

年度の調査により、更に100m×400mの範囲に、NW-SE方向に並んで点在する。個々の鉱染帯及び細脈もNW-SE方向が多い。母岩は、強珪化、二次黒雲母化を受けている。鉱石分析の結果は、最高Ag 0.6g/t, Cu0.04%である。

(3) 中部鉱化帯

中部鉱化帯は、Motilones 沢に位置する。鉱化帯は、優黒質閃緑岩、花崗閃緑岩及び Macuchi 層中の黄銅鉱 - 黄鉄鉱鉱染及び細脈帯である。個々の鉱化帯は、50m×350mの範囲に点在して分布する。鉱石分析の結果は、最高Au 0.2g/t, Ag 2.1g/t, Cu0.47%であった。母岩の変質は、強い珪化と弱い緑泥石化である。X線回折の結果、ほかに絹雲母が同定された。

6-1-4 帯磁率測定

帯磁率測定及び地化学探査に関して、チャソ・ファン地区同様の解析を実施した結果図を Fig. II-6-3 に示す。帯磁率の強～中異常帯は、小規模かつ断続的なものが20箇所抽出された。そのうち北東部から南部にかけての16箇所は、鉱化作用に伴う消磁現象と考えられる。北部及び北東部の4か所の異常帯は、Macuchi 層の凝灰岩の分布域に一致する。

6-1-5 考 察

2年間における地質調査、帯磁率測定及び岩石地化学探査により把握された本地区の鉱化帯の性状は、次のとおりである。

本地区の主要な鉱化帯は、NW-SE系の断層及び優黒質閃緑岩貫入岩に沿い、又は周辺部に分布し、その方向性はNW-SE系である。本地区北部のバルサパンバ地区及び前述のテリンベラ地区などの鉱化帯や貫入岩類の方向性が、エクアドル中央部から北部に伸びる大構造線とほぼ同方向、すなわち、NE-SW系であることと対象的である。本地区の鉱化作用は、上述の大構造線と共役関係にあるNW-SE系の断層又は貫入岩と何らかの関係があると考えられる。

アングス北部鉱化帯は、NW-SE系の北部・中部鉱化帯の北西部への延長と、バルサパンバ地区・エル・トルネアド区域及び同オソウワイコ区域に特徴的な、NE-SW系の方向性を有する鉱化帯の南西方向への延長との交差部に位置する。これは、鉱床が胚胎する場の問題、つまり構造トラップあるいは富鉱部を推定する意味で、重要である。したがって、本年度、この鉱化帯の調査が取上げられた理由もここにある。しかしながら、鉱石分析の結果では金・銀・銅とも高い含有量のものも得られたが、鉱床としてのまとまりは認められない。また、北部・中部鉱化帯においても、各鉱化帯は断続的で、小規模である。

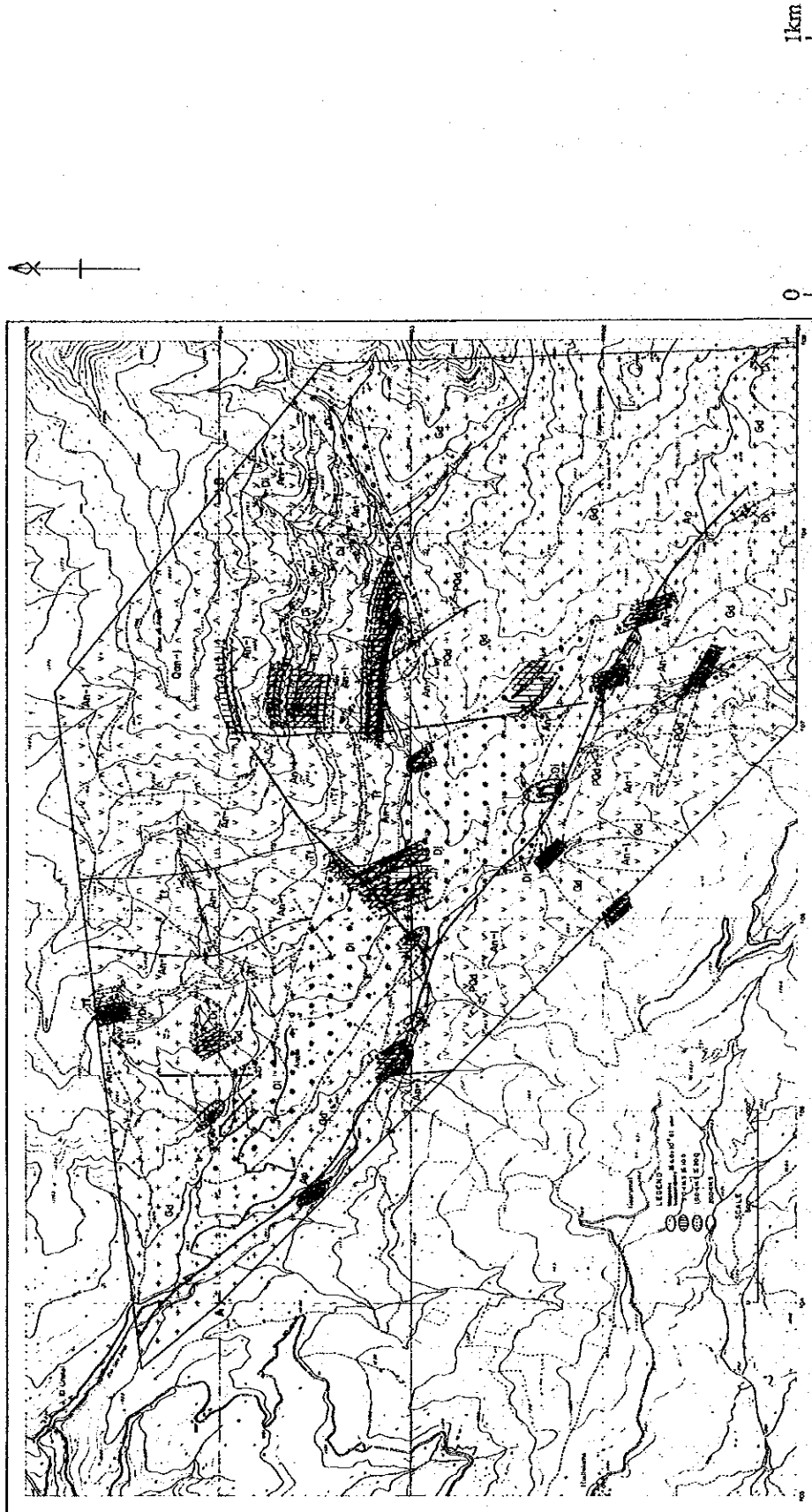


Fig. II-6-3 Interpretation map of magnetic susceptibility of the Las Guardias area

第Ⅲ部 結論及び提言

第1章 結 論

エクアドル共和国ボリバール地域の第2年次調査は、次の5地区において、地質状況を解明することにより、鉱床の賦存状況を把握することを目的として実施された。バルサパンバ地区・エル・トルネアド区域では物理探査（試錐孔IP法）及びボーリング調査、バルサパンバ地区・オソウアイコ区域では物理探査（IP法）、チャソ・ファン地区では地質精査及び物理探査（IP法）、テリンペラ地区及びラス・ゲアルディアス地区では地質精査、ラ・インダストゥリアーヤトゥビ地区では地質精査・地化学探査（土壌）が実施された。調査結果は次のとおりである。

(1) バルサパンバ地区・エル・トルネアド区域

本区域のポーフリーカッパー型鉱化帯は、巨視的に花崗閃緑岩パソリスの北東縁辺部に胚胎する。鉱化帯は、産状及び性状の違いから、“鉱染状鉱化帯”と“網状脈鉱化帯”に区分される。前者は、平面的に400m×400mの範囲に広がり、後者は、前者の分布域に、幅40～70m、延長70～350mの規模で、NNE-SSW方向に伸長して分布している。両者の関係は、前者を後者が切り、鉱化時期は、前者が先で、後者が後である。“鉱染状鉱化帯”は、鉱化帯Bを中心に広がり、そこにおける代表的鉱石の分析結果は、Cu0.03%である。“網状脈鉱化帯”は、鉱化帯A・C・D・Eがこれに相当し、代表的鉱石の分析結果は、鉱化帯A：Cu0.66%、鉱化帯D：Cu0.03%である。

本年次の物理探査の結果、両鉱化帯の下限より上部の硫化鉱物の賦存状況が把握された。昨年度の地質調査及びボーリング調査の結果、両鉱化帯の水平及び垂直方向における産状、鉱物の共生関係及び変質などの一定の変化が認められた。本年次のボーリング調査の結果、“網状脈鉱化帯”の下限をぬいたこと、さらには、“鉱染状鉱化帯”も下限に近づきつつある現象が認められた。以上のことから判断し、エル・トルネアド区域では、鉱化帯の中心部は侵蝕され、現在の地表には鉱化帯の下底部付近が露出しているものと考えられる。したがって、本区域の鉱化帯は、本格的鉱山開発の対象となり得ないことが2年間の調査で判明した。

(2) バルサパンバ地区・オソウアイコ区域

本区域の地質は、Macuchi層と、これに貫入する花崗閃緑岩から構成される。鉱化帯には北西部と南部の2箇所があり、タイプが異なる。前者は、花崗閃緑岩中に胚胎する黄銅鉱-黄鉄鉱鉱染及び細脈帯で、100m×200mの広がりをもつ。鉱染状鉱の分析結果は、Cu0.08%である。後者は、Macuchi層の凝灰岩層中に胚胎する珪化と部分的なスカルン化を受けた変質岩中の黄銅鉱-黄鉄鉱鉱染及び細脈帯である。本帯は2条あり、走向はほぼNE-SW系、傾斜は30°SEである。北西側の下位の脈のチップの分析結果は、Au 0.4g/t、Ag27.8g/t、Cu2.65%である。物理探査の結果、高見掛比抵抗及び高FE（5%以上）が南東方向の傾斜で連続していることから、これら

の鉍化帯は、さらに深部へ連続しているものとみられる。

また、本地区の北東部に、低見掛比抵抗及び高FE（8%以上）が確認された。本地区は風化土壤に被覆され詳細は不明であるが、下部に新たな潜頭性鉍化帯の存在が期待される。

(3) チャソ・ファン地区

本地区の地質は、Macuchi 層と、これに貫入する花崗岩類から成る。花崗岩類は、本地区に広く分布する花崗閃緑岩、及び優黒質閃緑岩・石英閃緑岩岩脈に分けられる。鉍化作用はポーフィリー・銅型で、北部・西部・中部・南部鉍化帯がある。北部鉍化帯は、幅10~15mの鉍化帯が、3箇所、400m間に点在する。そのひとつからの鉍石分析結果は、Ag 1.3 g/t, Cu0.10%である。西部鉍化帯は、幅約25mで、鉍石分析結果は、Au0.1 g/t, Ag 1.7g/t, Cu0.24%である。中部鉍化帯は、600m×400mの範囲に、11箇所の鉍徴が点在する。主要鉍化帯は、延長約150mで、鉍石分析結果は、最高Au 0.1g/t, Ag 4.2g/t, Cu1.41%である。南部鉍化帯は、800m×300mの範囲に分布し、東部と西部に分けられる。前者は延長約300mで、鉍石分析結果は、最高Au 0.1 g/t, Ag7.6 g/t, Cu1.46%である。後者は脈幅1~10cmの細脈が2列分布する。本地区で、探査上、重要なところは、中部鉍化帯から南部鉍化帯にかけての範囲である。ここには、物理探査の結果、IP異常源が想定され、鉍化帯の広がりが期待される。

(4) テリベラ地区

本地区の地質は、Macuchi 層と、これに貫入する花崗岩類から成る。花崗岩類は、角閃石-黒雲母石英閃緑岩・角閃石石英閃緑岩・石英斑岩・優黒質閃緑岩岩脈・斑状石英閃緑岩岩脈に区分され、これらはNE-SW方向に配列して貫入している。

本地区のポーフィリー・銅型鉍化帯は、ボリバーラ地域の中では最も規模が大きく、Macuchi 層まで強い鉍化作用が認められ、かつ、花崗岩類には、鉍化帯を中心として、黄鉄鉍の鉍染及び細脈が広範囲に分布している。これは、各鉍化帯を中心として、活発な熱水活動があったことを意味し、探査上、重要な地区である。鉍化帯は、巨視的に、NE-SW方向に配列して分布する。鉍化帯は、7帯認められ、中部、南部及び北部鉍化帯にまとめられる。中部鉍化帯には、500m×350mの広がりの鉍化帯Ⅰと200m×400mの広がりの鉍化帯Ⅱがある。鉍石分析結果は、鉍化帯Ⅰ：最高Cu 1.6%、鉍化帯Ⅱ：最高Au 0.2g/t, Ag 1.6g/t, Cu0.16%である。南部鉍化帯は400m×900mの広がりの鉍化帯Ⅲ、延長約150m 鉍化帯Ⅳ及び延長200mの鉍化帯Ⅴがある。鉍石分析結果は、いずれも最高Cu0.05%である。北部鉍化帯は、本年度調査で確認された新鉍化帯で、400m×1, 200mの広がりの鉍化帯Ⅵ、及び延長約400mの鉍化帯Ⅶがある。鉍石分析結果は、鉍化帯Ⅵ：最高Cu0.80%、鉍化帯Ⅶ：最高Cu1.65%である。

本地区の鉍化帯が分布している地帯には、多数の貫入岩類がNE-SW方向に配列して貫入している。本地区北部には、エクアドルの中央部から北部に連続する大構造線がNE-SW方向に横切

っており、貫入岩及び鉍化帯の配列方向がこれと一致することは、本地区の火成活動及び熱水活動が本構造線と関係を有していたことを暗示する。

(5) ラ・インダストゥリアーヤトッピ地区

本地区の地質は、石英閃緑岩バソリスと優黒質閃緑岩岩脈から成る。

本地区の鉍化作用には、温泉型金及びポーフイリーカッパー型鉍化作用が認められる。前者は、下位に白色粘土（カオリン）変質帯、上位に珪化帯が分布し、その両者にまたがって金属センター針状鉍物－赤鉄鉍－石英－白色粘土網状脈が胚胎する。鉍石分析結果では、最高Au 0.3g/tである。珪化帯の露頭は山頂部だけに分布し、山頂部近くから白色変質帯になっていること、珪化帯は強い付加型の珪化岩であること等から、珪化帯の大部分は侵蝕され、山頂部に分布する珪化岩は、珪化帯の底部が残存したものとみられる。

また、本地区には、黄鉄鉍を伴う変質帯（絹雲母化と弱い珪化）が分布する。これは、本地区北部に存在するポーフイリーカッパー鉍化帯に関連するものとみられる。

(6) ラス・グアルディアス地区

本地区の地質は、Macuchi 層と、これに貫入する花崗閃緑岩バソリス及び優黒質閃緑岩・斑状石英閃緑岩岩脈から構成される。

本地区のポーフイリーカッパー型鉍化帯は、12箇所に認められ、NW－SE系の断層及び優黒質閃緑岩貫入岩に沿って分布する。この方向は、他地区の鉍化帯や貫入岩の方向がNE－SW系であることと対照的である。

Angas 北部鉍化帯は、250m×500mの範囲に鉍徴が点在し、鉍石分析結果、最高Cu0.35%である。北部鉍化帯は、100×400mの範囲に鉍徴がNW－SE方向に点在し、鉍石分析結果は、最高Cu0.04%である。中部鉍化帯は、50m×250mの範囲に鉍徴が点在し、鉍石分析結果は、最高Cu0.47%である。本地区の各鉍化帯は、他の地区に比べ小規模断続的である。

第2章 第3年次調査への提言

第2年次調査結果から、第3年次調査として次の調査が提言される。

(1) バルサパンバ地区・オソウアイコ区域 (Fig. III-2-1)

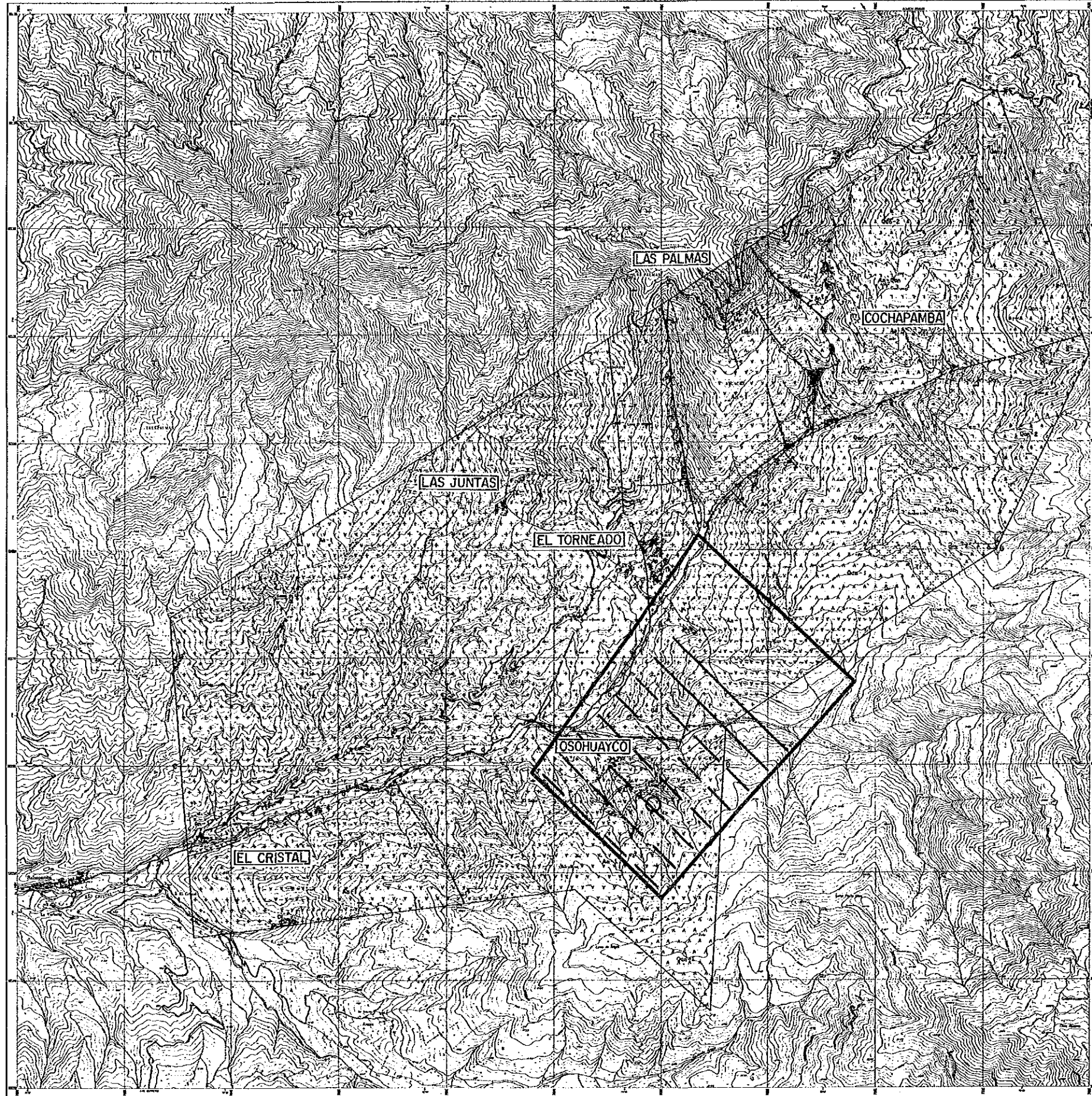
本区域北東部において確認された物理探査の異常帯、すなわち、低見掛比抵抗・高FE (8%以上)の異常帯は、規模が大きい。北東端の測線では、12.5%と10.3%の高いFE値も認められる。この異常帯は更に北東方向に広がるようであるが、その全貌が把握されていない。また、本箇所は風化土壌で被覆されているために、鉍化帯の実体が不明である。そのため、ここにおける鉍化帯の実体と広がり把握するために、ピット・トレンチ 開削を伴う地質調査及び物理探査 (IP法) 2測線の追加を行うことが望ましい。

さらに、北東部の異常帯の下部に期待される潜頭性鉍化帯及び本区域南部に分布する Macuchi 層中の2条の鉍化帯の賦存状況を把握するために、ボーリング調査を実施することが望まれる。特に、後者については、物理探査の結果、鉍化帯が下方に連続していることが想定され、深部に発達すると考えられる花崗閃緑岩中で、鉍化帯の賦存状況がどのようになっているかのデータを収集する。このデータは、当国の Macuchi 層中に認められる類似の鉍徴地に対する探鉍指針を提供するものとする。

(2) テリンベラ地区 (Fig. III-2-2)

本地区北東部に、本年次調査によって見出された鉍化帯は、規模も大きく、比較的品位も高い。これらの鉍化帯は本地区の鉍化帯の配列方向、すなわち、NE方向に更に広がるようであるが、鉍化露頭の地表における広がり等の鉍化帯の賦存状況の全貌がまだ明らかにされていない。そのため、これらの鉍化帯の全貌を明らかにするためのピット・トレンチ開削を伴う鉍化・変質帯調査が必要である。さらに、鉍化帯の下部への連続及び広がりを把握するために、物理探査 (IP法) 及びボーリング調査を行うことが望まれる。

BALZAPAMBA



LEGEND

Quaternary	Q	Gravel, sand, clay
	Qon-2	Quartz-bq. andesite lava with its pyroclastics (F Member)
	An-1	Alteration of andesite and quartz-bq. andesite lavas with their pyroclastics (E Member)
	An-3	Andesite lava with quartz-bq. andesite lava (D Member)
	Tf	Andesite to quartz-bq. andesitic pyroclastics (D Member)
	An-2	Andesite lava (C Member)
	Qon-1	Quartz-bq. andesite lava with its pyroclastics (B Member)
Cretaceous Mochali Formation	An-1	Andesite lava with its pyroclastics and sediment (Tf), and borefels (A Member)
	Gd	Gneiss
	Di	Metacrotic diorite dyke
	Tr	Trachandesite dyke
Intrusive Rocks	Ap	Aplitic dyke

	Dip and strike of bedding plane
	Geological boundary
	Fault
	Anticlinal axis
	Synclinal axis
	Mineralized zone (Presumed)
	Vein
	Alteration zone
	Section line
	Recommended area for third year survey
	Recommended drill point (MJE-7)
	Recommended IP survey line
	IP surveyed line

0 2km

Fig. III-2-1 Recommended area for third year survey of the Osohuayco, Balzapamba area

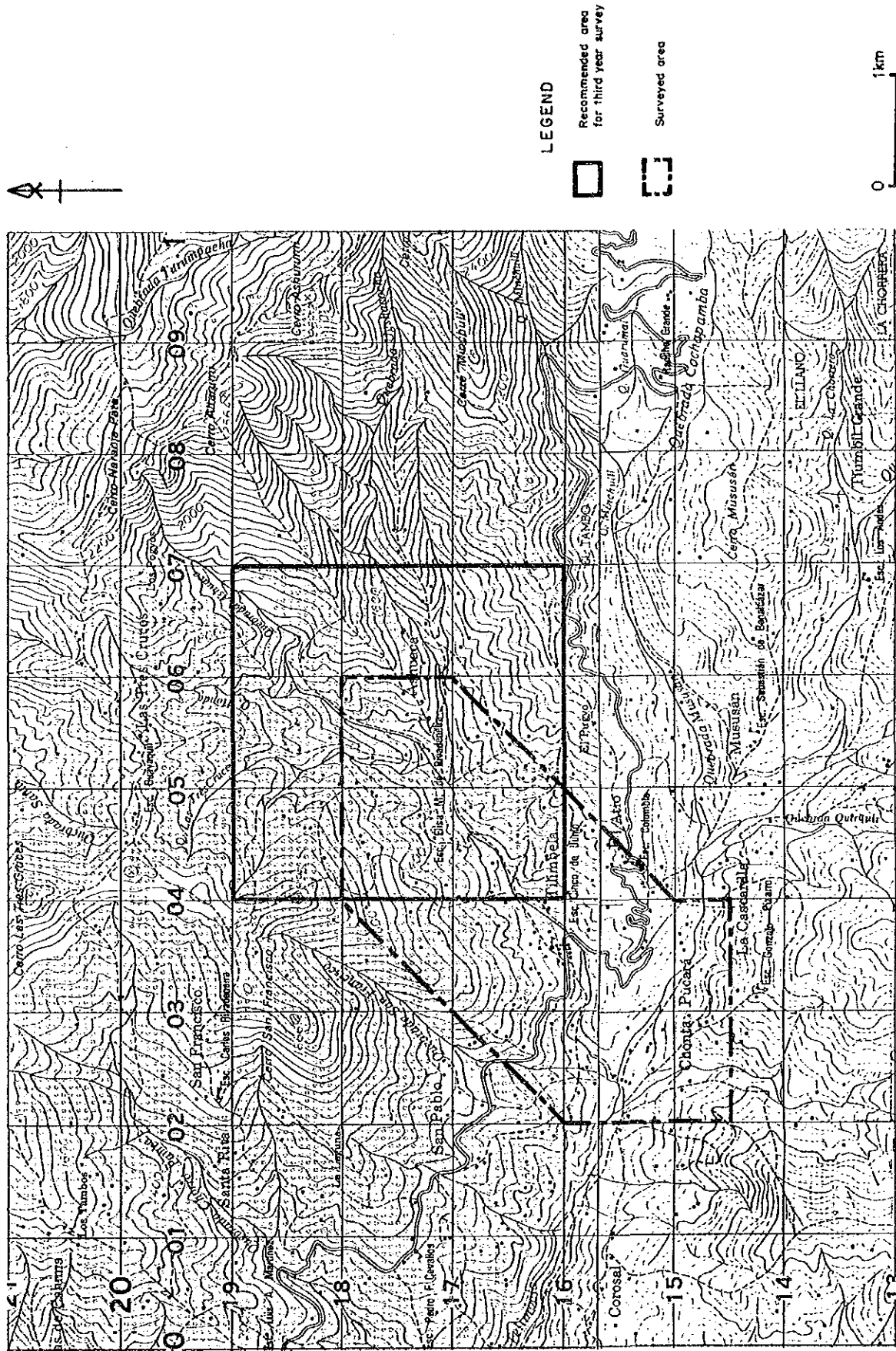


Fig. III-2-2 Recommended area for third year survey of the Telimbela area

REFERENCES

1. Bamba, T. y Herrera, J. (1966): Perfil Geologico de los Andes Ecuatorianas, Bull. Geol. Surv. Japan, 17, 18-42 (in Japanese with Spanish and English abstracts)
2. Direccion General de Geologia y Minas/Ministerio de Recursos Naturais y Energeticos (1979): Regional Geochemical Exploration in Western Central Ecuador, 1-19
3. Direccion General de Geologia y Minas/Ministerio de Recursor Naturais y Energeticos (1979): Geochemical, Geophysical and Geological Investigations in Telimbela, Bolivar Province, Western Central Ecuador, 1-34
4. Direccion General de Geologia y Minas/Ministerio de Recursos Naturais y Energeticos (1979): Geochemical, Geophysical and Geological Investigations in San Miguel, Bolivar Province, Western Central Ecuador, 1-18
5. Fairbridge, R. W. (1975): The encyclopedia of World Regional Geology, Part 1: Western Hemisphere, Dowelen, Hutch. Ross., 261-270
6. Farrell, C. W. (1978): Report on the Examination of the La Plata Mine, Ecuador, 1-18
7. Feiniger, T. (1977): Simple Bouguer Gravity Anomaly Map of Ecuador (1:1,000,000)
8. Goossens, P. J. (1969): Mapa Indice Mineralogico del Ecuador (1:1,000,000)
9. Goossens, P. J. (1972): Metallogeny in Ecuadorian Andes, Econ. Geol. 458-468
10. Goldstein, M. A. and Strangway, D. W. (1975): Audio Frequency Magnetotelluric with a Ground Dipole Source. Geophysics vol. 40, p. 669-684.
11. Hall, M. L. and Calle, J. (1982): Geochronological Control for the Main Tectonic-Magmatic Events of Ecuador, Ear. Sci. Rev., 18, 215-239
12. Henderson, W. G. (1979): Cretaceous to Eoceoe Volcanic are activity in the Andes of northern Ecuador, JI. Geol. Soc. Lond. vol. 136, 367-378
13. INEMIN: Analisis de los Trabajos de Exploracion Realizados en el Centro Occidente del Ecuador (Proyecto Bolivar), 1-28
14. INEMIN (1986): "resumes of 9 projects"
15. INEMIN (1987): Mining in Ecuador
16. Kürzl, M. (1988): Exploratory Data Analysis: Recent Advances for the Interpretation of Geochemical Data, J. Geochem. Explor. 30, 309-322

