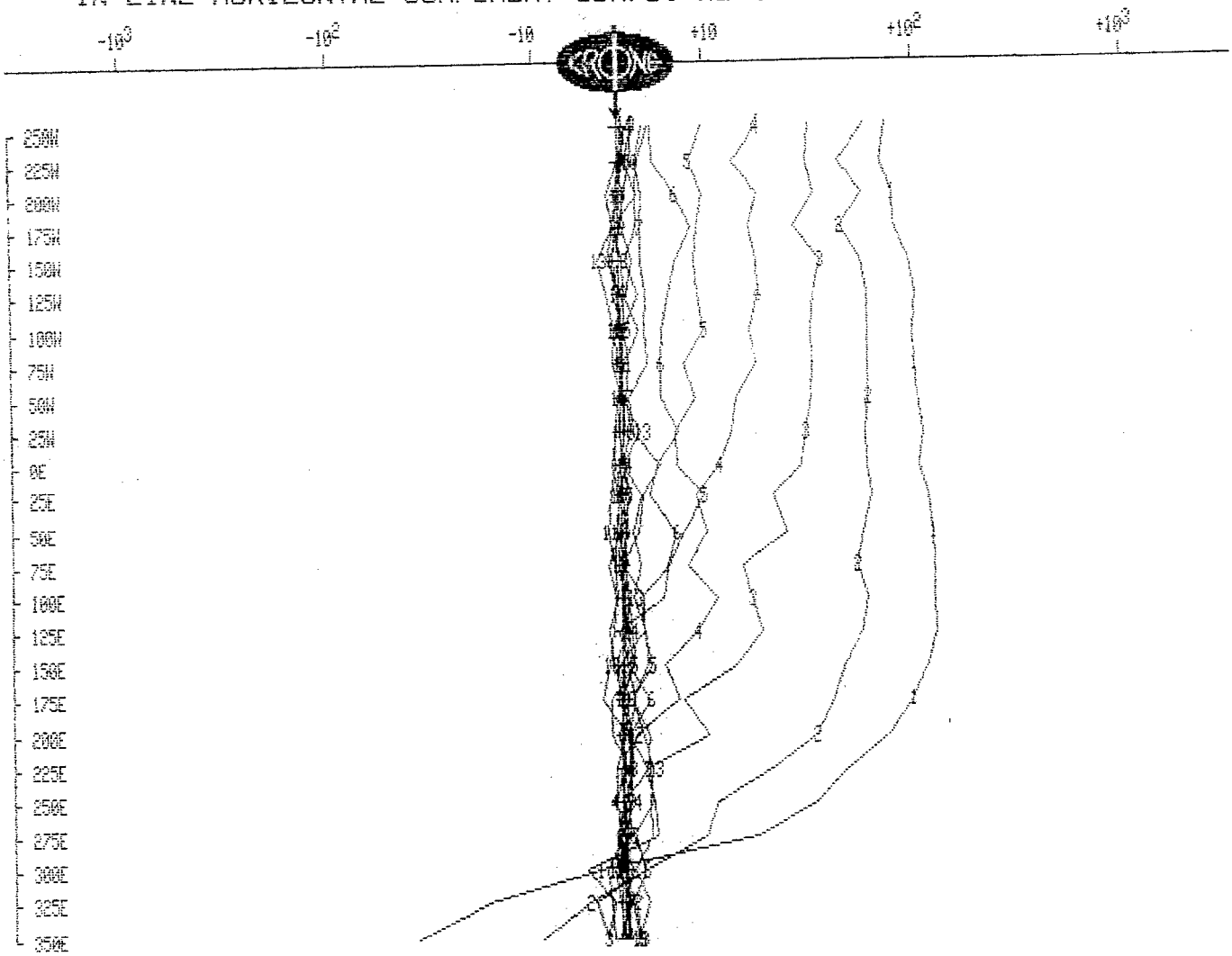


CRONE GEOPHYSICS & EXPLORATION LTD

SURFACE PEM

Client	: WHITECHANNEL	Line	: L1N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 18, 1990
Ramp Time	: 1.00 ms	File	: L1NL1.PEM
Scale	: 1:5000		

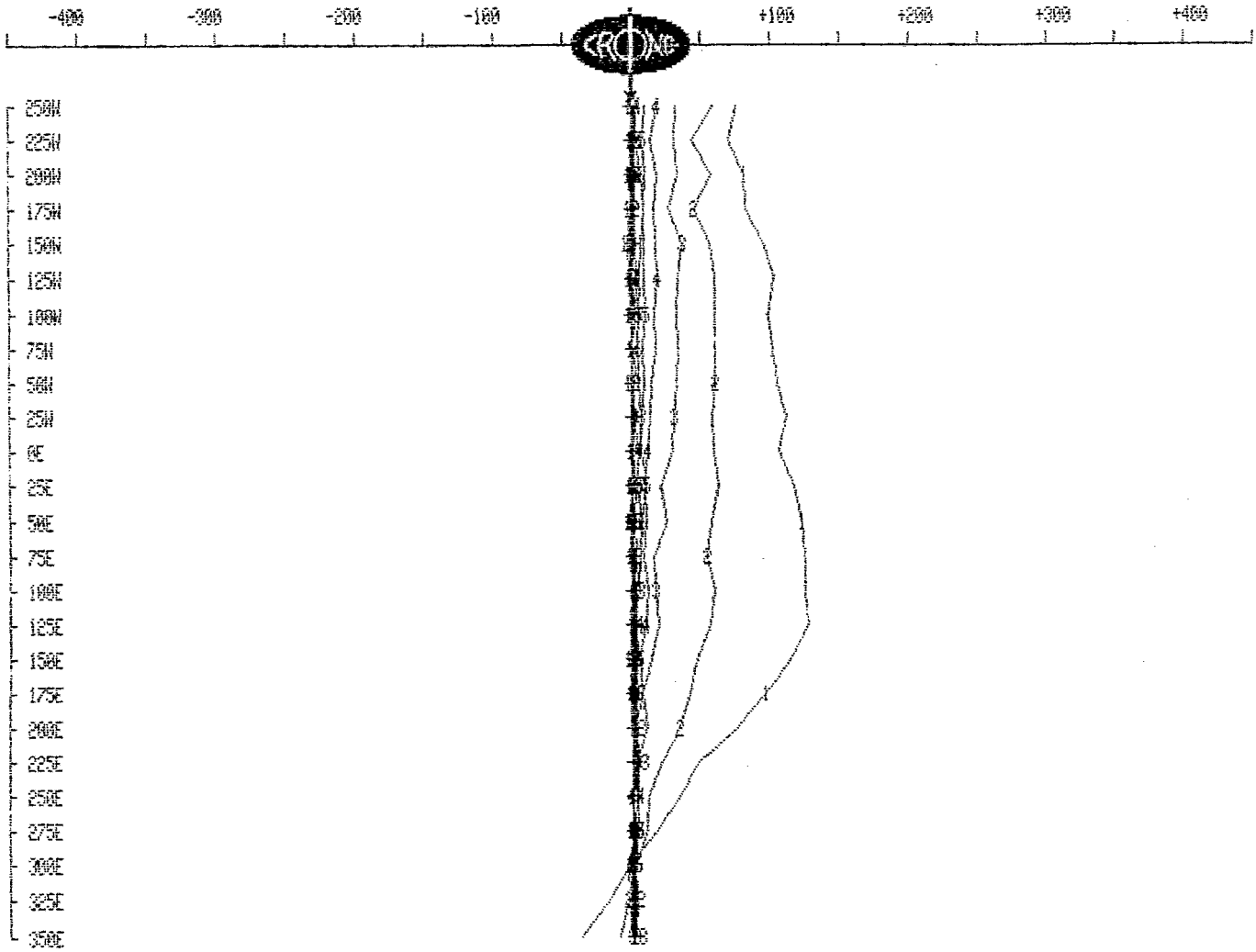
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L1N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L1NL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

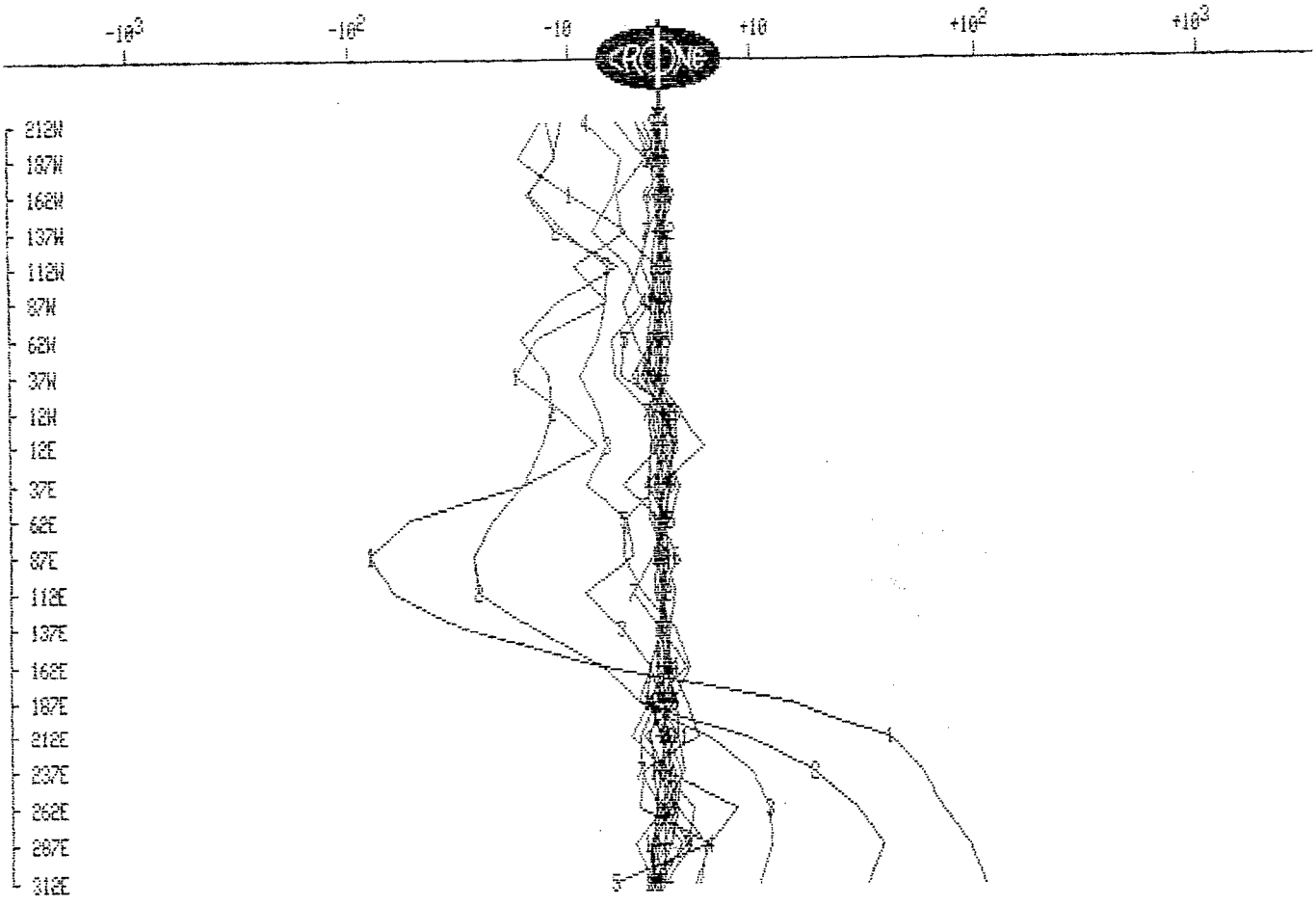
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L1N
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 13, 1990
Ramp Time	: 1.00 ms	File	: L1NL1.PEM
Scale	: 1:5000		

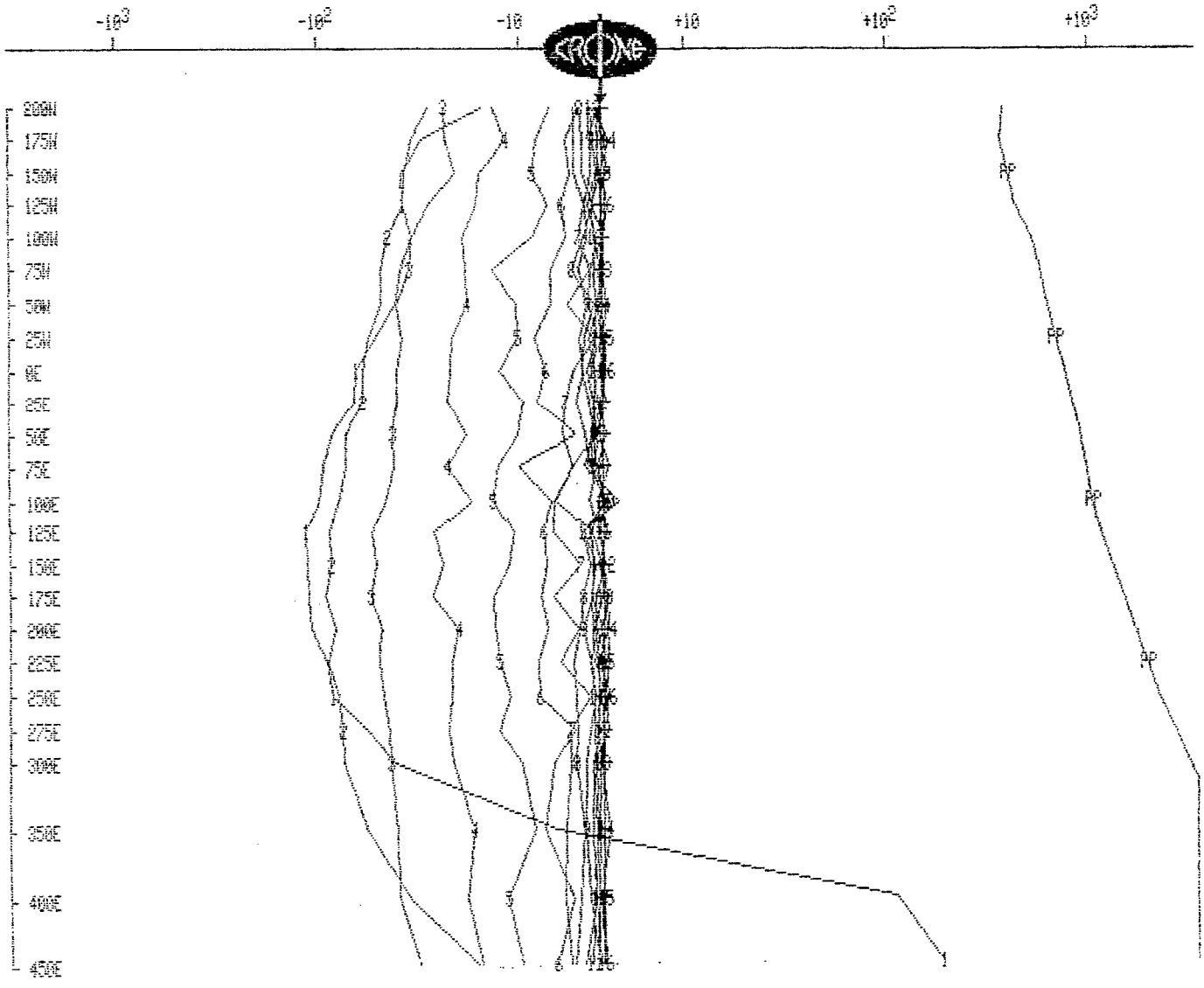
25m FRASER FILTER
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L0
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L0L1.PEM
Scale	: 1:5000		

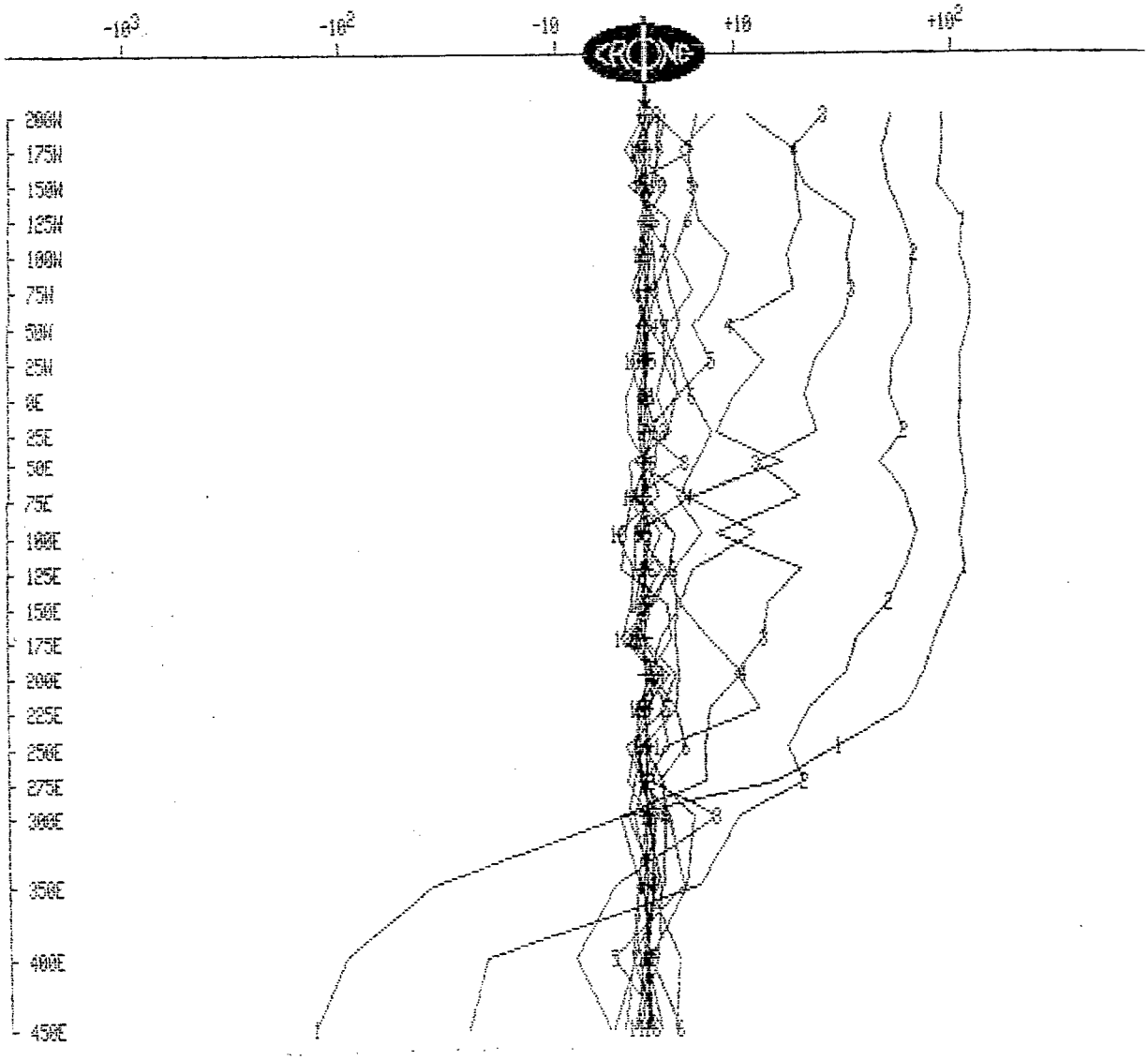
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP



CRONE GEOPHYSICS & EXPLORATION
SURFACE PEM

Client	: WHITECHANNEL	Line	: L0
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12
Ramp Time	: 1.00 ms	File	: L0L1.P
Scale	: 1:5000		

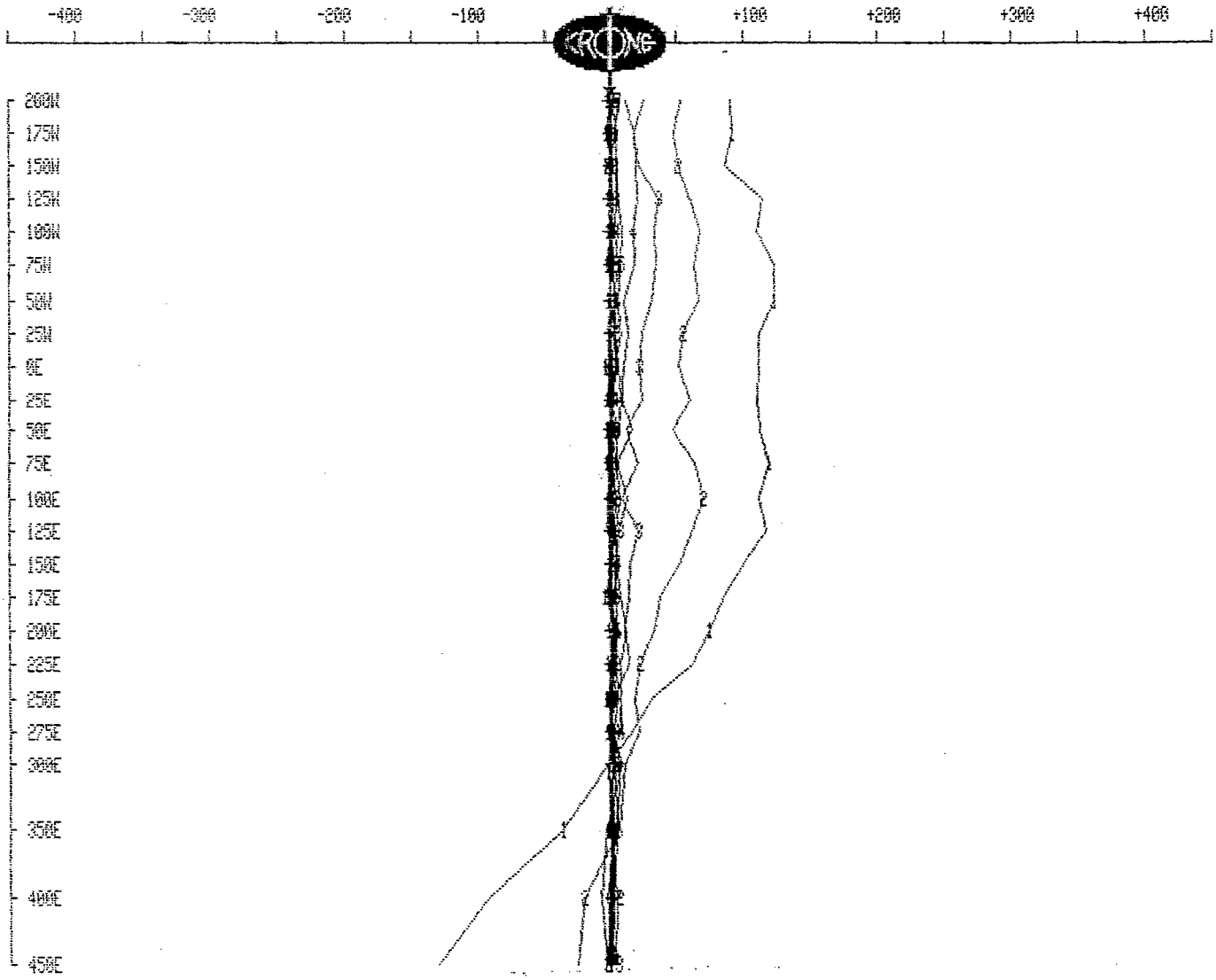
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 chan



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L0
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L0L1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