17. Lepeltier, C. (1964): A simplified Statistical Treatment of Geochemical Data by Graphical Representation, *Econ. Geol.* 64
18. Minera Toachi S. A. (1982): Estudio de Factibilidad, Resumen, Volumen 1-4 La Plata
19. Ministerio de Recursos Naturais y Energeticos/Direccion Generl de Geologia y Minas (1969): United Nations Development Programme, Survey of Metallic and Non-metallic Minerals, 1-68
20. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1979): Mapa Geologico del Ecuador (1:100,000) (49-Guaranda, 50-San Miguel, 51-Bucay)
21. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1980): Mapa Metalogenico del Ecuador (1:1,000,000)
22. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1982): Mapa Geologico Nacional del Ecuador (1:1,000,000) (Spanish and English)
23. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1982): Geology of Ecuador, 1-69
24. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1982): Informativo Geologico Minero
25. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1982): Proyecto Chaso Juan, 1-43
26. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas (1982): Proyecto Balzapamba, 1-23
27. Ministerio de Recursos Naturais y Energeticos/Direccion General de Geologia y Minas: Ecuador Hacia el Desarrollo Minero, 1-91
28. Miyako, T. (1974): Characteristics of Chaucha Porphy Copper Deposit, Ecuador, *Mining Geol.*, 24, 129-135 (In Japanese with English abstract)
29. MME/DNPM (1978): Tectonic Map of South America (1:5,000,000), Explanatory Note 1-21
30. Overseas Technical Cooperation Agency (1963): Report on the Investigation of Ore Deposit at the Macuchi Mining District in Cotopaxi Province of Ecuador, 1-31 (P1.12, Fig. 15)

31. Puig, C. A. (1984): Ecuador-not only oil, but also mining, *Mining Magazine*, 588-591
32. Sauer, W. (1970): *Geologische Karte von Ecuador (1:1,500,000)*
33. Servicio Nacional de Geología y Minería/Ministerio de Industrias y Comercio (1969): *Mapa Geológico del Ecuador (1:1,000,000)*
34. Sinclair, A. J. (1974): Selection of Threshold Values in Geochemical Data Using Probability Graphs, *J. Geochem. Explor.* 3, 129-149
35. Stewart, J. W., Evernden, J. F. and Snelling, N. J. (1974): Age Determination from Andean Peru: A Reconnaissance Survey, *Geol. Soc. America Bul.* 85, 1107-1116
36. White, W. H., Bookstrom, A. A., Kamilli, R. J., Ganster, M. W., Smith, R. P., Ranta, D. E. and Steininger, R. C. (1981): Character and Origin of Climax-Type Molybdenum Deposits, *Econ. Geol. 75th Anniversary Volume*, 270-316

LIST OF FIGURES

- Fig. I Location map of the project area
- Fig. I-1-1 Location map of the surveyed area
- Fig. I-3-1 Stratigraphic correlation around the project area
- Fig. I-3-2 Geotectonic and metallogenic zone map of Ecuador
- Fig. I-4-1 Generalized stratigraphy in the project area
- Fig. II-1-1 Geological map of the El Torneado, Balzapamba area
- Fig. II-1-2 Detected zone by each electrode configuration
- Fig. II-1-3 Location map of borehole-IP survey lines in the El Torneado, Balzapamba area
- Fig. II-1-4 Flow chart of borehole-IP data analysis
- Fig. II-1-5 Apparent resistivity plan map (electrode configuration R-S) of the El Torneado, Balzapamba area
- Fig. II-1-6 PFE plan map (electrode configuration R-S) of the El Torneado, Balzapamba area
- Fig. II-1-7 Apparent resistivity plan map (electrode configuration D-S) of the El Torneado, Balzapamba area
- Fig. II-1-8 PFE plan map (electrode configuration D-S) of the El Torneado, Balzapamba area
- Fig. II-1-9 Apparent resistivity plan map (electrode configuration D-R) of the El Torneado, Balzapamba area
- Fig. II-1-10 PFE plan map (electrode configuration D-R) of the El Torneado, Balzapamba area
- Fig. II-1-11 Sections of apparent resistivity and PFE (line E-0 and E-180) of the El Torneado, Balzapamba area
- Fig. II-1-12 Sections of apparent resistivity and PFE (line E-30 and E-210) of the El Torneado, Balzapamba area
- Fig. II-1-13 Sections of apparent resistivity and PFE (line E-60 and E-240) of the El Torneado, Balzapamba area

- Fig. II-1-14 Sections of apparent resistivity and PFE (line E-90 and E-270) of the El Torneado, Balzapamba area
- Fig. II-1-15 Sections of apparent resistivity and PFE (line E-120 and E-300) of the El Torneado, Balzapamba area
- Fig. II-1-16 Sections of apparent resistivity and PFE (line E-150 and E-330) of the El Torneado, Balzapamba area
- Fig. II-1-17 Analyzed section (line E-30 and E-210) of the El Torneado, Balzapamba area
- Fig. II-1-18 Analyzed section (line E-120 and E-300) of the El Torneado, Balzapamba area
- Fig. II-1-19 Interpretation map of the El Torneado, Balzapamba area
- Fig. II-1-20 Location map of drill holes
- Fig. II-1-21 Progress record of hole MJE-4
- Fig. II-1-22 Progress record of hole MJE-5
- Fig. II-1-23 Progress record of hole MJE-6
- Fig. II-1-24 Geological section of drill hole MJE-4 and MJE-5
- Fig. II-1-25 Geological section of drill hole MJE-6
- Fig. II-2-1 Geological map of the Osohuayco, Balzapamba area
- Fig. II-2-2 Location map of IP survey lines of the Osohuayco, Balzapamba area
- Fig. II-2-3 Flow chart of IP data analysis
- Fig. II-2-4 Apparent resistivity plan map (n=1) of the Osohuayco, Balzapamba area
- Fig. II-2-5 PFE plan map (n=1) of the Osohuayco, Balzapamba area
- Fig. II-2-6 Apparent resistivity plan map (n=3) of the Osohuayco, Balzapamba area
- Fig. II-2-7 PFE plan map (n=3) of the Osohuayco, Balzapamba area
- Fig. II-2-8 Apparent resistivity plan map (n=5) of the Osohuayco, Balzapamba area
- Fig. II-2-9 PFE plan map (n=5) of the Osohuayco, Balzapamba area
- Fig. II-2-10 Pseudo-sections of apparent resistivity and PFE (line 01) of the Osohuayco, Balzapamba area
- Fig. II-2-11 Pseudo-sections of apparent resistivity and PFE (line 02) of the Osohuayco, Balzapamba area

- Fig. II-2-12 Pseudo-sections of apparent resistivity and PFE (line 03) of the Osohuayco, Balzapamba area
- Fig. II-2-13 Pseudo-sections of apparent resistivity and PFE (line 04) of the Osohuayco, Balzapamba area
- Fig. II-2-14 Pseudo-sections of apparent resistivity and PFE (line 05) of the Osohuayco, Balzapamba area
- Fig. II-2-15 Pseudo-sections of apparent resistivity and PFE (line 06) of the Osohuayco, Balzapamba area
- Fig. II-2-16 Analyzed section (line 01) of the Osohuayco, Balzapamba area
- Fig. II-2-17 Analyzed section (line 03) of the Osohuayco, Balzapamba area
- Fig. II-2-18 Analyzed section (line 04) of the Osohuayco, Balzapamba area
- Fig. II-2-19 Interpretation map of the Osohuayco, Balzapamba area
- Fig. II-2-20 Example of Topographical Correction of the Osohuayco, Balzapamba area
- Fig. II-3-1 Geological map and distribution of mineral showings of the Chaso Juan area
- Fig. II-3-2 Generalized Stratigraphy in the Chaso Juan, Telimbela and La Industria-Yatubi areas
- Fig. II-3-3 Chemical variation diagram for granitic rocks: SiO_2 - $(\text{FeO}^*/\text{MgO})$ variation diagram
- Fig. II-3-4 Chemical variation diagram for granitic rocks: normative quartz (Q) - orthoclase (Or) - plagioclase (Ab+An) diagram
- Fig. II-3-5 Interpretation map of magnetic susceptibility of the Chaso Juan area
- Fig. II-3-6 Location map of IP survey lines in the Chaso Juan area
- Fig. II-3-7 Apparent resistivity plan map (n=1) of the Chaso Juan area
- Fig. II-3-8 PFE plan map (n=1) of the Chaso Juan area
- Fig. II-3-9 Apparent resistivity plan map (n=3) of the Chaso Juan area
- Fig. II-3-10 PFE plan map (n=3) of the Chaso Juan area
- Fig. II-3-11 Apparent resistivity plan map (n=5) of the Chaso Juan area
- Fig. II-3-12 PFE plan map (n=5) of the Chaso Juan area
- Fig. II-3-13 Pseudo-sections of apparent resistivity and PFE (line C1) of the Chaso Juan area

- Fig. II-3-14 Pseudo-sections of apparent resistivity and PFE (line C2) of the Chaso Juan area
- Fig. II-3-15 Pseudo-sections of apparent resistivity and PFE (line C3) of the Chaso Juan area
- Fig. II-3-16 Pseudo-sections of apparent resistivity and PFE (line C4) of the Chaso Juan area
- Fig. II-3-17 Pseudo-sections of apparent resistivity and PFE (line C5) of the Chaso Juan area
- Fig. II-3-18 Pseudo-sections of apparent resistivity and PFE (line C6) of the Chaso Juan area
- Fig. II-3-19 Analyzed section (line C4) of the Chaso Juan area
- Fig. II-3-20 Analyzed section (line C2) of the Chaso Juan area
- Fig. II-3-21 Interpretation map of the Chaso Juan area
- Fig. II-3-22 Example of topographical correction of the Chaso Juan area
- Fig. II-4-1 Geological map and distribution of mineral showings of the Telimbela area
- Fig. II-4-2 Geological sketch of mineralization of zone I in the Telimbela area
- Fig. II-4-3 Interpretation map of magnetic susceptibility of the Telimbela area
- Fig. II-5-1 Geological map and distribution of mineral showings of the La Industria-Yatubi area
- Fig. II-5-2 Interpretation map of magnetic susceptibility of the La Industria-Yatubi area
- Fig. II-5-3(1) Distribution map of minor element in soil of the La Industria-Yatubi area (Cu)
- Fig. II-5-3(2) Distribution map of minor element in soil of the La Industria-Yatubi area (Pb)
- Fig. II-5-3(3) Distribution map of minor element in soil of the La Industria-Yatubi area (Zn)
- Fig. II-5-3(4) Distribution map of minor element in soil of the La Industria-Yatubi area (As)
- Fig. II-5-3(5) Distribution map of minor element in soil of the La Industria-Yatubi area (Hg)

Fig. II-5-4(1)	Distribution map of factor score of the La Industria-Yatubi area (Hg-Pb)
Fig. II-5-4(2)	Distribution map of factor score of the La Industria-Yatubi area (Zn-Cu)
Fig. II-5-5	Synthetic geochemical anomaly map of the La Industria-Yatubi area
Fig. II-5-6	Constituents of synthetic geochemical anomalous zones
Fig. II-6-1	Geological map and mineral showings of the Las Guardias area
Fig. II-6-2	Generalized stratigraphy in the Las Guardias area
Fig. II-6-3	Interpretation map of magnetic susceptibility of the Las Guardias area
Fig. III-2-1	Recommended area for third year survey of the Osohuayco, Balzapamba area
Fig. III-2-2	Recommended area for third year survey of the Telimbela area

LIST OF TABLES

Table I-1-1	List of survey amounts
Table I-1-2	List of lavolatory works
Table I-1-3	Member list of project administration
Table I-1-4	Member list of survey team
Table I-2-1	Temperature and precipitation of the project area
Table I-3-1	Classification of metallogenic zones
Table I-4-1	Summary of survey results with mineral showings
Table II-1-1	Resistivity and FE of rock samples in the El Torneado, Balzapamba area
Table II-1-2	Generalized drilling results
Table II-2-1	Resistivity and FE of rock samples in the Osohuayco, Balzapamba area
Table II-3-1	Results of isotopic age determination (K-Ar method)
Table II-3-2	Results of chemical analysis of granitic rocks
Table II-3-3	Resistivity and FE of rock samples in the Chaso Juan area
Table II-5-1	Geochemical statistic data
Table II-5-2	Correlation matrix of minor elements of geochemical data
Table II-5-3	Results of factor analysis of geochemical data

LIST OF APPENDICES

Photo A-1	Microphotograph of thin section
Photo A-2	Microphotograph of polished section
Fig. A-1 (1)	Location map of the samples tested (rock and ore)
Fig. A-1 (2)	Location map of the samples tested (soil)
Fig. A-2	Location map of the measured point of the magnetic susceptibility
Fig. A-3	Basic pattern model of borehole IP
Fig. A-4	Flow sheet of soil sample treatment
Fig. A-5	Flow sheet of chemical analysis
Fig. A-6	Histogram with 5-number summary and boxplot by EDA-method
Table A-1	Microscopic observations (thin section)
Table A-2	Microscopic observations (polished section)
Table A-3	Assay results of ore samples (geological survey and drill core)
Table A-4	Results of x-ray diffractive analysis
Table A-5	Results of the measured value of the magnetic susceptibility
Table A-6	Results of geochemical analysis
Table A-7	Lists of measured value of borehole IP survey and IP survey
Table A-8 (1)	Summary record of drilling results (MJE-4)
Table A-8 (2)	Summary record of drilling results (MJE-5)
Table A-8 (3)	Summary record of drilling results (MJE-6)
Table A-9	Drilling equipments and consumed materials

LIST OF PLATES

Plate II-1-1	Location Map of Borehole-IP Survey Lines in the El Torneado, Balzapamba Area
Plate II-1-2	Apparent Resistivity Plan Map (Electrode Configuration R-S) of the El Torneado, Balzapamba Area
Plate II-1-3	Apparent Resistivity Plan Map (Electrode Configuration D-S) of the El Torneado, Balzapamba Area

- Plate II-1-4 Apparent Resistivity Plan Map (Electrode Configuration D-R) of the El Torneado, Balzapamba Area
- Plate II-1-5 PFE Plan Map (Electrode Configuration D-S) of the El Torneado, Balzapamba Area
- Plate II-1-6 PFE Plan Map (Electrode Configuration R-S) of the El Torneado, Balzapamba Area
- Plate II-1-7 PFE Plan Map (Electrode Configuration D-R) of the El Torneado, Balzapamba Area
- Plate II-1-8 Interpretation Map of the El Torneado, Balzapamba Area
- Plate II-1-9 Drilling Log MJE-4 (1:200) (1)~(2)
- Plate II-1-10 Drilling Log MJE-5 (1:200) (1)~(2)
- Plate II-1-11 Drilling Log MJE-6 (1:200) (1)~(2)
- Plate II-1-12 Geological Section of Drill Holes (1:2,500)
- Plate II-2-1 Geological Map and Distribution of Mineral Showings of the Osohuayco, Balzapamba Area
- Plate II-2-2 Location Map of IP Survey Lines of the Osohuayco, Balzapamba Area
- Plate II-2-3 Apparent Resistivity Plan Map (n=1) of the Osohuayco, Balzapamba Area
- Plate II-2-4 Apparent Resistivity Plan Map (n=2) of the Osohuayco, Balzapamba Area
- Plate II-2-5 Apparent Resistivity Plan Map (n=3) of the Osohuayco, Balzapamba Area
- Plate II-2-6 Apparent Resistivity Plan Map (n=4) of the Osohuayco, Balzapamba Area
- Plate II-2-7 Apparent Resistivity Plan Map (n=5) of the Osohuayco, Balzapamba Area
- Plate II-2-8 PFE Plan Map (n=1) of the Osohuayco, Balzapamba Area
- Plate II-2-9 PFE Plan Map (n=2) of the Osohuayco, Balzapamba Area
- Plate II-2-10 PFE Plan Map (n=3) of the Osohuayco, Balzapamba Area
- Plate II-2-11 PFE Plan Map (n=4) of the Osohuayco, Balzapamba Area
- Plate II-2-12 PFE Plan Map (n=5) of the Osohuayco, Balzapamba Area
- Plate II-2-13 Interpretation Map of the Osohuayco, Balzapamba Area
- Plate II-3-1 Geological Map and Geological Profile of the Chaso Juan Area (1:10,000)
- Plate II-3-2 Location Map of IP Survey Lines in the Chaso Juan Area
- Plate II-3-3 Apparent Resistivity Plan Map (n=1) of the Chaso Juan Area

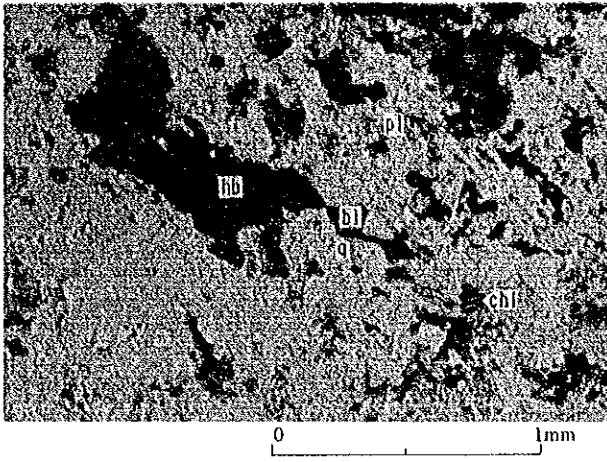
- Plate II-3-4 Apparent Resistivity Plan Map (n=2) of the Chaso Juan Area
- Plate II-3-5 Apparent Resistivity Plan Map (n=3) of the Chaso Juan Area
- Plate II-3-6 Apparent Resistivity Plan Map (n=4) of the Chaso Juan Area
- Plate II-3-7 Apparent Resistivity Plan Map (n=5) of the Chaso Juan Area
- Plate II-3-8 PFE Plan Map (n=1) of the Chaso Juan Area
- Plate II-3-9 PFE Plan Map (n=2) of the Chaso Juan Area
- Plate II-3-10 PFE Plan Map (n=3) of the Chaso Juan Area
- Plate II-3-11 PFE Plan Map (n=4) of the Chaso Juan Area
- Plate II-3-12 PFE Plan Map (n=5) of the Chaso Juan Area
- Plate II-3-13 Interpretation Map of the Chaso Juan Area
- Plate II-4-1 Geological Map and Geological Profile of the Telimbela Area (1:10,000)
- Plate II-5-1 Geological Map and Geological Profile of the La Industria-Yatubi Area (1:10,000)
- Plate II-6-1 Geological Map and Geological Profile of the Las Guardias Area (1:10,000)

付 録

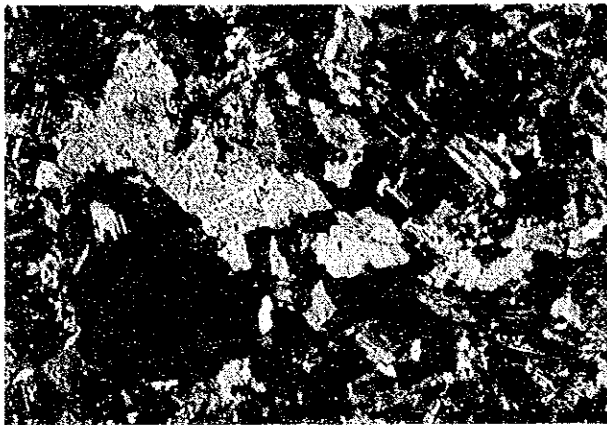
Photo A-1 Microphotograph of thin section

Abbreviations

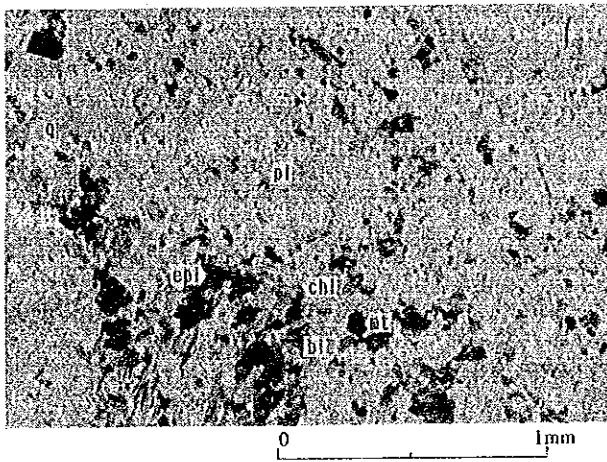
q	:	quartz
pl	:	plagioclase
bi	:	biotite
hb	:	hornblende
chl	:	chlorite
epi	:	epidote
mt	:	magnetite



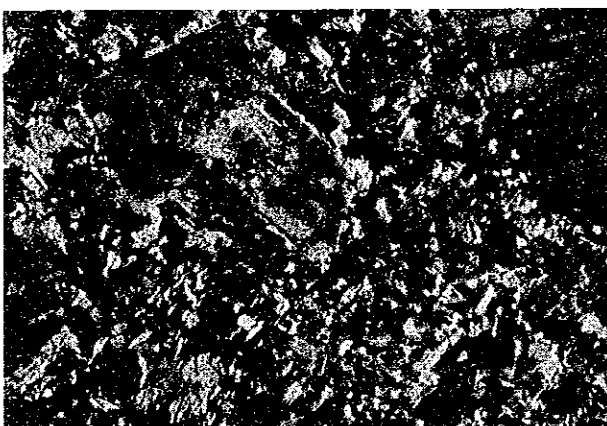
Sample No. : A2009
 Rock name : Biotite - hornblende diorite
 Location : Chaso Juan
 Texture : Partly porphyritic
 (only lower polar)



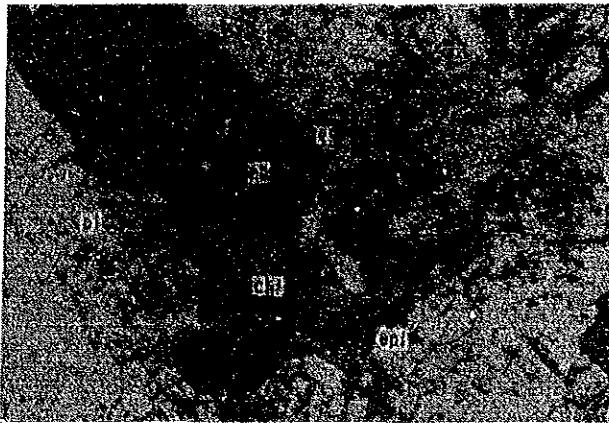
(crossed polars)



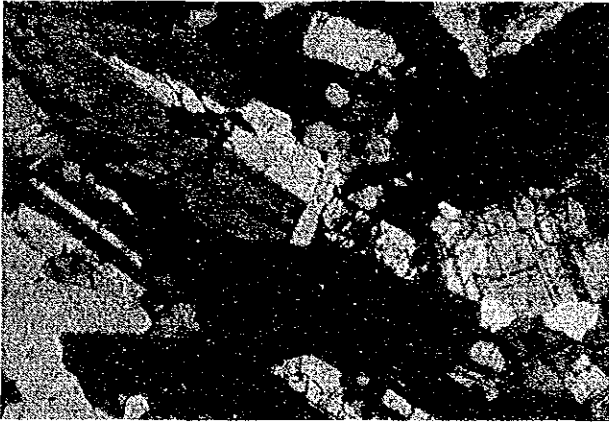
Sample No. : B2019
 Rock name : Porphyritic hornblende-biotite quartz diorite
 Location : Telimbela
 Texture : Porphyritic
 (only lower polar)



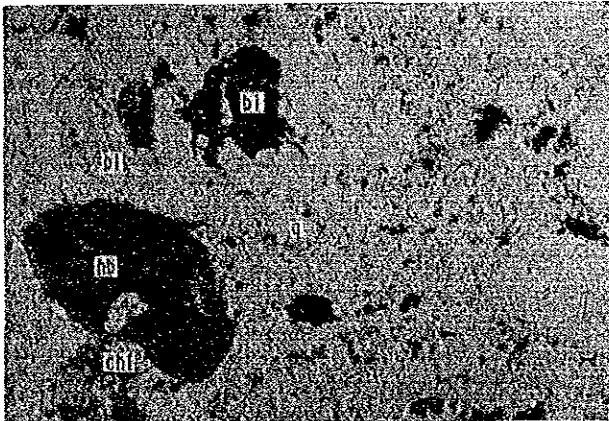
(crossed polars)



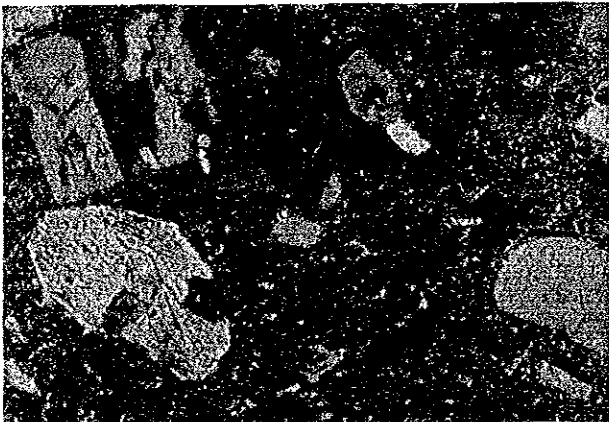
Sample No. : C2062
Rock name : Hornblende quartz diorite
Location : Telimbela
Texture : Holocrystalline
(only lower polar)



(crossed polars)



Sample No. : A2076
Rock name : Porphyritic quartz diorite
Location : Las Guardias
Texture : Porphyritic
(only lower polar)

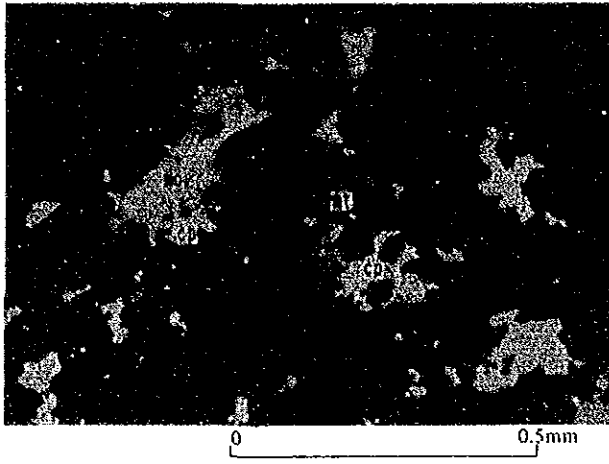


(crossed polars)

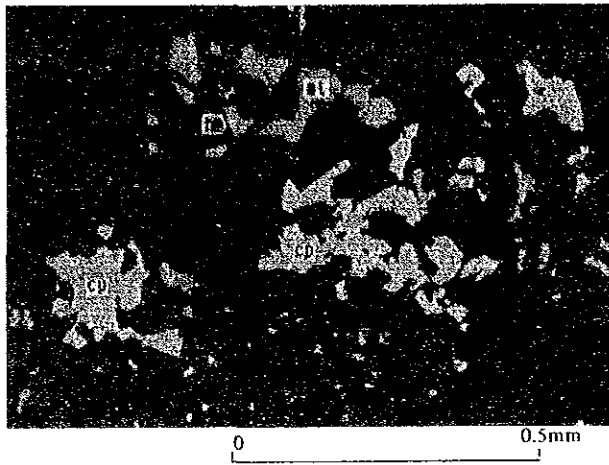
Photo A-2 Microphotograph of polished section

Abbreviation

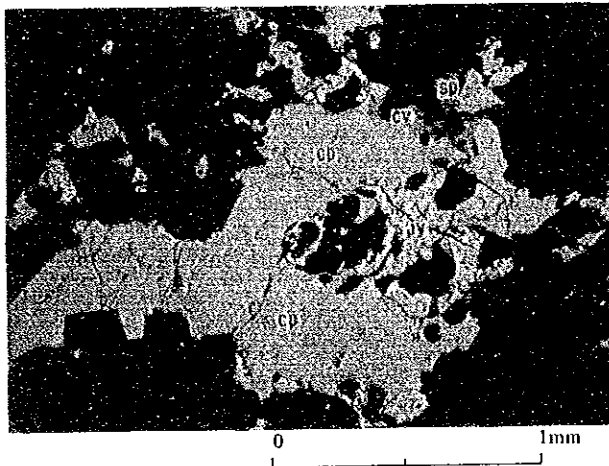
cp	:	chalcopyrite
cv	:	covellite
mo	:	molybdenite
py	:	pyrite
mt	:	magnetite
hm	:	hematite
sp	:	sphalerite



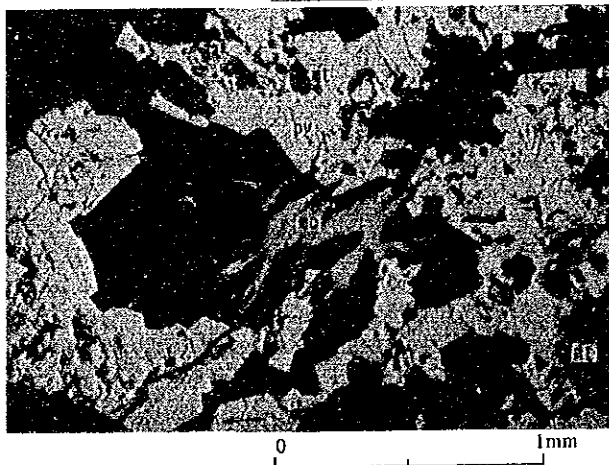
Sample No. : A2017
Ore name : Chalcopyrite > pyrite-magnetite
veinlets and dissemination
Location : Chaso Juan
(only lower polar)



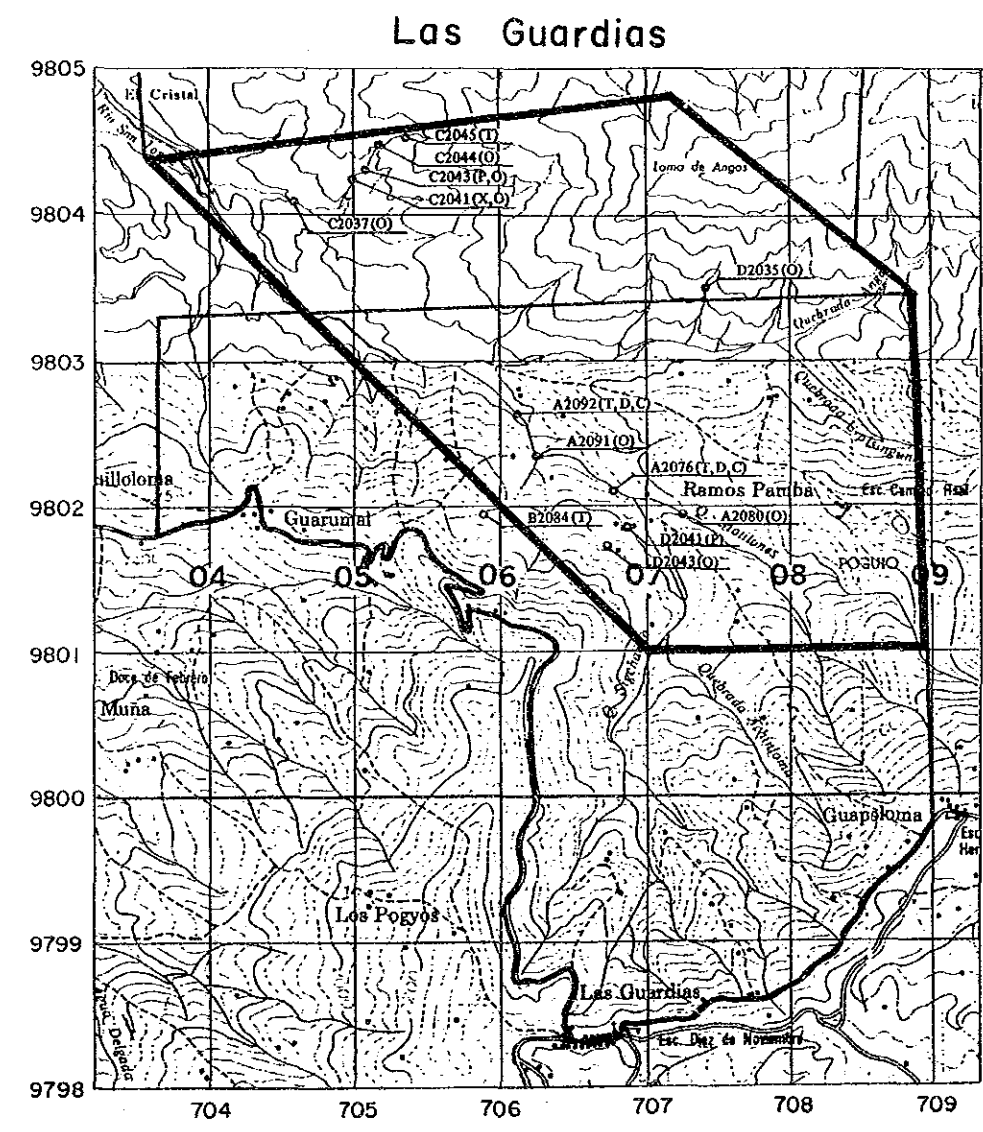
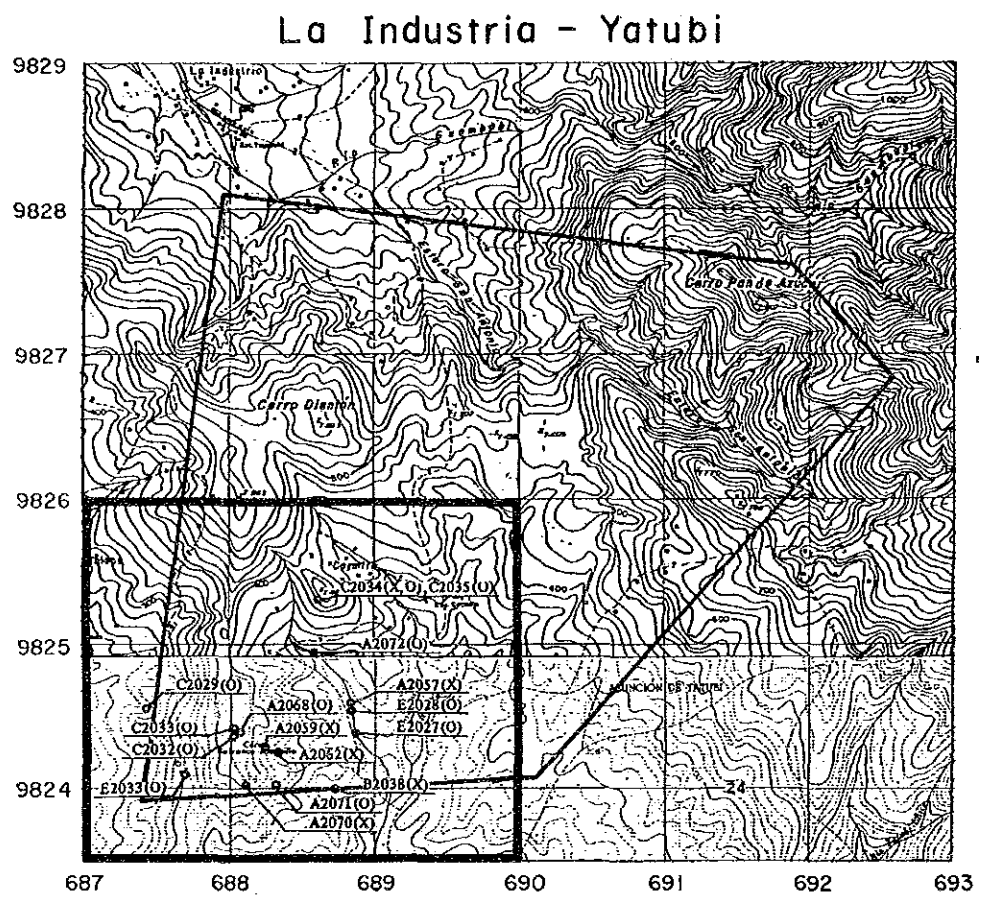
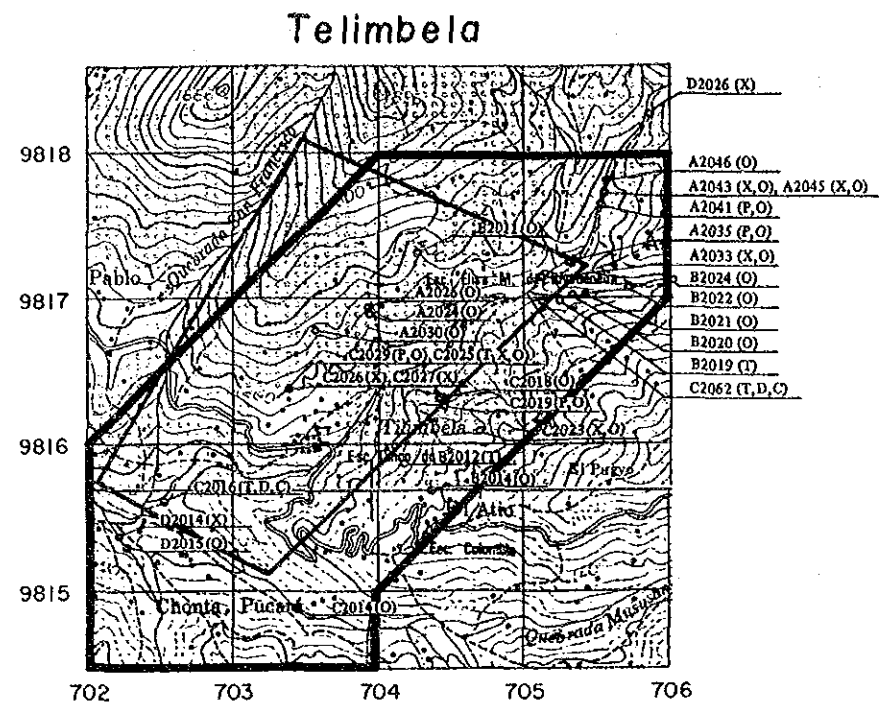
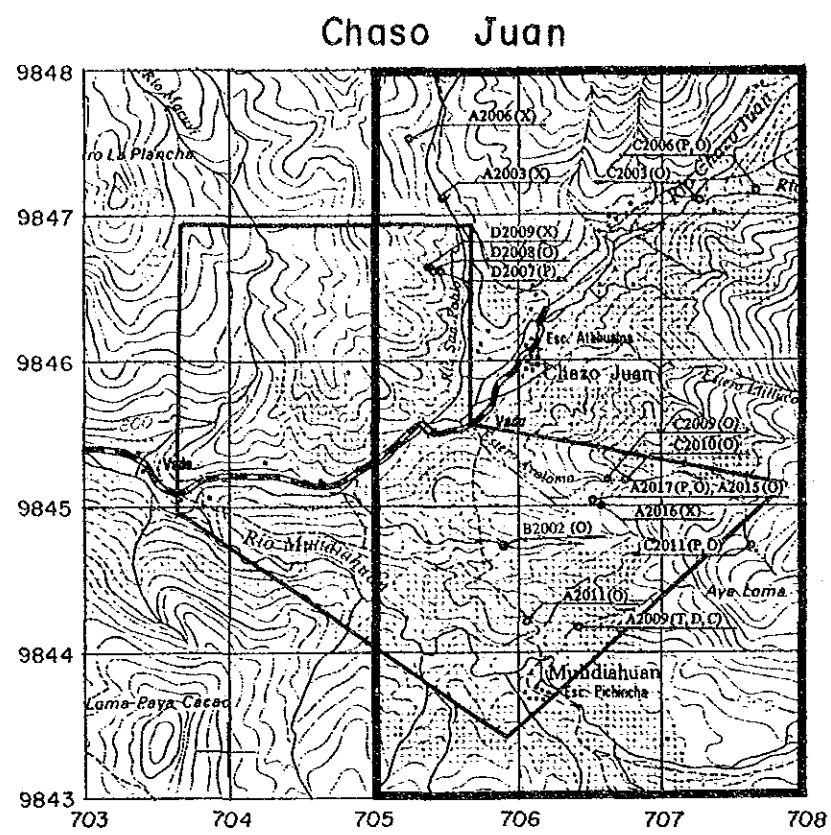
Sample No. : A2035
Ore name : Chalcopyrite dissemination
Location : Telimbela
(only lower polar)



Sample No. : C2043
Ore name : Chalcopyrite-pyrite > molybdenite
ore (chalcopyrite-pyrite rich part)
Location : Las Guardias
(only lower polar)



Sample No. : C2043
Ore name : Chalcopyrite-pyrite > molybdenite
ore (pyrite-molybdenite rich part)
Location : Las Guardias
(only lower polar)



LEGEND

Q A2001 (T, X, D, C, P, O)
 Sampling point and sample number

T : Thin section
 X : X-ray diffractive analysis
 D : Dating (K/Ar)
 C : Chemical analysis of rock
 P : Polished section
 O : Ore analysis

Fig. A-1 (1) Location map of the samples tested (rock and ore)

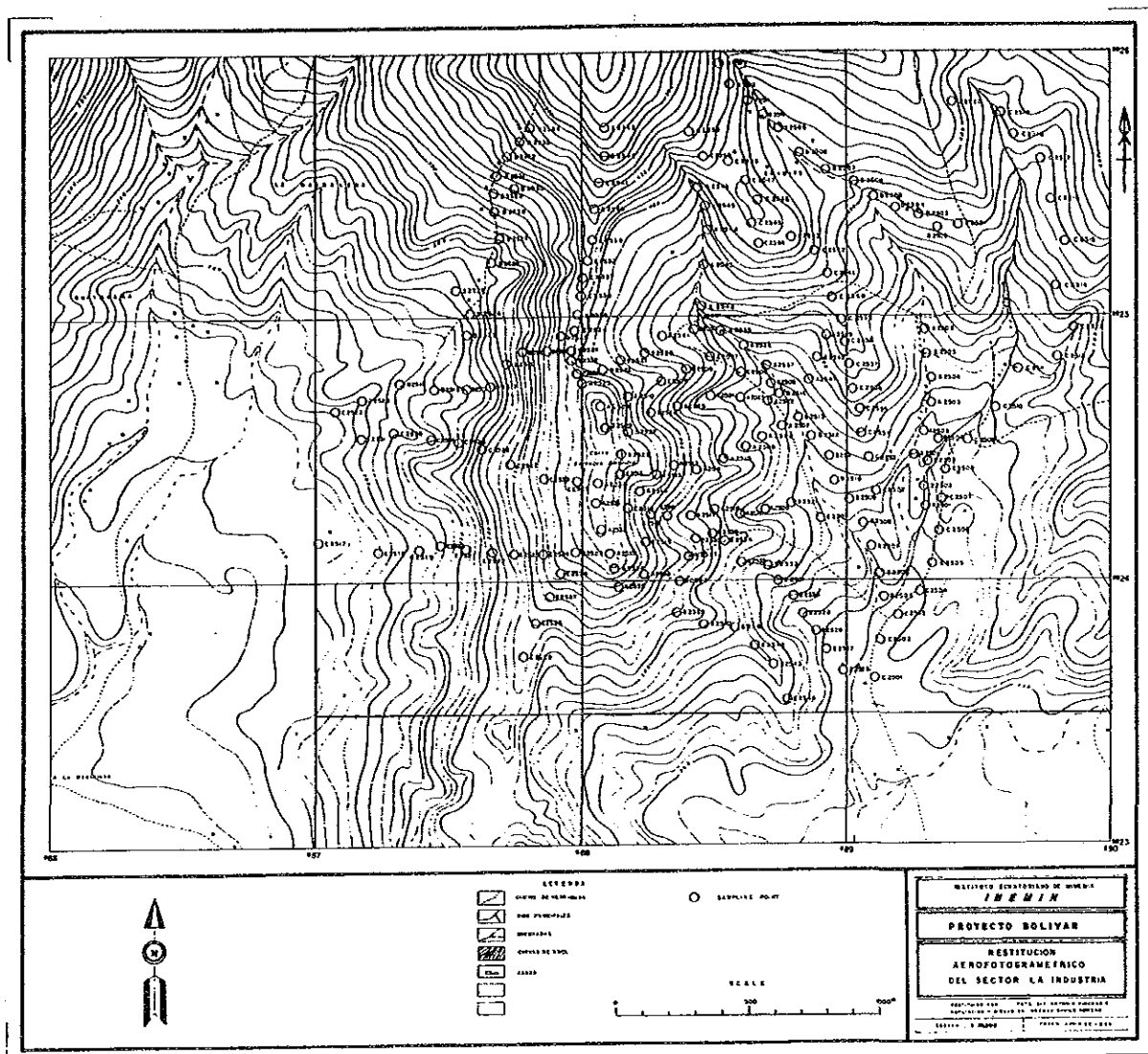
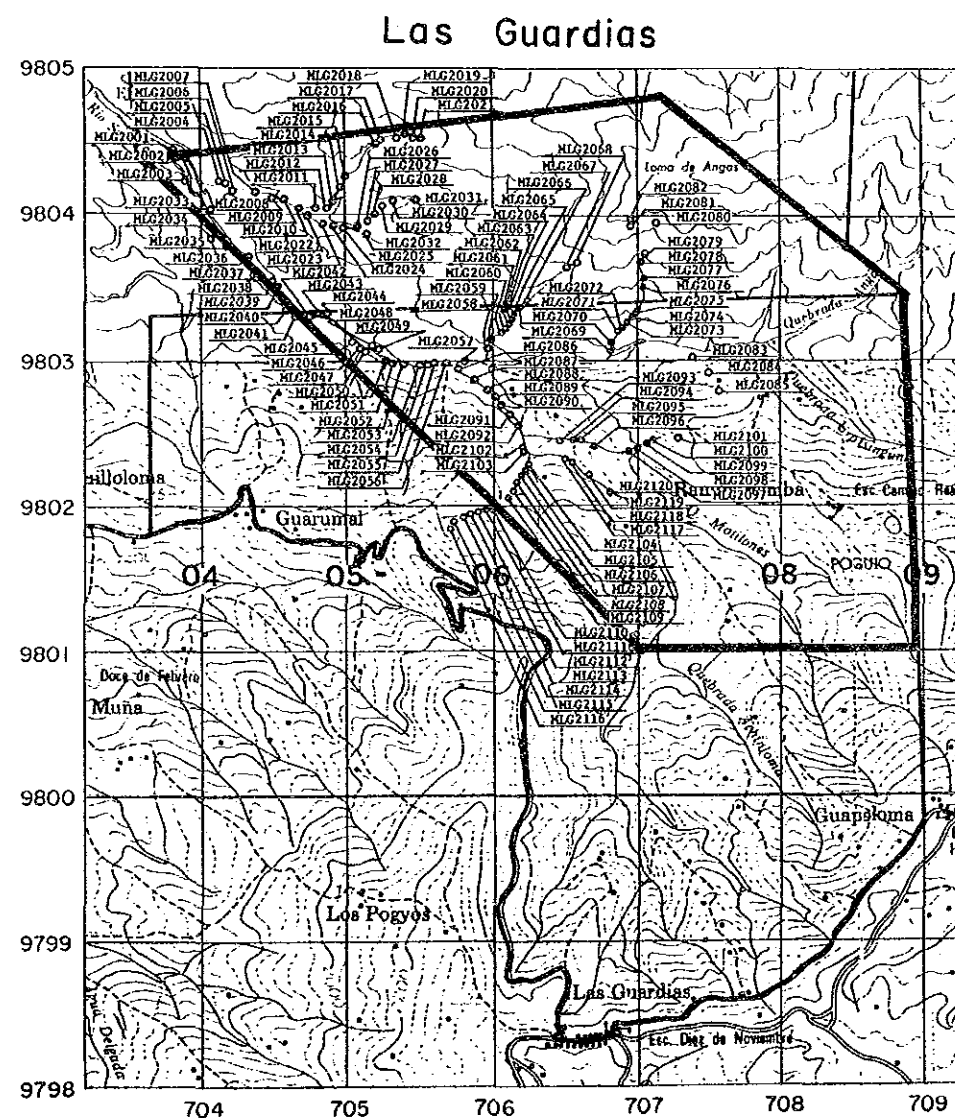
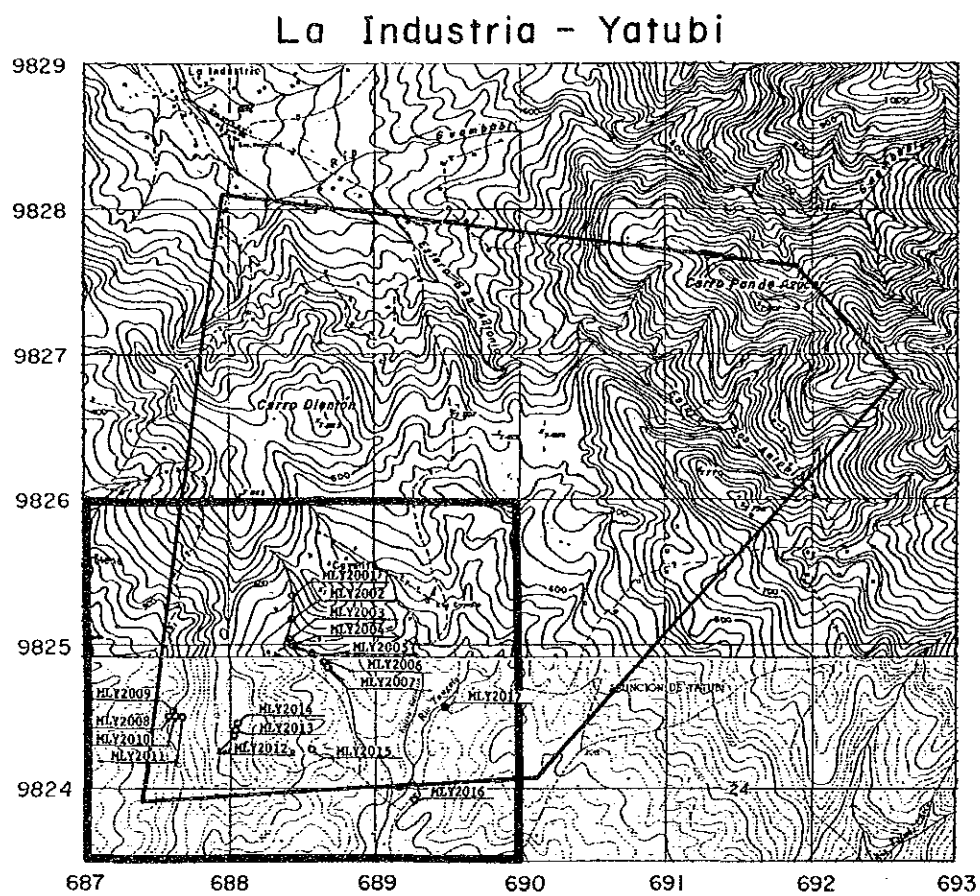
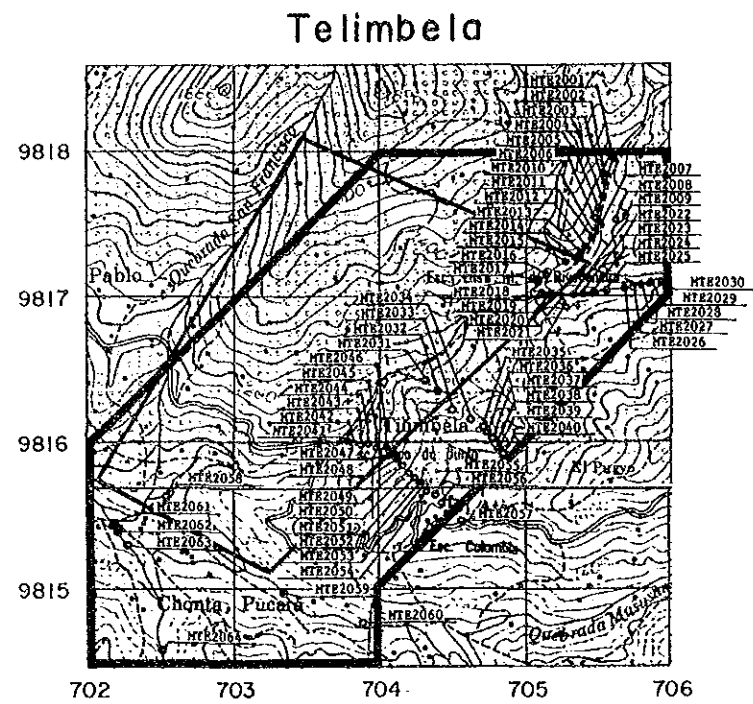
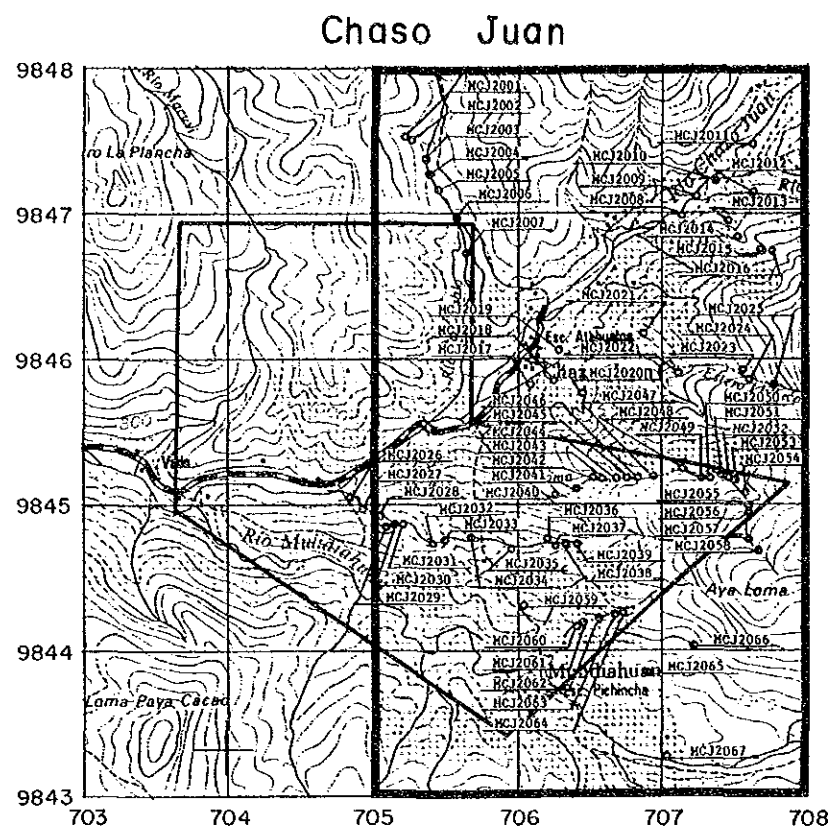


Fig. A-1 (2) Location map of the samples tested (soil)