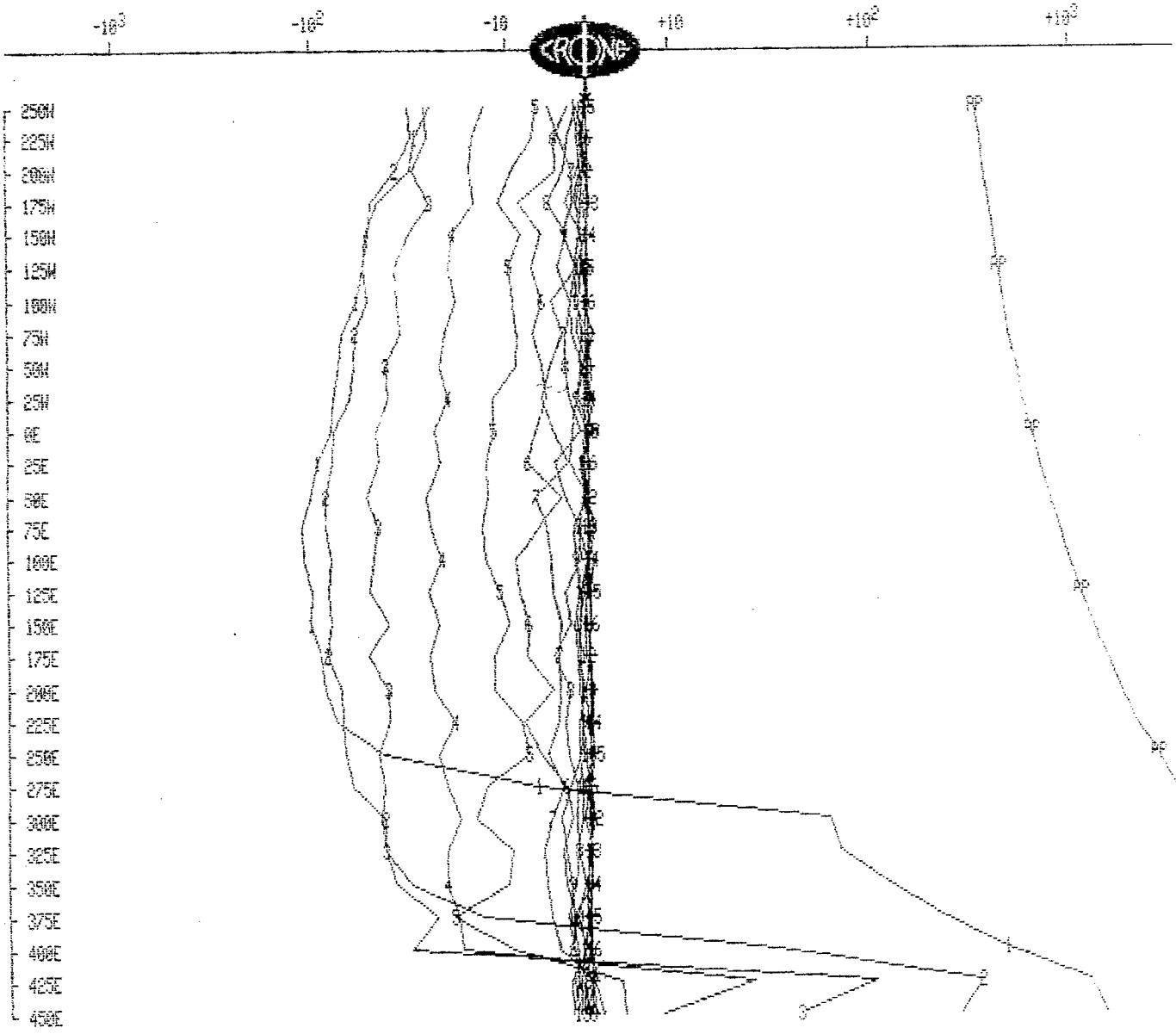
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



SURFACE PEM

Client	: WHITECHANNEL	Line	: L1S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L1SL1.PEM
Scale	: 1:5000		

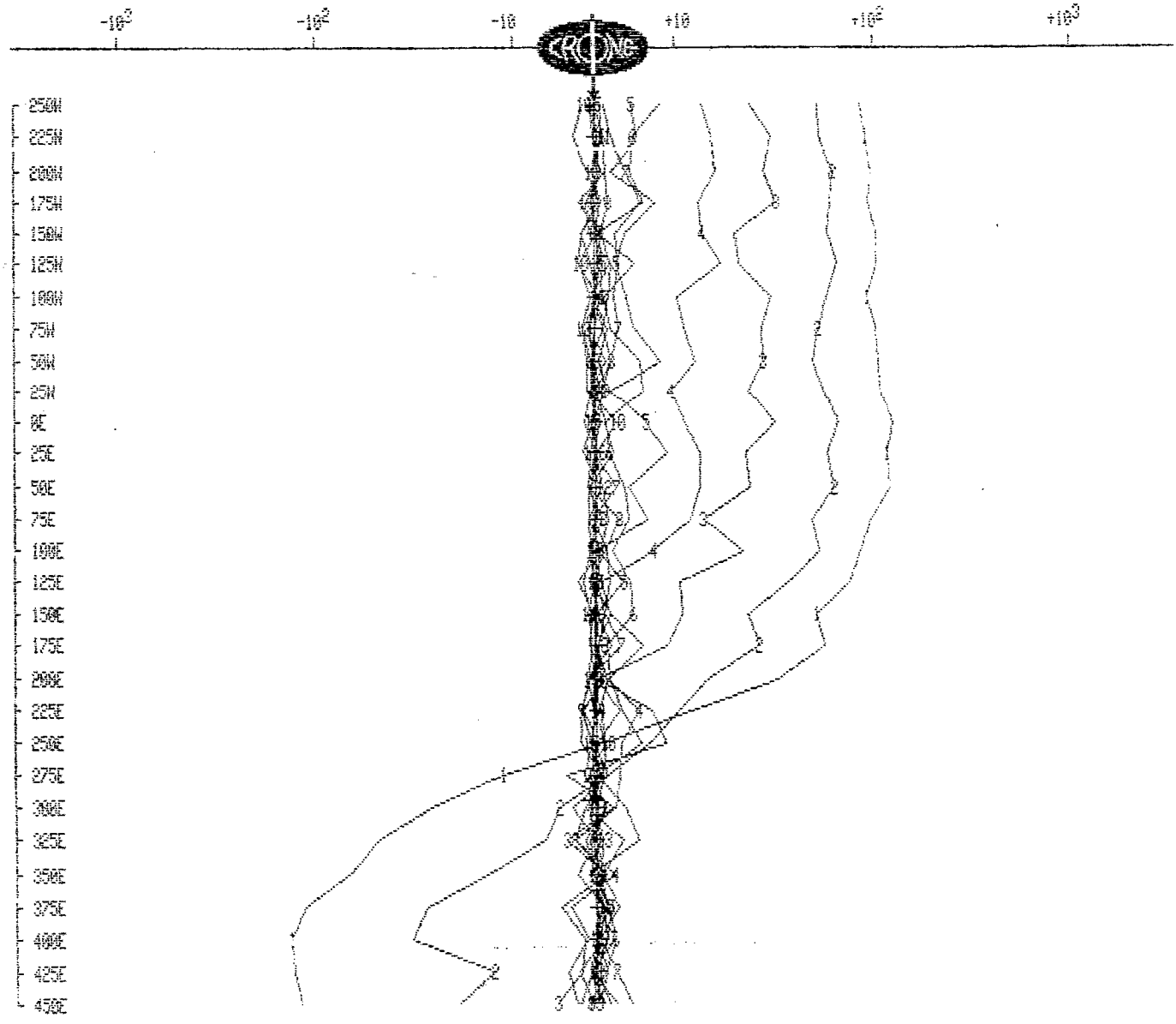
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L1S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 9.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L1SL1.PEM
Scale	: 1:5000		

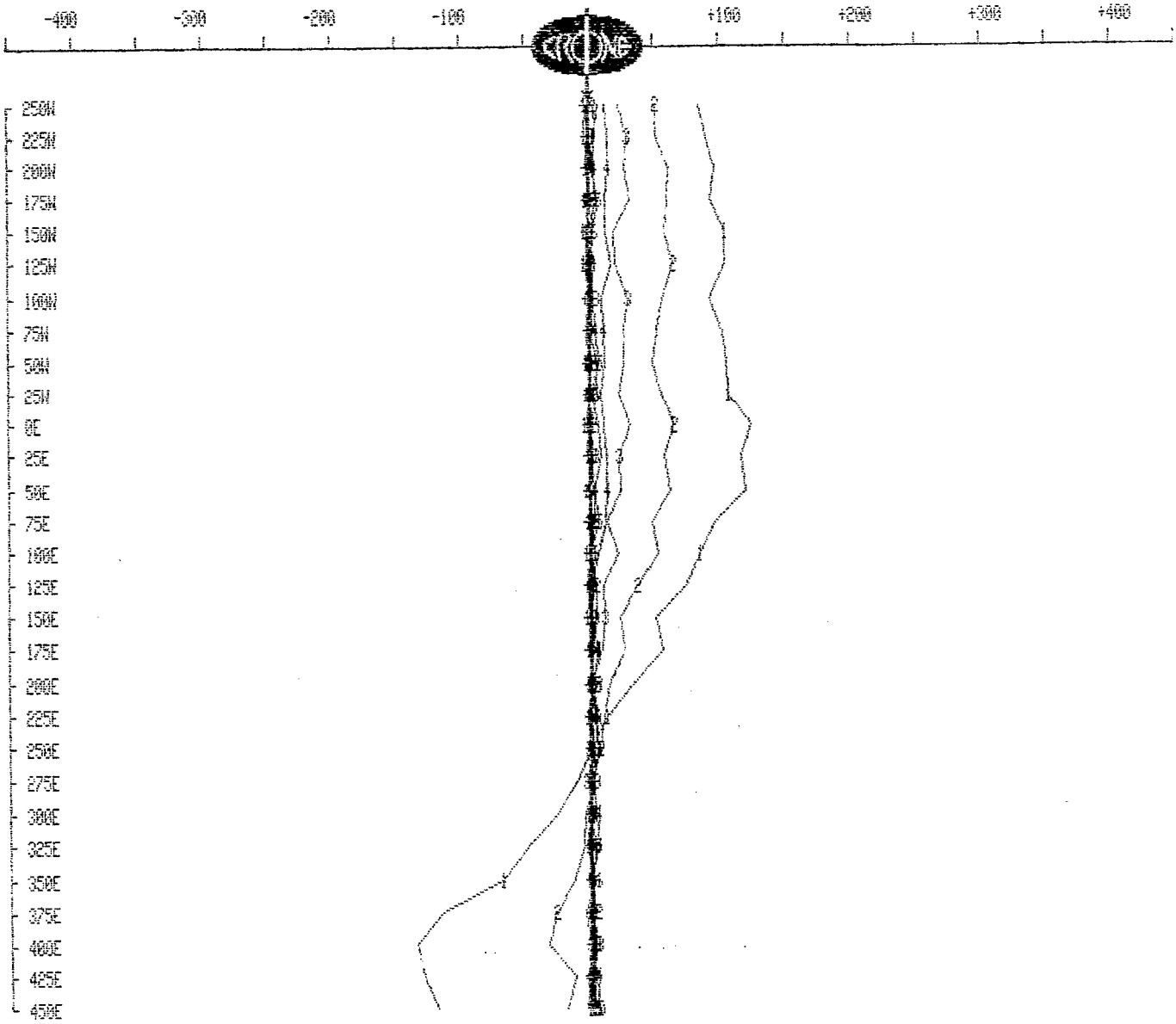
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L1S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L1SL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

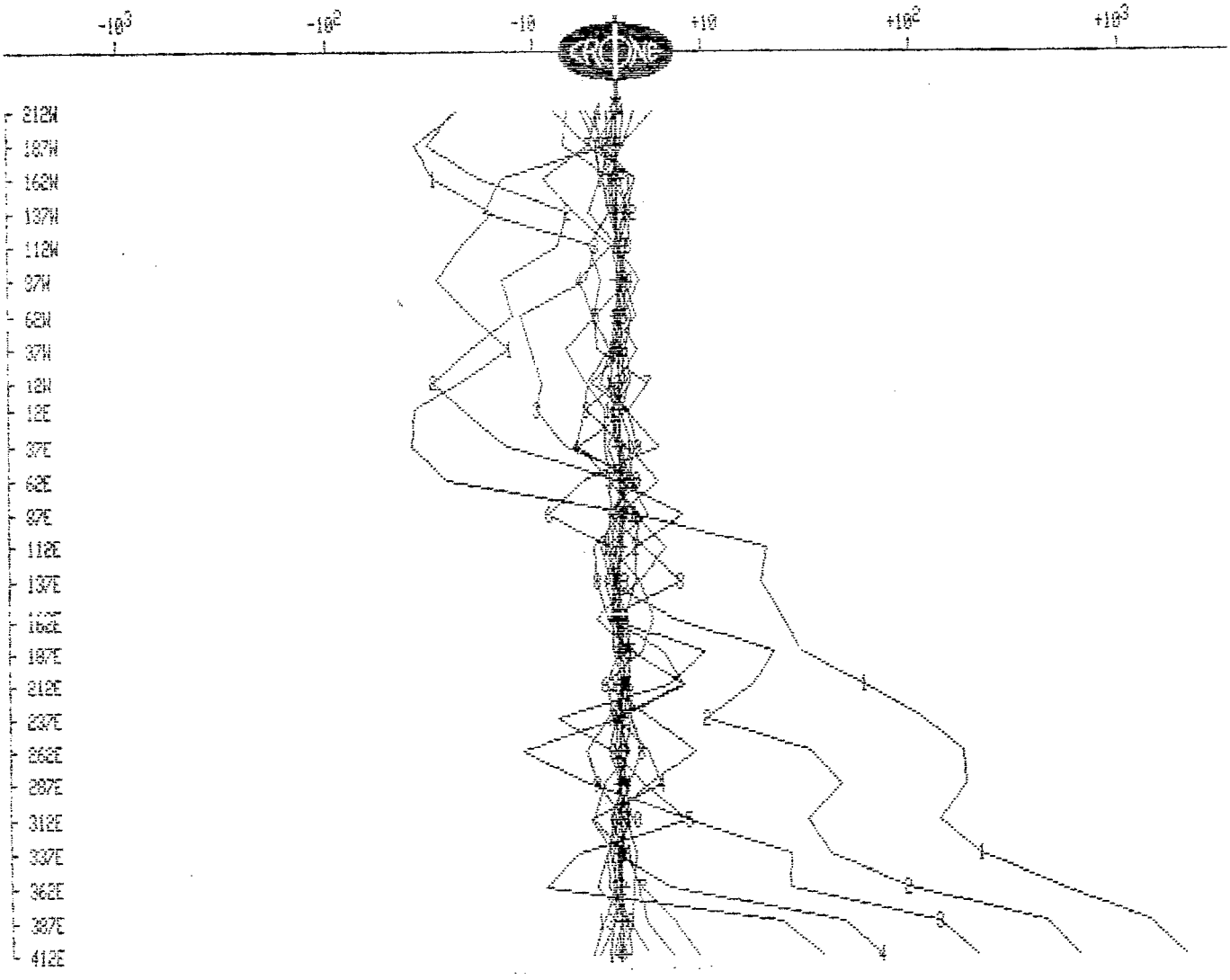
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L1S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L1SL1.PEM
Scale	: 1:5000		

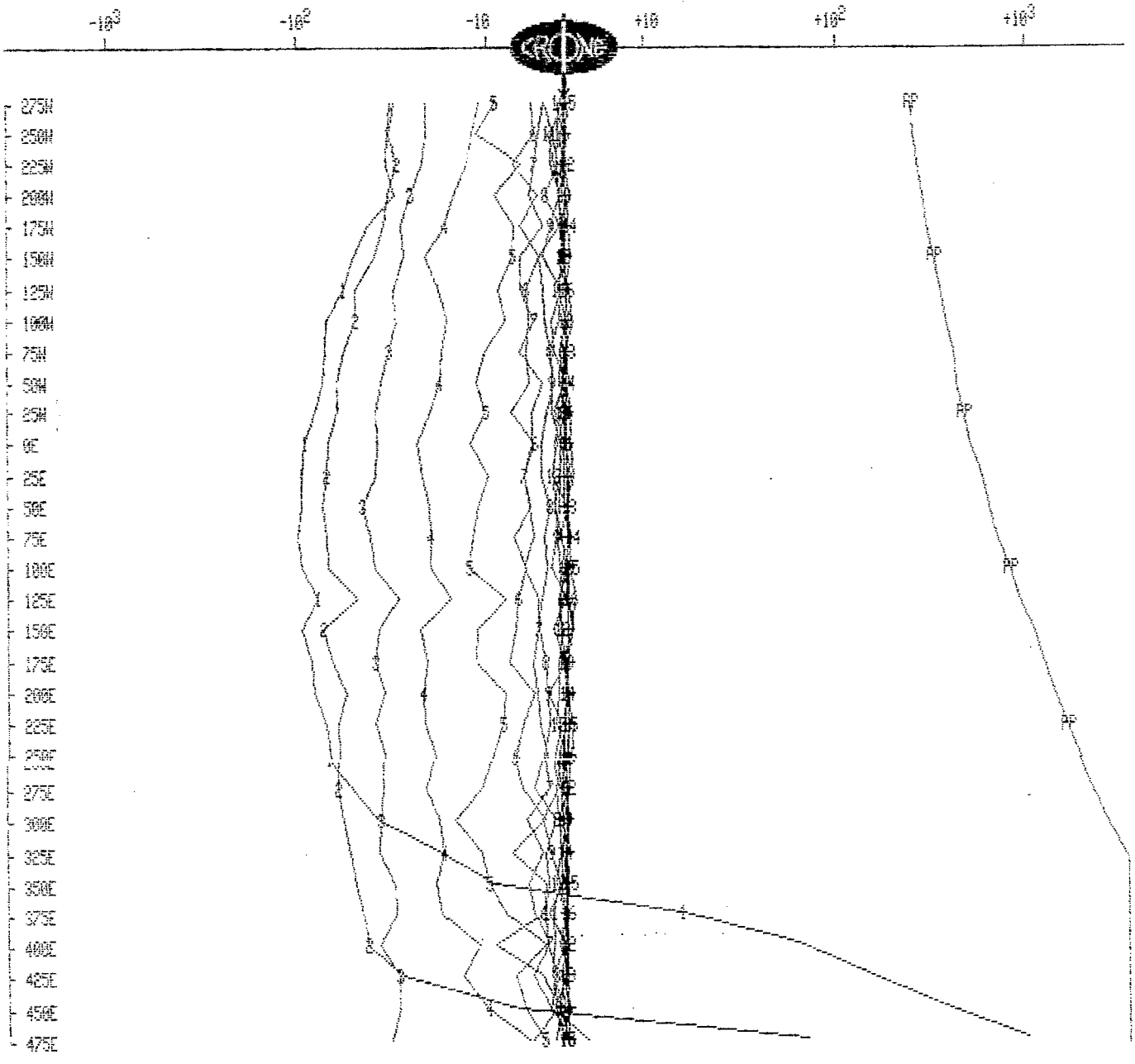
25m FRASER FILTER
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L2S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L2SL1.PEM
Scale	: 1:5000		

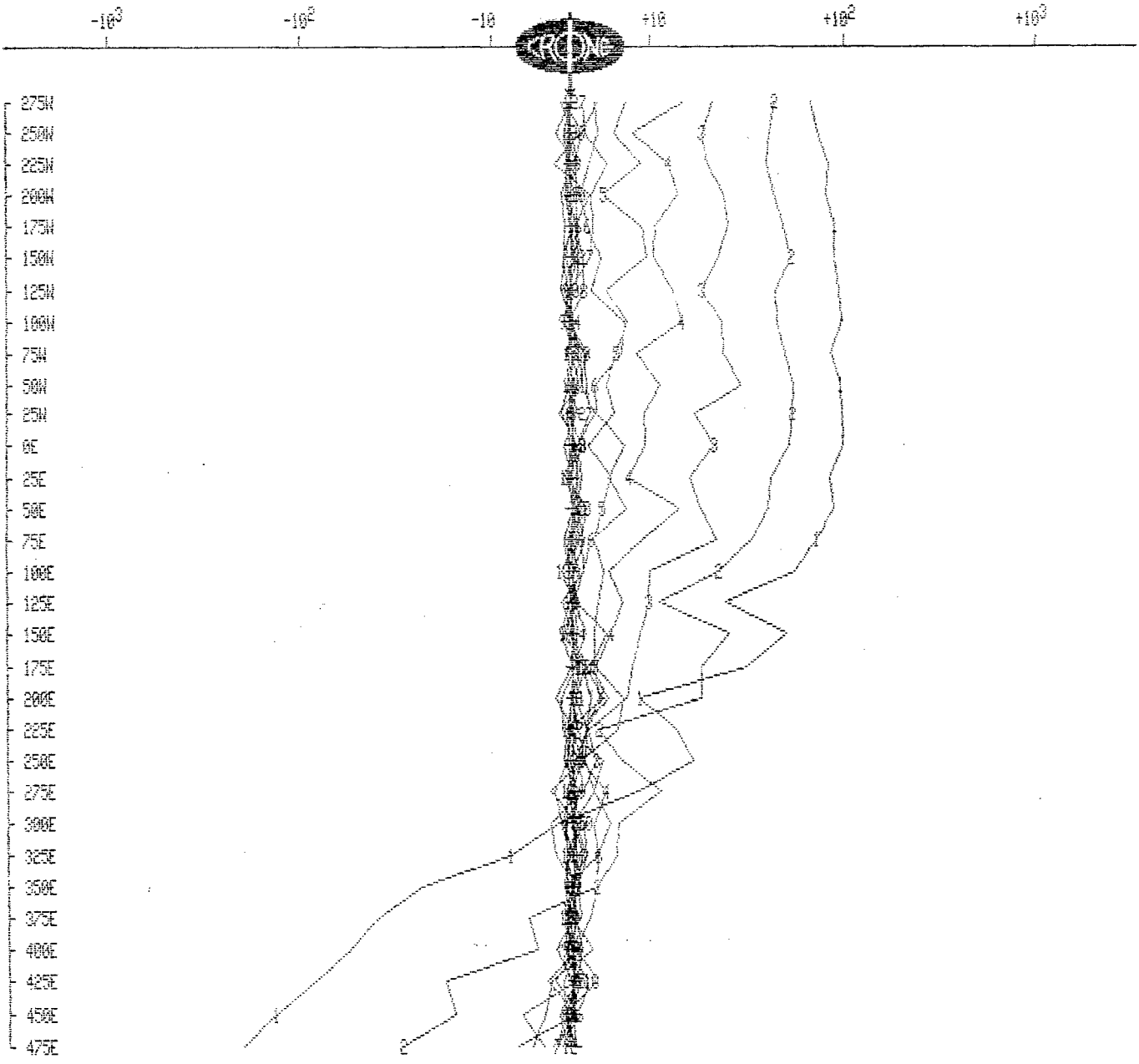
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L2S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L2SL1.PEM
Scale	: 1:5000		

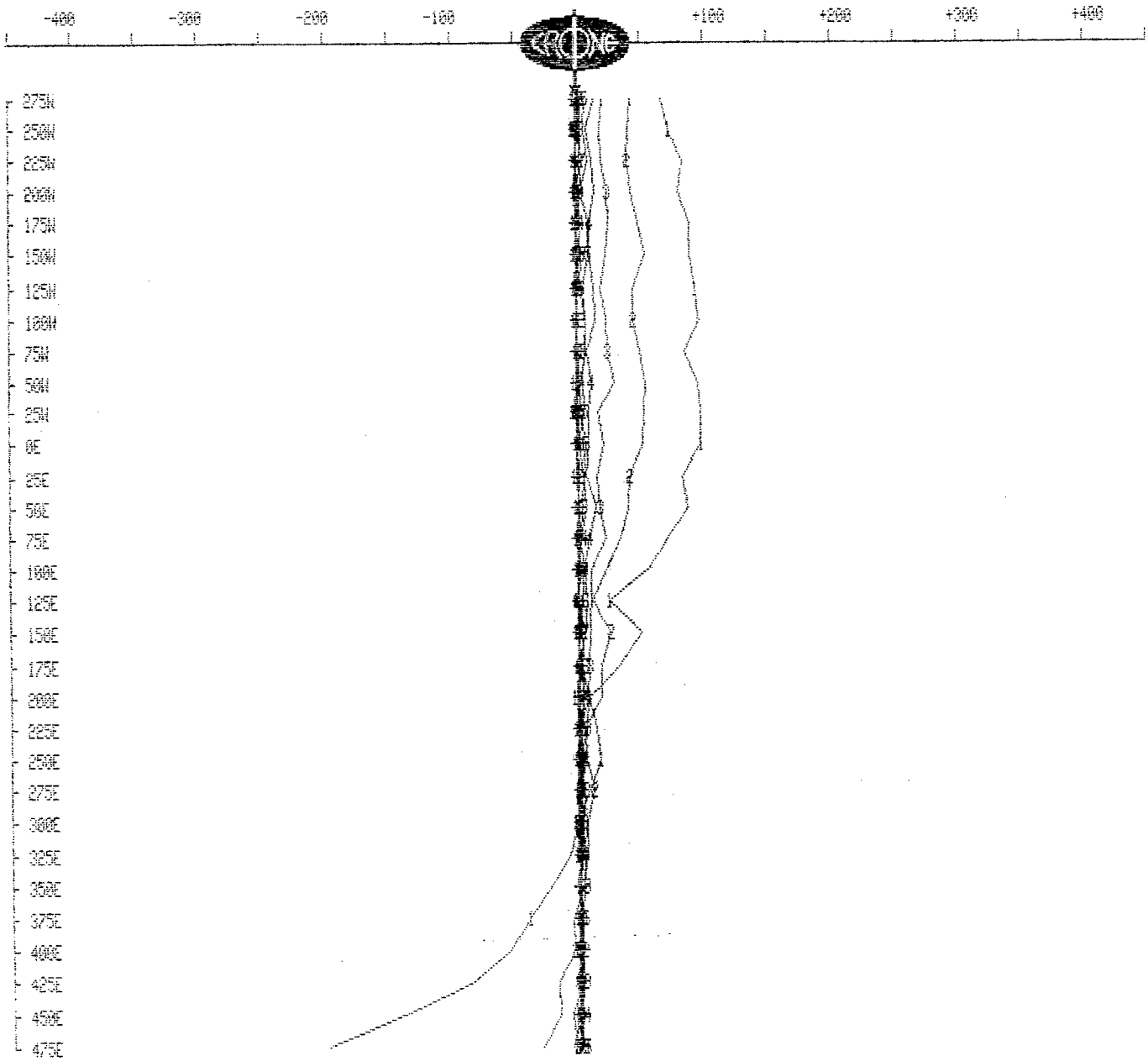
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L2S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L2SL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

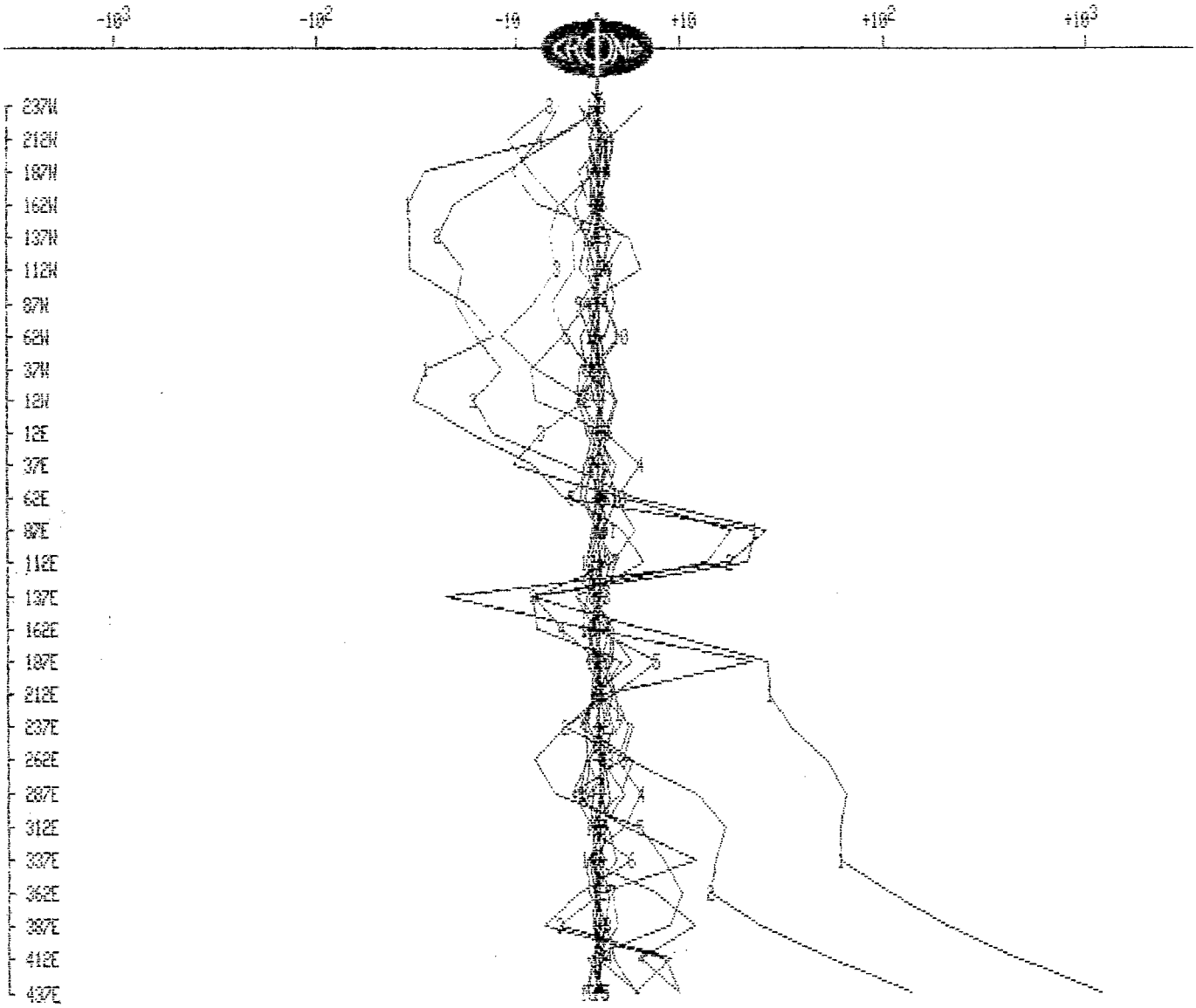
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L2S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L2SL1.PEM
Scale	: 1:5000		

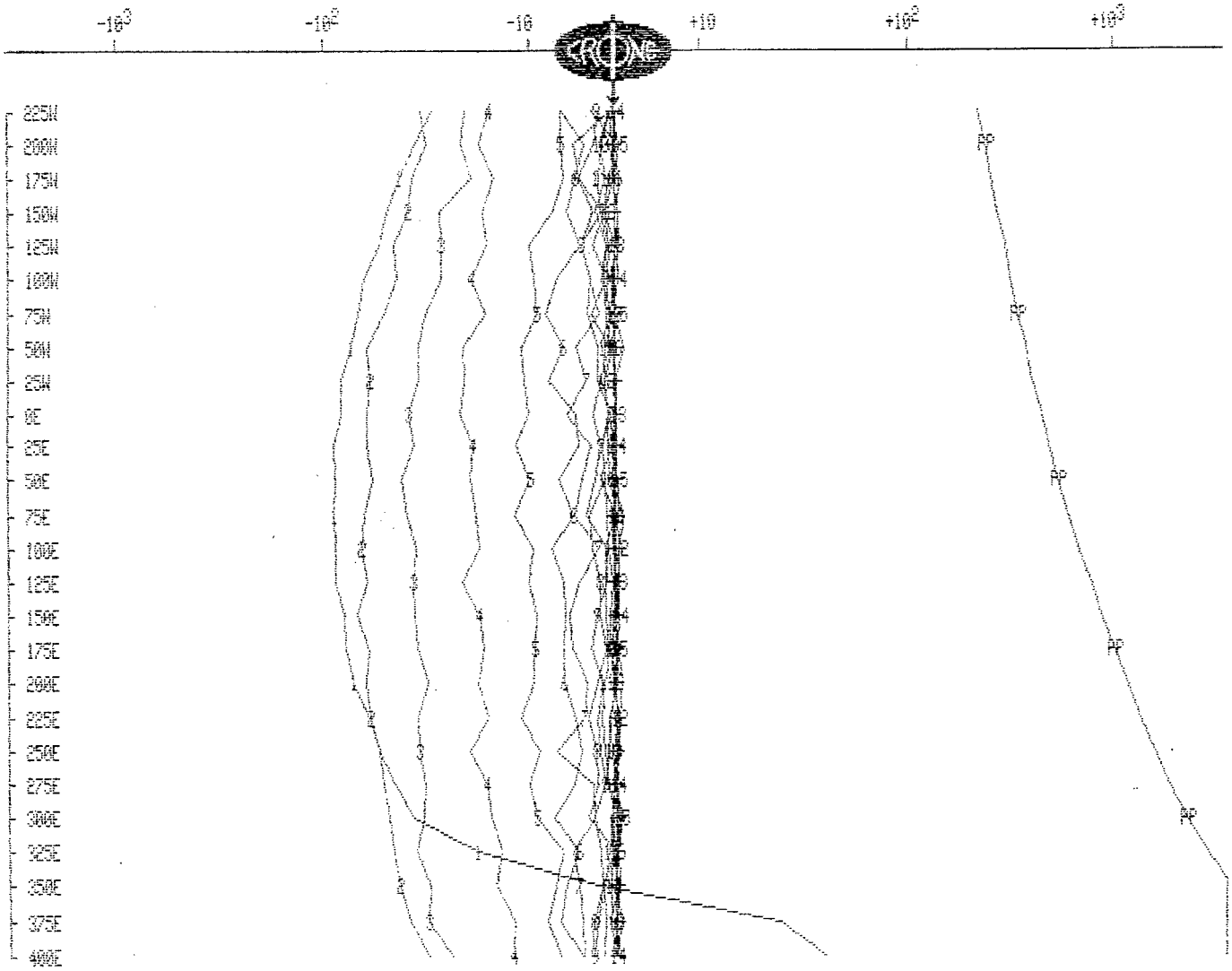
25m FRASER FILTER
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L3S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L3SL1.PEM
Scale	: 1:5000		

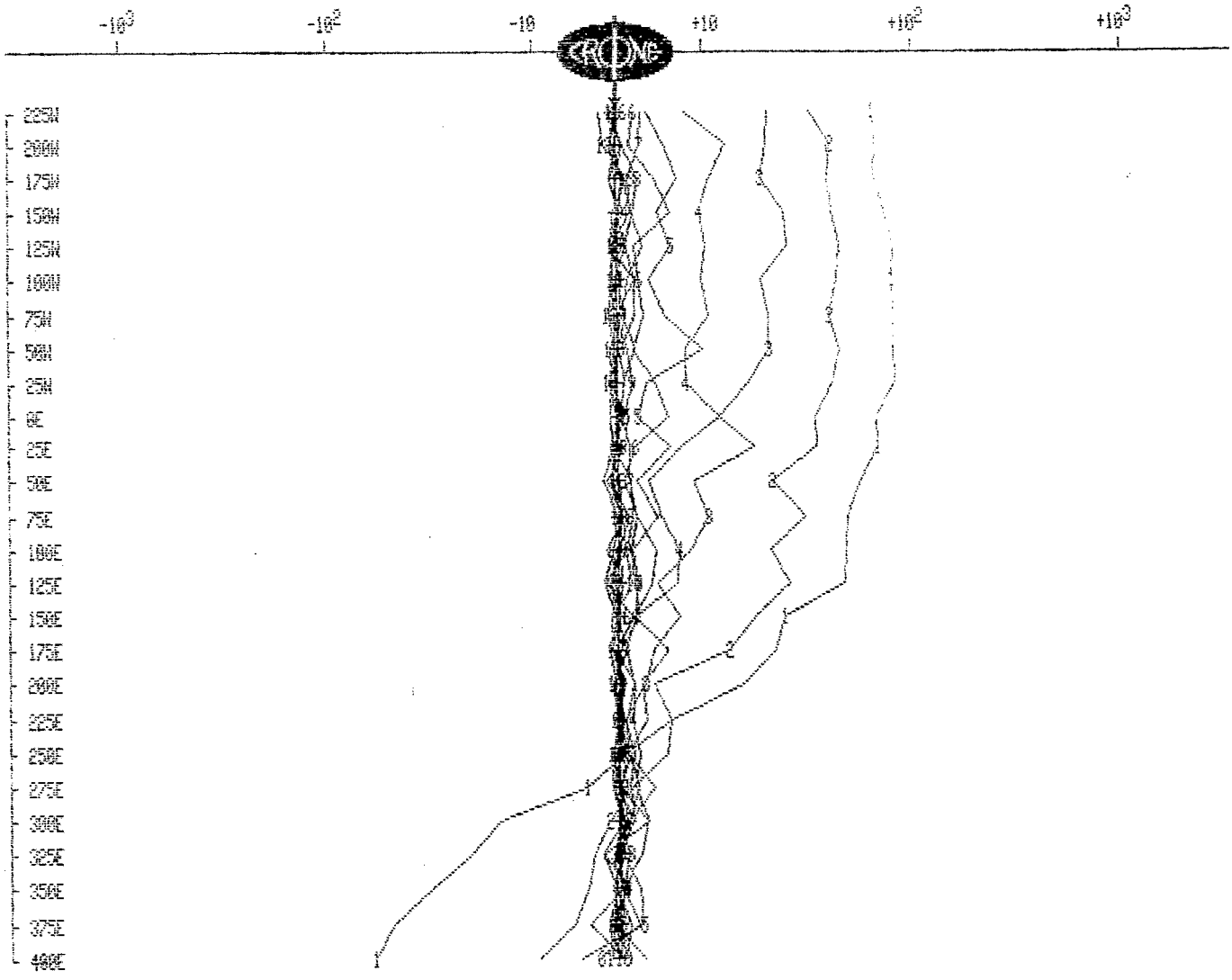
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels and PP



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L3S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L3SL1.PEM
Scale	: 1:5000		

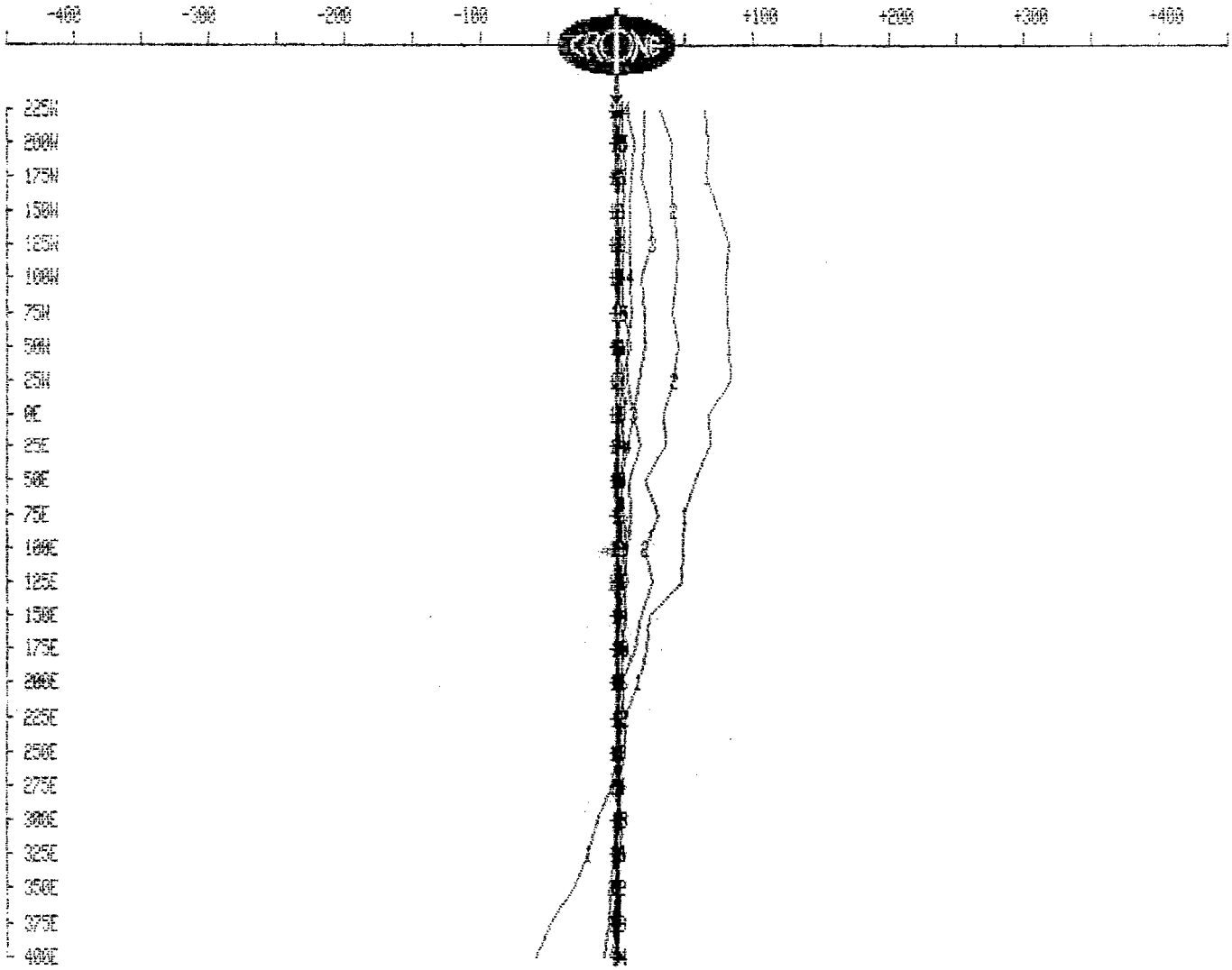
IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client	: WHITECHANNEL	Line	: L3S
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.33 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: L3SL1.PEM
Scale	: 1:5000	Unit Scale	: 1cm = 50 nT/s

IN-LINE HORIZONTAL COMPONENT dBx/dt nanoTesla/sec - 16 channels

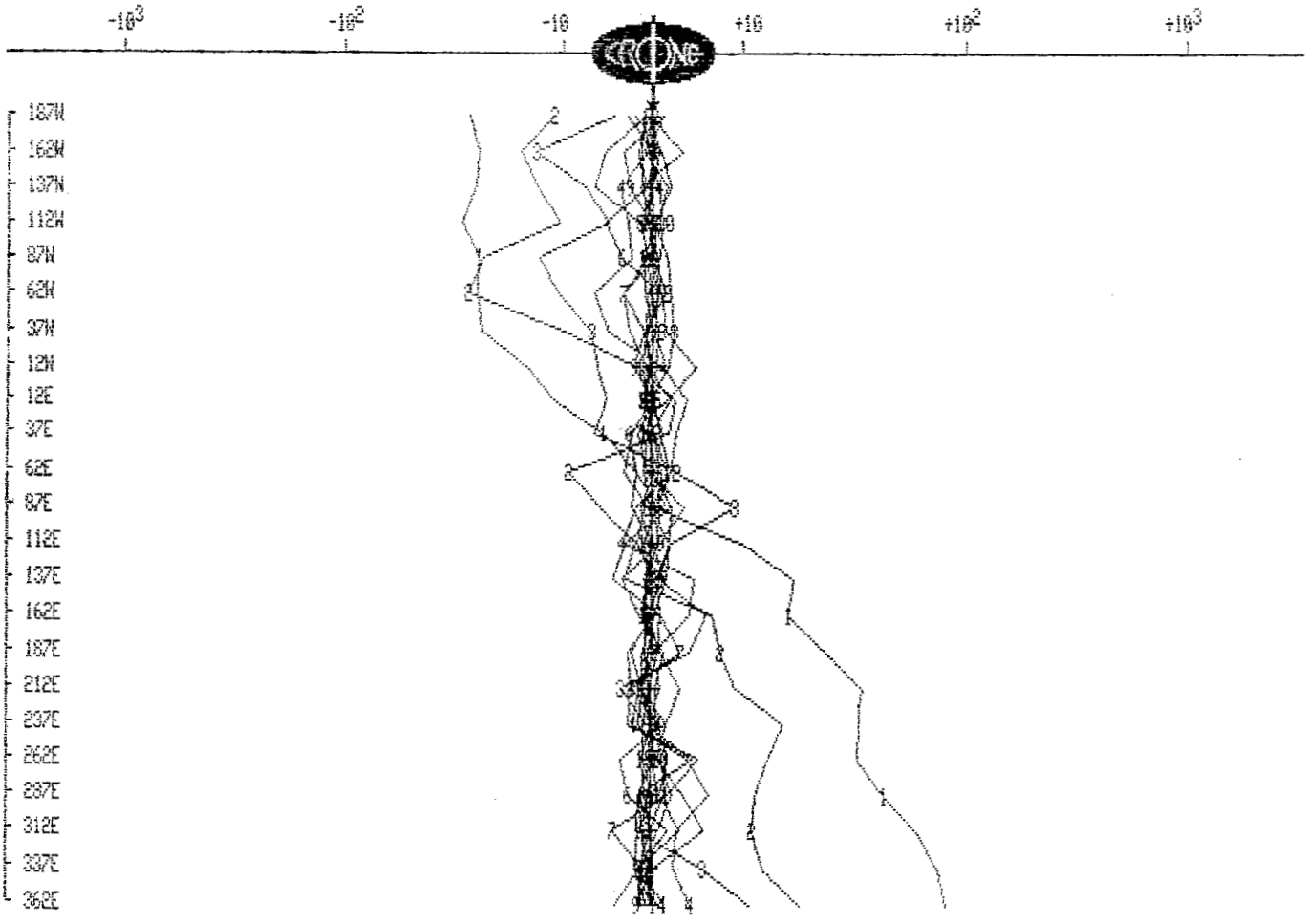


SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms
Scale : 1:5000

Line : L3S
Tx Loop : L-1
Date : Aug 12, 1990
File : L3SL1.PEM

25m FRASER FILTER
VERTICAL COMPONENT dBz/dt nanoTesla/sec - 16 channels



CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L4N
Tx Loop : L-1
Date : Aug 13, 1990
File : L4NL1.PEM