LEGEND

○ MCJ2001

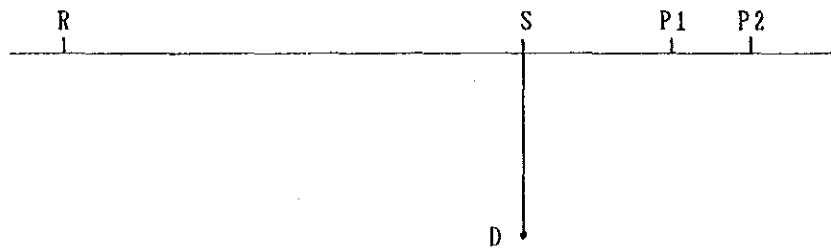
Measured point and measured point number of magnetic susceptibility

Fig. A-2

Location map of the measured point of the magnetic susceptibility

Fig. A-3 Basic pattern model of borehole IP

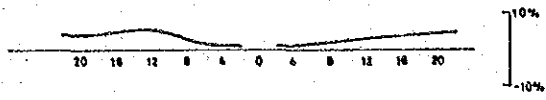
	RESISTIVITY (Ohm-m)	PFE (%)
BACK-GROUND	1000.0	1.0
ORE BODY	1000.0	20.0



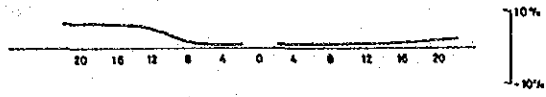
R : Remote Current Electrode
 S : Surface Current Electrode
 D : Downhole Current Electrode
 P1, P2 : Potential Electrode

R-S = 575m
 S-D = 275m
 P1-P2 = 50m

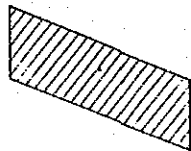
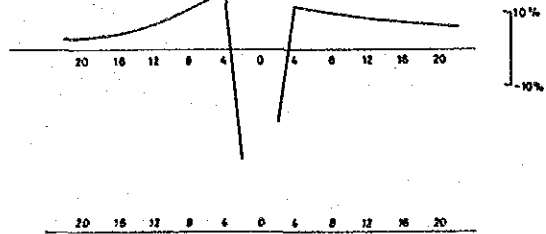
R-S



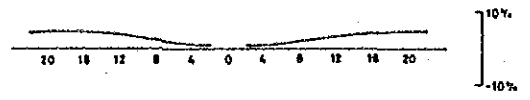
D-S



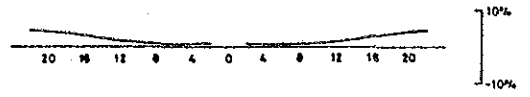
D-R



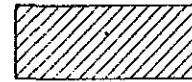
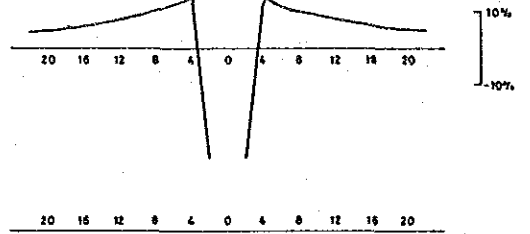
R-S



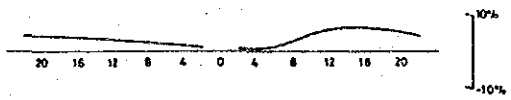
D-S



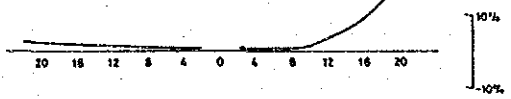
D-R



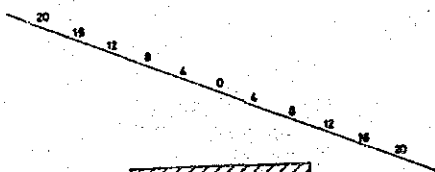
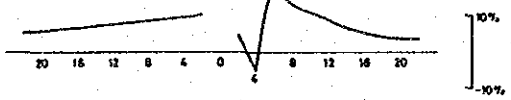
R-S



D-S



D-R



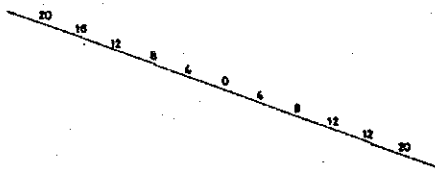
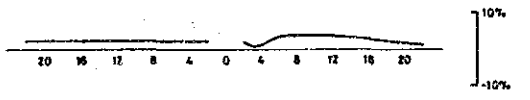
R-S



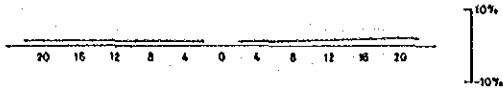
D-S



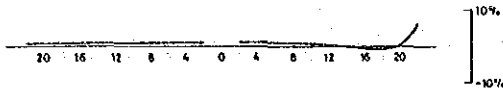
D-R



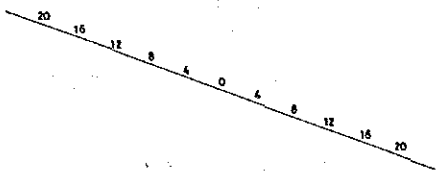
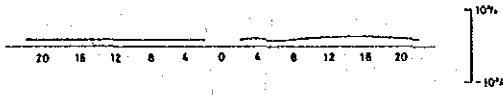
R-S



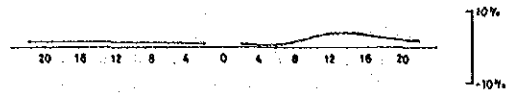
D-S



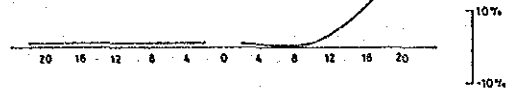
D-R



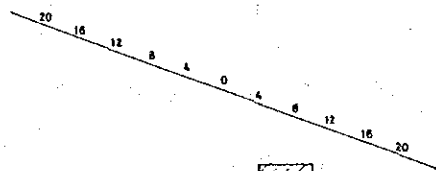
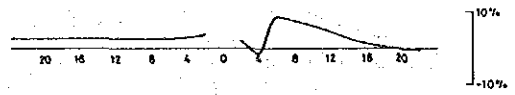
R-S



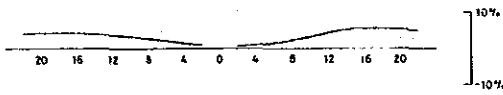
D-S



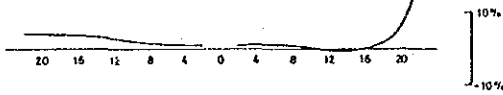
D-R



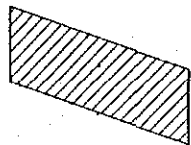
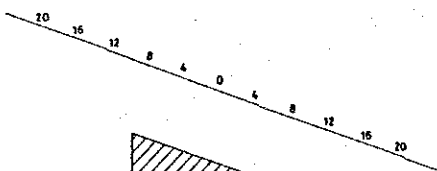
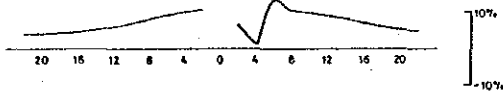
R-S



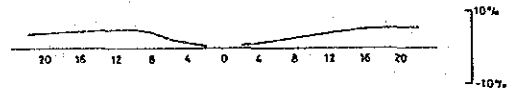
D-S



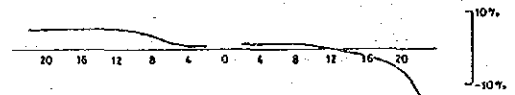
D-R



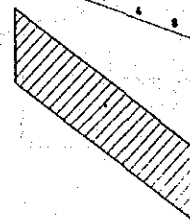
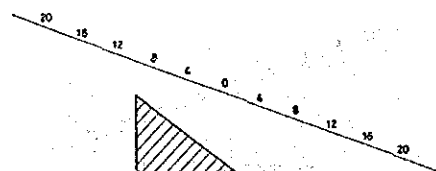
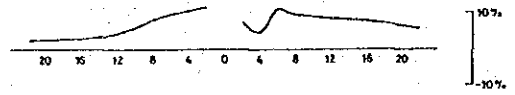
R-S



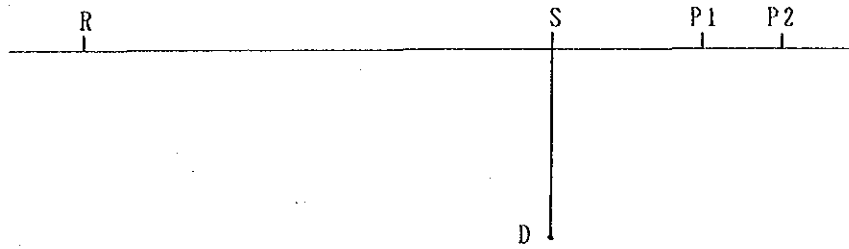
D-S



D-R

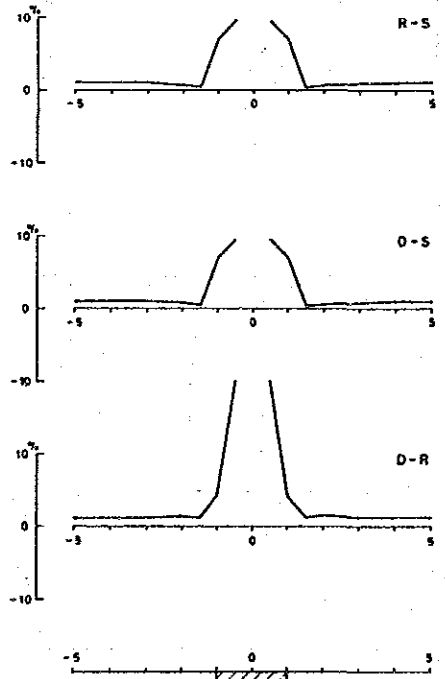
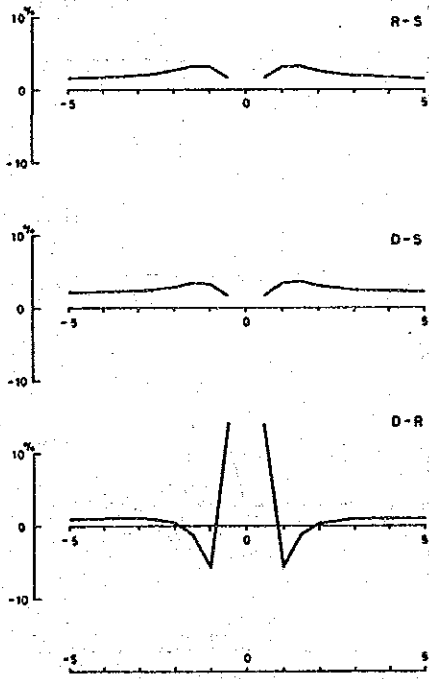
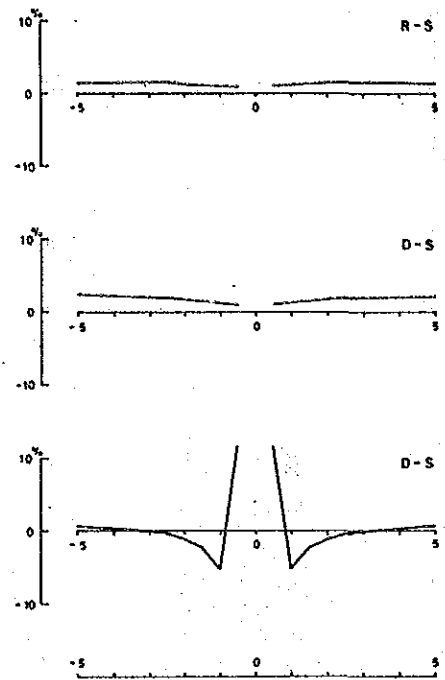
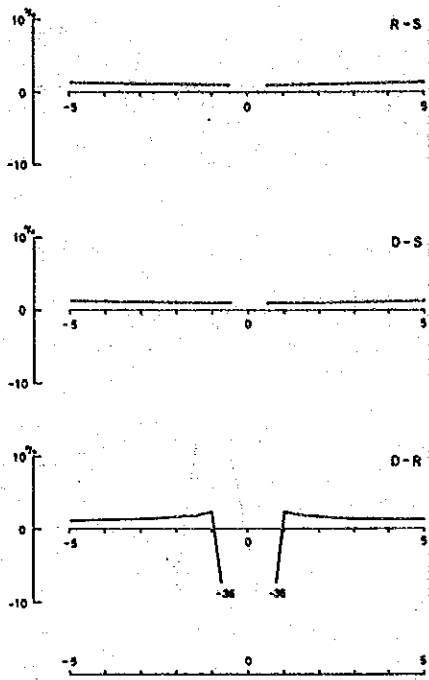


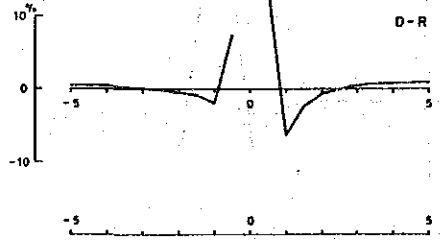
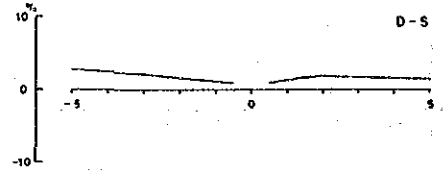
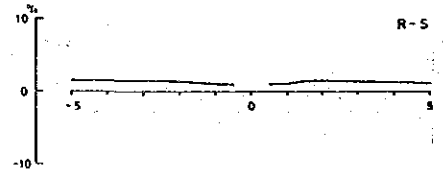
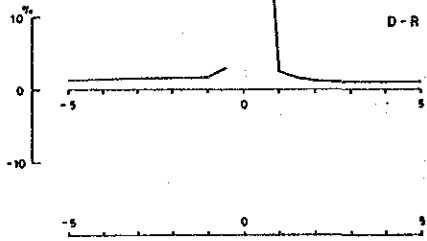
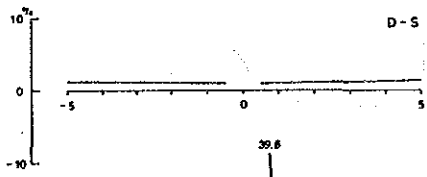
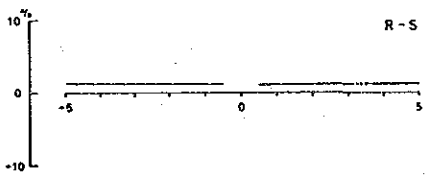
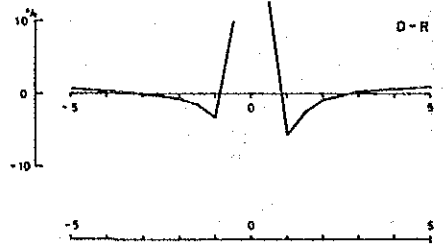
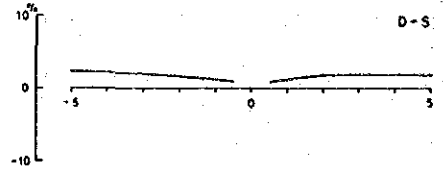
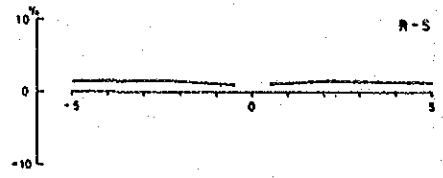
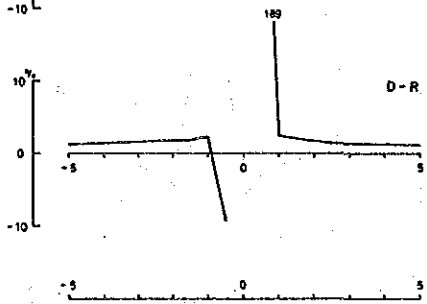
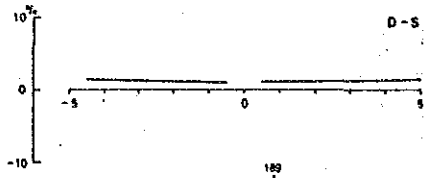
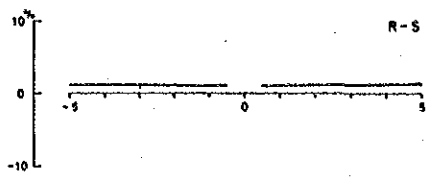
	RESISTIVITY (Ohm-m)	PFE (%)
BACK-GROUND	1000.0	1.0
ORE BODY	2000.0	10.0

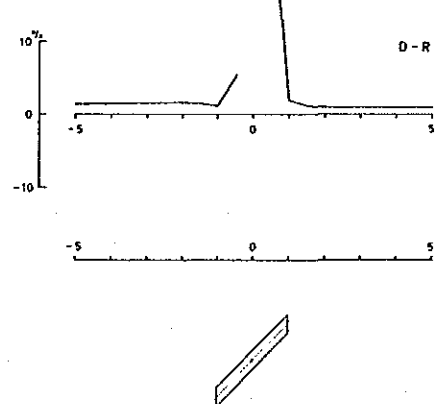
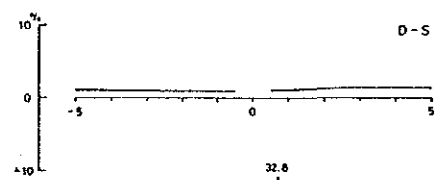
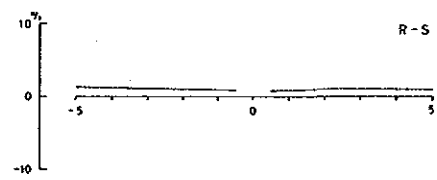
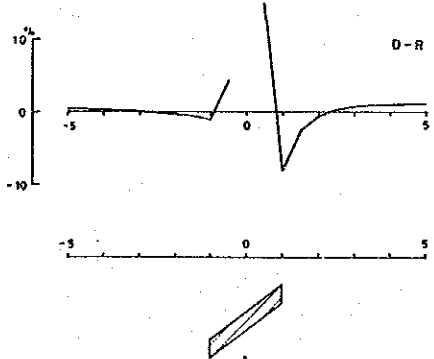
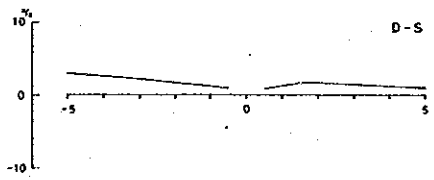
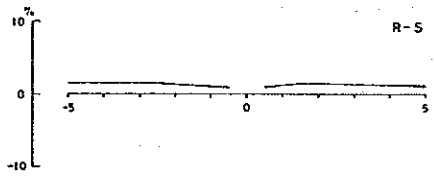
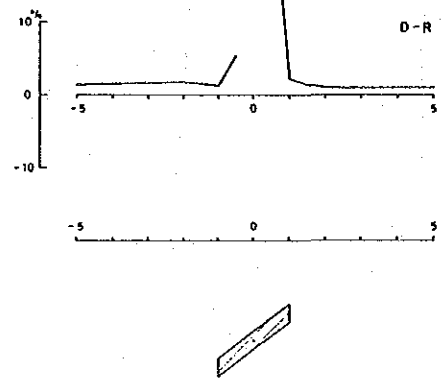
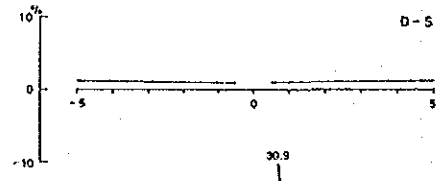
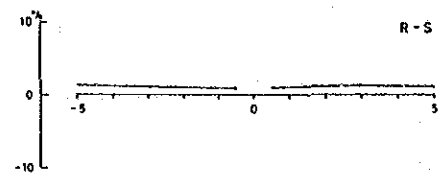
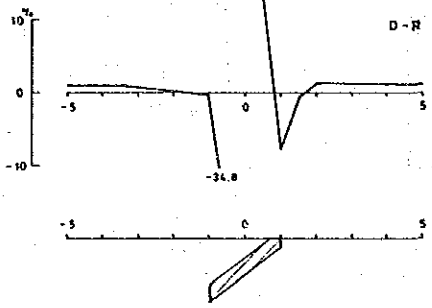
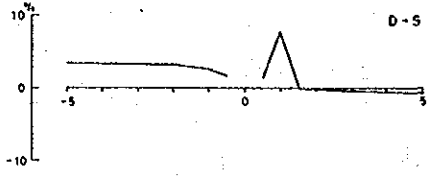
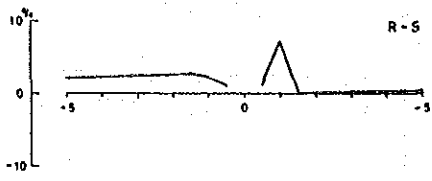


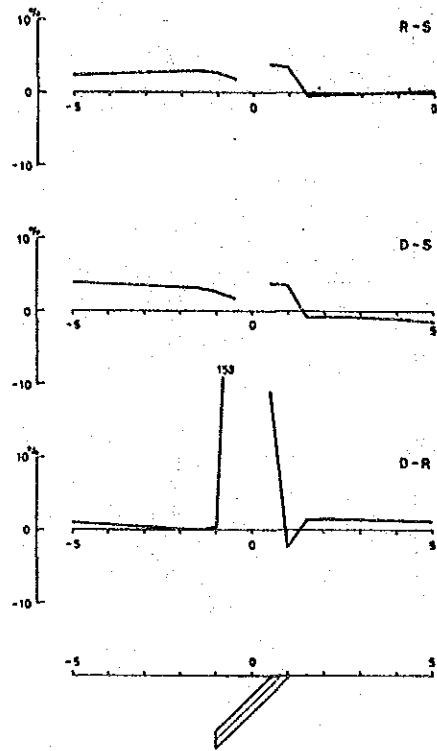
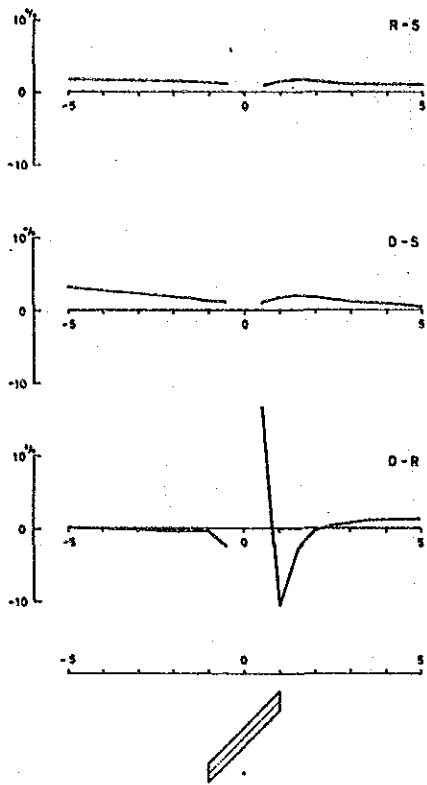
R : Remote Current Electrode
 S : Surface Current Electrode
 D : Downhole Current Electrode
 P1, P2 : Potential Electrode

R-S = 575m
 S-D = 275m
 P1-P2 = 50m









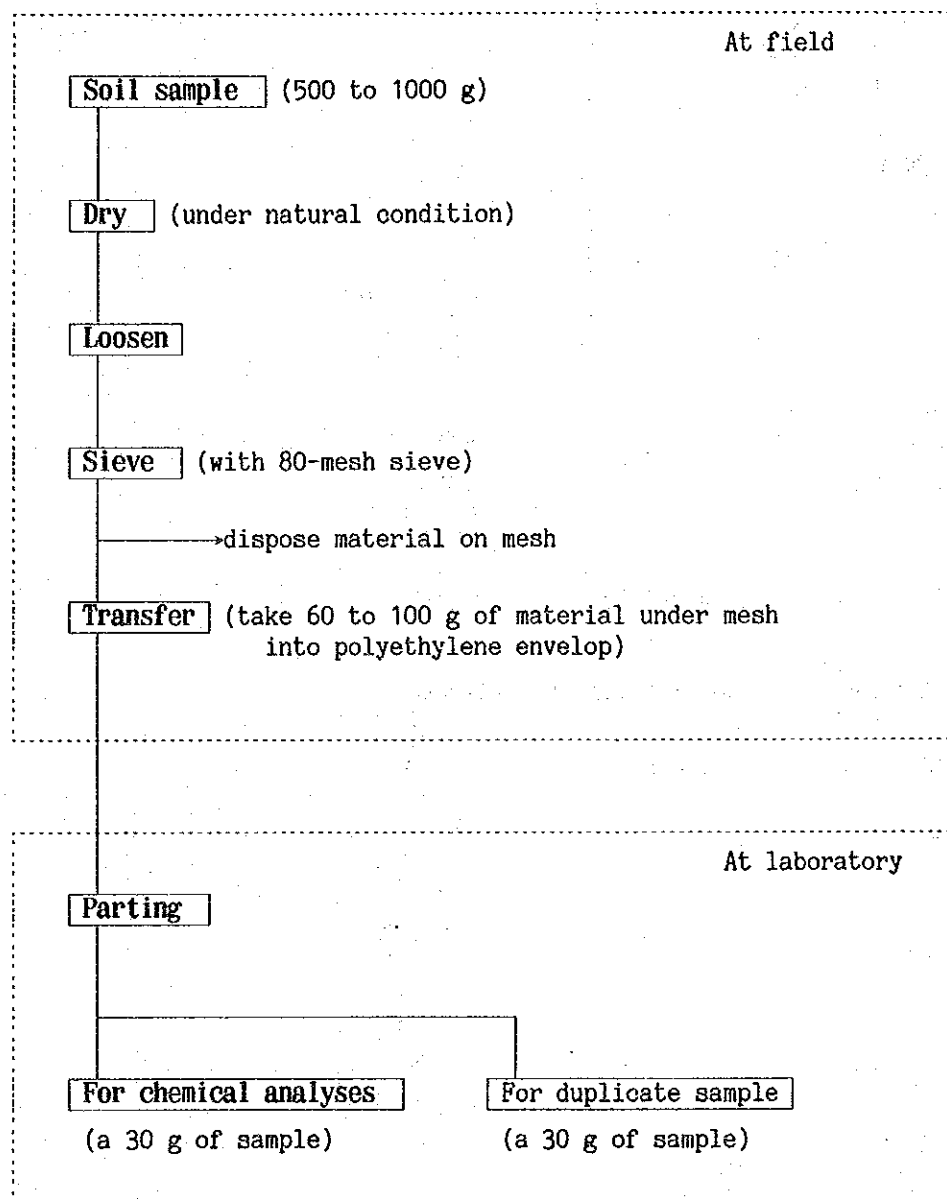
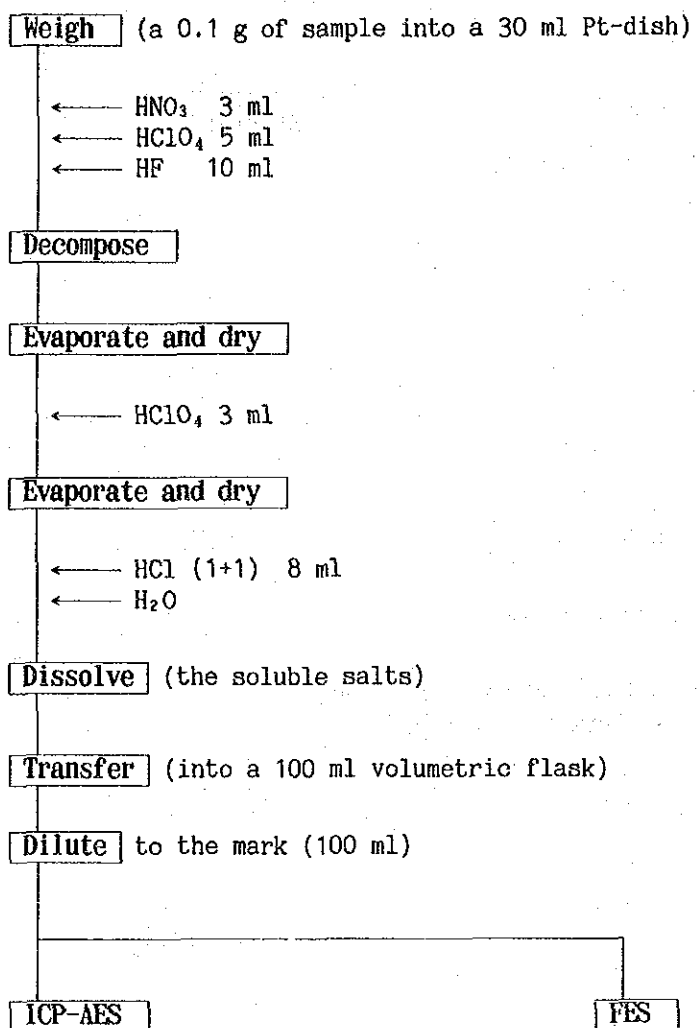


Fig. A-4 Flow sheet of soil sample treatment

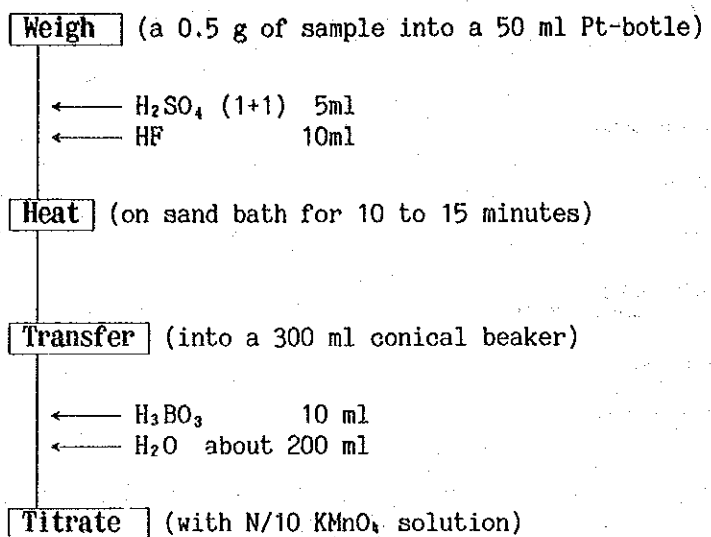
Determination of elements in rocks by ICP-AES FES method



Wave length				
Ti	334.941	n.m.	Na	589 n.m.
Fe	238.204	n.m.	K	766.5 n.m.
Al	309.278	n.m.		
Mn	257.61	n.m.		
Mg	279.806	n.m.		
Ca	896.847	n.m.		
P	213.618	n.m.		