Station	Comp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
75N	X	5 A7	1003.5	90	2048	PP	370	-453	88	60	37	28	7	5	6	0	-1	-1	0	1
50N	X	5 A7	1003.5	90	1024	PP	368	-489	72	77	40	20	7	8	4	-0	2	1	-0	-2
25N	X	6 A7	1003.5	90	2048	PP	366	-510	67	35	25	9	9	4	1	2	-0	-2	-2	-0
0E	X	5 A7	1003.5	90	1024	PP	364	-552	39	25	1	10	5	4	-0	2	-0	-1	1	-2
50E	X	6 A7	1003.5	90	2048	PP	361	-662	32	24	12	9	12	1	4	1	-1	-0	0	-0
75E	X	6 A7	1003.5	90	2048	PP	359	-719	36	26	11	7	7	9	-0	-1	0	2	-2	-0
100E	X	6 A7	1003.5	90	2048	PP	357	-761	31	20	11	9	4	4	3	-1	0	2	-1	1
125E	X	6 A7	1003.5	90	2048	PP	355	-794	21	1	10	14	7	2	2	3	1	1	1	1
150E	X	6 A7	1003.5	90	2048	PP	353	-876	31	22	12	8	-0	5	1	2	2	1	0	-0
175E	X	6 A7	1003.5	90	2048	PP	351	-944	19	16	11	8	2	3	0	0	0	-0	1	-0
200E	X	6 A7	1003.5	90	2048	PP	349	-1033	22	9	12	8	2	1	2	0	2	0	-1	0
225E	X	6 A7	1003.5	90	2048	PP	347	-1212	139	69	17	7	-1	4	-1	-3	-1	0	1	-0
250E	X	6 A7	1003.5	90	2048	PP	345	-1373	151	68	21	1	2	0	-0	-1	-0	0	1	-1
275E	X	6 A7	1003.5	90	2048	PP	343	-1514	21	10	-2	6	2	-1	-1	-1	-1	-1	-0	-1
300E	X	6 A7	1003.5	90	2048	PP	341	-1855	72	31	8	8	4	1	-0	-1	2	-1	0	0
325E	X	6 A7	1003.5	90	2048	PP	339	-2427	50	35	6	9	0	1	1	-0	1	1	-2	-0
350E	X	6 A7	1003.5	90	2048	PP	337	-2972	25	29	3	3	2	4	1	1	-1	0	1	1
375E	X	6 A7	1003.5	90	2048	PP	335	-3456	1	19	9	-2	3	3	1	2	2	0	-0	1
400E	X	5 A7	1003.5	90	2048	PP	333	-4625	-37	8	4	3	-1	5	1	1	1	-1	1	0
425E	X	5 A7	1003.5	90	2048	PP	331	-5688	-69	1	8	3	0	3	-0	3	1	1	1	0
450E	X	4 A7	1003.5	90	2048	PP	329	-8661	-177	-17	2	5	-2	4	-1	1	2	-1	2	0
100W	Z	6 A7	1003.5	90	2048	PP	371	398	-31	-21	-1	-10	-4	-3	-3	-3	-2	-1	-1	-1
75W	Z	6 A7	1003.5	90	2048	PP	369	447	-20	-30	-31	-16	-12	-3	-3	-1	-3	-1	-2	-0
50W	Z	6 A7	1003.5	90	1024	PP	367	494	-26	-36	-28	-17	-8	-8	-1	1	-2	-1	0	-0
25W	Z	6 A7	1003.5	90	2048	PP	365	635	-51	-42	-30	-17	-7	-6	-5	-4	-2	-0	-1	-2
0E	Z	5 A7	1003.5	90	1024	PP	363	598	-32	-24	-14	-12	-7	-4	1	-2	-4	-1	-1	-0
25E	Z	5 A7	1003.5	90	2048	PP	362	668	-32	-19	-15	-1	-4	-4	-4	-2	-1	-3	1	-0
50E	Z	6 A7	1003.5	90	2048	PP	360	760	-39	-29	-15	-14	-5	-2	-3	-3	-2	-1	-1	-0
75E	Z	6 A7	1003.5	90	2048	PP	358	855	-35	-26	-14	-11	-6	-4	-3	-3	-2	0	-1	-1
100E	Z	6 A7	1003.5	90	2048	PP	356	984	-34	-23	-20	-15	-3	-3	-3	-3	-1	-1	-1	0
125E	Z	6 A7	1003.5	90	2048	PP	354	1097	-39	-25	-19	-11	-6	-2	-4	-3	-2	-0	-1	-1
150E	Z	6 A7	1003.5	90	2048	PP	352	1265	-40	-28	-19	-11	-6	-4	-4	-3	-3	-0	-1	-1
175E	Z	6 A7	1003.5	90	2048	PP	350	1449	-43	-26	-19	-15	-8	-3	-6	-1	-2	-2	-1	-0
200E	Z	6 A7	1003.5	90	2048	PP	348	1680	-50	-40	-28	-14	-8	-5	-4	-3	-2	-1	-1	-1
225E	Z	6 A7	1003.5	90	2048	PP	346	2031	-45	-63	-47	-26	-13	-7	-4	-2	-2	-0	-1	-0
250E	Z	6 A7	1003.5	90	2048	PP	344	2362	-88	-81	-45	-24	-1	-6	-3	-2	-1	-1	-1	0
275E	Z	6 A7	1003.5	90	2048	PP	342	2724	-33	-18	-15	-9	-5	-4	-1	-2	-1	-1	-1	-1
300E	Z	6 A7	1003.5	90	2048	PP	340	3447	-87	-69	-37	-20	-8	-4	-3	-1	-1	-1	-1	-0
325E	Z	5 A7	1003.5	90	2048	PP	338	4305	-73	-74	-38	-21	-8	-5	-3	-2	-1	-1	-1	-0
350E	Z	5 A7	1003.5	90	2048	PP	336	5489	-62	-70	-39	-17	-1	-6	-4	-2	-1	-1	-1	-0
375E	Z	5 A7	1003.5	90	2048	PP	334	7234	-36	-63	-36	-17	-11	-5	-3	-3	-1	-0	-2	-1
400E	Z	4 A7	1003.5	90	2048	PP	332	10620	-1	-59	-35	-17	-9	-4	-6	-2	-1	-1	-1	-1
425E	Z	3 A7	1003.5	90	2048	PP	330	14870	137	-48	-40	-18	-10	-5	-7	-2	-3	-2	-3	-1
450E	Z	3 A7	1003.5	90	2048	PP	328	24080	248	-36	-43	-21	-13	-10	-7	-7	-6	-6	-5	-4

CRONE GEOPHYSICS & EXPLORATION LTD.
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L4N
Tx Loop : L-1
Date : Aug 18, 1990
File : L4NL1.PEM

Station	Cmp	13	14	15	16
75W	X	1	-0	1	-0
50W	X	-2	2	0	-2
25W	X	2	-0	-0	0
0E	X	2	-0	1	0
50E	X	-0	0	-0	0
75E	X	-0	0	0	0
100E	X	1	0	0	-0
125E	X	-2	-0	-0	-0
150E	X	0	-1	-0	-0
175E	X	0	0	-0	-0
200E	X	-1	-0	0	-1
225E	X	1	-1	0	-0
250E	X	-2	-0	1	-0
275E	X	1	1	-0	0
300E	X	1	1	0	0
325E	X	2	-0	1	0
350E	X	3	1	0	0
375E	X	3	0	0	0
400E	X	2	0	1	0
425E	X	3	1	1	1
450E	X	2	1	1	-0
100W	Z	1	-0	0	1
75W	Z	0	1	0	-0
50W	Z	-2	-0	-0	1
25W	Z	0	1	0	0
0E	Z	-0	-0	0	0
25E	Z	0	1	0	0
50E	Z	-0	0	0	0
75E	Z	-1	-1	0	-0
100E	Z	-1	-0	0	-0
125E	Z	-3	-0	-1	-0
150E	Z	-1	-0	-0	-0
175E	Z	-1	0	0	0
200E	Z	-1	-0	-0	-1
225E	Z	0	-0	0	0
250E	Z	0	0	0	0
275E	Z	0	1	1	0
300E	Z	0	0	0	-0
325E	Z	1	-0	0	0
350E	Z	1	1	0	-0
375E	Z	1	1	0	0
400E	Z	1	0	0	-0
425E	Z	-0	0	0	0
450E	Z	-1	-1	-1	-1

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L250N
Tx Loop : L-1
Date : Aug 13, 1990
File : L250NL1.PEM

Station	Cmp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
275W	X	6 A7	1003.5	90	2048	PP	273	-138	81	28	14	8	7	4	4	2	1	1	1	0
250W	X	6 A7	1003.5	90	2048	PP	275	-150	45	32	21	12	6	5	4	1	2	1	0	0
225W	X	6 A7	1003.5	90	2048	PP	277	-176	58	44	26	19	8	6	4	1	0	0	1	0
200W	X	6 A7	1003.5	90	2048	PP	279	-196	72	55	30	18	8	6	4	1	1	1	-0	0
175W	X	6 A7	1003.5	90	2048	PP	281	-204	75	45	32	19	11	6	3	1	1	1	0	0
150W	X	6 A7	1003.5	90	2048	PP	283	-226	79	42	28	19	8	5	3	1	0	1	-1	0
125W	X	6 A7	1003.5	90	2048	PP	285	-247	61	37	20	11	9	7	2	1	2	1	0	1
100W	X	6 A7	1003.5	90	2048	PP	287	-278	76	44	29	17	10	5	2	1	2	-0	-1	0
75W	X	6 A7	1003.5	90	2048	PP	289	-299	94	62	35	20	5	6	2	2	0	-0	-0	1
50W	X	6 A7	1003.5	90	2048	PP	291	-333	98	71	36	18	11	7	2	1	2	1	1	0
25W	X	6 A7	1003.5	90	2048	PP	293	-388	101	62	30	15	10	7	1	1	1	-1	-2	-1
0E	X	6 A7	1003.5	90	2048	PP	295	-424	118	64	26	13	9	7	0	2	1	0	-0	0
25E	X	6 A7	1003.5	90	2048	PP	297	-470	124	73	32	15	10	5	3	3	2	1	1	1
50E	X	6 A7	1003.5	90	2048	PP	299	-521	131	63	33	15	4	5	2	1	1	-0	-0	-0
75E	X	6 A7	1003.5	90	2048	PP	301	-582	163	54	17	9	5	2	1	1	2	-1	0	1
100E	X	6 A7	1003.5	90	2048	PP	303	-746	120	64	26	7	3	4	-2	-1	-1	-1	-0	-1
125E	X	6 A7	1003.5	90	2048	PP	305	-829	129	52	19	6	6	2	1	-1	0	-1	-1	-0
150E	X	6 A7	1003.5	90	2048	PP	307	-872	122	56	15	8	3	2	2	1	-1	-1	-0	0
175E	X	6 A7	1003.5	90	2048	PP	309	-1079	125	54	17	4	4	0	1	-0	1	-0	-1	0
200E	X	6 A7	1003.5	90	2048	PP	311	-1188	108	40	12	3	6	0	1	-1	0	-0	-1	-0
225E	X	6 A7	1003.5	90	2048	PP	313	-1388	79	35	10	2	1	2	1	-1	-1	-1	-0	-0
250E	X	6 A7	1003.5	90	2048	PP	315	-1627	45	24	10	3	1	1	1	2	-1	-0	-1	0
275E	X	6 A7	1003.5	90	2048	PP	317	-2123	51	31	4	2	-1	-2	-0	1	-1	-2	-0	-0
300E	X	6 A7	1003.5	90	2048	PP	319	-2257	-7	1	2	1	3	-2	-1	1	2	-0	-2	0
325E	X	6 A7	1003.5	90	2048	PP	321	-2618	-36	2	2	-0	-1	-1	1	0	-1	-1	-1	-1
350E	X	6 A7	1003.5	90	2048	PP	323	-2994	-70	-5	-4	1	-4	-3	0	-2	-1	-0	-2	-1
375E	X	5 A7	1003.5	90	2048	PP	325	-3906	-63	-4	-4	0	-2	-1	0	-0	1	-2	-0	1
400E	X	6 A7	1003.5	90	2048	PP	327	-3545	-79	-1	-8	-5	-2	-0	-1	0	-2	-1	-0	-1
275W	Z	6 A7	1003.5	90	2048	PP	272	262	-11	-9	-5	-3	0	-1	-0	0	-0	1	1	0
250W	Z	6 A7	1003.5	90	2048	PP	274	288	-15	-1	-8	-3	-3	-1	-1	-2	-2	-1	-1	-0
225W	Z	6 A7	1003.5	90	2048	PP	276	321	-14	-17	-14	-5	-3	-3	-2	-0	-1	-0	-1	1
200W	Z	6 A7	1003.5	90	2048	PP	278	351	-8	-20	-20	-11	-7	-3	-2	-1	-3	0	-1	-0
175W	Z	6 A7	1003.5	90	2048	PP	280	383	-21	-33	-19	-14	-4	-5	-4	-1	-3	-1	-1	-0
150W	Z	6 A7	1003.5	90	2048	PP	282	423	-31	-27	-21	-14	-5	0	-2	-1	-1	1	-0	0
125W	Z	6 A7	1003.5	90	2048	PP	284	464	-31	-27	-19	-13	-4	-3	-2	-2	-0	-0	-0	0
100W	Z	6 A7	1003.5	90	2048	PP	286	506	-37	-30	-24	-14	-6	-4	-3	-1	-2	-1	-1	-1
75W	Z	6 A7	1003.5	90	2048	PP	288	560	-13	-36	-28	-20	-9	-5	-4	-2	-2	-0	-1	-0
50W	Z	6 A7	1003.5	90	2048	PP	290	623	-7	-36	-33	-20	-10	-3	-4	-2	-1	-1	-2	-0
25W	Z	6 A7	1003.5	90	2048	PP	292	696	-9	-38	-35	-21	-10	-5	-4	-3	-2	-1	-1	-1
0E	Z	6 A7	1003.5	90	2048	PP	294	774	-16	-42	-33	-22	-1	-6	-3	-3	-1	-1	-1	-1
25E	Z	6 A7	1003.5	90	2048	PP	296	823	-25	-51	-39	-21	-10	-7	-2	-1	-2	-1	-1	-0
50E	Z	6 A7	1003.5	90	2048	PP	298	991	-23	-50	-40	-24	-11	-6	-4	-1	-1	-1	-1	1
75E	Z	6 A7	1003.5	90	2048	PP	300	1251	-52	-59	-40	-25	-10	-5	-5	-2	-2	-0	-1	0
100E	Z	6 A7	1003.5	90	2048	PP	302	1426	-57	-65	-44	-25	-12	-5	-2	-4	-2	-1	-0	-1
125E	Z	6 A7	1003.5	90	2048	PP	304	1622	-71	-70	-45	-23	-11	-5	-2	-3	-1	-1	-0	-1
150E	Z	6 A7	1003.5	90	2048	PP	306	1878	-81	-75	-47	-21	-13	-5	-4	-3	-1	-0	-1	-0
175E	Z	6 A7	1003.5	90	2048	PP	308	2199	-89	-83	-44	-22	-12	-5	-5	-1	-2	-0	-1	-0
200E	Z	6 A7	1003.5	90	2048	PP	310	2619	-96	-85	-47	-21	-10	-5	-3	-2	-1	-1	-0	-0
225E	Z	6 A7	1003.5	90	2048	PP	312	3125	-92	-82	-45	-22	-1	-4	-2	-2	-1	-0	-1	0
250E	Z	5 A7	1003.5	90	2048	PP	314	3958	-68	-73	-44	-21	-8	-5	-3	-3	-1	-1	-2	-0
275E	Z	5 A7	1003.5	90	2048	PP	316	4932	-38	-70	-44	-19	-11	-4	-3	-2	-2	-1	-1	-1
300E	Z	5 A7	1003.5	90	2048	PP	318	6314	-0	-61	-43	-16	-12	-3	-3	-1	-1	-1	-1	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L250N
Tx Loop : L-1
Date : Aug 13, 1990
File : L250NL1.PEM

Station	Comp	13	14	15	16
275W	X	-0	-0	-0	0
250W	X	-2	-0	0	1
225W	X	-1	-0	-0	-1
200W	X	-1	0	-0	-1
175W	X	-0	-0	0	-0
150W	X	-1	-0	-1	-0
125W	X	-2	-0	-1	-0
100W	X	-1	-0	-0	0
75W	X	-1	-0	0	0
50W	X	-1	0	1	1
25W	X	-2	-1	-1	-1
0E	X	-1	-0	-0	-1
25E	X	0	0	1	1
50E	X	-1	-0	0	0
75E	X	-1	-1	-1	-1
100E	X	1	-0	0	-0
125E	X	0	0	1	-1
150E	X	-1	0	1	-0
175E	X	-0	-0	-0	0
200E	X	-1	-1	0	-0
225E	X	0	-0	0	-0
250E	X	0	0	1	0
275E	X	0	-0	0	-0
300E	X	1	1	0	0
325E	X	-0	-1	-0	0
350E	X	-1	0	-0	0
375E	X	0	-0	-0	0
400E	X	-0	0	0	-0
275W	Z	0	1	-0	-1
250W	Z	-0	0	-0	-1
225W	Z	1	1	1	1
200W	Z	-0	-0	-0	-1
175W	Z	-0	-0	0	-0
150W	Z	1	1	1	0
125W	Z	1	1	1	1
100W	Z	0	-0	0	0
75W	Z	0	0	0	0
50W	Z	0	0	0	0
25W	Z	0	0	0	-0
0E	Z	-0	0	0	-0
25E	Z	0	0	0	-0
50E	Z	-0	0	1	-1
75E	Z	0	0	0	-0
100E	Z	-2	-0	0	0
125E	Z	-0	-0	0	0
150E	Z	0	0	0	-0
175E	Z	0	-0	0	0
200E	Z	-0	0	0	0
225E	Z	0	0	0	-0
250E	Z	-0	0	0	-0
275E	Z	-0	0	0	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L1N
Tx Loop : L-1
Date : Aug 13, 1990
File : L1NL1.PEM

Station	Cmp	13	14	15	16
250W	X	1	1	1	1
225W	X	0	0	1	1
200W	X	-1	-0	0	-0
175W	X	-1	0	0	-1
150W	X	-3	-1	-1	-1
125W	X	-1	-0	0	0
100W	X	-1	0	0	1
75W	X	-1	0	0	0
50W	X	0	0	0	0
25W	X	3	0	-0	0
0E	X	0	0	0	0
25E	X	2	1	0	0
50E	X	1	-0	1	-0
75E	X	2	0	0	-0
100E	X	1	1	0	0
125E	X	3	1	0	0
150E	X	3	1	1	0
175E	X	1	0	1	0
200E	X	2	1	1	-0
225E	X	4	1	1	0
250E	X	3	1	0	-0
275E	X	3	0	0	0
300E	X	1	0	0	-0
325E	X	3	0	0	-0
350E	X	2	0	1	-0
250W	Z	-2	-0	-0	-0
225W	Z	1	0	1	0
200W	Z	-1	-0	-0	0
175W	Z	-0	0	0	1
150W	Z	-0	0	0	0
125W	Z	0	1	1	1
100W	Z	-1	0	0	0
75W	Z	0	0	0	0
50W	Z	1	0	1	0
25W	Z	0	-1	-0	-0
0E	Z	-0	0	1	0
25E	Z	-0	1	0	0
50E	Z	-0	0	0	0
75E	Z	-0	0	-0	0
100E	Z	-0	0	1	-0
125E	Z	-0	0	0	-0
150E	Z	-0	0	1	-0
175E	Z	-1	0	-0	0
200E	Z	1	1	0	0
225E	Z	0	0	0	0
250E	Z	1	0	1	0
275E	Z	2	1	1	0
300E	Z	-0	0	-0	-0
325E	Z	0	-0	-0	-0
350E	Z	0	0	-0	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 9.33 ms
Ramp Time : 1.00 ms

Line : L1N
Tx Loop : L-1
Date : Aug 13, 1990
File : L1NL1.PEM

Station	Cmp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
250W	X	6 A7	1003.5	90	2048	PP	271	-129	76	59	32	18	1	4	3	4	2	2	1	0
225W	X	6 A7	1003.5	90	2048	PP	269	-140	71	44	32	14	0	4	2	2	1	2	0	0
200W	X	6 A7	1003.5	90	2048	PP	267	-133	81	52	34	19	1	7	3	2	2	1	-0	-0
175W	X	6 A7	1003.5	90	2048	PP	265	-152	82	45	27	17	9	9	3	2	-0	0	-0	-0
150W	X	5 A7	1003.5	90	2048	PP	263	-152	95	57	36	19	9	7	3	1	0	2	0	-1
125W	X	6 A7	1003.5	90	2048	PP	261	-182	103	60	34	19	9	6	3	2	1	1	-1	-0
100W	X	6 A7	1003.5	90	2048	PP	259	-186	99	60	32	16	1	5	3	1	2	-1	0	-0
75W	X	6 A7	1003.5	90	2048	PP	257	-221	102	60	33	18	8	5	3	1	1	-0	0	0
50W	X	6 A7	1003.5	90	2048	PP	255	-229	104	61	32	14	9	5	1	1	0	1	-0	-0
25W	X	6 A7	1003.5	90	2048	PP	253	-248	111	58	30	14	7	7	2	1	-0	1	-1	-0
0E	X	6 A7	1003.5	90	2048	PP	251	-296	106	59	29	12	7	4	5	0	1	-0	-1	-1
25E	X	6 A7	1003.5	90	2048	PP	249	-309	116	62	21	9	1	4	3	1	-0	-0	-1	-0
50E	X	6 A7	1003.5	90	2048	PP	247	-416	122	57	25	10	7	6	2	1	-0	-0	-1	1
75E	X	6 A7	1003.5	90	2048	PP	245	-492	124	54	15	6	6	6	0	1	-1	-2	-1	-0
100E	X	6 A7	1003.5	90	2048	PP	243	-524	124	59	16	11	2	5	3	1	1	-1	-0	0
125E	X	6 A7	1003.5	90	2048	PP	241	-659	126	56	18	9	3	-0	3	1	1	-1	-2	1
150E	X	6 A7	1003.5	90	2048	PP	239	-746	114	46	14	5	3	1	-0	1	1	-1	-1	-1
175E	X	6 A7	1003.5	90	2048	PP	237	-940	96	40	7	7	1	3	1	-0	-1	-2	-0	0
200E	X	6 A7	1003.5	90	2048	PP	235	-1040	75	33	10	2	3	1	0	1	-1	0	-0	1
225E	X	6 A7	1003.5	90	2048	PP	233	-876	47	20	3	1	3	3	0	1	1	-1	0	-0
250E	X	6 A7	1003.5	90	2048	PP	231	-1247	33	11	4	-1	0	4	0	1	1	-1	-1	-0
275E	X	6 A7	1003.5	90	2048	PP	229	-1491	17	1	4	1	-0	1	-1	1	-1	-0	-0	-0
300E	X	6 A7	1003.5	90	2048	PP	227	-1596	-2	3	-4	3	-2	3	-1	-1	1	-1	-1	-0
325E	X	6 A7	1003.5	90	2048	PP	225	-1755	-17	-4	-1	-3	-1	1	1	1	0	1	-0	1
350E	X	6 A7	1003.5	90	2048	PP	223	-2116	-38	-1	-2	-2	-1	2	-1	2	1	-0	0	0
250W	Z	6 A7	1003.5	90	2048	PP	270	359	1	-17	-12	-1	-4	-1	-2	-2	-1	-0	-0	-1
225W	Z	6 A7	1003.5	90	2048	PP	268	548	-18	-23	-16	-10	-4	-4	-1	-2	-3	-1	-0	-0
200W	Z	6 A7	1003.5	90	2048	PP	266	571	-9	-24	-19	-14	-8	-3	-3	-3	-2	-0	-1	-1
175W	Z	6 A7	1003.5	90	2048	PP	264	408	-23	-27	-21	-13	-5	-3	-3	-3	-2	-1	-1	-0
150W	Z	6 A7	1003.5	90	2048	PP	262	447	-21	-31	-26	-15	-8	-3	-2	-2	-2	-1	-1	-1
125W	Z	6 A7	1003.5	90	2048	PP	260	498	-20	-36	-28	-17	-9	-3	-2	-3	-3	-1	-1	-0
100W	Z	6 A7	1003.5	90	2048	PP	258	538	-27	-34	-29	-19	-9	-4	-4	-2	-2	-1	-1	-0
75W	Z	6 A7	1003.5	90	2048	PP	256	596	-23	-38	-31	-18	-9	-5	-3	-2	-2	-0	-1	0
50W	Z	6 A7	1003.5	90	2048	PP	254	650	-29	-43	-32	-20	-9	-6	-4	-1	-2	-0	-1	-0
25W	Z	6 A7	1003.5	90	2048	PP	252	718	-35	-45	-35	-22	-13	-6	-3	-4	-2	-1	-2	-1
0E	Z	6 A7	1003.5	90	2048	PP	250	769	-36	-48	-37	-21	-10	-5	-4	-2	-2	-1	-2	-1
25E	Z	6 A7	1003.5	90	2048	PP	248	885	-40	-52	-37	-22	-1	-4	-4	-2	-2	-1	-1	0
50E	Z	6 A7	1003.5	90	2048	PP	246	984	-38	-55	-41	-22	-9	-8	-3	-3	-2	-0	-1	-0
75E	Z	6 A7	1003.5	90	2048	PP	244	1101	-53	-62	-41	-22	-11	-6	-4	-2	-1	-1	-1	0
100E	Z	6 A7	1003.5	90	2048	PP	242	1244	-78	-68	-41	-23	-11	-6	-3	-2	-2	-0	-1	-0
125E	Z	6 A7	1003.5	90	2048	PP	240	1426	-95	-77	-45	-21	-13	-6	-5	-3	-1	-1	-1	-0
150E	Z	6 A7	1003.5	90	2048	PP	238	1606	-102	-79	-46	-22	-11	-5	-4	-2	-2	-1	-1	0
175E	Z	6 A7	1003.5	90	2048	PP	236	1846	-102	-80	-44	-21	-11	-7	-3	-3	-1	-1	-2	-1
200E	Z	6 A7	1003.5	90	2048	PP	234	2175	-101	-83	-48	-22	-1	-6	-3	-2	-1	-1	-2	0
225E	Z	6 A7	1003.5	90	2048	PP	232	2558	-89	-79	-45	-18	-11	-7	-5	-3	-4	-1	-1	-1
250E	Z	6 A7	1003.5	90	2048	PP	230	3090	-75	-75	-42	-20	-12	-5	-4	-2	-2	-1	-1	-1
275E	Z	5 A7	1003.5	90	2048	PP	228	3731	-59	-69	-41	-22	-9	-6	-7	-1	-2	-1	-2	-1
300E	Z	5 A7	1003.5	90	2048	PP	226	4503	-36	-56	-35	-19	-6	-5	-3	-2	-0	-0	-0	0
325E	Z	5 A7	1003.5	90	2048	PP	224	5592	-8	-50	-36	-19	-1	-2	-5	-3	-2	-1	-1	-1
350E	Z	5 A7	1003.5	90	2048	PP	222	7074	20	-44	-28	-19	-11	-5	-5	-2	-3	-1	-2	-0