Fig. A-5 Flow sheet of chemical analysis (1) (Whole rock) ①

Determination of FeO in rock by titrate method



Determination of Ig-loss of rock by gravimetric method

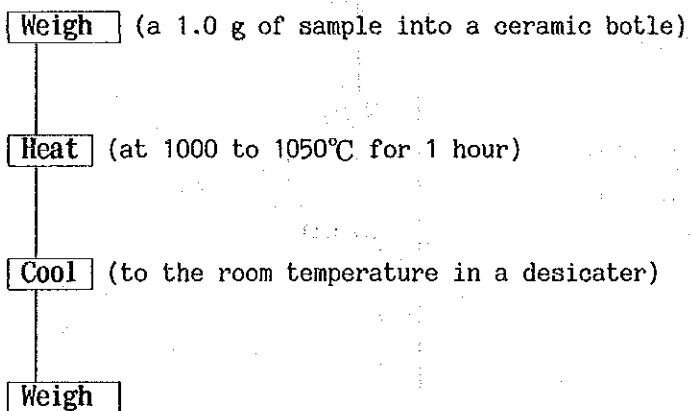
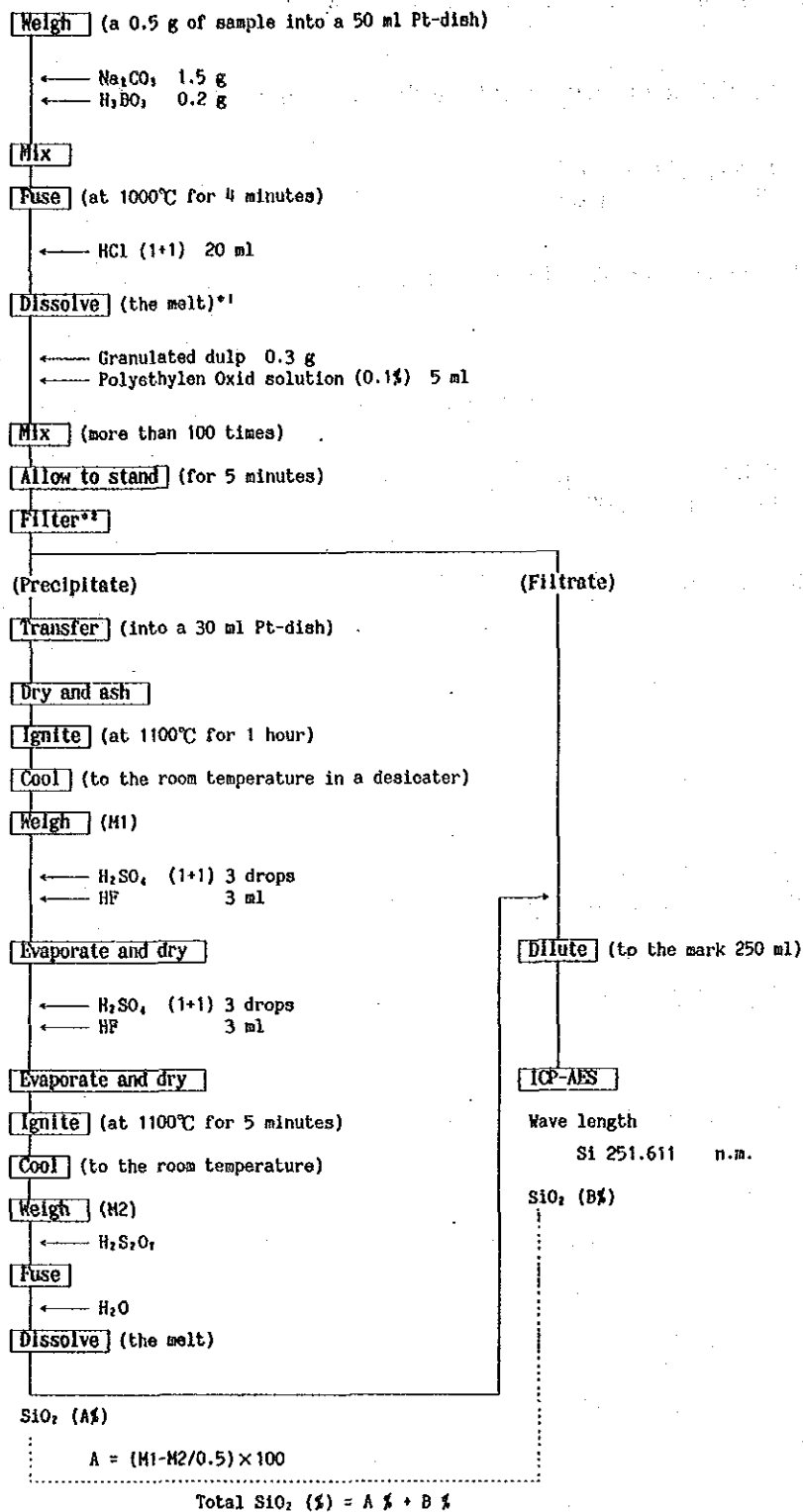


Figure A-5 Flow sheet of chemical analysis (1) (Whole rock) ②

Determination of SiO₂ in rock by Gravimetric method with ICP-AES

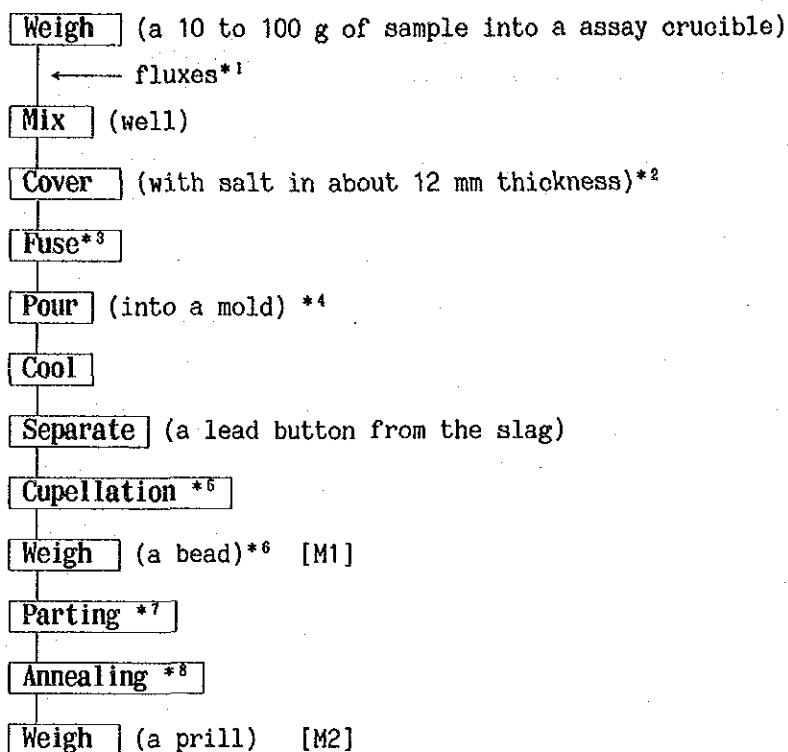


*1 Cover with a watch glass and heat on a water bath for 20 minutes until the salts become gelatine.

**2 Filtrate into a 250 ml volumetric flask (through a JIS-5B filter paper). Wash the precipitate with hot HCL (1+50) more than 15 times and then with hot water more than 10 times.

Figure A-5 Flow sheet of chemical analysis (1) (Whole rock) ③

Determination of Au and Ag in ore by fire assay method



$$\text{Au} = [\text{M2}]$$

$$\text{Ag} = [\text{M1}] - [\text{M2}]$$

*1 The fluxes for charge composition

Sodium carbonate	40 g
Litherge	30 g
Bolax bead	10 g
Flour	3 g

*2 Insert iron nails in the mixture if necessary.

*3 Place a crucible in the preheated furnace (600°C) for 20 minutes. Slowly raise the furnace temperature to 950°C and keep it on for about 10 minutes. Further raise it to 1100°C and maintain this temperature for at least 10 minutes.

*4 Remove the iron nails before pouring in the case of using the iron nails.

*5 Preheat the bone-ash cupel in a muffle furnace at 850°C for 15 minutes. Place the obtained lead button into the cupel and allow the cupellation to proceed at 820°C ± 10°C

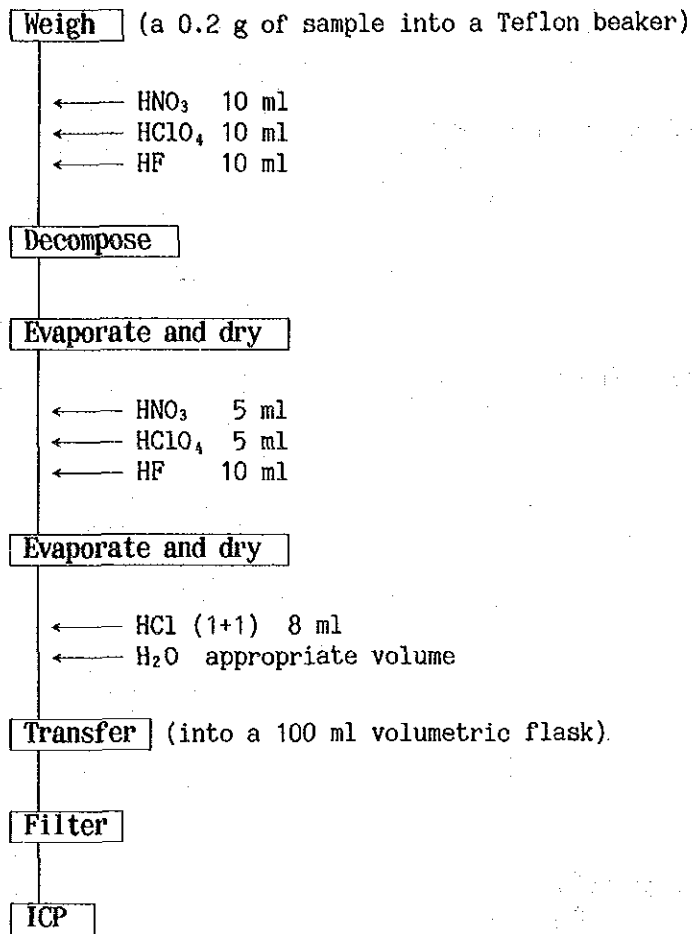
*6 Carefully take a Au-Ag bead and remove any adhering cupel material. Flatten the bead slightly by hammer and weigh it.

*7 Place the flattened bead in a 40 ml porcelain crucible, add 30 ml of HNO_3 (1+3), heat to nearly boiling and continue the parting until the solution reduces to the half volume. Carefully pour the solution into a 200 ml beaker using a glass rod to avoid losses. Rinse the remained gold with hot water 3 times by decantation and collect all washings in the same beaker.

*8 Dry the gold prill in the crucible on a hot plate and anneal at 700°C until it presents the golden color.

Figure A-5 Flow sheet of chemical analysis (2) (ore) ①

Determination of Cu, Pb, Zn and Mo in ore (low grade) by ICP-AES method



Wave length	
Cu 224.7	n.m.
Pb 220.353	n.m.
Zn 213.856	n.m.
Mo 202.03	n.m.

Figure A-5 Flow sheet of chemical analysis (2) (ore) ②

Determination of Au in soil by AAS method

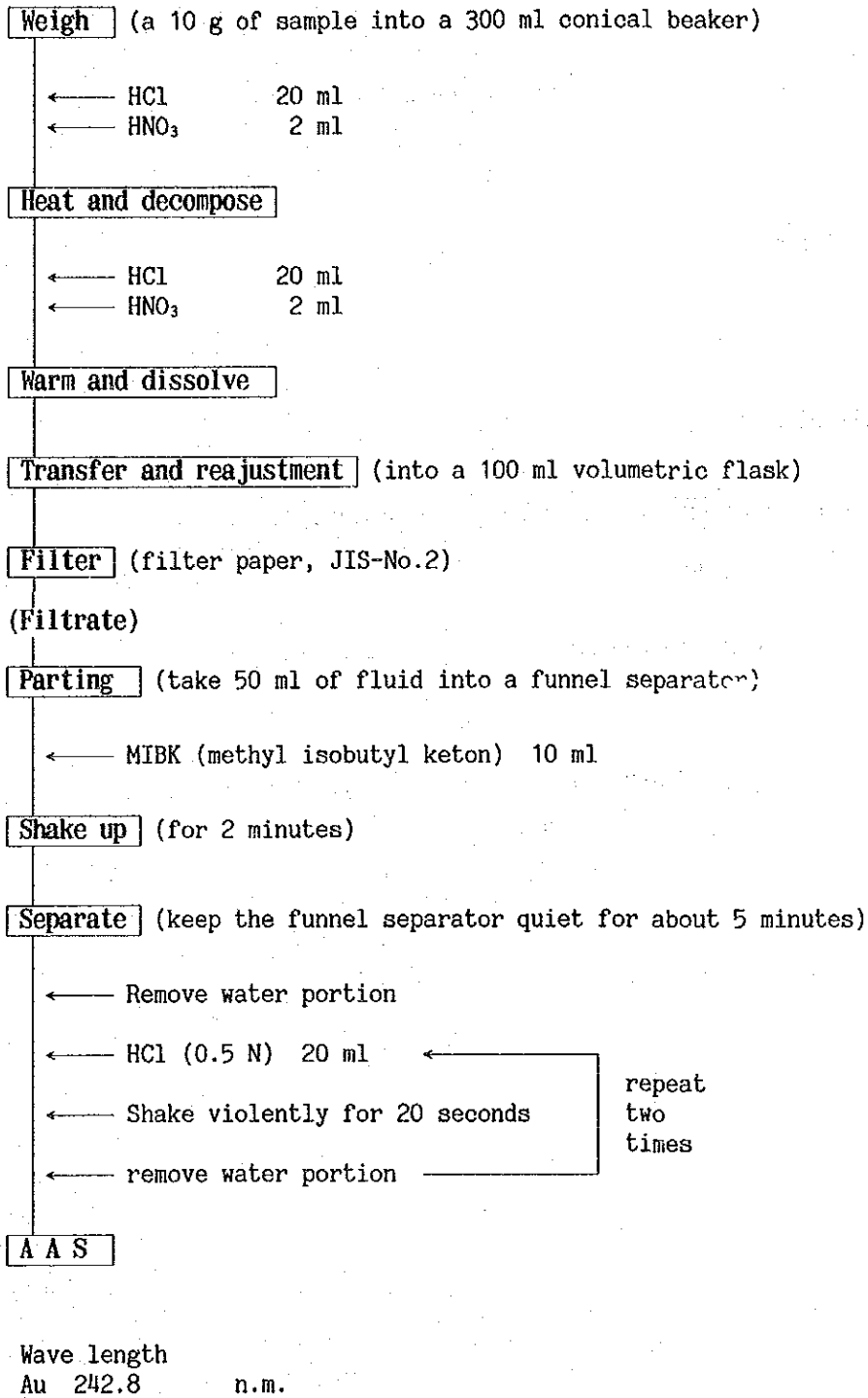
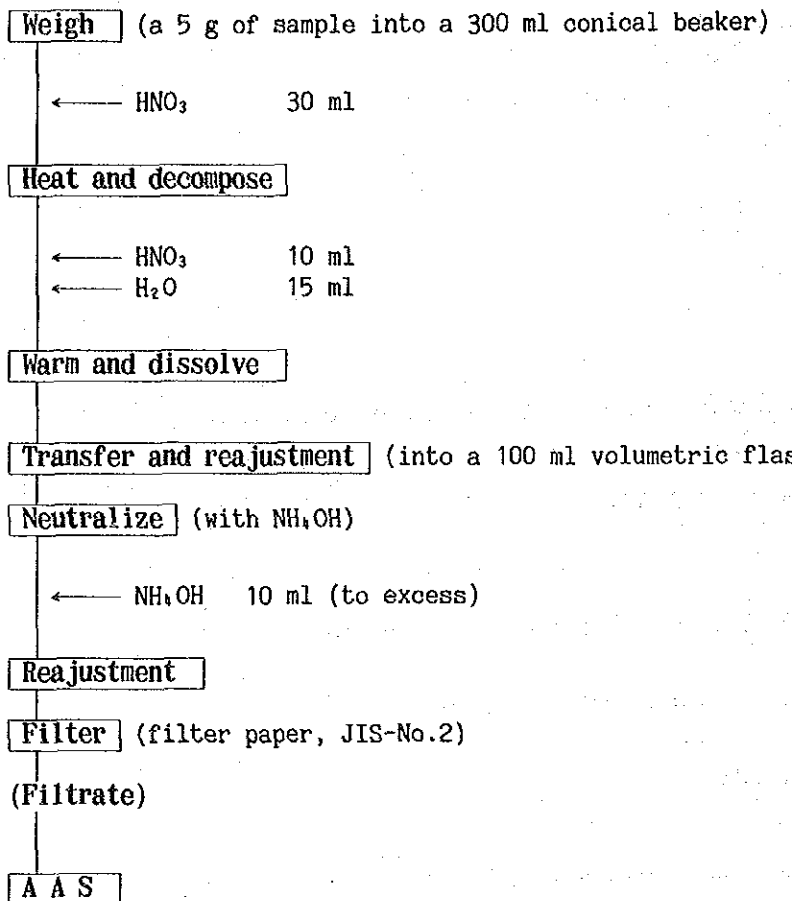


Figure A-5 Flow sheet of chemical analysis (3) (minor element) ①

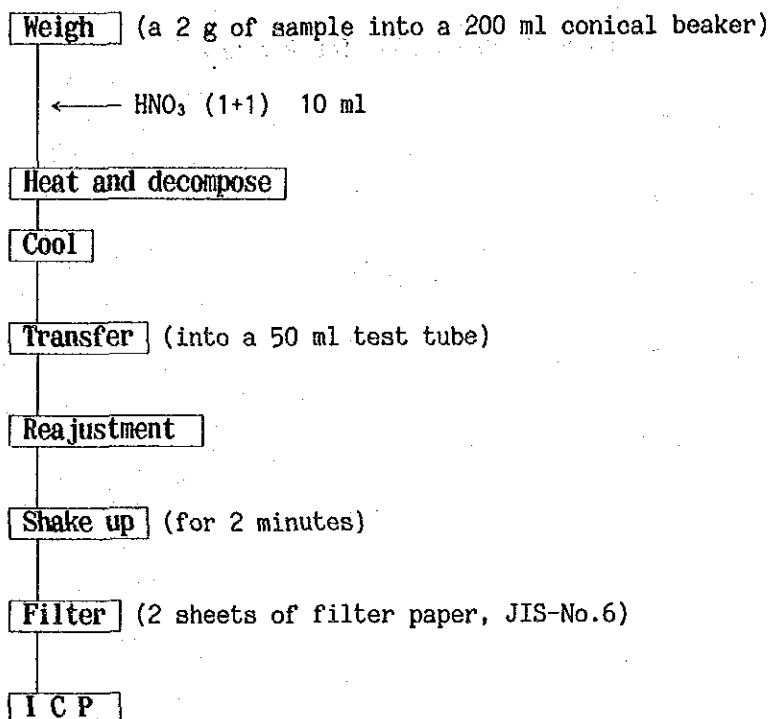
Determination of Ag in soil by AAS method



Wave length
Ag 328.1 n.m.

Figure A-5 Flow sheet of chemical analysis (3) (minor element) ②

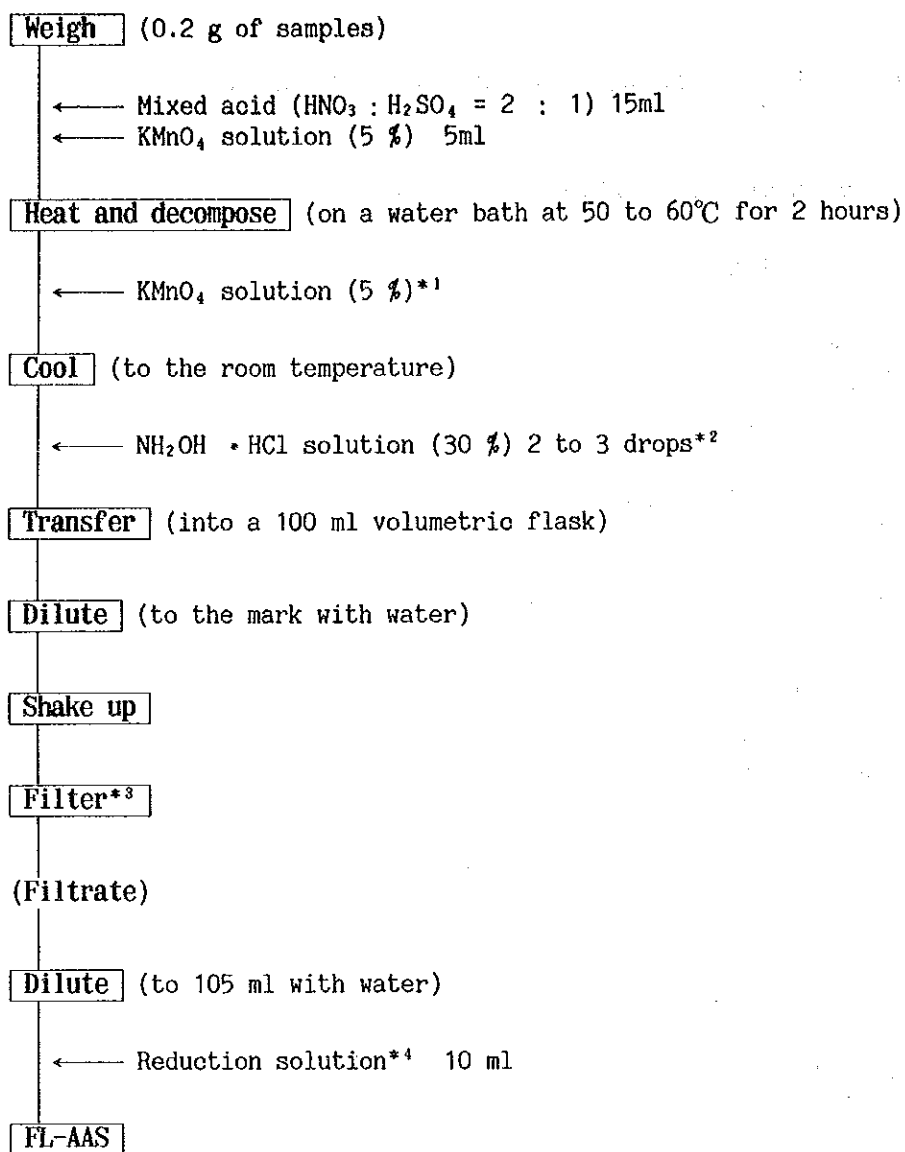
Determination of Cu, Pb, Zn, Mo and As in soil by ICP-AES method



Wave length		
Cu	224.7	n.m.
Pb	220.353	n.m.
Zn	213.856	n.m.
Mo	202.03	n.m.
As	197.197	n.m.

Figure A-5 Flow sheet of chemical analysis (3) (minor element) ③

Determination of Hg in soil by FL-AAS cold vapour method



Wave length

Hg 253.7 n.m.

*1 If the color of KMnO₄ is disappeared, add the KMnO₄ solution.

*2 Add this solution until the color of KMnO₄ is disappeared.

*3 Filter into a beaker (through JIS-No.2 filter paper).

And transfer the adequate volume (10 to 50 ml) of this solution into a generation flask.

*4 Dissolve 50 g of SnCl₂ · 2H₂O with 130 ml of H₂SO₄ (1+1), add to 170 ml of water and make this solution clear. Dilute to 500 ml with water.