SURFACE PEM

Client	: WHITECHANNEL	Line	: LO
Grid	: ICE-CLAIMS	Tx Loop	: L-1
Time Base	: 8.38 ms	Date	: Aug 12, 1990
Ramp Time	: 1.00 ms	File	: LOL1.PEM

Station	Comp	13	14	15	16
200W	X	-0	0	1	0
175W	X	-2	-1	0	-1
150W	X	1	-1	-1	0
125W	X	1	1	-0	1
100W	X	1	1	-1	-0
75W	X	0	0	1	-1
50W	X	-1	1	-0	0
25W	X	-0	0	0	1
0E	X	-2	-1	-0	0
25E	X	-2	-1	-1	1
50E	X	0	1	-0	0
75E	X	-1	-2	-0	-0
100E	X	4	1	-0	1
125E	X	3	0	2	0
150E	X	1	1	-0	-0
175E	X	-3	-1	-0	-2
200E	X	3	1	2	1
225E	X	0	1	-1	-1
250E	X	-1	-1	-1	-1
275E	X	-2	-0	-1	-0
300E	X	0	0	1	0
350E	X	-1	-0	1	1
400E	X	-2	0	0	0
450E	X	1	0	-1	0
200W	Z	-1	-0	-0	-0
175W	Z	1	1	0	0
150W	Z	-0	0	0	0
125W	Z	-0	-0	1	0
100W	Z	0	-0	0	0
75W	Z	0	-0	0	0
50W	Z	-1	-0	0	-0
25W	Z	0	-0	0	0
0E	Z	0	-0	0	0
25E	Z	-0	0	-0	0
50E	Z	-1	-1	-0	-0
75E	Z	-4	-1	0	1
100E	Z	-6	-2	-0	-1
125E	Z	-1	-0	0	-0
150E	Z	-0	-0	-1	0
175E	Z	-0	0	1	0
200E	Z	-1	0	-0	1
225E	Z	-1	1	0	-0
250E	Z	-1	0	-0	0
275E	Z	-1	-0	0	-0
300E	Z	-0	-0	0	-0
350E	Z	-0	0	0	1
400E	Z	-1	-0	-0	-0
450E	Z	-1	-0	0	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : LO
Tx Loop : L-1
Date : Aug 12, 1990
File : LOL1.PEM

Station	Cmp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
200W	X	6 A7	1003.5	90	2048	PP	175	-91	91	54	26	12	6	0	1	2	2	2	-1	1
175W	X	6 A7	1003.5	90	2048	PP	177	-77	92	48	19	19	5	4	6	-1	2	1	1	-1
150W	X	5 A7	1003.5	90	2048	PP	179	-110	87	51	21	19	5	6	-2	2	1	1	-0	-0
125W	X	6 A7	1003.5	90	2048	PP	181	-132	115	60	36	20	6	5	3	0	0	-1	0	0
100W	X	6 A7	1003.5	90	2048	PP	183	-141	110	60	34	18	9	3	2	3	1	1	-0	-1
75W	X	6 A7	1003.5	90	2048	PP	185	-145	123	64	34	19	8	5	3	1	1	-1	-1	-1
50W	X	6 A7	1003.5	90	2048	PP	187	-144	122	66	31	1	6	3	4	0	2	-0	1	0
25W	X	6 A7	1003.5	90	2048	PP	189	-182	111	54	24	14	8	4	2	3	2	-1	0	0
0E	X	6 A7	1003.5	90	2048	PP	191	-165	111	52	21	10	4	5	4	4	1	-0	0	0
25E	X	6 A7	1003.5	90	2048	PP	193	-255	110	60	24	8	3	3	-0	0	3	-0	1	2
50E	X	5 A7	1003.5	90	2048	PP	195	-330	112	47	13	17	-1	6	-0	4	-2	0	-0	1
75E	X	6 A7	1003.5	90	2048	PP	197	-414	119	63	20	5	5	4	0	-1	-1	2	1	0
100E	X	5 A7	1003.5	90	1024	PP	199	-548	111	69	8	13	-1	7	3	2	-2	-3	-1	1
125E	X	6 A7	1003.5	90	2048	PP	201	-686	116	62	21	5	2	3	3	0	-2	-1	-1	-0
150E	X	6 A7	1003.5	90	2048	PP	203	-700	99	51	14	4	4	4	1	-0	3	-1	0	-1
175E	X	6 A7	1003.5	90	2048	PP	205	-758	85	37	14	7	2	3	-0	-1	3	-2	-1	-1
200E	X	6 A7	1003.5	90	2048	PP	207	-881	74	32	10	11	1	4	4	2	1	1	1	1
225E	X	6 A7	1003.5	90	2048	PP	209	-1130	61	22	13	7	2	4	2	1	3	-0	-0	-1
250E	X	6 A7	1003.5	90	2048	PP	211	-1227	30	18	2	7	-2	5	3	-0	-0	-1	1	-1
275E	X	6 A7	1003.5	90	2048	PP	213	-1404	16	21	1	7	-0	1	-0	2	-1	-0	0	-0
300E	X	6 A7	1003.5	90	2048	PP	215	-1542	-3	10	8	-3	3	5	-1	2	-2	1	1	0
350E	X	6 A7	1003.5	90	2048	PP	217	-2062	-37	6	-3	-1	4	5	0	2	1	1	-0	2
400E	X	6 A7	1003.5	90	2048	PP	219	-2803	-94	-21	-8	-1	-4	0	4	-1	-0	-0	0	1
450E	X	5 A7	1003.5	90	2048	PP	221	-5395	-131	-26	-4	-4	2	4	3	-3	2	-1	-1	-1
200W	Z	6 A7	1003.5	90	2048	PP	174	386	-15	-28	-23	-13	-6	-3	-3	-3	-2	-1	-1	-0
175W	Z	6 A7	1003.5	90	2048	PP	176	373	-30	-34	-23	-12	-8	-4	-3	-2	-1	-1	-1	-0
150W	Z	6 A7	1003.5	90	2048	PP	178	403	-38	-37	-21	-16	-9	-4	-3	-2	-1	0	-1	-0
125W	Z	6 A7	1003.5	90	2048	PP	180	440	-37	-38	-28	-16	-7	-5	-2	-1	-2	-1	-2	-1
100W	Z	6 A7	1003.5	90	2048	PP	182	530	-34	-44	-24	-19	-8	-4	-3	-2	-2	0	-1	-1
75W	Z	6 A7	1003.5	90	2048	PP	184	584	-38	-48	-35	-19	-14	-6	-1	-4	-3	-1	-1	-0
50W	Z	6 A7	1003.5	90	2048	PP	186	652	-41	-48	-41	-18	-10	-6	-4	-1	-2	-2	-1	-0
25W	Z	6 A7	1003.5	90	2048	PP	188	692	-52	-56	-38	-22	-10	-8	-1	-2	-3	-1	-1	-2
0E	Z	6 A7	1003.5	90	2048	PP	190	765	-64	-59	-41	-22	-13	-7	-4	-2	-2	-2	-1	-1
25E	Z	6 A7	1003.5	90	2048	PP	192	886	-65	-60	-41	-23	-1	-8	-5	-2	-2	-1	-1	-1
50E	Z	6 A7	1003.5	90	2048	PP	194	914	-84	-72	-42	-18	-10	-3	-5	-1	-2	-1	-1	0
75E	Z	6 A7	1003.5	90	2048	PP	196	972	-99	-72	-42	-22	-13	-10	-4	-2	-1	-1	-1	-1
100E	Z	6 A7	1003.5	90	2048	PP	198	1041	-97	-78	-46	-17	-14	-6	-6	2	0	0	0	0
125E	Z	6 A7	1003.5	90	2048	PP	200	1148	-115	-88	-54	-27	-11	-7	-6	-3	-1	-1	-2	-1
150E	Z	6 A7	1003.5	90	2048	PP	202	1298	-112	-86	-52	-24	-11	-7	-3	-2	-1	-1	-1	0
175E	Z	6 A7	1003.5	90	2048	PP	204	1480	-110	-91	-55	-27	-14	-8	-6	-3	-1	-2	-2	-1
200E	Z	5 A7	1003.5	90	2048	PP	206	1669	-108	-82	-49	-20	-14	-7	-3	-3	-2	-0	-1	-1
225E	Z	6 A7	1003.5	90	2048	PP	208	1913	-90	-89	-50	-22	-13	-8	-5	-4	-2	-1	-1	0
250E	Z	6 A7	1003.5	90	2048	PP	210	2212	-85	-79	-48	-22	-11	-9	-2	-3	-1	0	-1	1
275E	Z	6 A7	1003.5	90	2048	PP	212	2631	-57	-76	-44	-23	-13	-3	-4	-3	-2	1	-1	-0
300E	Z	6 A7	1003.5	90	2048	PP	214	3092	-42	-75	-44	-22	-1	-6	-4	-3	-2	-1	-1	-1
350E	Z	5 A7	1003.5	90	2048	PP	216	4436	-6	-57	-40	-17	-8	-7	-5	-2	-2	-1	-1	-1
400E	Z	5 A7	1003.5	90	2048	PP	218	6944	112	-35	-40	-19	-12	-4	-5	-3	-2	-1	-1	-1
450E	Z	4 A7	1003.5	90	2048	PP	220	11650	188	-17	-32	-16	-1	-6	-4	-3	-1	-2	-1	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L1S
Tx Loop : L-1
Date : Aug 12, 1990
File : L1SL1.PEM

Station	Cmp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
250W	X	6 A7	1003.5	90	2048	PP	173	-66	86	52	24	14	5	8	1	0	1	-1	-1	-1
225W	X	6 A7	1003.5	90	2048	PP	171	-65	91	58	31	15	5	5	2	1	1	-2	1	0
200W	X	6 A7	1003.5	90	2048	PP	169	-93	97	63	28	16	2	5	4	2	1	-1	-0	-0
175W	X	6 A7	1003.5	90	2048	PP	167	-99	94	61	32	13	8	6	6	2	-2	1	1	1
150W	X	6 A7	1003.5	90	2048	PP	164	-102	103	59	20	14	4	0	3	1	1	0	-2	-1
125W	X	6 A7	1003.5	90	2048	PP	162	-117	105	66	21	17	3	5	3	2	1	-2	-0	-2
100W	X	6 A7	1003.5	90	2048	PP	161	-156	92	57	31	10	4	1	3	-0	-0	-0	0	1
75W	X	6 A7	1003.5	90	2048	PP	159	-232	103	39	27	11	5	2	3	1	2	-1	-1	-1
50W	X	6 A7	1003.5	90	2048	PP	157	-245	106	49	28	13	8	6	2	2	1	-1	1	-0
25W	X	6 A7	1003.5	90	2048	PP	155	-276	107	55	23	9	2	6	1	0	1	-1	-1	-0
0E	X	6 A7	1003.5	90	2048	PP	153	-409	124	66	32	11	6	1	1	1	-0	3	0	-1
25E	X	6 A7	1003.5	90	2048	PP	151	-409	117	58	23	13	9	2	-0	2	-1	0	-1	0
50E	X	6 A7	1003.5	90	2048	PP	149	-457	120	62	24	12	4	4	3	-1	1	-1	-1	1
75E	X	6 A7	1003.5	90	2048	PP	147	-588	96	48	14	12	6	4	-0	3	-1	1	-1	2
100E	X	6 A7	1003.5	90	2048	PP	145	-581	85	52	22	7	0	2	1	1	1	-1	-1	1
125E	X	6 A7	1003.5	90	2048	PP	143	-638	74	37	10	1	4	4	2	-1	-2	-0	-0	0
150E	X	6 A7	1003.5	90	2048	PP	141	-646	51	23	11	3	0	5	1	2	-0	1	-1	1
175E	X	6 A7	1003.5	90	2048	PP	139	-921	55	26	9	6	2	1	3	0	-1	0	-0	0
200E	X	6 A7	1003.5	90	2048	PP	137	-969	32	14	0	2	-1	2	-1	0	1	1	-0	1
225E	X	6 A7	1003.5	90	2048	PP	135	-1119	12	10	7	5	-0	3	-2	3	-2	1	-0	-1
250E	X	6 A7	1003.5	90	2048	PP	133	-1336	1	7	9	3	-0	6	-2	0	-0	1	1	0
275E	X	6 A7	1003.5	90	2048	PP	131	-1422	-11	1	-4	3	1	0	1	1	-1	1	-1	-1
300E	X	6 A7	1003.5	90	2048	PP	129	-1696	-26	-5	2	2	-3	4	-1	-1	1	-1	-1	-0
325E	X	6 A7	1003.5	90	2048	PP	127	-2241	-49	-6	-4	-3	-0	5	3	-3	-1	-0	-0	-0
350E	X	6 A7	1003.5	90	2048	PP	125	-2715	-69	-14	1	2	-0	-1	1	1	-0	-2	1	1
375E	X	6 A7	1003.5	90	2048	PP	123	-3149	-115	-27	-4	-3	2	2	3	-0	2	1	1	0
400E	X	5 A7	1003.5	90	2048	PP	121	-3925	-136	-33	-1	-1	1	2	0	3	0	1	-0	-0
425E	X	5 A7	1003.5	90	2048	PP	119	-4489	-131	-13	-2	-4	-1	-1	2	1	1	-0	-1	-0
450E	X	6 A7	1003.5	90	2048	PP	117	-3623	-119	-19	-5	-2	2	-2	4	-1	0	2	1	-0
250W	Z	6 A7	1003.5	90	2048	PP	172	342	-64	-31	-26	-13	-6	-2	-5	-1	-1	-1	-0	0
225W	Z	6 A7	1003.5	90	2048	PP	170	361	-69	-31	-25	-15	-7	-4	-3	-2	-1	-0	-0	-1
200W	Z	6 A7	1003.5	90	2048	PP	168	376	-81	-37	-30	-15	-9	-4	-2	-3	-1	-1	-0	-0
175W	Z	6 A7	1003.5	90	2048	PP	166	398	-45	-49	-25	-15	-11	-8	-2	-5	-2	-3	-1	-1
150W	Z	6 A7	1003.5	90	2048	PP	165	418	-52	-50	-31	-19	-8	-6	-3	-2	-3	-1	-1	-1
125W	Z	6 A7	1003.5	90	2048	PP	162	438	-54	-54	-27	-20	-1	-7	-1	-4	-1	-1	-2	-0
100W	Z	6 A7	1003.5	90	2048	PP	160	467	-59	-52	-36	-18	-9	-6	-4	-2	-2	-1	-1	-0
75W	Z	6 A7	1003.5	90	2048	PP	158	491	-70	-60	-35	-21	-9	-7	-3	-3	-2	-1	-1	-0
50W	Z	6 A7	1003.5	90	2048	PP	156	540	-72	-60	-42	-22	-9	-6	-5	-3	-1	-1	-0	-0
25W	Z	6 A7	1003.5	90	2048	PP	154	578	-77	-64	-41	-20	-12	-5	-6	-2	-1	-1	-2	-0
0E	Z	6 A7	1003.5	90	2048	PP	152	638	-79	-76	-47	-24	-12	-6	-4	-1	-2	0	-0	-0
25E	Z	6 A7	1003.5	90	2048	PP	150	700	-93	-78	-45	-22	-13	-8	-2	-4	-2	-1	-1	-1
50E	Z	6 A7	1003.5	90	2048	PP	148	780	-100	-84	-52	-26	-13	-9	-6	-3	-0	-1	-1	-0
75E	Z	6 A7	1003.5	90	2048	PP	146	876	-110	-84	-46	-25	-13	-6	-5	-1	-2	0	-1	1
100E	Z	6 A7	1003.5	90	2048	PP	144	982	-110	-79	-48	-22	-13	-9	-5	-1	-2	-0	-0	-0
125E	Z	6 A7	1003.5	90	2048	PP	142	1114	-99	-82	-51	-25	-11	-9	-5	-3	-1	-1	-1	-0
150E	Z	6 A7	1003.5	90	2048	PP	140	1273	-100	-79	-41	-23	-1	-7	-3	-2	-2	-1	-1	-1
175E	Z	6 A7	1003.5	90	2048	PP	138	1498	-90	-83	-51	-25	-12	-8	-4	-4	-1	-1	-1	-0
200E	Z	6 A7	1003.5	90	2048	PP	136	1772	-66	-71	-41	-24	-12	-4	-4	-2	-1	-1	-1	0
225E	Z	6 A7	1003.5	90	2048	PP	134	2113	-74	-69	-41	-19	-8	-8	-4	-3	-1	-1	-1	-0
250E	Z	6 A7	1003.5	90	2048	PP	132	2658	-43	-68	-46	-23	-7	-6	-5	-3	-1	-0	-1	0
275E	Z	6 A7	1003.5	90	2048	PP	130	3285	-6	-62	-43	-21	-13	-3	-3	-2	-2	-0	-1	0
300E	Z	5 A7	1003.5	90	1024	PP	128	4163	61	-43	-44	-18	-15	-2	-5	-2	-3	-1	-1	0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L1S
Tx Loop : L-1
Date : Aug 12, 1990
File : L1SL1.PEM

Station	Comp	13	14	15	16
250W	X	-0	0	-0	0
225W	X	-0	0	0	0
200W	X	1	0	0	1
175W	X	-1	-0	-0	-0
150W	X	-1	0	0	0
125W	X	2	1	1	1
100W	X	2	1	-0	0
75W	X	1	0	-1	-1
50W	X	-0	-0	0	-0
25W	X	-0	0	1	0
0E	X	0	-0	-0	-0
25E	X	0	-0	0	0
50E	X	0	-0	-1	-0
75E	X	0	-0	0	-0
100E	X	-1	-0	-1	-0
125E	X	-1	0	-0	-0
150E	X	-1	-0	0	0
175E	X	-1	0	-0	-0
200E	X	-1	-0	0	-0
225E	X	-2	0	0	-0
250E	X	-1	0	-1	-1
275E	X	-0	-0	1	-0
300E	X	-0	1	0	0
325E	X	1	-1	0	0
350E	X	1	-0	-1	0
375E	X	0	1	1	-0
400E	X	1	0	0	0
425E	X	-2	-0	-0	0
450E	X	-0	-0	-0	0
250W	Z	-1	-0	0	-0
225W	Z	-0	0	0	-0
200W	Z	0	0	0	0
175W	Z	0	0	-0	0
150W	Z	-0	0	0	0
125W	Z	-1	0	-0	-0
100W	Z	-2	-0	-0	-0
75W	Z	0	1	0	0
50W	Z	-1	-0	-0	0
25W	Z	-0	-0	1	0
0E	Z	0	0	0	-0
25E	Z	-1	0	0	-0
50E	Z	-0	-0	-0	-0
75E	Z	-0	1	0	0
100E	Z	-0	0	1	0
125E	Z	0	-0	0	0
150E	Z	0	0	0	0
175E	Z	-0	-0	-0	0
200E	Z	-0	0	0	0
225E	Z	-0	0	0	0
250E	Z	0	0	1	0
275E	Z	-1	-0	0	-0

E GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.32 ms
Ramp Time : 1.00 ms

Line : L2S
Tx Loop : L-1
Date : Aug 16, 1990
File : L2SL1.PEM

Station	Cmp	Bains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
275W	X	6 A7	1003.5	90	1024	PP	55	-59	68	44	21	15	7	3	2	3	-1	-1	0	-0
250W	X	6 A7	1003.5	90	1024	PP	57	-87	73	41	19	8	6	3	2	1	0	1	-2	-0
225W	X	6 A7	1003.5	90	1024	PP	59	-63	84	40	20	12	9	2	5	-2	1	1	0	-0
200W	X	6 A7	1003.5	90	1024	PP	61	-82	80	43	24	14	4	1	3	2	-0	1	-1	-1
175W	X	6 A7	1003.5	90	2048	PP	63	-99	89	48	25	11	9	2	3	1	1	1	0	-0
150W	X	6 A7	1003.5	90	1024	PP	65	-110	88	52	22	10	1	4	2	2	1	1	0	1
125W	X	6 A7	1003.5	90	1024	PP	67	-146	93	44	18	13	5	3	-0	2	1	-0	-1	-1
100W	X	6 A7	1003.5	90	1024	PP	69	-120	96	44	23	14	7	7	-0	-0	-1	-1	0	-0
75W	X	6 A7	1003.5	90	1024	PP	71	-202	85	44	23	8	6	6	2	2	2	1	1	-0
50W	X	6 A7	1003.5	90	1024	PP	73	-225	95	54	29	11	4	3	2	1	1	1	1	0
25W	X	6 A7	1003.5	90	1024	PP	75	-270	97	53	17	9	5	3	2	-1	3	-1	-2	1
0E	X	6 A7	1003.5	90	2048	PP	77	-264	97	55	31	9	2	7	1	2	1	-0	1	-1
25E	X	6 A7	1003.5	90	1024	PP	79	-308	83	41	16	7	5	5	1	-0	-1	-1	1	-0
50E	X	6 A7	1003.5	90	1024	PP	81	-356	87	40	18	14	4	7	1	2	2	1	0	1
75E	X	6 A7	1003.5	90	1024	PP	83	-359	71	38	22	9	3	2	2	1	-0	-0	-0	0
100E	X	6 A7	1003.5	90	2048	PP	85	-382	55	22	1	5	4	1	0	1	-0	1	-0	-1
125E	X	6 A7	1003.5	90	2048	PP	87	-452	24	11	1	6	3	-1	0	0	1	-0	-0	0
150E	X	6 A7	1003.5	90	1024	PP	89	-502	50	25	9	5	3	0	4	2	-1	0	0	-1
175E	X	6 A7	1003.5	90	2048	PP	91	-575	31	18	8	3	3	2	2	-0	2	1	-0	1
200E	X	6 A7	1003.5	90	1024	PP	93	-713	9	10	7	6	3	4	4	-2	0	2	0	-0
225E	X	6 A7	1003.5	90	1024	PP	95	-820	13	8	2	6	2	-1	1	-0	2	2	0	-1
250E	X	6 A7	1003.5	90	1024	PP	97	-933	16	6	3	1	2	4	1	1	1	0	1	-1
275E	X	6 A7	1003.5	90	2048	PP	99	-1150	9	11	1	4	3	3	-0	-3	1	-1	0	1
300E	X	6 A7	1003.5	90	2048	PP	101	-1235	-5	6	-3	3	0	5	-1	0	-1	1	1	-0
325E	X	6 A7	1003.5	90	2048	PP	103	-1415	-6	5	-2	2	1	3	0	2	-1	2	-1	0
350E	X	6 A7	1003.5	90	2048	PP	105	-1736	-23	2	0	-1	-0	3	0	-0	-1	1	-1	-0
375E	X	6 A7	1003.5	90	4096	PP	107	-2088	-40	-5	-0	-1	0	2	-1	0	-1	1	-0	-0
400E	X	6 A7	1003.5	90	2048	PP	109	-3153	-56	-4	2	1	1	0	-1	0	-1	-1	1	-2
425E	X	5 A7	1003.5	90	2048	PP	111	-2751	-84	-18	-6	-3	1	3	0	-2	0	2	-1	-0
450E	X	5 A7	1003.5	90	2048	PP	113	-5484	-140	-16	-4	0	-7	-1	-1	1	-2	0	-1	-0
475E	X	5 A7	1003.5	90	2048	PP	115	-5888	-199	-30	-5	-7	-4	-0	-2	-1	-1	-3	0	-1
275W	Z	6 A7	1003.5	90	1024	PP	54	252	-33	-30	-21	-11	-9	-4	-3	-3	-0	-1	1	-1
250W	Z	6 A7	1003.5	90	1024	PP	56	260	-33	-35	-21	-12	-11	-4	-3	-1	-2	-1	-2	-0
225W	Z	6 A7	1003.5	90	1024	PP	58	274	-34	-33	-22	-13	-6	-6	-4	-1	-2	-1	-1	0
200W	Z	6 A7	1003.5	90	1024	PP	60	290	-30	-33	-25	-15	-9	-9	-4	-2	-1	-1	-1	-1
175W	Z	6 A7	1003.5	90	1024	PP	62	305	-42	-34	-22	-17	-7	-6	-3	-1	-2	-1	-0	-0
150W	Z	6 A7	1003.5	90	1024	PP	64	327	-50	-39	-27	-21	-7	-9	-6	-3	-3	-0	-0	-1
125W	Z	6 A7	1003.5	90	1024	PP	66	355	-57	-49	-31	-19	-8	-5	-6	-3	-1	-1	-1	-1
100W	Z	6 A7	1003.5	90	1024	PP	68	380	-70	-49	-30	-16	-8	-5	-4	-3	-1	-2	0	-0
75W	Z	6 A7	1003.5	90	1024	PP	70	416	-71	-57	-33	-17	-10	-5	-6	-2	-2	-1	-1	-1
50W	Z	6 A7	1003.5	90	1024	PP	72	432	-73	-61	-36	-18	-12	-5	-3	-1	-2	0	-0	-1
25W	Z	6 A7	1003.5	90	1024	PP	74	466	-81	-61	-39	-20	-10	-7	-4	-2	-2	-1	-1	-0
0E	Z	6 A7	1003.5	90	1024	PP	76	509	-92	-69	-38	-23	-12	-4	-4	-3	-1	-2	-0	-1
25E	Z	6 A7	1003.5	90	1024	PP	78	586	-95	-70	-38	-22	-1	-5	-5	-3	-1	-2	-1	-2
50E	Z	6 A7	1003.5	90	1024	PP	80	632	-95	-73	-45	-20	-11	-4	-5	-2	-1	-1	-1	0
75E	Z	6 A7	1003.5	90	1024	PP	82	702	-10	-70	-41	-20	-12	-7	-4	-3	-1	-1	-1	-1
100E	Z	6 A7	1003.5	90	1024	PP	84	812	-94	-69	-39	-20	-13	-5	-5	-3	-2	-0	-1	0
125E	Z	6 A7	1003.5	90	1024	PP	86	903	-78	-48	-30	-16	-8	-6	-4	-3	-0	-1	-0	-1
150E	Z	6 A7	1003.5	90	1024	PP	88	1079	-95	-73	-37	-23	-11	-7	-4	-4	-2	-1	-2	-1
175E	Z	6 A7	1003.5	90	1024	PP	90	1229	-85	-66	-40	-21	-12	-7	-4	-3	-0	-1	-0	-0
200E	Z	6 A7	1003.5	90	1024	PP	92	1388	-82	-56	-35	-22	-3	-4	-4	-3	-3	-1	-0	-0
225E	Z	6 A7	1003.5	90	1024	PP	94	1606	-71	-61	-39	-22	-8	-6	-3	-2	-1	-1	-0	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.33 ms
Ramp Time : 1.00 ms

Line : L2S
Tx Loop : L-1
Date : Aug 12, 1990
File : L2SL1.PEM

Station	Cmp	13	14	15	16
275W	X	0	-0	0	0
250W	X	-0	-0	-1	-0
225W	X	-0	-0	-0	1
200W	X	-1	-1	0	-1
175W	X	1	-1	0	0
150W	X	0	-1	-1	-1
125W	X	-0	-1	0	-0
100W	X	-1	0	-0	0
75W	X	0	-0	-0	1
50W	X	1	-0	-0	-0
25W	X	-0	-0	-1	0
0E	X	1	0	0	0
25E	X	0	-1	1	-0
50E	X	0	1	1	0
75E	X	-1	1	-0	1
100E	X	-0	-0	0	0
125E	X	-0	0	0	0
150E	X	-2	1	-0	-0
175E	X	0	0	1	1
200E	X	-0	-1	0	0
225E	X	-0	-1	-0	1
250E	X	-1	1	-1	-0
275E	X	-2	-1	-0	-1
300E	X	-1	-1	0	0
325E	X	-0	-1	0	0
350E	X	-1	-0	1	1
375E	X	-1	-1	-1	-0
400E	X	0	-0	-0	-0
425E	X	-0	1	0	-0
450E	X	-0	-0	-1	-0
475E	X	-2	-1	-0	0
275W	Z	-0	0	0	0
250W	Z	0	-0	0	-0
225W	Z	-0	-0	0	-0
200W	Z	-0	0	1	0
175W	Z	0	0	0	-0
150W	Z	-0	1	-0	-1
125W	Z	0	0	1	0
100W	Z	-0	0	1	0
75W	Z	0	0	0	-0
50W	Z	-0	0	0	-0
25W	Z	0	1	-0	-0
0E	Z	-0	1	-0	-0
25E	Z	1	1	0	-0
50E	Z	0	0	0	-0
75E	Z	0	1	1	0
100E	Z	-0	0	0	-0
125E	Z	0	0	1	0
150E	Z	1	1	1	0
175E	Z	-0	-0	-1	0
200E	Z	-0	-0	0	-0

CRONE GEOPHYSICS & EXPLORATION LTD
SURFACE PEM

Client : WHITECHANNEL
Grid : ICE-CLAIMS
Time Base : 8.32 ms
Ramp Time : 1.00 ms

Line : LSS
Tx Loop : L-1
Date : Aug 12, 1990
File : LSSL1.PEM

Station	Comp	Gains	ZTS	Delay	Stack	Ovld	Rdg#	PP	1	2	3	4	5	6	7	8	9	10	11	12
225W	X	6 A7	1003.5	90	1024	PP	52	-97	66	38	21	9	4	2	0	-1	0	-1	-0	-0
200W	X	6 A7	1003.5	90	1024	PP	51	-61	55	41	20	10	5	2	2	1	-0	1	1	-1
175W	X	6 A7	1003.5	90	1024	PP	49	-82	67	40	19	11	7	4	2	2	1	-1	0	1
150W	X	6 A7	1003.5	90	1024	PP	47	-74	75	42	25	1	5	3	3	2	0	0	0	-0
125W	X	6 A7	1003.5	90	1024	PP	45	-91	82	45	26	3	5	3	2	1	-1	-0	1	-1
100W	X	6 A7	1003.5	90	1024	PP	43	-10	91	44	16	1	4	2	1	2	2	-0	-0	-1
75W	X	6 A7	1003.5	90	1024	PP	41	-149	85	40	21	11	4	3	1	2	0	0	-0	-1
50W	X	6 A7	1003.5	90	2048	PP	39	-158	92	45	21	9	10	2	2	0	1	0	0	-0
25W	X	6 A7	1003.5	90	1024	PP	37	-159	94	42	17	5	4	2	1	-1	2	1	-1	-0
0E	X	6 A7	1003.5	90	1024	PP	35	-170	68	39	18	12	3	2	1	1	1	0	-0	0
25E	X	6 A7	1003.5	90	1024	PP	33	-158	66	35	18	8	6	3	1	1	-0	-0	-0	0
50E	X	6 A7	1003.5	90	1024	PP	31	-185	57	31	9	4	2	1	1	-1	2	-1	-2	-0
75E	X	6 A7	1003.5	90	1024	PP	29	-210	49	31	11	5	3	3	2	1	2	1	1	1
100E	X	6 A7	1003.5	90	1024	PP	27	-253	48	21	9	7	2	4	2	0	1	1	-1	-0
125E	X	6 A7	1003.5	90	1024	PP	25	-257	47	25	5	7	3	4	5	0	-1	2	0	0
150E	X	6 A7	1003.5	90	2048	PP	23	-310	24	18	7	3	3	3	2	0	2	-0	0	-1
175E	X	6 A7	1003.5	90	1024	PP	21	-409	33	15	4	-0	1	6	2	-1	-0	1	-1	-1
200E	X	6 A7	1003.5	90	2048	PP	19	-425	18	9	3	2	2	3	0	0	1	-1	-0	1
225E	X	6 A7	1003.5	90	1024	PP	17	-456	6	5	1	3	1	3	0	0	-1	-0	-0	0
250E	X	6 A7	1003.5	90	2048	PP	15	-430	1	6	2	3	1	1	1	0	1	-1	1	-0
275E	X	6 A7	1003.5	90	1024	PP	13	-782	-4	3	1	3	4	2	2	-0	0	0	0	-0
300E	X	6 A7	1003.5	90	2048	PP	11	-893	-15	-1	3	4	1	3	1	2	0	0	1	0
325E	X	6 A7	1003.5	90	1024	PP	9	-1250	-20	-3	-1	-2	0	3	-1	0	1	-2	0	-1
350E	X	6 A7	1003.5	90	1024	PP	7	-1543	-31	-4	1	1	2	0	1	-1	1	-0	-0	-0
375E	X	6 A7	1003.5	90	1024	PP	5	-2099	-48	-5	-3	-1	3	2	-1	-0	-0	-1	-1	1
400E	X	6 A7	1003.5	90	1024	PP	3	-2539	-59	-9	0	-0	-5	-2	3	1	1	-1	-1	1
225W	Z	6 A7	1003.5	90	1024	PP	52	222	-50	-34	-20	-16	-6	-6	-0	-2	-2	-0	-0	-0
200W	Z	6 A7	1003.5	90	1024	PP	50	229	-35	-31	-21	-17	-6	-3	-5	-2	-0	-2	-1	-0
175W	Z	6 A7	1003.5	90	1024	PP	48	257	-42	-37	-19	-15	-6	-5	-4	-4	0	-1	-2	-0
150W	Z	6 A7	1003.5	90	1024	PP	46	273	-49	-39	-27	-17	-7	-6	-1	-2	-1	-2	-2	-1
125W	Z	6 A7	1003.5	90	1024	PP	44	298	-53	-45	-27	-16	-1	-4	-4	-4	-3	-1	-1	-1
100W	Z	6 A7	1003.5	90	1024	PP	42	316	-54	-44	-27	-19	-9	-7	-3	-3	-1	-1	-1	-1
75W	Z	6 A7	1003.5	90	1024	PP	40	342	-67	-50	-32	-16	-9	-8	-2	-3	-3	-0	-1	-1
50W	Z	6 A7	1003.5	90	1024	PP	38	374	-73	-62	-35	-21	-11	-6	-5	-2	-1	-1	-1	-0
25W	Z	6 A7	1003.5	90	1024	PP	36	401	-82	-60	-34	-21	-11	-9	-3	-2	-2	-1	-1	-1
0E	Z	6 A7	1003.5	90	1024	PP	34	447	-82	-62	-36	-22	-10	-5	-5	-0	-2	-1	-0	-1
25E	Z	6 A7	1003.5	90	1024	PP	32	492	-89	-61	-36	-19	-12	-4	-3	-1	-2	-2	-0	-1
50E	Z	6 A7	1003.5	90	1024	PP	30	529	-87	-58	-42	-19	-10	-6	-4	-1	-2	-1	-2	-1
75E	Z	6 A7	1003.5	90	1024	PP	28	593	-89	-69	-40	-18	-12	-5	-5	-3	-3	-1	0	0
100E	Z	6 A7	1003.5	90	1024	PP	26	662	-98	-65	-36	-18	-1	-7	-2	-3	-1	-1	-1	0
125E	Z	6 A7	1003.5	90	1024	PP	24	764	-87	-61	-37	-21	-10	-6	-4	-2	-1	-0	-1	-0
150E	Z	6 A7	1003.5	90	1024	PP	22	860	-80	-59	-36	-18	-9	-6	-5	-2	-2	-1	-1	-0
175E	Z	6 A7	1003.5	90	1024	PP	20	996	-78	-61	-35	-17	-9	-6	-5	-1	-3	-1	-1	0
200E	Z	6 A7	1003.5	90	1024	PP	18	1140	-72	-62	-32	-18	-1	-6	-3	-2	-2	-0	-1	-0
225E	Z	6 A7	1003.5	90	1024	PP	16	1324	-61	-59	-35	-16	-11	-5	-4	-3	-2	-1	-2	0
250E	Z	6 A7	1003.5	90	1024	PP	14	1535	-54	-54	-35	-20	-9	-4	-7	-2	-2	-1	-1	-0
275E	Z	6 A7	1003.5	90	1024	PP	12	1817	-45	-52	-33	-16	-10	-5	-3	-2	-1	-1	-1	0
300E	Z	6 A7	1003.5	90	1024	PP	10	2212	-37	-48	-33	-15	-9	-7	-2	-3	-2	0	-0	-1
325E	Z	6 A7	1003.5	90	512	PP	8	2770	-18	-46	-36	-14	-6	-4	-5	-0	-2	-0	-1	-0
350E	Z	6 A7	1003.5	90	1024	PP	6	3544	-2	-43	-31	-15	-7	-6	-4	-2	-2	0	-1	-1
375E	Z	5 A7	1003.5	90	1024	PP	4	4669	24	-39	-32	-18	-8	-7	-4	-3	-2	-1	-1	-1

Appendix B

NAVARRE RESOURCES CORP.

Ice Claims-Main Grid Area Sample Record - Trenched Rock Chip Channel Samples

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52510	Main Grid	1+00E 0+00N	1.4	Bleached,silicified,pyritic (5%)	0.03	1.1	0.0	0.0	0.0
52511	"	0+00N 1+15E	1.0	" " "	0.03	1.7	0.0	0.0	0.0
52512	"	4+75W 9+75S	0.3	Quartz bx.,tr.sp.	0.29	32.1	0.0	0.04	0.3
52513	"	4+50W 9+50S	0.4	Qtz.vn.20%ank.5%ga.sp.(az.330,dip 75W)	0.18	32.0	0.1	6.84	1.48
52514	"	4+50W 9+00S	0.3	" " 20%ga.sp. "	0.06	46.4	0.07	15.62	8.21
52515	"	4+75W 8+75S	0.5	" " " "	0.07	60.3	0.05	21.46	1.66
52516	"	4+70W 8+60S	1.0	Qtz.vn.shear zone,tr.ga.sp.	0.38	39.8	0.16	0.06	0.3

B Grid- Ice Claim-Mt.Shorty Stevenson Sample Record - Trenched Rock Chip Channel Samples

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52517	Ice B Grid	0+00W 1+50S	float	Calcareous sst.,5% ank.,Mn-oxides	0.03	2.3	0.01	0.01	0.03
52518	"	3+50E 2+12S	0.8	Quartz(carbonaceous),8% py.	0.03	205.6	0.01	0.02	0.01
52519	"	3+20E 2+12S	1.0	" " ,30% py.	0.03	10.9	0.01	0.01	0.01
52520	"	4+00E 2+90S	0.5	" " ,60% py.	0.03	11.1	0.01	0.01	0.02
52521	"	4+10E 3+15S	float	" " ,30% py.	0.03	11.8	0.01	0.01	0.01
52522	"	3+25 E 2+20S	float	" " ,5% ank.,tr.ga.	0.03	9.9	0.01	0.32	0.19
52523	"	3+00E 1+70S	"	" " ,5% tetrahedrite	0.03	34.3	4.32	0.01	0.02
52524	"	3+10E 1+70S	0.7	Quartz-pyrite(5%)-sericite	0.03	4.3	0.01	0.02	0.01
52525	"	3+14E 1+68S	1.0	Carbonaceous quartz,py.,ser.	0.03	6.3	0.01	0.01	0.01
52526	"	3+10E 1+79S	0.2	Py.vn. (60% py.)	0.09	22.2	0.01	0.11	0.22
52527	"	3+08E 1+77S	1.8	Qtz.-py.-ser.	0.06	25.3	0.01	0.07	0.24
52528	"	2+88E 2+21S	0.6	Carbonaceous qtz.,3% py.	0.18	61.8	0.01	0.13	0.32
52529	"	2+65E 2+22S	0.3	" " "	0.05	99.4	0.01	0.01	0.05
52530	"	2+90E 2+50S	0.3	" " "	0.08	27.2	0.02	0.08	0.11

NAVARRE RESOURCES CORP.

B Grid- Ice Claims-Mt.Shorty Stevenson Sample Record - Trenched Rock Chip Channel Samples

Sample Number	Showing Name	Survey Location	Width (Metres)	Description	Au g/t	Ag g/t	Cu %	Pb %	Zn %
52531	Ice B Grid	3+00E 2+70S	0.4	3% graphite,3% py.,Mn-oxide	0.06	19.7	0.01	0.32	0.57
52532	"	3+00E 2+80S	0.3	" "	0.03	32.0	0.01	0.03	0.08
52533	"	0+75W 1+30S	float	Calcareous sst.,10% ank.	0.03	0.7	0.01	0.04	0.03
52541	"	4+50S 0+00W	0.1	Qtz.py.vn. in conglomerate host	0.05	12.9	0.01	0.01	0.01
52542	"	4+20S 0+25E	0.1	Qtz.,sp.,ga.	0.08	59.8	0.01	3.86	0.6
52545	"	4+00E 3+70S	0.7	Qtz.vn.,5% ga.sp.	2.93	896.0	0.01	1.35	7.56
52546	"	4+00E 5+25S	float	C.gr.massive galena	0.12	396.0	0.01	69.28	1.44

ECO-TECH LABORATORIES LTD.