Figure A-5 Flow sheet of chemical analysis (3) (minor element) ④

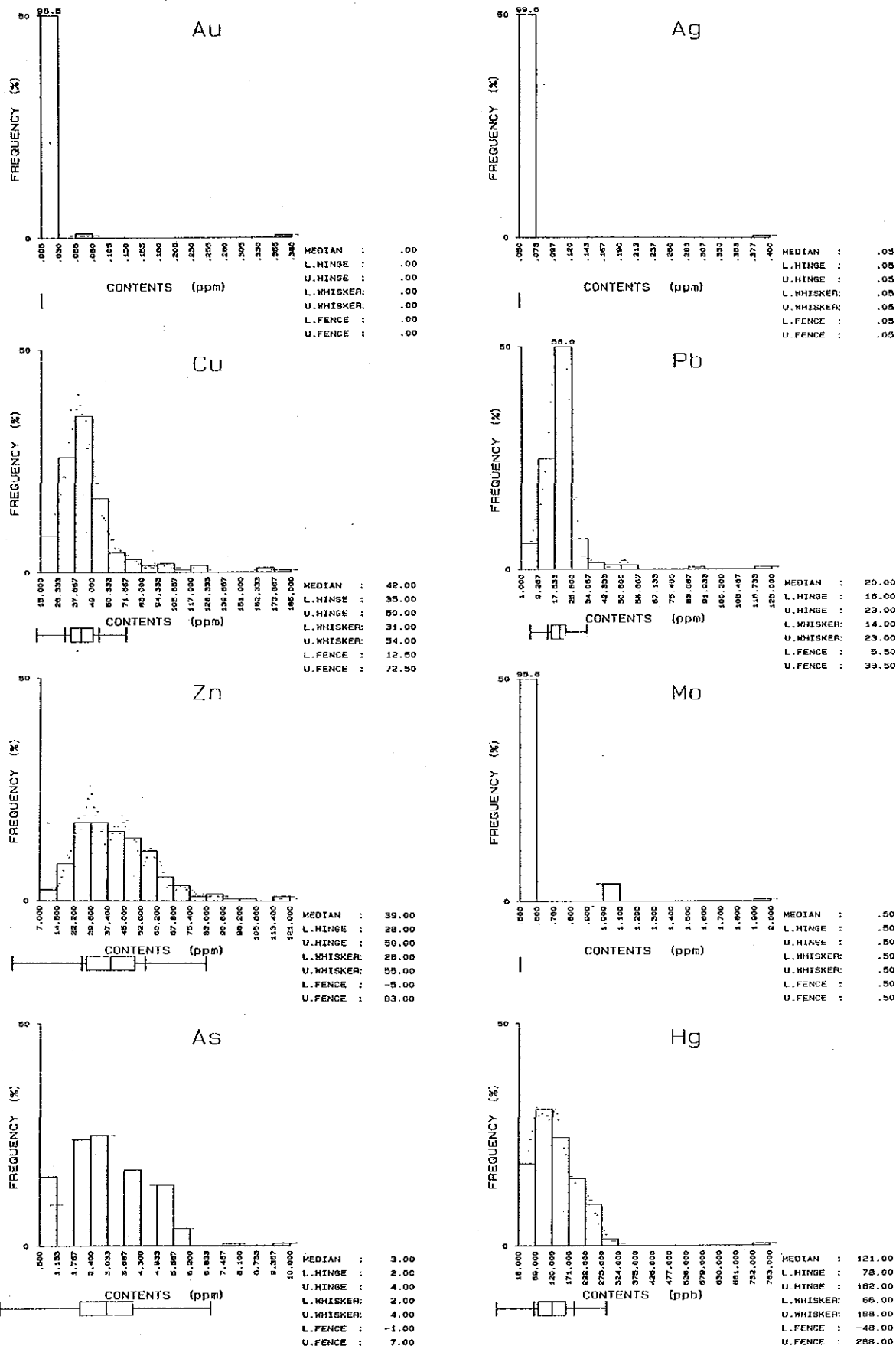


Fig. A-6 Histogram with 5-number summary and boxplot by EDA-method

Table A-2 Microscopic observations (polished section)

No.	Sample No.	Location		Occurrence	Minerals												
		Area	Coordinates		Chalcopyrite (cp)	Bornite (bn)	Chalcocite (cc)	Covellite (cv)	Molybdenite (mo)	Sphalerite (sp)	Pyrite (py)	Magnetite (Mt)	Hematite (Hm)	Galena (Gn)	Arsenopyrite (Asp)	Gangue minerals (G)	
			E		N												
1	A2017	Chaso Juan	706.50	9845.02	(cp-py diss/film in grd) Cp-Py veinlets & diss	○				•	•	●	●	•		⊙	
2	C2006		707.65	9847.15	(tf. bre, cp-py diss) (Cp-Py) diss	•	•			•		•	•			⊙	
3	C2011		707.60	9844.75	(grd, cp-mo-py diss) Mt diss							•	●	•		⊙	
4	D2007		705.46	9846.63	(grd, cp-py film) Cp-Py diss	●						•	●	•		⊙	
5	A2035	Teimbela	705.34	9817.25	(cp-py-mo diss in qtz dio) Cp diss	●	•	•	•		•	•	•			⊙	
6	A2041		705.54	9817.65	(cp-py-mo-q ntwk) Cp-Py-q veinlets	●		•	•		●	•				⊙	
7	C2019		704.45	9816.24	(sil rk, cp-py-mo diss/film) Cp-Py-q veinlets & diss	●	•	•	•		●	•	•			⊙	
8	C2024		703.94	9816.90	(cp-py diss/str. in qtz dio, melano dio and horn) Mt diss Cp-Py veinlets & diss	•					•	○	•			⊙	
9	C2043	Las Guardias	705.08	9804.33	(mo-cp-py ore) Cp-Py-Mo ore	○		•	•	●	•	○				⊙	
10	D2041		704.96	9804.25	(melano dio, cp-py diss) Py diss	•					•	•	•			⊙	
11	(Hole No.) MJE-4		(Depth) 29.80m		(cp-py-chl-bi-q v) Py-(Cp) diss, Mt diss	•	•				○	●	•			⊙	
12	MJE-4		78.70m		(cp-py-chl-bi-q v) Py-(Cp) diss, Mt diss	•	•			•	○	●				⊙	
13	MJE-4		86.30m		(py-chl-q v) Py-Cp diss, Mt diss	●	•				○	●				⊙	
14	MJE-4		169.05m		(cp-py-chl-q v) Cp-Py-q vlet & diss, Mt diss	○					○	●				⊙	
15	MJE-5		95.60m		(cp-py-chl-q v) Cp-Py diss, Mt diss	○					○	●				⊙	
16	MJE-5		206.60m		(py-mo-q v) Mo-q vlet, Mo-Cp-Py diss	●				●	○					⊙	
17	MJE-5		295.05m		(mo-q v) Mo-q vlet, Py-(Cp) diss	•				●	●					⊙	
18	MJE-6		54.30m		(py-chl-bi-q v) Mo-bg Py-(Cp) vlet & Py-Cp, Mt diss	•				•	○	•		•		⊙	
19	MJE-6		97.00m		(py-chl-bi-q v) Py-(Cp) diss	•				•	●					⊙	
20	MJE-6		123.50m		(py-ser-q v) Py-(Cp)-q v	•				•	○					⊙	
21	MJE-6		273.20m		(py-mo-q v) Sp-Gn-(Cp)-Py-q v	•				○	○			○		⊙	

⊙ Abundant ○ Common ● A little • Rare

* Occurrence : in parenthesis ; field occurrence,
lower ; under microscopic observation

Table A-3 Assay results of ore samples (geological survey and drill core)

(1)

No.	Sample No.	Location		Description	Assay Results						
		Area	Coordinates		(g/t)	(g/t)	(%)	(%)	(%)	(%)	
			E		N	Au	Ag	Cu	Pb	Zn	Mo
1	A2011	Chaco Juan	706.06	9844.24	Cp-Py film in crack of gd	0.1	0.6	0.13	0.00	0.00	0.00
2	A2015		706.52	9845.03	Cp-Py diss and film in gd	0.2	1.1	0.33	0.00	0.01	0.00
3	A2017		706.52	9845.03	ditto	0.1	4.2	1.41	0.00	0.01	0.05
4	B2002		705.86	9844.78	Cp-Py diss and vlet zone (W: 25m)	0.1	1.7	0.24	0.00	0.01	0.00
5	C2003		707.26	9847.10	Py-Mag-(Cp)-Q-Ep ntwk vlet in sil rock	Tr	Tr	0.01	0.00	0.01	0.00
6	C2006		707.66	9847.16	Cp-Py diss and Q ntwk in sil ande lf bre	Tr	Tr	0.04	0.00	0.00	0.00
7	C2009		706.64	9845.18	Cp-Py diss in gd	Tr	1.0	0.24	0.00	0.00	0.00
8	C2010		706.75	9845.17	ditto	Tr	Tr	0.02	0.00	0.00	0.00
9	C2011		707.60	9844.75	Cp-Mo-Py diss in gd	Tr	Tr	0.01	0.00	0.00	0.00
10	D2008		705.43	9846.64	ditto	Tr	Tr	0.01	0.00	0.00	0.00
11	A2024	Telrabeia	703.93	9816.88	Cp-Py thin V and diss in melano dio	Tr	0.6	0.04	0.00	0.01	0.00
12	A2026		703.92	9816.92	Cp-Py diss in melano dio	0.2	1.6	0.16	0.00	0.01	0.00
13	A2030		703.56	9816.79	Cp-Py diss in qtz dio	0.1	0.9	0.12	0.01	0.01	0.00
14	A2033		705.12	9817.15	Cp-Py film and diss in qtz dio	0.1	9.5	0.80	0.01	0.03	0.08
15	A2035		705.32	9817.25	Cp-Py-Mo diss in qtz dio	0.2	5.6	0.47	0.00	0.02	0.00
16	A2041		705.53	9817.65	Cp-Py-Mo-Q ntwk V	0.3	5.8	1.65	0.00	0.02	0.05
17	A2043		705.57	9817.74	Cp-Py diss in qtz dio	0.2	2.7	0.53	0.00	0.01	0.01
18	A2045		705.57	9817.74	Cp-Py thin V and diss in hornfels	Tr	1.0	0.13	0.00	0.01	0.00
19	A2046		705.57	9817.80	Cp-Py diss in qtz dio	0.4	4.2	1.23	0.00	0.01	0.00
20	B2014		704.36	9815.68	Py-Cp diss and Mo-Cp-Py-Q thin V in qtz dio	Tr	Tr	0.05	0.00	0.03	0.00
21	B2020		705.35	9817.03	Cp-Py-Q-Ch thin V in cracks of qtz dio	Tr	Tr	0.09	0.00	0.01	0.00
22	B2021		705.42	9817.03	Cp-Py-Q-Ep thin V in cracks of hornfels	Tr	Tr	0.08	0.00	0.01	0.00
23	B2022		705.71	9817.05	Cp-Py diss and Py-Q V in hornfels	Tr	Tr	0.08	0.00	0.01	0.02
24	B2024		706.03	9817.10	Cp-Py thin V in cracks of qtz dio	Tr	Tr	0.04	0.00	0.00	0.00
25	C2014		703.44	9814.90	Cp-Py diss in ch-sil rock	Tr	Tr	0.02	0.00	0.01	0.00
26	C2018		704.41	9816.30	Py-(Cp) diss and film in melano dio	Tr	Tr	0.01	0.00	0.01	0.00
27	C2019		704.45	9816.26	Cp-Py-Mo diss and film in sil rock	Tr	Tr	0.00	0.00	0.01	0.00
28	C2023		704.70	9816.10	Py diss in ch-sil qtz dio	Tr	Tr	0.01	0.00	0.00	0.00
29	C2024		703.40	9816.40	Cp-Py diss and stringer in qtz dio and hornfels intruded by melano dio	Tr	Tr	0.03	0.00	0.01	0.00
30	C2025		703.40	9816.40	Cp-Py diss in qtz dio	Tr	Tr	0.03	0.00	0.01	0.00
31	D2015	702.28	9815.30	Cp-Py diss and in qtz dio	Tr	Tr	0.05	0.00	0.00	0.00	
32	E2011	704.26	9817.34	Cp-Py-Q-Ep V in hornfels	Tr	Tr	0.03	0.00	0.00	0.00	
33	A2068	La Industria - Yautubi	688.06	9624.40	black sinter in druse of sil rock	Tr	Tr	0.00	0.00	0.00	0.01
34	A2071		688.31	9624.03	black sinter-black mineral-Q V in sil rock	Tr	Tr	0.02	0.01	0.00	0.00
35	A2072		688.58	9624.94	Q V in weathered qtz dio	Tr	Tr	0.01	0.00	0.00	0.00
36	C2029		687.42	9624.55	float of hem-Q-clay ntwk in sil qtz dio	Tr	Tr	0.00	0.00	0.00	0.02
37	C2032		688.03	9624.38	hem-Q ntwk in sil rock	Tr	Tr	0.00	0.00	0.00	0.00
38	C2033		688.03	9624.44	hem-Q ntwk in sil rock	Tr	Tr	0.00	0.00	0.00	0.01
39	C2034		688.62	9625.30	hem-Q-black mineral-clay ntwk in sil rock	Tr	Tr	0.00	0.00	0.00	0.00
40	C2035		688.62	9625.30	float of hem-Q ntwk with Py in druse	Tr	Tr	0.00	0.00	0.00	0.00
41	E2027		688.85	9624.38	hem-Q-black mineral ntwk	Tr	Tr	0.01	0.01	0.00	0.00
42	E2028		688.84	9625.55	hem-Q-clay ntwk	Tr	Tr	0.01	0.00	0.00	0.00
43	E2033		687.68	9624.09	ditto	Tr	Tr	0.00	0.00	0.00	0.00
44	A2080	Las Guarcinas	707.27	9801.95	Cp-Py diss and film in melano dio	0.2	2.1	0.47	0.00	0.01	0.00
45	A2091		706.25	9802.35	Cp-Py diss in sil rock	Tr	Tr	0.04	0.00	0.01	0.00
46	C2037		704.59	9804.09	Py diss and Cp film in melano dio	Tr	Tr	0.05	0.00	0.00	0.00
47	C2041		705.00	9804.28	Py-Cp film and diss in gd	Tr	Tr	0.08	0.00	0.01	0.00
48	C2043		705.09	9804.35	float of Mo-Cp-Py ore	0.2	8.3	0.35	0.00	0.00	0.79
49	C2044		705.28	9804.52	Cp-Mo-Py-Q vlet in gd	Tr	2.0	0.26	0.00	0.01	0.04
50	D2035		707.43	9803.50	Py-Cp ntwk in ande	Tr	Tr	0.00	0.00	0.02	0.00
51	D2043		706.74	9801.74	Py-Cp film in sil ande	Tr	Tr	0.02	0.00	0.00	0.00

No.	Hole No.	Depth (m)	Assay Results						
			(g/t) Au	(g/t) Ag	(%) Cu	(%) Pb	(%) Zn	(%) Mo	(%) W
1	MJE-4	21.00~ 21.50	Tr	Tr	0.01	0.00	0.01	0.00	0.00
2	MJE-4	36.00~ 36.50	0.1	9.5	0.03	0.01	0.04	0.00	0.00
3	MJE-4	56.50~ 57.00	Tr	Tr	0.02	0.00	0.00	0.00	0.00
4	MJE-4	78.50~ 79.00	Tr	1.0	0.02	0.00	0.01	0.00	0.00
5	MJE-4	95.60~ 96.40	Tr	Tr	0.01	0.00	0.00	0.00	0.00
6	MJE-4	102.00~102.50	Tr	Tr	0.02	0.00	0.01	0.00	0.00
7	MJE-4	112.70~112.80	Tr	Tr	0.00	0.00	0.00	0.00	0.00
8	MJE-4	124.00~124.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
9	MJE-4	132.50~133.50	Tr	Tr	0.00	0.00	0.00	0.00	0.00
10	MJE-4	144.00~144.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
11	MJE-4	168.70~169.20	Tr	Tr	0.10	0.00	0.01	0.00	0.00
12	MJE-4	193.00~193.50	Tr	Tr	0.00	0.00	0.00	0.00	0.00
13	MJE-4	215.00~215.50	Tr	Tr	0.02	0.00	0.01	0.02	0.00
14	MJE-4	238.00~238.50	Tr	Tr	0.01	0.00	0.01	0.00	0.00
15	MJE-4	260.50~261.00	Tr	Tr	0.02	0.00	0.01	0.01	0.00
16	MJE-4	283.00~283.50	Tr	Tr	0.03	0.00	0.01	0.00	0.00
17	MJE-4	300.00~300.50	Tr	Tr	0.01	0.00	0.01	0.00	0.00
18	MJE-5	15.50~ 16.00	Tr	Tr	0.02	0.00	0.01	0.00	0.02
19	MJE-5	38.50~ 38.50	Tr	Tr	0.01	0.00	0.01	0.00	0.03
20	MJE-5	68.50~ 69.00	Tr	Tr	0.01	0.00	0.01	0.00	0.03
21	MJE-5	75.00~ 75.50	Tr	Tr	0.01	0.00	0.00	0.00	0.03
22	MJE-5	81.00~ 81.50	Tr	Tr	0.03	0.00	0.01	0.00	0.03
23	MJE-5	95.50~ 96.00	Tr	Tr	0.02	0.00	0.00	0.00	0.04
24	MJE-5	108.00~108.50	Tr	Tr	0.01	0.00	0.00	0.00	0.05
25	MJE-5	142.00~142.50	Tr	Tr	0.00	0.00	0.01	0.00	0.03
26	MJE-5	162.00~162.50	Tr	Tr	0.01	0.00	0.01	0.00	0.03
27	MJE-5	180.50~181.00	Tr	Tr	0.01	0.00	0.01	0.00	0.02
28	MJE-5	199.00~199.50	Tr	Tr	0.00	0.01	0.01	0.00	0.00
29	MJE-5	210.50~211.00	Tr	Tr	0.00	0.00	0.01	0.00	0.00
30	MJE-5	211.00~212.80	Tr	Tr	0.01	0.00	0.00	0.00	0.00
31	MJE-5	231.50~232.00	Tr	Tr	0.02	0.00	0.00	0.00	0.00
32	MJE-5	252.50~253.00	Tr	Tr	0.01	0.00	0.00	0.00	0.00
33	MJE-5	270.00~270.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
34	MJE-5	290.00~290.50	Tr	Tr	0.01	0.00	0.01	0.00	0.00
35	MJE-5	304.00~304.50	Tr	Tr	0.01	0.00	0.01	0.00	0.00
36	MJE-6	23.90~ 24.30	Tr	Tr	0.01	0.00	0.00	0.00	0.00
37	MJE-6	48.50~ 49.00	Tr	Tr	0.02	0.00	0.00	0.00	0.00
38	MJE-6	71.00~ 71.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
39	MJE-6	94.00~ 94.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
40	MJE-6	119.10~119.60	Tr	Tr	0.01	0.00	0.00	0.00	0.00
41	MJE-6	135.00~135.50	Tr	Tr	0.00	0.00	0.00	0.00	0.00
42	MJE-6	161.00~161.50	Tr	Tr	0.01	0.00	0.00	0.00	0.00
43	MJE-6	183.80~184.30	Tr	Tr	0.01	0.00	0.01	0.00	0.00
44	MJE-6	197.00~197.50	Tr	Tr	0.02	0.00	0.00	0.00	0.00
45	MJE-6	208.50~209.00	Tr	Tr	0.02	0.00	0.00	0.00	0.00
46	MJE-6	228.50~229.00	Tr	0.7	0.01	0.00	0.01	0.00	0.05
47	MJE-6	244.00~244.50	Tr	Tr	0.02	0.00	0.00	0.00	0.06
48	MJE-6	268.40~268.90	Tr	Tr	0.01	0.00	0.00	0.00	0.09
49	MJE-6	273.10~273.20	0.1	3.8	0.02	0.26	1.59	0.00	0.29
50	MJE-6	295.50~296.00	Tr	Tr	0.01	0.01	0.02	0.00	0.07
51	MJE-6	304.20~304.70	Tr	Tr	0.02	0.00	0.00	0.00	0.08
52	MJE-6	311.50~312.00	Tr	Tr	0.03	0.00	0.01	0.02	0.07
53	MJE-6	319.50~320.00	Tr	Tr	0.05	0.00	0.01	0.01	0.03
54	MJE-6	334.50~335.00	Tr	Tr	0.01	0.00	0.01	0.00	0.06

Table A-4 Results of x-ray diffractive analysis

(1)

No.	Sample No.	Location		Rock name	Minerals											Remarks									
		Coordinates			Quartz	Plagioclase	K-feldspar	Hornblende	Sericite	Chlorite	Kaoline	Montmorillonite	Ser/Mon *	Laumontite	Stibite		Wairakite	Pyrite	Chalcopyrite						
		N	Y																						
1	A2003	Chaco Juan	705.48	9847.10	py-(cy) diss/film in altered rock	⊕		?	○	-	?		?												
2	A2006		705.25	9847.50	weakly altered granodiorite	⊕	⊕		○																
3	A2016		706.56	9844.98	argillized granodiorite	⊕	○								●	?		○							
4	D2009		705.38	9846.98	clay	⊕				○	○	?			●										
5	A2033	Telimbela	705.12	9817.15	cp-py film/diss in quartz diorite	⊕	●				○	?													
6	A2043		705.57	9817.15	cp-py diss in quartz diorite	⊕	⊕				●	●	?		-	?									
7	A2045		705.57	9817.74	cp-py thin vein/diss in hornfels	○	○					○	?				●								
8	C2023		704.70	9816.10	chl-sil quartz diorite, py diss	○	⊕				●	○	?									●			
9	C2025		703.40	9816.40	cp-py diss in quartz diorite	⊕	⊕					○	?									●	-		
10	C2026		703.40	9816.40	py-limo-clay stringer	○	○							●				○							
11	C2027		703.40	9816.40	cp-py diss/stringer in quartz diorite/hornfels	⊕	⊕				⊕														
12	D2014	702.22	9815.35	argillized quartz diorite, py-quartz vein	⊕	⊕					-	?													
13	D2026	705.85	9818.28	muscovite-py ntwk in sil rock	⊕					○											○	?			
14	A2057	La Industria-Yarnbi	688.82	9624.58	altered rock	⊕	○																		
15	A2059		688.23	9624.29	argillized rock	⊕					●	○		-	?										
16	A2062		688.32	9624.25	black mineral ntwk	⊕	○				-														
17	A2070		688.10	9624.02	black sinter-hm-limo in sil rock	○																		Dravite (common)	
18	B2038	Llanitas	688.72	9624.00	quartz diorite, limo-clay	⊕	○				-														
19	C2034		688.62	9624.00	sil-hm-black sinter-black and white mineral	⊕					○														
20	C2041		705.00	9804.25	bt-hb granodiorite, py-cp film/diss	⊕	○				●	○	?												

No.	Hole No.	Depth (m)	Quartz	Fluorapatite	Hornblende	Sericite	Biotite	Chlorite	Cl/Mon**	Montmorillonite	Calcite	Laumontite	Stibite	Chabazite	Kaolinite	Pyrite	Remarks
1	MJE-4	20.20	⊙	?	⊙	-	-	-	-	-	●	-	-	-	?	-	
2	MJE-4	21.10	⊙	○	●	-	?	-	-	-	-	-	-	-	?	-	
3	MJE-4	30.30	-	○	⊙	-	○	-	-	-	-	-	-	-	?	-	
4	MJE-4	49.10	⊙	○	○	-	●	-	-	-	-	-	○	?	-	-	
5	MJE-4	56.90	⊙	⊙	○	-	-	-	-	-	-	-	-	-	?	-	
6	MJE-4	84.60	○	-	-	-	-	○	?	○	?	○	○	○	?	-	crystalite: ○
7	MJE-4	124.10	○	●	?	-	-	?	?	●	-	○	○	-	-	-	
8	MJE-4	124.60	⊙	●	-	-	?	?	?	?	-	●	○	?	-	-	
9	MJE-4	144.00	○	-	-	-	?	?	?	○	-	○	○	?	-	-	
10	MJE-4	168.90	⊙	⊙	○	-	-	-	○	?	-	-	-	-	-	-	
11	MJE-4	215.20	⊙	⊙	⊙	-	?	?	?	-	-	-	-	-	?	-	
12	MJE-4	238.10	⊙	⊙	⊙	-	-	?	?	-	-	-	-	-	-	-	
13	MJE-4	283.10	⊙	⊙	○	-	-	?	-	-	-	-	-	-	-	-	
14	MJE-5	38.20	⊙	○	-	-	?	?	?	?	-	●	●	-	?	-	
15	MJE-5	55.00	⊙	⊙	-	○	-	-	●	-	-	-	-	-	-	?	
16	MJE-5	75.20	⊙	⊙	-	○	-	-	-	-	-	-	-	-	-	-	
17	MJE-5	81.10	⊙	⊙	-	○	-	-	-	-	-	-	-	-	-	-	
18	MJE-5	87.70	⊙	⊙	-	●	-	-	-	-	-	-	-	-	-	-	
19	MJE-5	91.90	⊙	-	⊙	-	●	-	-	?	-	-	-	-	-	-	
20	MJE-5	108.20	⊙	⊙	-	○	-	-	-	-	-	-	-	-	-	-	
21	MJE-5	121.40	⊙	-	⊙	-	●	-	-	●	-	-	-	-	-	●	Cp: ?
22	MJE-5	122.00	⊙	⊙	-	⊙	●	-	-	●	-	-	-	-	?	-	Cp: -
23	MJE-5	180.70	⊙	⊙	-	●	-	-	-	-	-	-	-	-	-	-	
24	MJE-5	212.60	○	?	-	-	●	-	⊙	?	-	⊙	-	?	-	-	antigorite: ●
25	MJE-5	231.80	⊙	⊙	-	○	-	-	-	-	-	-	-	-	-	-	
26	MJE-5	270.20	⊙	⊙	-	○	-	-	-	-	-	-	-	-	-	-	
27	MJE-5	290.10	⊙	⊙	●	○	-	-	-	-	-	-	-	-	-	-	
28	MJE-6	32.30	⊙	●	-	●	?	●	●	●	-	?	●	-	-	-	sphalerite: ?
29	MJE-6	46.70	-	-	⊙	-	-	-	-	-	?	-	-	-	-	-	
30	MJE-6	60.00	⊙	-	-	-	?	-	-	●	-	⊙	-	-	?	-	

No.	Hole No.	Depth (m)	Quartz	Plagioclase	Hornblende	Sericite	Biotite	Chlorite	Chl/Mon**	Montmorillonite	Calcite	Laumontite	Stibite	Chabazite	Kaoline	Pyrite	Remarks
31	MJE-6	69.00	⊙	○			●	~		-			●		~		
32	MJE-6	152.70		●		○	⊙	●		●					●	●	
33	MJE-6	208.60	⊙	○			○	-		?							
34	MJE-6	237.50	⊙	●		⊙					●						Cp: -
35	MJE-6	279.60	○			⊙		●		?	●						
36	MJE-6	297.50		●		●		○									Cp: -
37	MJE-6	315.90	○			○		●		●	●		●	●	●		antigorite: ● ?
38	MJE-6	319.50	⊙	?		●		-					?	-		●	Cp: ?
39	MJE-6	319.90	⊙	○			●	●		●	?			-	●	?	
40	MJE-6	349.10	○	?		-				●	?		⊙				
41	MJE-6	351.00	⊙	?				?		●	?		⊙		?		

⊙ : Abundant, ○ : Common, ● : A little, - : rare, ? , ? , ? : estimated existence, ? : probable existence
diss : dissemination, ntwk : network, cp : chalcopyrite, py : pyrite, hm : hematite, limo : limonite, sil : silicified,
* Ser/Mon: Sericite-montmorillonite mixed layer ** Chl/Mon: Chlorite-montmorillonite mixed layer

Table A-5 Results of the measured value of the magnetic susceptibility.

(1)

No.	Measured Point No.	Measured Value	Remarks	No.	Measured Point No.	Measured Value	Remarks	No.	Measured Point No.	Measured Value	Remarks
1	MCJ2001	25		39	MCJ2039	12		76	MTE2009	12	
2	MCJ2002	2		40	MCJ2040	20		77	MTE2010	87	
3	MCJ2003	48		41	MCJ2041	18		78	MTE2011	29	
4	MCJ2004	21		42	MCJ2042	21		79	MTE2012	28	
5	MCJ2005	30		43	MCJ2043	35		80	MTE2013	7	
6	MCJ2006	36		44	MCJ2044	35		81	MTE2014	5	
7	MCJ2007	38		45	MCJ2045	30		82	MTE2015	20	
8	MCJ2008	21		46	MCJ2046	27		83	MTE2016	50	
9	MCJ2009	40		47	MCJ2047	15		84	MTE2017	48	
10	MCJ2010	10		48	MCJ2048	27		85	MTE2018	41	
11	MCJ2011	20		49	MCJ2049	32		86	MTE2019	32	
12	MCJ2012	20		50	MCJ2050	49		87	MTE2020	42	
13	MCJ2013	25		51	MCJ2051	30		88	MTE2021	77	
14	MCJ2014	35		52	MCJ2052	32		89	MTE2022	41	
15	MCJ2015	25		53	MCJ2053	38		90	MTE2023	47	
16	MCJ2016	34		54	MCJ2054	33		91	MTE2024	137	
17	MCJ2017	7		55	MCJ2055	29		92	MTE2025	27	
18	MCJ2018	18		56	MCJ2056	28		93	MTE2026	41	
19	MCJ2019	12		57	MCJ2057	33		94	MTE2027	35	
20	MCJ2020	17		58	MCJ2058	27		95	MTE2028	26	
21	MCJ2021	18		59	MCJ2059	26		96	MTE2029	39	
22	MCJ2022	19		60	MCJ2060	22		97	MTE2030	34	
23	MCJ2023	25		61	MCJ2061	40		98	MTE2031	65	
24	MCJ2024	23		62	MCJ2062	29		99	MTE2032	0.57	
25	MCJ2025	24		63	MCJ2063	24		100	MTE2033	91	
26	MCJ2026	47		64	MCJ2064	34		101	MTE2034	18	
27	MCJ2027	79		65	MCJ2065	8		102	MTE2035	3	
28	MCJ2028	64		66	MCJ2066	21		103	MTE2036	3	
29	MCJ2029	42		67	MCJ2067	0.38		104	MTE2037	38	
30	MCJ2030	30						105	MTE2038	28	
31	MCJ2031	31		68	MTE2001	14		106	MTE2039	19	
32	MCJ2032	25		69	MTE2002	48		107	MTE2040	38	
33	MCJ2033	25		70	MTE2003	68		108	MTE2041	15	
34	MCJ2034	30		71	MTE2004	67		109	MTE2042	7	
35	MCJ2035	25		72	MTE2005	107		110	MTE2043	21	
36	MCJ2036	41		73	MTE2006	49		111	MTE2044	7	
37	MCJ2037	11		74	MTE2007	30		112	MTE2045	20	
38	MCJ2038	17		75	MTE2008	26		113	MTE2046	34	

(2)

No.	Measured Point No.	Measured Value	Remarks	No.	Measured Point No.	Measured Value	Remarks	No.	Measured Point No.	Measured Value	Remarks
114	MTE2047	21		150	MLG2002	32		188	MLG2040	31	
115	MTE2048	3		151	MLG2003	31		189	MLG2041	38	
116	MTE2049	4		152	MLG2004	0.21		190	MLG2042	25	
117	MTE2050	25		153	MLG2005	34		191	MLG2043	30	
118	MTE2051	32		154	MLG2006	40		192	MLG2044	27	
119	MTE2052	35		155	MLG2007	49		193	MLG2045	35	
120	MTE2053	10		156	MLG2008	53		194	MLG2046	40	
121	MTE2054	0.40		157	MLG2009	58		195	MLG2047	0.80	
122	MTE2055	3.5		158	MLG2010	22		196	MLG2048	0.87	
123	MTE2056	37		159	MLG2011	43		197	MLG2049	0.12	
124	MTE2057	4		160	MLG2012	5		198	MLG2050	27	
125	MTE2058	16		161	MLG2013	17		199	MLG2051	57	
126	MTE2059	117		162	MLG2014	49		200	MLG2052	16	
127	MTE2060	24		163	MLG2015	38		201	MLG2053	25	
128	MTE2061	0.52		164	MLG2016	47		202	MLG2054	45	
129	MTE2062	0.62		165	MLG2017	77		203	MLG2055	18	
130	MTE2063	15		166	MLG2018	60		204	MLG2056	21	
131	MTE2064	43		167	MLG2019	2		205	MLG2057	9	
132	MLY2001	67		168	MLG2020	16		206	MLG2058	15	
133	MLY2002	0.50		169	MLG2021	42		207	MLG2059	4	
134	MLY2003	9		170	MLG2022	63		208	MLG2060	15	
135	MLY2004	8		171	MLG2023	12		209	MLG2061	0.50	
136	MLY2005	8		172	MLG2024	23		210	MLG2062	3	
137	MLY2006	21		173	MLG2025	47		211	MLG2063	17	
138	MLY2007	27		174	MLG2026	27		212	MLG2064	15	
139	MLY2008	20		175	MLG2027	45		213	MLG2065	4	
140	MLY2009	0.20		176	MLG2028	36		214	MLG2066	23	
141	MLY2010	40		177	MLG2029	48	0.2	215	MLG2067	87	
142	MLY2011	137		178	MLG2030	34		216	MLG2068	42	
143	MLY2012	0.33		180	MLG2032	56		218	MLG2070	45	
144	MLY2013	0.07		181	MLG2033	28		219	MLG2071	0.08	
145	MLY2014	0.30		182	MLG2034	36		220	MLG2072	3	
146	MLY2015	81		183	MLG2035	23		221	MLG2073	10	
147	MLY2016	26		184	MLG2036	32		222	MLG2074	53	
148	MLY2017	40		185	MLG2037	27		223	MLG2075	49	
149	MLG2001	33		186	MLG2038	0.08		224	MLG2076	0.20	
				187	MLG2039	0.04		225	MLG2077	0.35	

(3)

No.	Measured Point No.	Measured Value	Remarks	No.	Remarks	Measured Point No.	Measured Value	Remarks	No.	Remarks	Measured Point No.	Measured Value	Remarks
226	MLG2078	12		264		MLG2116	26						
227	MLG2079	0.07		265		MLG2117	24						
228	MLG2080	19		266		MLG2118	8						
229	MLG2081	8		267		MLG2119	52						
230	MLG2082	7		268		MLG2120	34						
231	MLG2083	37											
232	MLG2084	38											
233	MLG2085	45											
234	MLG2086	47											
235	MLG2087	41											
236	MLG2088	49											
237	MLG2089	42											
238	MLG2090	47											
239	MLG2091	24											
240	MLG2092	74											
241	MLG2093	35											
242	MLG2094	22											
243	MLG2095	22											
244	MLG2096	60											
245	MLG2097	52											
246	MLG2098	114											
247	MLG2099	55											
248	MLG2100	10											
249	MLG2101	0.80											
250	MLG2102	76											
251	MLG2103	0.20											
252	MLG2104	7											
253	MLG2105	28											
254	MLG2106	40											
255	MLG2107	43											
256	MLG2108	41											
257	MLG2109	93											
258	MLG2110	37											
259	MLG2111	35											
260	MLG2112	0.30											
261	MLG2113	88											
262	MLG2114	37											
263	MLG2115	30											

Table A-6

Results of geochemical analysis

(1)

Ser. No.	Sample No.	Location		Geol. Unit	Element Concentrations								Factor Scores	
		Coordinates			Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	As (ppm)	Hg (ppb)	I	II
		E	N											
1	A2501	689.25	9824.47	Qd	(0.01)	(0.1)	33	18	53	(1)	(1)	142	-0.206	-0.438
2	A2502	689.29	9824.57	Qd	(0.01)	(0.1)	35	19	50	(1)	(1)	106	0.010	-0.323
3	A2503	689.32	9824.68	Qd	(0.01)	(0.1)	49	19	42	(1)	(1)	84	0.269	-0.081
4	A2504	689.32	9824.77	Qd	(0.01)	(0.1)	34	21	120	(1)	2	79	0.099	0.900
5	A2505	689.30	9824.86	Qd	(0.01)	(0.1)	62	24	85	(1)	2	127	-0.317	1.078
6	A2506	689.29	9824.95	Qd	(0.01)	(0.1)	42	19	55	(1)	1	90	0.162	0.159
7	A2507	688.75	9824.58	Qd	(0.01)	(0.1)	38	9	89	(1)	1	111	0.589	0.159
8	A2508	688.67	9824.54	Qd	(0.01)	(0.1)	24	10	28	(1)	2	57	1.066	-0.918
9	A2509	688.61	9824.51	Qd	(0.01)	(0.1)	98	12	45	(1)	3	57	1.075	1.045
10	A2510	688.53	9824.46	Qd	(0.01)	(0.1)	55	19	57	(1)	4	67	0.434	0.882
11	A2511	688.43	9824.42	Qd	(0.01)	(0.1)	52	21	43	(1)	2	84	0.171	0.372
12	A2512	688.35	9824.43	Qd	(0.01)	(0.1)	43	23	29	(1)	2	139	-0.344	-0.289
13	A2513	688.28	9824.40	Qd	(0.01)	(0.1)	37	20	47	(1)	1	92	0.090	-0.094
14	A2514	688.21	9824.33	Qd	(0.01)	(0.1)	44	54	13	(1)	2	58	-0.284	-0.410
15	A2515	688.25	9824.25	Qd	0.06	(0.1)	74	3	11	(1)	(1)	32	2.849	-1.1259
16	A2516	688.32	9824.24	Qd	(0.01)	(0.1)	96	5	102	(1)	2	19	2.733	1.682
17	A2517	688.41	9824.24	Qd	0.08	(0.1)	185	19	62	(1)	3	47	0.912	2.179
18	A2518	688.49	9824.27	Qd	(0.01)	(0.1)	124	12	47	(1)	2	31	1.635	1.402
19	A2519	688.59	9824.25	Qd	(0.01)	(0.1)	107	21	33	(1)	3	66	0.494	1.010
20	A2520	688.68	9824.27	Qd	(0.01)	(0.1)	30	7	21	(1)	(1)	31	1.967	-1.240
21	A2521	688.78	9824.29	Qd	(0.01)	(0.1)	125	17	30	(1)	2	65	0.725	0.905
22	A2522	688.69	9824.68	Qd	(0.01)	(0.1)	58	22	54	(1)	2	102	-0.034	0.641
23	A2523	688.59	9824.69	Qd	(0.01)	(0.1)	44	13	29	(1)	2	81	0.621	-0.308
24	A2524	688.48	9824.70	Qd	(0.01)	(0.1)	52	19	70	(1)	2	115	-0.041	0.678
25	A2525	688.36	9824.66	Qd	(0.01)	(0.1)	48	18	53	(1)	1	107	0.082	0.183
26	A2526	688.26	9824.64	Qd	(0.01)	(0.1)	37	16	64	(1)	2	72	0.467	0.347
27	A2527	688.17	9824.56	Qd	(0.01)	(0.1)	34	16	41	(1)	2	89	0.300	-0.202
28	A2528	688.06	9824.66	Qd	(0.01)	(0.1)	30	18	27	(1)	3	115	-0.020	-0.637
29	A2529	688.14	9824.48	Qd	(0.01)	(0.1)	29	18	28	(1)	3	136	-0.171	-0.688
30	A2530	688.06	9824.37	Qd	(0.01)	(0.1)	31	17	26	(1)	2	116	0.035	-0.761
31	A2531	688.05	9824.29	Qd	(0.01)	(0.1)	35	20	29	(1)	2	144	-0.282	-0.552
32	A2532	688.07	9824.19	Qd	(0.01)	(0.1)	30	17	29	(1)	3	142	-0.156	-0.658
33	A2533	688.10	9824.10	Qd	(0.01)	(0.1)	39	18	30	(1)	3	115	0.011	-0.286
34	A2534	688.12	9824.04	Qd	(0.01)	(0.1)	23	20	24	(1)	5	783	-1.796	-1.428
35	A2535	688.13	9823.97	Qd	(0.01)	(0.1)	29	17	21	(1)	3	181	-0.349	-1.056
36	A2536	688.23	9824.02	Qd	(0.01)	(0.1)	44	23	42	(1)	3	194	-0.655	0.063
37	A2537	688.69	9824.81	Qd	(0.01)	(0.1)	48	18	56	(1)	1	99	0.146	0.257
38	A2538	688.60	9824.89	Qd	(0.01)	(0.1)	55	19	22	(1)	(1)	45	0.862	-0.359
39	A2539	688.52	9824.94	Qd	(0.01)	(0.1)	168	11	27	(1)	2	61	1.208	0.960
40	A2540	688.42	9824.95	Qd	(0.01)	(0.1)	34	13	38	(1)	1	77	0.619	-0.470
41	A2541	688.30	9824.92	Qd	(0.01)	(0.1)	36	17	55	(1)	5	89	0.225	0.364
42	A2542	688.44	9825.04	Qd	(0.01)	(0.1)	47	15	28	1	5	115	0.195	-0.108
43	A2543	688.46	9825.19	Qd	(0.01)	(0.1)	50	15	31	(1)	5	75	0.564	0.175
44	A2544	688.47	9825.32	Qd	(0.01)	(0.1)	166	5	84	(1)	5	55	1.900	1.938
45	A2545	688.46	9825.42	Qd	(0.01)	(0.1)	93	9	45	(1)	6	50	1.422	1.098
46	A2546	688.43	9825.49	Qd	(0.01)	(0.1)	85	14	61	(1)	8	32	1.384	1.652
47	A2547	688.85	9824.76	Qd	(0.01)	(0.1)	46	22	50	(1)	5	144	-0.371	0.463
48	A2548	688.88	9824.85	Qd	(0.01)	(0.1)	43	11	59	(1)	5	68	0.857	0.524
49	A2549	688.92	9824.93	Qd	(0.01)	(0.1)	43	15	44	(1)	4	69	0.595	0.314
50	B2501	689.30	9824.28	Qd	(0.01)	(0.1)	36	11	50	(1)	5	65	0.881	0.216
51	B2502	689.29	9824.36	Qd	(0.01)	(0.1)	45	24	40	(1)	5	123	-0.301	0.321
52	B2503	689.30	9824.45	Qd	(0.01)	(0.1)	40	19	58	(1)	5	75	0.287	0.607
53	B2504	689.35	9824.54	Qd	(0.01)	(0.1)	39	15	43	(1)	5	61	0.686	0.291
54	B2505	689.14	9823.94	Qd	(0.01)	(0.1)	49	26	41	(1)	6	134	-0.436	0.473
55	B2506	689.12	9824.03	Qd	(0.01)	(0.1)	45	11	44	(1)	6	82	0.719	0.292

Ser. No.	Sample No.	Location		Geol. Unit									Factor Scores	
		Coordinates			Au	Ag	Cu	Pb	Zn	Mo	As	Hg	I	II
		E	N		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)		
56	B2507	689.09	9824.13	Qd	<0.01	<0.1	63	21	45	1	5	143	-0.272	0.660
57	B2508	689.06	9824.22	Qd	<0.01	<0.1	38	14	32	1	6	116	0.206	-0.179
58	B2509	689.01	9824.30	Qd	<0.01	<0.1	37	26	33	1	5	142	-0.510	-0.058
59	B2510	688.95	9824.38	Qd	<0.01	<0.1	39	23	32	1	5	131	-0.325	-0.055
60	B2511	688.93	9824.47	Qd	<0.01	<0.1	54	19	47	1	5	95	0.141	0.638
61	B2512	688.86	9824.55	Qd	<0.01	<0.1	54	23	69	1	4	78	0.123	1.059
62	B2513	688.81	9824.62	Qd	<0.01	<0.1	57	15	41	1	4	81	0.503	0.476
63	B2514	688.74	9824.71	Qd	<0.01	<0.1	97	14	33	1	10	50	1.056	1.145
64	B2520	688.23	9824.86	Qd	<0.01	<0.1	46	12	18	1	4	31	1.542	-0.260
65	B2521	688.14	9824.83	Qd	<0.01	<0.1	49	20	68	1	5	92	0.087	0.904
66	B2522	688.08	9824.80	Qd	<0.01	<0.1	38	21	32	1	6	161	-0.429	-0.132
67	B2523	688.00	9824.75	Qd	<0.01	<0.1	79	19	22	1	4	112	0.104	0.221
68	B2524	687.96	9824.87	Qd	<0.01	<0.1	39	22	41	1	6	157	-0.459	0.141
69	B2525	688.08	9824.58	Qd	<0.01	<0.1	34	19	45	1	3	102	0.022	0.002
70	B2526	688.98	9823.66	Qd	<0.01	<0.1	36	21	44	1	4	61	0.382	0.301
71	B2527	688.92	9823.74	Qd	<0.01	<0.1	16	6	23	1	5	40	1.756	-1.344
72	B2528	688.88	9823.81	Qd	<0.01	<0.1	32	15	43	1	3	70	0.546	-0.069
73	B2529	688.83	9823.87	Qd	<0.01	<0.1	77	18	39	1	3	93	0.276	0.678
74	B2530	688.79	9823.94	Qd	<0.01	<0.1	52	38	53	1	4	123	-0.695	0.827
75	B2531	688.73	9824.00	Qd	<0.01	<0.1	23	13	46	1	4	50	0.903	-0.209
76	B2532	688.70	9824.06	Qd	<0.01	<0.1	25	21	26	1	3	82	0.112	-0.689
77	B2533	688.60	9824.07	Qd	<0.01	<0.1	42	25	26	1	3	217	-0.800	-0.418
78	B2534	688.53	9824.15	Qd	<0.01	<0.1	42	31	73	1	3	105	-0.429	0.812
79	B2535	688.49	9824.18	Qd	<0.01	<0.1	37	19	57	1	4	61	0.457	0.524
80	B2536	688.43	9824.16	Qd	<0.01	0.4	40	42	48	1	3	142	-0.934	0.405
81	B2537	688.40	9824.09	Qd	<0.01	<0.1	75	125	60	1	6	148	-1.852	1.771
82	B2538	688.37	9824.00	Qd	<0.01	<0.1	42	25	28	1	6	222	-0.834	-0.190
83	B2539	688.36	9823.88	Qd	<0.01	<0.1	43	24	33	1	5	191	-0.673	-0.032
84	B2540	688.46	9823.83	Qd	<0.01	<0.1	36	22	32	1	4	151	-0.417	-0.247
85	B2541	688.57	9823.82	Qd	<0.01	<0.1	39	20	45	1	5	80	0.199	0.353
86	B2542	688.65	9823.75	Qd	<0.01	<0.1	42	23	30	1	5	185	-0.606	-0.146
87	B2543	688.72	9823.68	Qd	<0.01	<0.1	45	25	33	1	5	183	-0.666	0.040
88	B2544	688.77	9823.55	Qd	<0.01	<0.1	40	22	32	1	4	135	-0.305	-0.110
89	C2501	689.11	9823.63	Qd	<0.01	<0.1	59	15	47	1	3	44	1.027	0.750
90	C2502	689.13	9823.78	Qd	<0.01	<0.1	46	24	39	1	4	121	-0.279	0.270
91	C2503	689.19	9823.87	Qd	<0.01	<0.1	37	17	51	1	4	73	0.407	0.329
92	C2504	689.27	9823.96	Qd	<0.01	<0.1	43	23	41	1	4	86	0.038	0.339
93	C2505	689.32	9824.07	Qd	<0.01	<0.1	58	21	74	1	5	64	0.375	1.274
94	C2506	689.35	9824.19	Qd	<0.01	<0.1	48	24	44	1	4	116	-0.244	0.433
95	C2507	689.36	9824.31	Qd	<0.01	<0.1	47	23	40	1	4	136	-0.341	0.262
96	C2508	689.38	9824.42	Qd	<0.01	<0.1	38	25	29	1	5	142	-0.464	-0.163
97	C2509	689.46	9824.54	Qd	<0.01	<0.1	39	16	47	1	5	72	0.482	0.343
98	C2510	689.57	9824.66	Qd	<0.01	<0.1	40	18	48	1	5	87	0.219	0.372
99	C2511	689.65	9824.80	Qd	<0.01	<0.1	44	19	64	1	4	236	-0.686	0.382
100	C2512	689.80	9824.85	Qd	<0.01	<0.1	38	11	59	1	5	94	0.562	0.305
101	C2513	689.86	9824.96	Qd	<0.01	<0.1	53	25	33	1	3	235	-0.850	-0.001
102	C2514	689.79	9825.12	Qd	<0.01	<0.1	54	23	35	1	3	185	-0.573	0.113
103	C2515	689.82	9825.29	Qd	<0.01	<0.1	48	12	23	1	4	160	0.124	-0.501
104	C2516	689.77	9825.45	Qd	<0.01	<0.1	40	19	32	1	2	158	-0.303	-0.380
105	C2517	689.73	9825.60	Qd	<0.01	<0.1	72	29	60	1	3	161	-0.647	1.005
106	C2518	689.63	9825.69	Qd	<0.01	<0.1	69	15	55	1	3	74	0.594	0.885
107	C2519	689.59	9825.78	Qd	0.38	<0.1	60	23	47	1	3	155	-0.424	0.535
108	C2520	689.40	9825.81	Qd	<0.01	<0.1	36	21	38	1	2	156	-0.406	-0.288
109	C2522	687.07	9824.64	Qd	<0.01	<0.1	62	26	65	1	3	158	-0.563	0.898
110	C2523	687.17	9824.68	Qd	<0.01	<0.1	24	20	37	1	2	84	0.111	-0.535

Ser. No.	Sample No.	Location		Geol. Unit									Factor Scores	
		Coordinates			Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	As (ppm)	Hg (ppb)	I	II
		B	N											
111	C2524	687.43	9824.54	Qd	(0.01	(0.1	50	30	61	(1	2	143	-0.624	0.615
112	C2525	687.53	9824.52	Qd	(0.01	(0.1	83	50	67	(1	4	140	-0.992	1.554
113	C2526	687.62	9824.50	Qd	(0.01	(0.1	48	23	121	(1	4	66	0.214	1.501
114	C2527	687.73	9824.44	Qd	(0.01	(0.1	56	26	53	(1	2	204	-0.779	0.438
115	C2528	687.86	9824.39	Qd	(0.01	(0.1	58	25	50	(1	3	226	-0.829	0.473
116	C2529	687.98	9824.38	Qd	(0.01	(0.1	36	24	44	(1	3	216	-0.816	-0.108
117	C2530	687.29	9824.56	Qd	(0.01	(0.1	57	32	61	(1	2	176	-0.839	0.702
118	C2531	687.17	9824.54	Qd	(0.01	(0.1	38	23	49	(1	3	104	-0.150	0.250
119	C2532	689.11	9824.34	Qd	(0.01	(0.1	46	23	40	(1	3	185	-0.604	0.077
120	C2533	689.08	9824.47	Qd	(0.01	(0.1	35	21	30	(1	3	194	-0.588	-0.496
121	C2534	689.06	9824.56	Qd	(0.01	(0.1	47	22	36	(1	2	196	-0.600	-0.130
122	C2535	689.05	9824.65	Qd	(0.01	(0.1	50	26	42	(1	3	238	-0.918	0.169
123	C2536	689.02	9824.72	Qd	(0.01	(0.1	40	24	31	(1	3	258	-0.931	-0.375
124	C2537	689.01	9824.82	Qd	(0.01	(0.1	38	26	27	(1	4	295	-1.119	-0.492
125	C2538	688.99	9824.90	Qd	(0.01	(0.1	48	23	26	(1	4	219	-0.720	-0.251
126	C2539	688.97	9824.99	Qd	(0.01	(0.1	45	25	33	(1	3	239	-0.888	-0.166
127	C2540	688.94	9825.07	Qd	(0.01	(0.1	51	26	40	(1	4	260	-0.992	0.188
128	C2541	688.92	9825.16	Qd	(0.01	(0.1	38	23	30	(1	3	224	-0.778	-0.427
129	C2542	688.87	9825.25	Qd	(0.01	(0.1	38	17	49	(1	3	110	0.065	0.123
130	C2543	688.78	9825.30	Qd	(0.01	(0.1	35	16	43	(1	3	152	-0.163	-0.196
131	C2544	688.66	9825.27	Qd	(0.01	(0.1	24	21	21	(1	4	319	-1.051	-1.267
132	C2545	688.63	9825.35	Qd	(0.01	(0.1	29	23	22	(1	2	242	-0.859	-1.092
133	C2546	688.66	9825.44	Qd	(0.01	(0.1	31	18	28	(1	4	152	-0.261	-0.588
134	C2547	688.61	9825.52	Qd	(0.01	(0.1	46	19	34	(1	4	192	-0.463	-0.080
135	C2548	688.55	9825.59	Qd	(0.01	(0.1	44	17	61	(1	3	117	0.20	0.444
136	C2549	688.45	9825.61	Qd	(0.01	(0.1	45	22	38	(1	4	207	-0.666	0.029
137	C2550	688.40	9825.70	Qd	(0.01	(0.1	40	20	30	(1	5	199	-0.554	-0.267
138	D2501	689.42	9825.35	Qd	(0.01	(0.1	60	22	61	(1	3	197	-0.607	0.680
139	D2502	689.34	9825.34	Qd	(0.01	(0.1	43	16	50	(1	4	108	0.147	0.315
140	D2503	689.27	9825.39	Qd	(0.01	(0.1	35	18	32	(1	3	137	-0.159	-0.387
141	D2504	689.18	9825.41	Qd	(0.01	(0.1	53	18	31	(1	4	184	-0.081	0.066
142	D2505	689.10	9825.46	Qd	(0.01	(0.1	42	20	26	(1	3	202	-0.544	-0.477
143	D2506	689.02	9825.51	Qd	(0.01	(0.1	37	14	59	(1	4	84	0.447	0.346
144	D2507	688.91	9825.56	Qd	(0.01	(0.1	35	19	27	(1	4	208	-0.557	-0.579
145	D2508	688.81	9825.62	Qd	(0.01	(0.1	36	16	16	(1	1	113	0.171	-1.235
146	D2509	688.73	9825.72	Qd	(0.01	(0.1	48	39	49	(1	2	172	-1.003	0.417
147	D2510	688.68	9825.76	Qd	(0.01	(0.1	66	14	39	(1	2	116	0.288	0.270
148	D2511	688.62	9825.82	Qd	(0.01	(0.1	54	19	75	(1	4	146	-0.254	0.872
149	D2512	688.55	9825.88	Qd	(0.01	(0.1	37	14	21	(1	2	82	0.540	-0.745
150	D2513	688.51	9825.96	Qd	(0.01	(0.1	56	10	24	(1	4	49	1.318	-0.016
151	D2514	687.31	9824.75	Qd	(0.01	(0.1	68	10	22	1	2	51	1.327	-0.086
152	D2515	687.44	9824.72	Qd	(0.01	(0.1	49	12	31	(1	2	73	0.791	-0.141
153	D2516	687.56	9824.73	Qd	(0.01	(0.1	50	1	30	(1	3	18	4.159	-0.525
154	D2517	687.65	9824.73	Qd	(0.01	(0.1	39	19	34	(1	2	72	0.364	-0.109
155	D2518	687.71	9824.82	Qd	(0.01	(0.1	27	1	21	(1	2	88	2.735	-2.032
156	D2519	687.77	9824.87	Qd	(0.01	(0.1	20	22	20	2	2	137	-0.380	-1.381
157	D2521	687.87	9824.87	Qd	(0.01	(0.1	22	11	30	(1	3	61	0.902	-0.829
158	D2522	687.92	9824.93	Qd	(0.01	(0.1	72	23	60	(1	2	86	0.098	1.015
159	D2523	687.56	9824.93	Qd	(0.01	(0.1	31	17	18	(1	1	61	0.618	-1.063
160	D2524	687.57	9825.01	Qd	(0.01	(0.1	39	5	36	(1	2	29	2.304	-0.263
161	D2525	687.52	9825.10	Qd	(0.01	(0.1	30	12	25	(1	2	54	0.992	-0.720
162	D2526	687.65	9825.21	Qd	(0.01	(0.1	37	24	34	(1	2	128	-0.341	-0.252
163	D2527	687.69	9825.30	Qd	(0.01	(0.1	33	16	20	1	2	104	0.207	-0.924
164	D2528	687.67	9825.40	Qd	(0.01	(0.1	25	22	25	(1	2	176	-0.577	-1.040
165	D2529	687.66	9825.47	Qd	(0.01	(0.1	28	24	55	(1	2	120	-0.356	-0.071