NAVARRE RES. CORP. - ETS 90-9036

APPENDIX C

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

AUGUST 16, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE MAIN GRID
26 SOIL SAMPLES RECEIVED AUGUST 8, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9036 - 1	L0 + 00N 0+ 25E	5	.6	1.43	305	6	85	<5	.02	<1	10	4	23	4.89	.09	50	.40	553	46	.02	9	740	46	15	<20	5	.02	<10	20	10	6	122
9036 - 2	L0 + 00N 0+ 50E	10	1.2	1.41	545	8	80	<5	.02	<1	20	6	31	6.18	.08	30	.47	1056	35	.03	15	910	44	30	<20	5	.02	<10	22	20	5	203
9036 - 3	L0 + 00N 0+ 75E	10	.8	1.30	405	6	130	<5	.01	<1	15	5	28	6.01	.08	30	.52	567	27	.02	12	830	46	40	<20	6	.01	<10	21	10	6	163
9036 - 4	L0 + 00N 1+ 00E	25	2.4	1.09	160	6	70	<5	.03	<1	6	5	36	9.37	.07	<10	.78	464	17	.02	9	1570	32	20	<20	5	.01	10	27	10	2	166
9036 - 5	L0 + 00N 1+ 25E	55	2.2	1.12	165	<2	105	<5	.05	<1	7	5	53	11.07	.07	<10	.81	497	12	.02	10	1340	30	20	<20	9	.01	10	31	20	3	178
9036 - 6	L1 + 00S 0+ 00W	15	.2	.16	240	8	25	<5	.01	<1	3	<1	8	3.75	.03	<10	.04	79	13	.02	2	400	54	10	<20	2	<.01	<10	6	<10	1	47
9036 - 7	L1 + 00S 0+ 25W	<5	.6	.93	510	6	185	<5	.03	<1	35	<1	40	6.26	.13	60	.21	3547	15	.01	13	710	74	25	<20	8	.01	<10	10	30	7	566
9036 - 8	L1 + 00S 0+ 50W	35	1.0	.93	115	<2	160	<5	.04	<1	30	<1	40	4.62	.10	40	.34	2447	16	.02	9	590	120	10	<20	8	.01	<10	14	30	7	340
9036 - 9	L1 + 00S 0+ 75W	45	1.0	1.15	110	4	225	<5	.12	<1	36	<1	53	4.07	.11	30	.49	3845	11	.02	10	590	78	15	<20	10	.01	<10	18	20	6	272
9036 - 10	L1 + 00S 1+ 00W	<5	2.4	.71	110	6	105	<5	.06	<1	31	<1	26	3.68	.10	50	.28	1898	11	.02	13	440	142	15	<20	6	.01	<10	14	20	6	463
9036 - 11	L1 + 00S 1+ 25W	5	1.4	1.09	45	6	110	<5	.36	<1	17	2	39	3.94	.10	40	.57	1135	5	.02	8	960	88	5	<20	18	.03	<10	31	20	7	239
9036 - 12	L2 + 00N 0+ 50E	10	.2	2.64	90	4	105	<5	.02	<1	25	14	71	7.49	.06	20	1.34	941	9	.02	55	1680	26	10	<20	4	.01	<10	44	30	7	274
9036 - 13	L2 + 00N 0+ 75E	35	4.2	2.76	45	6	100	<5	.18	<1	37	23	77	6.90	.07	20	1.41	914	11	.02	74	2020	34	10	<20	9	.02	<10	50	10	10	280
9036 - 14	L2 + 00N 1+ 00E	5	.6	2.36	75	4	105	<5	.06	<1	14	18	62	7.19	.06	20	1.31	635	5	.02	49	1420	30	15	<20	5	.01	10	48	20	4	213
9036 - 15	L4 + 50W 9+ 75S	335	>30.0	1.32	30	20	245	<5	.31	104	42	15	717	4.18	.05	80	.97	4204	39	.01	4	980	49228	95	<20	24	.03	10	89	10	33	65207
9036 - 16	L4 + 50W 10+ 00S	160	16.8	2.07	35	2	845	<5	.59	78	41	9	163	5.58	.11	60	1.33	4367	22	.02	6	1330	3400	20	<20	56	.03	<10	95	<10	26	9946
9036 - 17	L4 + 50W 10+ 25S	45	8.0	2.25	40	<2	315	<5	.47	59	38	4	512	5.59	.10	50	1.30	4573	9	.02	7	1500	2020	5	<20	23	.04	<10	88	20	19	8028
9036 - 18	L4 + 50W 10+ 50S	1835	>30.0	2.37	40	4	290	<5	.27	77	47	7	6407	7.45	.13	80	1.04	4404	22	.01	5	5310	18454	50	<20	16	.02	<10	88	10	32	14727
9036 - 19	L4 + 50W 10+ 75S	345	10.6	1.87	35	4	370	<5	.24	20	60	5	166	6.20	.08	30	.87	4586	5	.02	5	1540	2278	15	<20	22	.03	<10	106	<10	11	2172
9036 - 20	L4 + 50W 11+ 00S	230	5.4	1.45	30	<2	210	<5	.17	4	48	1	69	5.75	.09	20	.78	4707	6	.02	6	1460	302	5	<20	18	.03	<10	75	20	6	800
9036 - 21	L4 + 50W 11+ 25S	30	2.4	1.83	20	4	345	<5	.28	16	42	4	74	4.80	.09	30	.74	4209	4	.02	5	1360	186	5	<20	18	.02	<10	72	10	12	907
9036 - 22	L4 + 50W 11+ 50S	40	1.6	1.47	25	10	235	<5	.22	4	28	3	38	4.71	.08	20	.68	3346	4	.02	2	1160	98	<5	<20	15	.03	<10	64	20	6	432
9036 - 23	L4 + 50W 11+ 75S	20	1.2	1.49	20	4	210	<5	.23	4	29	3	32	4.21	.08	20	.74	3268	3	.02	3	1120	138	5	<20	12	.02	<10	51	20	6	546
9036 - 24	L4 + 50W 12+ 00S	135	4.6	1.96	30	8	70	<5	.07	<1	19	6	54	4.71	.09	20	.76	2046	7	.02	4	1360	178	5	<20	7	.02	<10	54	10	5	850
9036 - 25	L4 + 50W 12+ 25S	130	4.0	1.63	320	6	140	<5	.02	3	40	7	59	6.59	.10	30	.60	4233	13	.02	3	2270	258	5	<20	9	.03	<10	55	10	3	796
9036 - 26	L4 + 50W 12+ 50S	115	2.8	1.76	1120	4	155	<5	.01	2	163	6	69	10.60	.07	20	.53	4146	12	.02	5	3430	302	10	<20	8	.02	<10	65	10	6	676

NOTE: < = LESS THAN

FAX: ANDRIX KITANKA 636-2850 DR. E. W. GROVE 658-5289
cc. DR. E. W. GROVE
4581 BOULDERWOOD DR. VICTORIA, B.C.
SC90/NAVARRE

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.SC.T.
B.C. CERTIFIED ASSAYER

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

AUGUST 16, 1990

CERTIFICATE OF ANALYSIS ETS 90-9036A

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SAMPLE IDENTIFICATION: 26 SOIL samples received AUGUST 8, 1990
PROJECT: ICE MAIN GRID

ET#	Description	AG (g/t)
9036 -	15 L4+50W 9+75S	103.2
9036 -	18 L4+50W 10+50S	199.8

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI A.SC.T.
B.C. Certified Assayer

FAX: ANDRIX KITANKA
636-2850
DR. E. W. GROVE
658-5289

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SC90/NAVARRE

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10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

NAVARRE RES. CORP. - ETS 90-9044

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

AUGUST 21, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE 8
59 SOIL SAMPLES RECEIVED AUGUST 13, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9044 - 1	L0 + 00W 0+ 25S	<5	.4	1.43	15	26	235	<5	.25	<1	19	5	38	4.95	.06	20	1.01	2096	1	.01	3	1130	24	10	<20	8	.05	<10	44	<10	12	131
9044 - 2	L0 + 00W 0+ 50S	<5	.2	1.26	15	28	275	<5	.23	<1	1	6	124	4.57	.08	<10	1.49	1955	2	.02	6	1490	16	10	<20	6	.09	<10	71	<10	16	126
9044 - 3	L0 + 00W 0+ 75S	<5	1.4	.82	10	26	360	<5	.46	<1	41	2	54	8.34	.17	30	.25	3438	<1	.02	<1	1920	42	10	<20	17	.01	<10	64	<10	14	266
9044 - 4	L0 + 25S 0+ 25E	<5	1.0	1.84	45	28	555	<5	.28	<1	34	7	97	7.29	.07	30	1.38	4130	2	.02	7	1280	68	10	<20	14	.06	<10	65	<10	26	249
9044 - 5	L0 + 25S 0+ 50E	115	1.6	1.36	55	34	740	<5	.41	<1	59	6	104	9.03	.08	30	.87	4033	<1	.02	7	1740	54	15	<20	23	.03	<10	75	<10	27	265
9044 - 6	L0 + 25S 0+ 75E	<5	1.0	1.92	35	26	620	<5	.54	<1	37	5	109	6.81	.09	30	1.12	4034	<1	.02	5	1600	38	5	<20	20	.04	<10	97	<10	21	165
9044 - 7	L0 + 00W 1+ 00S	<5	11.2	1.48	20	26	460	<5	.60	<1	29	3	148	7.69	.11	30	.86	4094	<1	.02	1	1910	78	10	<20	25	.03	<10	72	<10	14	254
9044 - 8	L0 + 00W 1+ 25S	15	5.6	1.40	20	22	900	<5	.49	<1	32	4	207	10.44	.08	30	.97	4006	<1	.02	<1	1430	68	30	<20	15	.04	<10	80	<10	16	249
9044 - 9	L0 + 00W 1+ 50S	15	6.4	1.50	15	24	305	<5	.50	<1	27	3	91	7.53	.09	30	.93	3317	<1	.02	<1	1750	78	5	<20	17	.03	<10	76	<10	16	250
9044 - 10	L0 + 25S 1+ 00E	<5	.6	2.24	15	20	385	<5	.69	<1	27	5	74	5.99	.1	10	1.52	3652	<1	.02	2	1690	12	5	<20	17	.07	<10	90	<10	12	102
9044 - 11	L0 + 25S 1+ 25E	10	.8	2.69	35	26	300	<5	1.00	<1	34	5	102	6.05	.1	10	1.34	3148	<1	.02	3	1160	36	5	<20	17	.04	<10	117	<10	15	138
9044 - 12	L0 + 25S 1+ 50E	<5	2.8	2.25	25	22	215	<5	.54	<1	29	7	65	5.74	.12	20	1.37	2343	<1	.02	3	1720	22	5	<20	16	.06	<10	100	<10	11	135
9044 - 13	L0 + 75W 0+ 75S	50	2.4	1.00	15	14	450	<5	.66	<1	28	2	51	6.57	.13	20	.56	3162	<1	.02	1	1760	22	5	<20	20	<.01	<10	54	<10	13	154
9044 - 14	L1 + 00W 0+ 00S	<5	.2	2.65	15	18	125	<5	.23	<1	26	10	41	5.85	.08	20	1.17	2269	<1	.03	7	1790	16	5	<20	12	.05	<10	94	<10	9	130
9044 - 15	L1 + 00W 0+ 25S	<5	.2	2.42	15	12	130	<5	.23	<1	24	8	42	5.47	.07	20	1.28	2077	1	.02	6	1560	14	5	<20	14	.03	<10	88	<10	9	110
9044 - 16	L1 + 00W 0+ 50S	10	.2	2.02	20	18	185	<5	.33	<1	30	6	47	5.56	.07	30	1.23	1971	<1	.02	3	1640	10	5	<20	17	.03	<10	73	<10	11	101
9044 - 17	L1 + 00W 0+ 75S	5	1.2	1.33	15	8	560	<5	.50	<1	41	3	67	7.38	.09	30	.75	4072	1	.01	2	2010	18	10	<20	20	.01	<10	74	<10	16	169
9044 - 18	L1 + 25W 0+ 75S	<5	1.2	1.34	15	10	510	<5	.53	<1	37	2	57	7.25	.1	30	.70	4067	<1	.02	1	2200	28	5	<20	19	<.01	<10	64	<10	14	158
9044 - 19	L1 + 50W 0+ 75S	10	1.0	1.27	10	8	620	<5	.53	<1	34	4	97	7.20	.1	30	.78	4234	<1	.02	<1	2130	18	10	<20	19	.01	<10	77	<10	15	158
9044 - 20	L2 + 50E 0+ 00S	10	3.8	1.48	15	8	490	<5	.42	<1	36	4	71	6.94	.09	30	.99	3353	1	.2	<1	1750	36	5	<20	19	.02	<10	84	<10	12	242
9044 - 21	L2 + 50E 0+ 25S	5	2.2	1.62	20	10	315	<5	.48	<1	26	2	60	6.13	.08	20	1.13	2631	2	.1	3	1700	42	10	<20	17	.04	<10	61	<10	10	169
9044 - 22	L2 + 50E 0+ 50S	10	6.6	1.64	20	22	725	<5	.53	<1	35	3	77	7.36	.13	30	.88	3616	2	.02	4	1750	58	15	<20	26	.03	<10	64	<10	13	209
9044 - 23	L2 + 50W 0+ 25S	30	.8	2.34	10	2	310	<5	.19	<1	21	7	119	5.29	.08	20	.98	2264	2	.01	7	1570	22	5	<20	14	.02	<10	71	<10	10	102
9044 - 24	L2 + 50W 0+ 50S	50	3.8	2.08	30	<2	650	<5	.29	<1	34	3	77	9.53	.06	40	.80	3453	5	.01	6	2230	102	20	<20	22	.01	<10	70	<10	27	302
9044 - 25	L2 + 50W 0+ 75S	110	2.8	.80	10	<2	660	<5	.47	<1	32	4	96	8.02	.12	20	.44	3239	2	.01	7	1680	18	15	<20	17	.01	<10	46	<10	17	177
9044 - 26	L2 + 50E 1+ 50S	70	12.4	.77	20	<2	175	<5	.20	<1	21	1	51	4.41	.18	30	.24	1923	5	.02	4	1130	174	5	<20	57	<.01	<10	18	<10	5	393

ECO-TECH LABORATORIES LTD. NAVARRE RES. CORP. - ETS 90-9044

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9044 - 27	L2 + 50E 1+ 75S	60	26.4	1.31	40	<2	145	<5	.33	<1	24	3	65	5.57	.12	20	.67	2834	5	.01	5	1610	154	10	<20	16	.01	<10	45	<10	7	349
9044 - 28	L2 + 50E 2+ 00S	45	12.0	1.13	60	<2	320	<5	.36	<1	27	4	56	6.14	.08	20	.69	3460	5	.01	5	1550	92	10	<20	20	.02	<10	59	<10	9	386
9044 - 29	L2 + 50E 2+ 25S	75	22.2	.81	45	<2	150	<5	.36	<1	26	4	64	6.15	.07	20	.41	3446	6	.02	6	1570	218	10	<20	22	.01	<10	45	10	9	785
9044 - 30	L2 + 50W 0+ 00S	85	2.6	2.01	10	<2	180	<5	.33	<1	22	10	81	5.58	.08	20	1.14	1159	2	.02	11	1360	18	10	<20	20	.03	<10	81	<10	13	151
9044 - 31	L2 + 75W 0+ 75S	<5	1.6	.70	5	<2	1105	<5	.66	<1	58	<2	72	9.51	.16	30	.31	3468	2	.01	7	2020	12	20	<20	17	.01	<10	72	<10	15	247
9044 - 32	L3 + 00E 1+ 00S	60	6.0	.93	15	<2	265	<5	.46	<1	21	3	51	4.36	.09	20	.53	2182	1	.01	3	1760	82	5	<20	24	.01	<10	43	<10	7	251
9044 - 33	L3 + 00E 1+ 25S	20	8.8	1.26	20	<2	555	<5	.39	<1	46	2	173	8.33	.11	30	.67	3458	19	.01	4	1760	90	15	<20	26	.01	<10	72	<10	11	266
9044 - 34	L3 + 00E 1+ 50S	10	6.0	1.35	20	<2	200	<5	.48	<1	24	3	84	5.50	.09	20	.68	2532	3	.02	4	1850	54	5	<20	19	.02	<10	40	<10	8	290
9044 - 35	L3 + 00E 2+ 00S	30	16.2	.96	60	<2	450	<5	.24	<1	26	3	47	6.36	.08	30	.46	3445	8	.02	4	1770	110	10	<20	18	<.01	<10	41	10	8	532
9044 - 36	L3 + 00E 2+ 25S	720	24.6	.79	80	<2	305	<5	.14	5	36	3	67	7.98	.07	20	.43	3403	11	.02	4	2350	130	15	<20	17	.01	<10	51	10	8	816
9044 - 37	L3 + 00E 2+ 75S	60	16.2	1.11	50	<2	280	<5	.46	<1	18	5	63	5.69	.08	20	.68	3455	4	.02	4	1470	118	10	<20	22	.01	<10	63	20	8	1101
9044 - 38	L3 + 50E 1+ 00S	50	2	3.73	15	8	155	<5	.28	<1	29	2	56	6.05	.11	10	.52	3695	2	.01	5	1860	130	5	<20	22	.07	<10	42	<10	10	354
9044 - 39	L3 + 50E 1+ 25S	35	7.6	1.54	15	8	620	<5	.53	2	37	2	134	6.61	.12	30	.72	2445	9	.01	3	2070	142	5	<20	25	.01	<10	61	<10	12	342
9044 - 40	L3 + 50E 1+ 75S	40	10.4	1.44	35	8	270	<5	.35	4	32	3	69	5.87	.09	30	.68	2467	4	.01	2	2300	258	5	<20	18	.01	<10	42	10	8	579
9044 - 41	L3 + 50E 2+ 00S	<5	12.8	.64	95	4	175	<5	.04	2	12	2	27	5.86	.22	20	.20	1693	42	.01	<1	2390	618	10	<20	18	.01	<10	20	<10	3	353
9044 - 42	L3 + 50E 2+ 25S	80	11.8	.86	45	2	125	<5	.13	3	20	1	29	5.10	.11	20	.40	2104	6	.01	1	1690	246	5	<20	10	<.01	<10	27	<10	4	301
9044 - 43	L3 + 50E 2+ 50S	60	28.6	.82	85	4	245	<5	.21	10	25	2	51	5.43	.07	20	.44	2049	6	.01	2	1730	516	10	<20	12	<.01	<10	37	10	7	706
9044 - 44	L3 + 50E 2+ 75S	160	20.6	.94	40	2	300	<5	.35	7	22	3	68	5.22	.07	20	.61	2041	8	.02	2	1760	720	5	<20	18	.01	<10	44	10	9	793
9044 - 45	L3 + 50E 0+ 00S	<5	.2	2.06	10	4	40	<5	.24	<1	15	3	28	3.93	.06	20	1.12	665	1	.01	2	1270	14	5	<20	11	.01	<10	36	<10	4	92
9044 - 46	L3 + 50W 0+ 50S	<5	3.8	2.01	10	4	115	<5	.26	<1	21	7	39	4.70	.07	20	1.20	1363	<1	.01	6	1230	18	5	<20	13	.02	<10	56	<10	8	122
9044 - 47	L3 + 50W 1+ 25S	<5	2.2	1.88	10	4	115	<5	.35	<1	17	5	35	4.14	.08	10	1.08	1063	1	.02	3	1400	18	5	<20	14	.04	<10	46	<10	6	99
9044 - 48	L4 + 00W 0+ 00S	<5	1.0	2.28	10	<2	230	<5	.32	<1	27	7	78	5.65	.09	20	1.03	2080	2	.01	8	1950	16	10	<20	13	.01	<10	79	<10	20	154
9044 - 49	L4 + 00E 1+ 00S	15	4.6	1.13	20	4	520	<5	.40	2	24	2	50	5.29	.12	30	.57	2059	2	.01	2	1540	130	5	<20	19	.01	<10	42	<10	9	329
9044 - 50	L4 + 00E 1+ 25S	205	5.4	1.12	10	4	440	<5	.49	<1	24	2	68	5.19	.1	20	.59	2070	2	.01	2	1700	134	5	<20	23	.02	<10	46	<10	9	281
9044 - 51	L4 + 00E 1+ 50S	15	5.6	1.24	20	4	275	<5	.43	2	23	2	49	5.20	.09	20	.57	2078	2	.01	2	1590	198	5	<20	15	.01	<10	35	<10	8	290
9044 - 52	L4 + 00E 1+ 75S	<5	6.8	1.11	20	4	265	<5	.42	<1	23	2	58	4.57	.1	20	.54	2078	3	.01	1	1760	178	5	<20	16	.01	<10	28	<10	8	355
9044 - 53	L4 + 00E 2+ 00S	<5	.2	3.18	15	6	180	<5	.43	<1	22	11	55	4.58	.09	10	1.79	1630	2	.02	8	1400	14	5	<20	12	.10	<10	107	<10	8	95
9044 - 54	L4 + 00E 2+ 50S	<5	.8	3.73	25	4	165	<5	.28	3	30	13	133	5.32	.08	20	1.86	2109	1	.02	12	1990	24	5	<20	22	.07	<10	137	<10	15	143
9044 - 55	L4 + 00E 2+ 75S	85	22.0	1.11	55	8	310	<5	.36	<1	23	4	56	5.49	.08	20	.66	2490	10	.01	3	1850	390	10	<20	18	.01	<10	50	10	9	960
9044 - 56	L4 + 00E 3+ 00S	90	20.8	.74	75	6	155	<5	.09	<1	20	2	62	6.93	.16	20	.34	2498	2	.01	1	1940	650	10	<20	14	.01	<10	37	10	4	944
9044 - 57	L4 + 00E 3+ 25S	65	21.6	1.30	65	6	195	<5	.27	<1	35	3	161	7.07	.11	20	.59	2460	2	.02	3	1880	910	15	<20	17	.01	<10	58	20	9	1188
9044 - 58	L4 + 50W 0+ 00S	30	10.2	1.10	50	8	310	<5	.28	9	29	2	51	5.97	.11	40	.43	2475	7	.01	3	2020	314	10	<20	21	.01	<10	27	10	11	1110
9044 - 59	L4 + 50W 0+ 25S	35	26.6	1.03	75	8	275	<5	.31	<1	29	2	57	6.13	.11	30	.48	2486	7	.01	3	2030	258	5	<20	15	.01	<10	39	10	9	714

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NAVARRE RES. CORP. - ETS 90-9089

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

PTEMBER 14, 1990

LUES IN PPM UNLESS OTHERWISE REPORTED

GE 1

PROJECT: ICE B
36 SOIL SAMPLES RECEIVED SEPTEMBER 6, 1990

#	DESCRIPTION			AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
89 - 1	1B	1+00OS	5,500	FT	5	2.0	.89	15	6	675	<5	.41	<1	15	<1	23	4.36	.10	35	.48	4713	<1	<.01	2	1509	32	<5	<20	18	.01	<10	38	<10	11	219
89 - 2	1B	5+00S	6,000	FT	130	4.9	1.36	28	11	212	<5	.36	3	17	9	66	5.72	.07	22	.31	4482	<1	<.01	9	1165	210	<5	<20	16	.03	<10	83	<10	12	583
89 - 3	1B	5+50S	6,000	FT	15	4.3	1.41	31	13	478	<5	.55	1	21	8	59	6.79	.06	23	.89	7247	1	<.01	7	1214	106	<5	<20	21	.03	<10	35	<10	16	398
89 - 4	1B	6+00S	6,000	FT	10	2.5	1.30	23	14	672	<5	.56	2	18	4	34	6.02	.10	32	.79	9146	2	<.01	5	1281	86	<5	<20	27	.02	<10	70	<10	15	350
89 - 5	1B	6+50S	6,000	FT	10	2.1	1.96	53	10	1439	<5	.50	2	33	<1	19	10.27	.13	21	.58	11678	1	<.01	3	1294	113	<5	<20	38	<.01	<10	137	<10	17	914
89 - 6	1B	7+00S	5,500	FT	10	1.5	2.36	14	10	368	<5	.49	<1	17	19	31	5.54	.17	28	1.18	3724	<1	.03	21	1644	78	<5	<20	23	.13	<10	79	<10	22	393
89 - 7	1B	7+50S	5,500	FT	5	1.4	1.33	12	11	546	<5	.32	<1	16	6	21	5.49	.07	29	.79	4529	<1	<.01	6	1203	81	<5	<20	14	.03	<10	59	<10	13	265
89 - 8	1B	7+50S	6,000	FT	15	2.2	1.26	14	9	460	<5	.37	<1	15	4	20	5.20	.07	22	.77	5447	<1	<.01	4	1174	73	<5	<20	18	.02	<10	72	<10	12	312
89 - 9	1B	8+00S	5,500	FT	15	2.3	1.36	18	13	363	<5	.24	<1	17	5	20	5.93	.07	24	.74	5105	<1	<.01	5	1082	64	<5	<20	15	.02	<10	76	<10	12	327
89 - 10	1B	8+00S	6,000	FT	15	2.8	1.55	15	8	495	<5	.43	<1	18	4	24	5.86	.11	22	1.02	5172	<1	<.01	3	1315	42	<5	<20	24	.02	<10	75	<10	13	298
89 - 11	1B	8+50S	5,500	FT	10	2.0	1.43	13	8	232	<5	.22	<1	14	7	23	5.09	.07	22	.76	2939	<1	.02	5	1013	71	<5	<20	14	.03	<10	74	<10	11	245
89 - 12	1B	8+50S	6,000	FT	10	2.9	.81	13	11	615	<5	.46	<1	17	3	21	4.99	.08	20	.47	4774	<1	<.01	2	1565	56	<5	<20	20	.01	<10	54	<10	13	301
89 - 13	1B	9+00S	5,500	FT	5	2.1	.98	14	9	586	<5	.35	<1	18	3	20	5.55	.09	23	.51	4390	<1	<.01	4	1387	45	<5	<20	15	.02	<10	60	<10	13	294
89 - 14	1B	9+00S	6,000	FT	<5	1.8	.64	21	12	1988	<5	.36	<1	21	<1	14	5.25	.08	24	.31	7088	<1	<.01	3	1289	43	<5	<20	29	.01	<10	37	<10	12	221
89 - 15	1B	9+50S	5,500	FT	10	3.1	.90	10	8	786	<5	.38	1	17	<1	19	4.86	.13	27	.42	4837	<1	<.01	2	1379	58	<5	<20	21	.01	<10	36	<10	12	354
89 - 16	L3	+00E	0+25	N	5	.9	3.22	<5	6	295	<5	.36	<1	15	11	85	4.61	.08	17	1.11	3589	<1	<.01	5	1830	57	<5	<20	44	.03	<10	103	<10	9	147
89 - 17	L3	+00E	0+50	N	30	3.6	2.91	10	6	432	<5	.62	<1	17	7	199	5.14	.08	23	1.47	5218	1	<.01	5	1082	94	<5	<20	58	.04	<10	120	<10	24	172
89 - 18	L3	+00E	0+75	N	65	4.3	1.73	5	9	1132	<5	.69	<1	14	3	121	4.09	.08	26	.93	9471	8	<.01	3	1561	44	<5	<20	28	.01	<10	59	<10	25	134
89 - 19	L3	+00E	1+00	N	15	2.0	2.72	16	9	439	<5	.44	<1	26	6	95	4.89	.10	27	1.03	4592	2	<.01	6	1321	43	<5	<20	16	.02	<10	81	<10	24	137
89 - 20	L3	+00E	1+25	N	10	.5	2.86	9	7	207	<5	.22	<1	20	7	48	4.87	.08	16	1.08	2404	<1	<.01	6	1282	26	<5	<20	10	.02	<10	71	<10	10	122
89 - 21	L3	+00E	1+50	N	30	1.1	2.98	10	10	199	<5	.24	<1	19	8	65	4.98	.10	21	1.23	3490	<1	<.01	7	1415	37	<5	<20	17	.04	<10	75	<10	16	137
89 - 22	L3	+00E	1+75	N	10	2.1	2.32	7	7	283	<5	.44	<1	21	6	120	5.25	.10	23	1.49	2975	<1	<.01	6	1219	31	<5	<20	22	.04	<10	80	<10	20	145
89 - 23	L3	+00E	0+00	S	50	.9	2.57	7	5	318	<5	.31	<1	14	9	86	4.62	.10	19	.95	2110	<1	<.01	5	1650	59	<5	<20	18	.01	<10	81	<10	10	156
89 - 24	L3	+00E	0+25	S	55	2.1	2.57	10	6	357	<5	.31	<1	15	6	92	5.54	.10	26	.93	2667	<1	<.01	5	1662	37	<5	<20	19	.01	<10	93	<10	19	167
89 - 25	L3	+00E	0+50	S	5	1.0	2.57	<5	6	369	9	.32	<1	15	6	63	6.63	.10	20	.70	2330	<1	<.01	5	1533	27	<5	<20	19	<.01	<10	89	<10	15	152
89 - 26	L3	+00E	0+75	S	90	13.6	1.30	<5	11	1106	14	.40	15	29	2	91	10.07	.09	19	.75	8721	<1	<.01	5	1268	395	<5	<20	23	.02	<10	55	<10	18	1102

ECO-TECH LABORATORIES LTD. NAVARRE RES. CORP. - ETS 90-9089

AGE 2

#	DESCRIPTION			AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
89 - 27	L4	400E	3+50	S	165	32.0	.93	56	9	251	12	.24	12	22	2	67	9.73	.07	14	.44	7623	4	<.01	5	1401	428	9	<20	15	<.01	<10	45	<10	10	1119
89 - 28	L4	400E	3+75	S	235	25.3	1.34	17	15	465	14	.31	38	18	4	60	10.05	.06	21	.75	18463	3	<.01	5	1175	2198	7	<20	27	.02	<10	61	<10	15	2325
89 - 29	L4	400E	4+00	S	175	45.1	1.14	16	9	421	12	.37	23	22	2	83	8.48	.08	20	.63	14501	3	<.01	4	1338	3884	7	<20	23	.01	<10	54	<10	13	2619
89 - 30	L4	400E	4+25	S	80	15.4	.92	27	9	130	12	.80	13	21	3	111	8.64	.08	12	.43	8855	2	<.01	5	1228	494	<5	<20	19	.01	<10	53	<10	10	1625
89 - 31	L4	400E	4+50	S	255	14.7	1.04	28	11	1020	23	.18	64	24	<1	108	19.77	.09	10	.30	13161	6	<.01	3	1098	1565	<5	<20	32	.01	<10	41	19	8	6140
89 - 32	L4	400E	4+75	S	430	27.2	1.09	23	5	299	15	.39	49	24	2	183	10.51	.09	15	.49	11363	2	<.01	4	1007	3889	<5	<20	16	<.01	<10	61	18	11	6291
89 - 33	L4	400E	5+00	S	25	5.0	1.08	10	10	709	8	.46	17	21	4	36	5.65	.08	27	.61	10327	<1	<.01	4	1403	299	<5	<20	24	.02	<10	62	<10	15	1309
89 - 34	L4	400E	5+25	S	60	18.9	1.46	39	11	381	11	.37	12	23	4	54	7.99	.04	23	.81	9179	1	<.01	4	1205	617	<5	<20	16	.02	<10	90	<10	14	1417
89 - 35	L4	400E	5+50	S	105	6.6	.99	12	10	557	8	.35	11	18	3	24	6.84	.07	18	.55	7400	<1	<.01	3	1503	421	<5	<20	14	.02	<10	60	<10	12	1220
89 - 36	NO CODE NUMBER				35	.4	3.14	<5	8	262	6	.37	<1	15	11	49	5.03	.11	17	1.24	2026	<1	<.01	9	1400	26	<5	<20	15	.06	<10	67	<10	16	133

NOTE: < = LESS THAN

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90/NAVARRE

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ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

AUGUST 15, 1990

CERTIFICATE OF ANALYSIS ETS 90-9035A

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SAMPLE IDENTIFICATION: 7 ROCK samples received AUGUST 8, 1990
PROJECT: ICE

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	PB (%)	ZN (%)
9035 - 1	52510	<.03	<.001	1.1		
9035 - 2	52511	<.03	<.001	1.7		
9035 - 3	52512	.29	.008	32.1		
9035 - 4	52513	.18	.005	32.0	6.84	1.48
9035 - 5	52514	.06	.002	46.4	15.62	8.21
9035 - 6	52515	.07	.002	60.3	21.46	1.66
9035 - 7	52516	.38	.011	39.8		

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FAX - 604-573-4557

NAVARRE RES. CORP. - ETS 90-9035

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

AUGUST 15, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE
7 ROCK SAMPLES RECEIVED AUGUST 8, 1990

ET#	DESCRIPTION	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9035 - 1	52510	1.0	.21	35	6	15	<5	.01	<1	3	132	<1	4.00	.16	10	.02	82	11	.01	1	80	12	10	<20	3	<.01	<10	3	<10	1	2
9035 - 2	52511	1.6	.15	45	6	5	<5	<.01	<1	4	116	1	8.12	.11	<10	.01	206	11	.03	2	120	8	5	<20	1	<.01	<10	3	<10	1	33
9035 - 3	52512	>30.0	.61	5	6	40	<5	.02	26	5	157	14	2.73	.06	<10	.32	1038	11	.01	<1	350	4166	10	<20	3	<.01	<10	35	10	1	2969
9035 - 4	52513	>30.0	1.19	10	8	145	<5	1.55	72	10	128	955	3.93	.07	<10	.79	3035	17	.02	4	720	>10000	55	<20	14	.01	<10	73	10	4	>10000
9035 - 5	52514	>30.0	.39	30	28	55	<5	.80	117	8	149	726	2.79	.06	<10	.17	1318	39	.02	2	700	>10000	65	<20	14	.01	<10	29	10	2	>10000
9035 - 6	52515	>30.0	.65	10	12	35	<5	.03	105	2	143	533	2.56	.07	10	.06	309	22	.02	1	1190	>10000	90	<20	41	<.01	<10	48	<10	1	>10000
9035 - 7	52516	>30.0	1.72	20	4	95	<5	.05	16	6	113	1627	5.15	.11	<10	.76	2348	14	.01	1	960	6416	15	<20	3	<.01	<10	80	10	1	3022

NOTE: < = LESS THAN

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ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

AUGUST 22, 1990

CERTIFICATE OF ANALYSIS ETS 90-9043

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

A S S A Y S

SAMPLE IDENTIFICATION: 17 ROCK samples received AUGUST 13, 1990
PROJECT: ICE B

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	AG (oz/t)	CU (%)
9043 - 1	52517	<.03	<.001	2.3	.07	
9043 - 2	52518	<.03	<.001	205.6	6.00	
9043 - 3	52519	<.03	<.001	10.9	.32	
9043 - 4	52520	<.03	<.001	11.1	.32	
9043 - 5	52521	<.03	<.001	11.8	.34	
9043 - 6	52522	<.03	<.001	9.9	.29	
9043 - 7	52523	<.03	<.001	34.3	1.00	4.32
9043 - 8	52524	<.03	<.001	4.3	.13	
9043 - 9	52525	<.03	<.001	6.3	.18	
9043 - 10	52526	.09	.003	22.2	.65	
9043 - 11	52527	.06	.002	25.3	.74	
9043 - 12	52528	.18	.005	61.8	1.80	
9043 - 13	52529	.05	.001	99.4	2.90	
9043 - 14	52530	.08	.002	27.2	.79	
9043 - 15	52531	.06	.002	19.7	.58	
9043 - 16	52532	<.03	<.001	32.0	.93	
9043 - 17	52533	<.03	<.001	.7	.02	

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KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

NAVARRE RES. CORP. - ETS 90-9043

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

AUGUST 22, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE B
17 ROCK SAMPLES RECEIVED AUGUST 13, 1990

ET#	DESCRIPTION	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9043 - 1	52517	3.4	.53	10	10	190	<5	5.04	<1	9	37	18	2.86	.14	10	.16	1437	2	.02	<1	870	42	<5	<20	34	<.01	<10	26	<10	4	387
9043 - 2	52518	>30.0	.25	20	8	100	<5	2.92	<1	5	146	9	1.17	.03	10	.23	1101	9	.01	1	170	166	<5	<20	24	<.01	<10	9	<10	1	105
9043 - 3	52519	13.4	.12	60	6	5	<5	.02	<1	2	37	3	6.49	.09	<10	.01	5	8	.01	<1	250	29	25	<20	2	<.01	10	4	<10	<1	33
9043 - 4	52520	13.6	.16	100	8	5	<5	.01	<1	4	50	5	6.52	.13	<10	.01	18	8	.01	<1	220	114	20	<20	1	<.01	<10	4	<10	<1	184
9043 - 5	52521	14.4	.64	160	8	15	5	.15	<1	11	55	16	6.51	.1	<10	.32	729	66	.01	<1	910	39	25	<20	4	<.01	<10	29	<10	2	164
9043 - 6	52522	13.2	.09	10	8	165	<5	2.82	26	10	136	29	2.65	.03	10	.03	2456	9	.01	3	150	3190	5	<20	18	<.01	<10	6	30	3	1979
9043 - 7	52523	>30.0	.64	15	8	90	<5	.46	<1	2	162	>10000	3.38	.07	<10	.14	274	13	.01	1	>10000	50	<5	<20	113	<.01	<10	73	20	1	248
9043 - 8	52524	6.4	.13	20	10	10	<5	.05	<1	5	117	92	4.00	.11	<10	<.01	121	45	.01	<1	100	194	10	<20	3	<.01	<10	4	<10	<1	194
9043 - 9	52525	8.8	.15	30	10	10	<5	<.01	<1	2	86	79	4.08	.15	<10	.01	23	45	.01	<1	150	122	<5	<20	3	<.01	<10	5	<10	<1	107
9043 -10	52526	28.6	.20	45	8	<5	<5	.01	15	3	72	30	6.57	.14	<10	.01	15	43	.01	<1	260	1148	15	<20	2	<.01	<10	5	30	<1	2217
9043 -11	52527	24.8	.23	35	8	10	<5	.01	22	4	78	24	4.34	.16	<10	.03	26	24	.01	<1	120	680	15	<20	2	<.01	<10	6	40	<1	2412
9043 -12	52528	>30.0	.09	40	10	35	<5	.03	23	3	199	77	2.25	.06	<10	.01	165	19	.01	2	240	1302	15	<20	8	<.01	<10	7	50	<1	3231
9043 -13	52529	>30.0	.09	25	8	350	<5	.01	<1	3	153	77	1.38	.02	<10	.02	457	19	.01	<1	170	750	10	<20	6	<.01	<10	5	10	<1	519
9043 -14	52530	27.2	.21	20	10	70	<5	.07	<1	3	221	218	1.26	.02	<10	.09	1679	15	.01	3	220	765	5	<20	10	<.01	<10	11	10	1	1131
9043 -15	52531	19.6	.55	25	12	100	<5	1.91	41	7	143	115	2.44	.03	<10	.32	2521	12	.01	3	400	3152	15	<20	20	<.01	<10	37	100	1	5705
9043 -16	52532	>30.0	.26	50	10	60	<5	.80	15	6	72	23	6.53	.07	<10	.07	730	13	.01	4	330	424	35	<20	21	<.01	<10	13	10	1	793
9043 -17	52533	.6	.45	25	10	1035	<5	11.87	4	35	4	3	6.53	.06	10	.51	2442	5	.01	1	430	38	10	<20	347	<.01	<10	66	<10	7	317

NOTE: < = LESS THAN

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SEPTEMBER 7, 1990

CERTIFICATE OF ANALYSIS ETS 90-9076A

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SAMPLE IDENTIFICATION: 2 ROCK samples received AUGUST 30,1990
PROJECT: ICE

ET#	Description	AU (g/t)	AU (o/t)	AG (g/t)	AG (oz/t)	PB (%)
9076 - 1	52541	.05	.001	12.9	.376	
9076 - 2	52542	.08	.002	59.8	1.744	3.86

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

FAX:684-5135

cc. DR. E. W. GROVE
4581 BOULDERWOOD DR.
VICTORIA, B.C.

SC90/NAVARRE

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

NAVARRE RES. CORP. - ETS 90-9076

201-744 WEST HASTINGS ST.
VANCOUVER,B.C.
V6C 1A5

SEPTEMBER 7, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE PROJECT
2 ROCK SAMPLES RECEIVED AUGUST 30,1990

ET#	DESCRIPTION	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9076 - 1	52541	13.6	.11	1325	54	10	<5	.08	46	19	89	80	5.66	.02	<10	.06	244	8	.04	5	110	62	35	<20	1	<.01	<10	11	<10	<1	39
9076 - 2	52542	>30.0	.20	30	88	5	<5	1.66	>1000	10	93	52	2.54	.01	<10	.34	2293	46	.04	2	10	>10000	35	<20	13	<.01	<10	26	1750	1	6045

NOTE: < = LESS THAN
> = GREATER THAN

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10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 13, 1990

CERTIFICATE OF ANALYSIS ETS 90-9088A

NAVARRE RES. CORP.
201 - 744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SAMPLE IDENTIFICATION: 5 ROCK/CORE samples received SEPTEMBER 6,1990
---------- PROJECT: ICE

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	AG (oz/t)	PB (%)	ZN (%)
9088 - 1	52545	2.93	.085	896.0	26.13	1.35	7.56
9088 - 2	52546	.12	.003	396.0	11.55	69.28	1.44
9088 - 3	52551	<.03	<.001	17.7	.52		
9088 - 4	52552	.03	.001	108.6	3.17		
9088 - 5	52553	<.03	<.001	12.5	.37		

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B.C. Certified Assayer

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SC90/NAVARRE1

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NAVARRE RES. CORP. - ETS 90-9088

201-744 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 1A5

SEPTEMBER 13, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE PROJECT
5 ROCK/CORE SAMPLES RECEIVED SEPTEMBER 6, 1990

ET#	DESCRIPTION	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9088 - 1	52545	>30.0	.97	6	<2	96	<5	3.66	369	6	25	42	3.08	<.01	<10	.63	4006	3	<.01	<1	25	8722	<5	<20	<1	<.01	<10	31	160	<1	>10000
9088 - 2	52546	>30.0	.03	<5	<2	17	<5	.07	381	1	15	7	.41	<.01	<10	.03	139	3	<.01	<1	<10	>10000	265	<20	23	<.01	<10	2	<10	<1	>10000
9088 - 3	52551	17.3	.68	21	<2	51	<5	2.27	2	14	15	41	3.85	.18	14	.90	1649	<1	<.01	4	1205	394	8	<20	78	<.01	<10	21	<10	6	197
9088 - 4	52552	>30.0	.74	34	<2	36	<5	1.56	5	15	29	37	3.86	.19	12	.79	1231	2	<.01	4	1039	709	<5	<20	64	<.01	<10	20	<10	4	481
9088 - 5	52553	10.6	1.08	17	3	35	<5	1.39	<1	16	28	23	4.25	.20	15	1.01	1229	<1	<.01	5	1152	95	<5	<20	54	<.01	<10	34	<10	4	179

NOTE: < = LESS THAN

FAX: ANDRIS KIKAUKA
684-5135
DR. E. W. GROVE
658-5289
STEWART OFFICE

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

cc. DR. E. W. GROVE

ECO-TECH LABORATORIES LTD.
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OCTOBER 5, 1990

CERTIFICATE OF ANALYSIS ETS 90-9141

NAVARRE RESOURCES CORP.
201 - 744 W. HASTINGS
VANCOUVER, B.C.

A S S A Y S

SAMPLE IDENTIFICATION: 2 CORE samples received SEPTEMBER 28, 1990
ICE PROJECT

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	AG (oz/t)	ZN (%)
9141 - 2	52567	1.79	.052	343.0	10.00	9.24

FAX: 684-5135
ATTENTION: A. KIKUAKA
& STEWART LAB

ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI, A.SC.T.
B.C. Certified Assayer

cc: DR. E. W. GROVE
FAX: 658-5289
4581 BOULDERWOOD DR.
VICTORIA, B.C.

SC90/NAVARRE#4

ECO-TECH LABORATORIES LTD.

NAVARRE RES. CORP. ETS 90-9141

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

201-744 WEST HASTINGS ST.
VANCOUVER,B.C.
V6C 1A5

ER 5, 1990

S IN PPM UNLESS OTHERWISE REPORTED

PROJECT: ICE PROJECT
2 CORE SAMPLES RECEIVED SEPTEMBER 28,1990

	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CO	CD	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
1	52566	50	20.9	.17	20	<2	8	18	2.55	9	10	27	24	4.70	.08	13	.36	2790	11	<.01	1	680	309	<5	<20	37	<.01	<10	16	8	3	469
2	52567	>1000	>30.0	.41	10	<2	34	28	5.40	246	4	56	299	4.65	.03	12	.75	4715	21	<.01	<1	81	3664	21	<20	87	<.01	<10	21	169	<1	>10000

< = LESS THAN
> = GREATER THAN

84-5135
TEWART LAB
.W. GROVE 658-5289

E.W. GROVE
6581 BOULDERWOOD
VICTORIA, B.C.

AVARRE#3

ECO-TECH LABORATORIES LTD.
FRANK PEZZOTTI, A.Sc.T.
CERTIFIED ASSAYER

Appendix D

NAVARRE RESOURCES LTD. - ICE PROJECT - DRILL HOLE REPORT

HOLE-ID: I-90-1

EASTING: 17209.7 NORTHING: 25788.8 ELEVATION: 1845.0 DIP: -55.0 LENGTH: 98.8

SURVEY DATA	FROM (M)	TO	AZIMUTH	DIP
	.0	98.8	120.0	-55.0

LITHOLOGY DATA

FROM (M)	TO	CODE	ROCK-A/N	ROCK DESCRIPTION
.0	4.6	0	OB	CASING
4.6	13.4	0	T	TUFF Lapilli tuff, green to light grey matrix, 1-40 mm red hematitic clasts (reaction rims bleached white).
13.4	15.5	0	SS	SANDSTONE Maroon tuffaceous sandstone, hematitic redbed.
15.5	16.1	0	FT	FAULT Fault with quartz ankerite veinlets, quartz-ankerite blebs to 5. 0 cm at 36.57 to 38.1 m; weak foliation at 50 deg to core axis; 1-2 mm quartz veinlets.
16.1	46.9	0	SS	SANDSTONE Maroon tuffaceous sandstone, hetatitic redbed.
46.9	51.8	0	SS	SANDSTONE Green dacitic tuffaceous sandstone, 1-8 mm quartz veinlets at 20 -30 deg to core axis.
51.8	51.8	0	FT	WEAK FAULT
51.8	73.2	0	SS	SANDSTONE Green dacitic tuffaceous sandstone, 1-8 mm quartz veinlets at 20 -30 deg to core axis.
73.2	73.5	0	FT	STRONG FAULT (mud)
73.5	74.7	0	SS	SANDSTONE Green dacitic tuffaceous sandstone, as above.
74.7	75.3	0	FT	STRONG FAULT (mud)
75.3	91.4	0	SS	SANDSTONE Green dacitic tuffaceous sandstone, as above.
91.4	98.8	0	F	FELSITE Felsite, bleached, fine grain, pyritic, sericitic, grey-green colour, probably an altered volcaniclastic relict breccia texture visible. NQ Core, logged by A.Kikauka, END OF HOLE

ASSAY DATA

FROM (M)	TO	AU G/T	AG G/T	PB PPM	ZN PPM	SAMPLE NO	MINERALIZATION

53.6	55.2	.02	17.70	394.00	197.00	52651	5% diss. py 1-2 mm blebs, 1-3 mm qtz vnl
55.2	55.8	.03	108.60	709.00	481.00	52652	8% diss py, 4-12 cm qtz vnlts at 30 deg
55.8	56.7	.02	12.50	95.00	179.00	52653	5% diss py 1-2 mm blebs, 1-5 mm qtz vnlt
97.5	98.6	.01	20.90	309.00	669.00	52666	1-3cm qtz vns @ 45 deg, 2% py, tr galena
98.6	98.8	1.79	343.00	81.00	92400.00	52667	40% grey/bl qtz, 4% galena, tetrhedrite?

END OF HOLE: I-90-1

APPENDIX E

ECO-TECH LABORATORIES LTD.
ASSAYING • ENVIRONMENTAL TESTING
10041 East Trans Canada HWY., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.

2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.

3. Heavy Mineral Separation:
Samples are screened to -20 mesh, washed and separated in Tetrabromoethane. (SG 2.96)

METHODS OF ANALYSIS

All methods have either certified or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble), Pb, Mn, Ni, Ag, Zn, Mo

Digestion	Finish
Hot aqua-regia	Atomic Absorption, background correction applied where appropriate

A) Multi-Element ICP

Digestion	Finish
Hot aqua-regia	ICP

2. Antimony

Digestion	Finish
Hot aqua regia	Hydride generation - A.A.S.

3. Arsenic

Digestion	Finish
Hot aqua regia	Hydride generation - A.A.S.

4. Barium

Digestion	Finish
Lithium Metaborate Fusion	I.C.P.

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5. **Beryllium**

Digestion	Finish
Hot aqua regia	Atomic Absorption

6. **Bismuth**

Digestion	Finish
Hot aqua regia	Atomic Absorption

7. **Chromium**

Digestion	Finish
Sodium Peroxide Fusion	Atomic Absorption

8. **Fluorine**

Digestion	Finish
Lithium Metaborate Fusion	Ion Selective Electrode

9. **Mercury**

Digestion	Finish
Hot aqua regia	Cold vapor generation - A.A.S.

10. **Phosphorus**

Digestion	Finish
Lithium Metaborate Fusion	I.C.P. finish

11. **Selenium**

Digestion	Finish
Hot aqua regia	Hydride generation - A.A.S.

12. **Tellurium**

Digestion	Finish
Hot aqua regia Potassium Bisulphate Fusion	Hydride generation - A.A.S. Colorimetric or I.C.P.

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13. Tin

Digestion	Finish
Ammonium Iodide Fusion	Hydride generation - A.A.S.

14. Tungsten

Digestion	Finish
Potassium Bisulphate Fusion	Colorimetric or I.C.P.

15. Gold

Digestion	Finish
a) Fire Assay Preconcentration followed by Aqua Regia	Atomic Absorption

b) 10g sample is roasted at 600°C then digested with hot Aqua Regia. The gold is extracted by MIBK and determined by A.A.

16. Platinum, Palladium, Rhodium

Digestion	Finish
Fire Assay Preconcentration followed by Aqua Regia	Graphite Furnace - A.A.S.