Ser. No.	Sample No.	Location		Geol. Unit	Element Concentrations								Factor Scores	
		Coordinates			Au	Ag	Cu	Pb	Zn	Mo	As	Hg	I	II
		E	N		(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)		
166	D2530	687.75	9825.49	Qd	(0.01)	(0.1)	26	21	39	(1)	3	110	-0.160	-0.376
167	D2531	687.68	9825.54	Qd	(0.01)	(0.1)	56	19	93	(1)	3	127	-0.139	1.074
168	D2532	687.72	9825.61	Qd	(0.01)	(0.1)	47	21	78	(1)	4	94	0.014	0.944
169	D2533	687.77	9825.67	Qd	(0.01)	(0.1)	56	55	77	(1)	3	131	-1.080	1.281
170	D2534	687.81	9825.72	Qd	(0.01)	(0.1)	29	14	58	(1)	2	93	0.334	-0.107
171	E2501	688.90	9824.24	Qd	(0.01)	(0.1)	41	23	33	(1)	3	203	-0.689	-0.237
172	E2505	688.70	9824.75	Qd	(0.01)	(0.1)	33	21	23	(1)	3	176	-0.496	-0.763
173	E2506	688.59	9824.79	Qd	(0.01)	(0.1)	24	18	15	(1)	1	139	-0.164	-1.709
174	E2507	688.48	9824.85	Qd	(0.01)	(0.1)	27	24	19	(1)	2	266	-0.979	-1.307
175	E2508	688.39	9824.80	Qd	(0.01)	(0.1)	33	23	26	(1)	3	162	-0.512	-0.594
176	E2509	688.30	9824.76	Qd	(0.01)	(0.1)	67	25	57	(1)	3	253	-0.913	0.696
177	E2510	688.17	9824.70	Qd	(0.01)	(0.1)	42	23	45	(1)	5	222	-0.788	0.163
178	E2513	688.14	9824.40	Qd	(0.01)	(0.1)	15	2	13	(1)	2	63	2.362	-2.683
179	E2514	688.17	9824.27	Qd	(0.01)	(0.1)	124	49	23	(1)	2	176	-1.038	0.737
180	E2515	688.24	9824.14	Qd	(0.01)	(0.1)	42	31	61	(1)	3	134	-0.627	0.575
181	E2517	687.01	9824.14	Qd	(0.01)	(0.1)	45	24	38	(1)	2	128	-0.320	0.039
182	E2518	687.23	9824.11	Qd	(0.01)	(0.1)	63	20	50	(1)	3	63	0.474	0.864
183	E2519	687.38	9824.12	Qd	(0.01)	(0.1)	65	88	72	(1)	2	108	-1.293	1.497
184	E2520	687.46	9824.14	Qd	(0.01)	(0.1)	25	25	27	(1)	2	123	-0.385	-0.814
185	E2521	687.56	9824.12	Qd	(0.01)	(0.1)	51	34	40	(1)	1	271	-1.244	-0.065
186	E2522	687.66	9824.11	Qd	(0.01)	(0.1)	17	14	14	(1)	1	110	0.210	-2.126
187	E2523	687.74	9824.10	Qd	(0.01)	(0.1)	24	20	20	(1)	(1)	150	-0.330	-1.604
188	E2524	687.85	9824.10	Qd	(0.01)	(0.1)	48	23	37	(1)	(1)	188	-0.584	-0.393
189	E2525	687.98	9824.11	Qd	(0.01)	(0.1)	48	26	33	(1)	1	273	-1.013	-0.397
190	E2526	687.92	9824.03	Qd	(0.01)	(0.1)	32	23	27	(1)	2	262	-0.926	-0.836
191	E2527	687.88	9823.94	Qd	(0.01)	(0.1)	29	20	26	(1)	(1)	147	-0.302	-1.177
192	E2528	687.82	9823.84	Qd	(0.01)	(0.1)	15	9	7	(1)	1	51	1.280	-2.797
193	E2529	687.78	9823.71	Qd	(0.01)	(0.1)	42	18	47	(1)	3	133	-0.130	0.146
194	E2531	687.98	9824.79	Qd	(0.01)	(0.1)	43	23	47	(1)	1	243	-0.844	-0.195
195	E2532	687.96	9824.84	Qd	(0.01)	(0.1)	36	22	46	(1)	1	228	-0.775	-0.384
196	E2534	687.97	9824.95	Qd	(0.01)	(0.1)	39	18	41	(1)	(1)	213	-0.514	-0.630
197	E2535	687.98	9825.01	Qd	(0.01)	(0.1)	27	22	29	(1)	(1)	168	-0.517	-1.155
198	E2536	687.99	9825.08	Qd	(0.01)	(0.1)	37	22	53	(1)	2	235	-0.815	-0.070
199	E2537	688.00	9825.15	Qd	(0.01)	(0.1)	105	23	57	(1)	(1)	109	-0.029	0.926
200	E2538	688.02	9825.21	Qd	(0.01)	(0.1)	51	18	39	(1)	1	205	-0.448	-0.233
201	E2539	688.04	9825.29	Qd	(0.01)	(0.1)	31	19	25	(1)	1	208	-0.552	-1.104
202	E2540	688.04	9825.40	Qd	(0.01)	(0.1)	38	20	29	(1)	(1)	204	-0.551	-0.916
203	E2541	688.06	9825.51	Qd	(0.01)	(0.1)	37	16	23	(1)	3	217	-0.422	-0.814
204	E2542	688.09	9825.61	Qd	(0.01)	(0.1)	30	20	24	(1)	1	225	-0.666	-1.178
205	E2543	688.09	9825.71	Qd	(0.01)	(0.1)	31	20	49	(1)	1	139	-0.292	-0.356

Table A-7 Lists of measured value of borehole IP survey and IP survey

NAME: EL TORNEADO, BALZAPAMBA AREA
 LINE: E0 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2
 BRNG: N 0 E RS: 575.0m DEPTH: 290.0m
 $Rho_a = K1 * V / I$ $Rho_b = Rho_a / K2$ $Rho_{tc} = Rho_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.20	500.00	591.9	4.2	.237	1.17	506.	.84	602.
3- 5	.20	151.00	908.2	5.9	1.203	1.49	610.	1.26	484.
5- 7	1.00	346.00	992.5	8.0	2.868	1.56	636.	1.13	563.
7- 9	1.00	273.00	1445.7	7.5	5.296	1.60	904.	1.12	807.
9- 11	1.00	116.00	992.2	5.1	8.554	1.61	616.	.80	770.
11- 13	1.00	158.00	2009.3	7.3	12.720	1.59	1264.	1.20	1053.
13- 15	1.00	30.90	551.9	8.1	17.860	1.57	352.	.77	456.
15- 17	1.00	24.40	587.2	8.3	24.060	1.55	379.	.66	574.
17- 19	1.00	23.20	728.6	8.3	31.410	1.53	476.	.77	618.
19- 21	1.00	38.70	1546.7	8.2	39.970	1.52	1018.	1.36	748.
21- 23	1.00	30.00	1494.7	6.8	49.820	1.51	990.	1.44	687.

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.20	503.00	593.8	4.4	.236	1.16	512.	.84	609.
3- 5	.20	138.00	827.5	6.3	1.199	1.46	567.	1.23	461.
5- 7	.50	147.00	851.5	7.4	2.896	1.46	583.	1.10	530.
7- 9	.50	97.30	1065.5	7.2	5.475	1.42	750.	1.09	688.
9- 11	.50	37.60	684.7	5.3	9.105	1.33	515.	.80	644.
11- 13	.50	47.90	1334.7	7.3	13.930	1.21	1103.	1.26	875.
13- 15	.50	8.70	349.2	7.2	20.070	1.09	320.	.84	381.
15- 17	.50	6.58	363.0	7.8	27.580	.96	378.	.78	485.
17- 19	.50	5.96	435.3	8.5	36.520	.86	506.	.97	522.
19- 21	.50	9.33	874.8	8.5	46.880	.76	1151.	1.83	629.
21- 23	.50	6.85	803.8	7.5	58.670	.68	1182.	2.00	591.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.70	23.80	2868.5	13.9	84.370	0.22	13039.	16.91	771.
3- 5	.70	31.20	17967.6	10.5	403.100	13.27	1354.	2.78	487.
5- 7	.70	38.30	16306.4	9.9	298.000	9.13	1786.	1.62	1102.
7- 9	.65	50.50	12526.7	7.7	161.200	6.24	2008.	1.29	1556.
9- 11	.65	25.50	5547.1	5.5	141.400	5.56	998.	.79	1263.
11- 13	.65	39.00	8746.2	7.6	145.800	5.33	1641.	1.07	1534.
13- 15	.65	8.73	2180.7	7.6	162.400	5.28	413.	.65	635.
15- 17	.65	7.11	2062.8	8.0	188.600	5.35	386.	.52	742.
17- 19	.65	7.18	2479.0	8.4	224.400	5.51	450.	.58	776.
19- 21	.65	12.90	5379.1	8.5	271.000	5.73	939.	1.02	920.
21- 23	.65	10.70	5440.4	7.7	330.500	6.04	901.	1.09	826.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E30 A_SP: 50.m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: N 30 E RS: 575.0m DEPTH: 290.0m

Rho_a=K1*I/V/1

Rho_b=Rho_a/K2

Rho_tc=Rho_b/Ktc

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	2610.00	617.9	3.7	237	1.17	528.	.86	614.
3- 5	1.00	764.00	919.0	6.2	1.203	1.49	617.	1.44	428.
5- 7	1.00	493.00	1414.1	6.9	2.868	1.56	907.	1.47	617.
7- 9	1.00	260.00	1376.8	8.0	5.296	1.60	861.	1.23	700.
9- 11	1.00	233.00	1993.0	7.6	8.554	1.61	1238.	1.44	860.
11- 13	1.00	75.90	965.2	7.7	12.720	1.59	607.	.75	809.
13- 15	1.00	83.20	1486.1	6.7	17.860	1.57	947.	1.14	830.
15- 17	1.00	47.00	1131.0	5.9	24.060	1.55	730.	1.08	676.
17- 19	1.00	72.00	2261.3	6.8	31.410	1.53	1478.	1.49	992.
19- 21	1.00	67.10	2681.8	7.3	39.970	1.52	1764.	1.92	919.
21- 23	1.00	34.70	1728.9	5.6	49.820	1.51	1145.	1.80	636.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.50	1290.00	609.1	4.0	236	1.16	525.	.86	611.
3- 5	.50	370.00	887.5	6.0	1.199	1.46	608.	1.44	422.
5- 7	.50	224.00	1297.5	6.5	2.896	1.46	889.	1.47	605.
7- 9	.50	106.00	1160.8	8.1	5.475	1.42	817.	1.22	670.
9- 11	.50	82.20	1496.8	7.1	9.105	1.33	1125.	1.42	793.
11- 13	.50	24.00	668.8	8.1	13.930	1.21	553.	.75	737.
13- 15	.50	25.10	1007.5	6.9	20.070	1.09	924.	1.19	777.
15- 17	.50	13.40	739.3	6.0	27.580	.96	770.	1.17	658.
17- 19	.50	19.50	1424.2	6.4	36.520	.86	1656.	1.61	1029.
19- 21	.50	17.00	1593.9	6.9	46.880	.76	2097.	2.03	1033.
21- 23	.50	7.40	868.3	4.4	58.670	.68	1277.	1.82	702.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.65	12.00	1557.6	19.7	84.370	0.22	7080.	6.24	1135.
3- 5	.65	12.80	7938.4	15.7	403.100	13.27	598.	1.46	410.
5- 7	.65	29.60	13571.7	10.7	298.000	9.13	1487.	1.52	978.
7- 9	.65	30.60	7590.4	9.7	161.200	6.24	1216.	1.28	950.
9- 11	.65	43.40	9441.0	8.6	141.400	5.56	1698.	1.51	1125.
11- 13	.65	18.30	4104.0	9.8	145.800	5.33	770.	.74	1041.
13- 15	.65	21.20	5295.5	7.3	162.400	5.28	1003.	1.06	946.
15- 17	.65	12.90	3742.7	6.8	188.600	5.35	700.	.99	707.
17- 19	.65	21.70	7492.2	8.3	224.400	5.51	1360.	1.39	978.
19- 21	.65	21.80	9090.2	8.6	271.000	5.73	1586.	1.83	867.
21- 23	.65	12.80	6508.2	6.7	330.500	6.04	1078.	1.78	605.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E60 A_SP: 50.m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: N 60 E RS: 575.0m DEPTH: 290.0m

Rho_a=K1*V/I

Rho_b=Rho_a/K2

Rho_tc=Rho_b/Ktc

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	2870.00	679.5	3.7	.237	1.17	581.	1.07	543.
3- 5	1.00	892.00	1073.0	6.2	1.203	1.49	720.	1.32	546.
5- 7	1.00	492.00	1411.3	7.4	2.868	1.56	905.	1.50	603.
7- 9	1.00	230.00	1218.0	6.9	5.296	1.60	761.	1.42	536.
9- 11	1.00	271.00	2318.1	8.2	8.554	1.61	1440.	1.00	1440.
11- 13	1.00	80.50	1023.7	7.2	12.720	1.59	644.	.77	836.
13- 15	1.00	94.00	1679.0	6.4	17.860	1.57	1069.	1.27	842.
15- 17	1.00	76.50	1841.0	5.5	24.060	1.55	1188.	1.15	1033.
17- 19	1.00	51.10	1604.9	5.4	31.410	1.53	1049.	1.37	766.
19- 21	1.00	19.30	771.4	5.5	39.970	1.52	508.	.88	577.
21- 23	1.00	25.90	1290.5	5.5	49.820	1.51	855.	1.10	777.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.50	1430.00	675.2	3.8	.236	1.16	582.	1.08	539.
3- 5	.50	439.00	1053.0	6.4	1.199	1.46	721.	1.34	538.
5- 7	.50	228.00	1320.7	7.0	2.896	1.46	905.	1.54	587.
7- 9	.50	91.50	1002.0	6.5	5.475	1.42	706.	1.37	515.
9- 11	.50	88.20	1606.0	7.8	9.105	1.33	1208.	.87	1388.
11- 13	.50	25.90	721.7	6.7	13.930	1.21	596.	.66	904.
13- 15	.50	27.40	1099.8	5.9	20.070	1.09	1009.	1.03	960.
15- 17	.50	20.50	1131.0	5.4	27.580	.96	1178.	.85	1386.
17- 19	.50	11.40	832.6	5.1	36.520	.86	968.	.90	1076.
19- 21	.50	3.05	286.0	5.5	46.880	.76	376.	.53	710.
21- 23	.50	4.87	571.4	5.1	58.670	.68	840.	.63	1334.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.70	4.93	594.2	28.0	84.370	0.22	2701.	6.24	433.
3- 5	.65	4.01	2486.9	42.0	403.100	13.27	187.	.07	2677.
5- 7	.65	20.90	9582.7	12.0	298.000	9.13	1050.	1.02	1029.
7- 9	.65	29.30	7268.0	8.5	161.200	6.24	1165.	1.73	673.
9- 11	.65	59.10	12856.3	9.8	141.400	5.56	2312.	1.44	1606.
11- 13	.65	18.50	4148.8	8.8	145.800	5.33	778.	1.00	778.
13- 15	.65	25.10	6269.7	7.8	162.400	5.28	1187.	1.63	728.
15- 17	.65	22.80	6614.9	6.0	188.600	5.35	1236.	1.50	824.
17- 19	.65	18.20	6283.8	5.7	224.400	5.51	1140.	1.79	637.
19- 21	.65	8.48	3536.0	5.4	271.000	5.73	617.	1.14	541.
21- 23	.65	10.50	5338.8	6.0	330.500	6.04	884.	1.38	641.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E90 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: N 90 E RS: 575.0m DEPTH: 290.0m

$$\text{Rho}_a = K1 * V / I$$

$$\text{Rho}_b = \text{Rho}_a / K2$$

$$\text{Rho}_{tc} = \text{Rho}_b / Ktc$$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	3110.00	736.3	3.6	.237	1.17	629.	1.09	577.
3- 5	1.00	835.00	1004.4	6.8	1.203	1.49	674.	1.21	557.
5- 7	1.00	368.00	1055.6	7.6	2.868	1.56	677.	1.33	509.
7- 9	1.00	322.00	1705.2	8.5	5.296	1.60	1066.	1.08	987.
9- 11	1.00	212.00	1813.4	7.5	8.554	1.61	1126.	1.10	1024.
11- 13	1.00	128.00	1627.8	6.6	12.720	1.59	1024.	1.04	984.
13- 15	1.00	65.90	1177.1	5.2	17.860	1.57	750.	.96	781.
15- 17	1.00	62.80	1511.3	5.7	24.060	1.55	975.	1.03	947.
17- 19	1.00	28.90	907.7	6.3	31.410	1.53	593.	.90	659.
19- 21	1.00	17.10	683.4	6.6	39.970	1.52	450.	.67	671.
21- 23	1.00	18.60	926.7	7.4	49.820	1.51	614.	.67	916.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.50	1570.00	741.3	3.8	.236	1.16	639.	1.11	576.
3- 5	.50	415.00	995.4	6.9	1.199	1.46	682.	1.26	541.
5- 7	.50	172.00	996.3	7.1	2.896	1.46	682.	1.39	491.
7- 9	.50	121.00	1325.0	6.9	5.475	1.42	933.	.98	952.
9- 11	.50	61.90	1127.1	6.8	9.105	1.33	848.	.78	1087.
11- 13	.50	27.90	777.4	6.2	13.930	1.21	643.	.50	1285.
13- 15	.50	11.00	441.5	5.9	20.070	1.09	405.	.29	1397.
15- 17	.50	9.15	504.8	6.5	27.580	.96	526.	.16	3286.
17- 19	.50	3.59	262.2	7.5	36.520	.86	305.	.04	7623.
19- 21	.50	1.73	162.2	9.3	46.880	.76	213.	.02	10670.
21- 23	.50	2.00	234.7	9.2	58.670	.68	345.	.05	6902.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.60	16.70	2348.2	3.6	84.370	0.22	10674.	22.31	478.
3- 5	.60	1.59	1068.3	.0	403.100	13.27	81.	1.61	50.
5- 7	.60	13.10	6506.9	18.8	298.000	9.13	713.	.63	1131.
7- 9	.60	46.00	12361.3	11.7	161.200	6.24	1981.	1.67	1186.
9- 11	.60	52.40	12348.8	8.8	141.400	5.56	2221.	2.21	1005.
11- 13	.60	42.60	10349.7	6.5	145.800	5.33	1942.	2.22	875.
13- 15	.60	26.70	7225.1	5.3	162.400	5.28	1368.	2.01	681.
15- 17	.60	27.00	8486.3	5.5	188.600	5.35	1586.	2.04	778.
17- 19	.60	13.30	4974.7	6.0	224.400	5.51	903.	1.69	534.
19- 21	.60	8.10	3659.0	6.0	271.000	5.73	639.	1.18	541.
21- 23	.60	8.68	4781.1	6.9	330.500	6.04	792.	1.10	720.

NAME: EL TORNEADO, BALZAPAMBA AREA
 LINE: E120 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2
 BRNG: S 60 E RS: 575.0m DEPTH: 290.0m
 $\text{Rho}_a = K1 * V / I$ $\text{Rho}_b = \text{Rho}_a / K2$ $\text{Rho}_{tc} = \text{Rho}_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	2910.00	689.0	3.9	.237	1.17	589.	.97	607.
3- 5	1.00	835.00	1004.4	6.7	1.203	1.49	674.	1.10	613.
5- 7	1.00	435.00	1247.8	7.5	2.868	1.56	800.	1.10	727.
7- 9	1.00	272.00	1440.4	7.5	5.296	1.60	900.	1.07	841.
9- 11	1.00	271.00	2318.1	7.6	8.554	1.61	1440.	1.00	1440.
11- 13	1.00	99.20	1261.5	5.8	12.720	1.59	793.	1.12	708.
13- 15	1.00	54.80	978.8	5.6	17.860	1.57	623.	.89	700.
15- 17	1.00	54.10	1301.9	6.6	24.060	1.55	840.	.85	988.
17- 19	1.00	26.80	841.7	7.0	31.410	1.53	550.	.59	932.
19- 21	1.00	19.30	771.4	7.6	39.970	1.52	508.	.58	875.
21- 23	1.00	10.90	543.1	7.4	49.820	1.51	360.	.60	600.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.50	1470.00	694.1	4.1	.236	1.16	598.	.99	604.
3- 5	.75	626.00	1001.0	6.2	1.199	1.46	686.	1.17	586.
5- 7	.75	310.00	1197.1	6.7	2.896	1.46	820.	1.16	707.
7- 9	.75	155.00	1131.6	6.5	5.475	1.42	797.	.95	839.
9- 11	.75	108.00	1311.1	6.6	9.105	1.33	986.	.59	1671.
11- 13	.75	23.80	442.1	6.8	13.930	1.21	365.	.27	1353.
13- 15	.75	5.48	146.6	9.9	20.070	1.09	135.	.03	4483.
15- 17	.75	4.21	154.8	15.7	27.580	.96	161.	.18	896.
17- 19	.75	.17	8.7	.0	36.520	.86	10.	.19	53.
19- 21	.75	.00	.0	.0	46.880	.76	0.	.23	0.
21- 23	.75	.16	12.6	.0	58.670	.68	19.	.28	66.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	24.30	2733.5	1.4	84.370	0.22	12425.	30.33	410.
3- 5	.75	4.77	2563.8	-20.0	403.100	13.27	193.	2.34	83.
5- 7	.75	14.50	5761.9	38.0	298.000	9.13	631.	.28	2254.
7- 9	.75	49.60	10663.0	11.8	161.200	6.24	1709.	1.80	949.
9- 11	.75	95.90	18080.1	8.4	141.400	5.56	3252.	2.42	1344.
11- 13	.75	50.70	9854.1	5.5	145.800	5.33	1849.	2.99	618.
13- 15	.75	35.80	7750.1	5.1	162.400	5.28	1468.	2.33	630.
15- 17	.75	36.10	9077.2	5.7	188.600	5.35	1697.	2.05	828.
17- 19	.75	19.70	5894.8	5.9	224.400	5.51	1070.	1.30	823.
19- 21	.75	14.40	5204.0	6.8	271.000	5.73	908.	1.16	783.
21- 23	.75	8.15	3591.4	6.2	330.500	6.04	595.	1.13	526.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E150 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: S 30 E RS: 575.0m DEPTH: 290.0m

Rho_a=K1*V/I Rho_b=Rho_a/K2 Rho_tc=Rho_b/Ktc

*** R-S ELECTRODE CONFIGURTION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.50	4870.00	768.7	5.4	.237	1.17	657.	.87	755.
3- 5	1.50	1130.00	906.2	6.8	1.203	1.49	608.	1.01	602.
5- 7	1.50	661.00	1264.0	8.2	2.868	1.56	810.	.94	862.
7- 9	1.50	436.00	1539.2	7.2	5.296	1.60	962.	.94	1023.
9- 11	1.50	250.00	1425.6	7.2	8.554	1.61	886.	.82	1080.
11- 13	1.50	177.00	1500.6	7.2	12.720	1.59	944.	.96	983.
13- 15	1.50	81.10	965.7	6.6	17.860	1.57	615.	.89	691.
15- 17	1.50	98.40	1578.7	6.7	24.060	1.55	1019.	.84	1213.
17- 19	1.50	39.50	827.0	6.6	31.410	1.53	541.	.65	832.
19- 21	1.50	25.10	668.8	6.9	39.970	1.52	440.	.59	746.
21- 23	1.50	18.70	621.1	6.3	49.820	1.51	411.	.59	697.

*** D-S ELECTRODE CONFIGURTION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	2490.00	783.8	4.5	.236	1.16	676.	.90	751.
3- 5	.75	590.00	943.5	6.6	1.199	1.46	646.	1.08	598.
5- 7	.75	330.00	1274.4	7.4	2.896	1.46	873.	.99	882.
7- 9	.75	163.00	1190.0	6.4	5.475	1.42	838.	.77	1088.
9- 11	.75	49.70	603.3	6.3	9.105	1.33	454.	.38	1194.
11- 13	.75	12.20	226.6	9.7	13.930	1.21	187.	.11	1703.
13- 15	.75	3.14	84.0	.0	20.070	1.09	77.	.19	406.
15- 17	.75	10.00	367.8	1.4	27.580	.96	383.	.38	1008.
17- 19	.75	4.31	209.9	1.4	36.520	.86	244.	.39	626.
19- 21	.75	2.48	155.0	1.4	46.880	.76	204.	.42	486.
21- 23	.75	2.15	168.2	1.3	58.670	.68	247.	.48	515.

*** D-R ELECTRODE CONFIGURTION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	36.40	4094.7	5.2	84.370	0.22	18612.	39.95	466.
3- 5	.75	26.80	14404.8	-2.0	403.100	13.27	1086.	2.97	365.
5- 7	.75	1.32	524.5	40.0	298.000	9.13	58.	.32	180.
7- 9	.75	55.30	11888.4	12.0	161.200	6.24	1905.	1.95	977.
9- 11	.75	74.60	14064.4	7.9	141.400	5.56	2530.	2.32	1090.
11- 13	.75	75.70	14713.1	6.4	145.800	5.33	2760.	2.85	969.
13- 15	.75	43.60	9438.7	5.8	162.400	5.28	1788.	2.58	693.
15- 17	.75	59.60	14986.1	6.0	188.600	5.35	2801.	2.27	1234.
17- 19	.75	24.10	7211.4	5.9	224.400	5.51	1309.	1.60	818.
19- 21	.75	15.00	5420.8	6.0	271.000	5.73	946.	1.33	711.
21- 23	.75	11.40	5023.5	6.5	330.500	6.04	832.	1.23	676.

NAME: EL TORNEADO, BALZAPAMBA AREA
 LINE: E180 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2
 BRNG: S 0 E RS: 575.0m DEPTH: 290.0m
 $\text{Rho}_a = K1 * V / I$ $\text{Rho}_b = \text{Rho}_a / K2$ $\text{Rho}_{tc} = \text{Rho}_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	3130.00	741.1	4.5	.237	1.17	633.	.85	745.
3- 5	1.00	732.00	880.5	6.6	1.203	1.49	591.	1.04	568.
5- 7	1.00	307.00	880.6	7.5	2.868	1.56	565.	1.02	553.
7- 9	1.00	338.00	1789.9	7.6	5.296	1.60	1119.	1.01	1108.
9- 11	1.00	100.00	855.4	7.5	8.554	1.61	531.	.74	718.
11- 13	1.00	49.80	633.3	7.3	12.720	1.59	398.	.70	569.
13- 15	1.00	54.00	964.5	7.3	17.860	1.57	614.	.65	945.
15- 17	1.00	84.30	2028.7	7.7	24.060	1.55	1309.	1.04	1258.
17- 19	1.00	27.80	873.1	6.9	31.410	1.53	571.	.84	679.
19- 21	1.00	30.90	1235.0	5.9	39.970	1.52	813.	.95	855.
21- 23	1.00	18.90	941.7	6.2	49.820	1.51	624.	.83	751.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	2390.00	752.4	4.6	.236	1.16	649.	.87	746.
3- 5	.75	589.00	941.9	6.2	1.199	1.46	645.	1.11	581.
5- 7	.75	250.00	965.4	6.8	2.896	1.46	661.	1.07	618.
7- 9	.75	205.00	1496.6	7.2	5.475	1.42	1054.	.83	1270.
9- 11	.75	24.50	297.4	4.4	9.105	1.33	224.	.40	559.
11- 13	.75	3.33	61.9	.5	13.930	1.21	51.	.24	213.
13- 15	.75	1.74	46.6	16.0	20.070	1.09	43.	.13	328.
15- 17	.75	13.70	503.9	7.8	27.580	.96	525.	.03	17497.
17- 19	.75	6.75	328.7	4.2	36.520	.86	382.	.15	2548.
19- 21	.75	8.01	500.7	4.3	46.880	.76	659.	.31	2125.
21- 23	.75	5.13	401.3	4.9	58.670	.68	590.	.39	1513.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	55.80	6277.0	5.9	84.370	0.22	28532.	33.82	844.
3- 5	.75	45.50	24456.0	1.4	403.100	13.27	1843.	2.51	734.
5- 7	.75	19.40	7709.0	-1.8	298.000	9.13	844.	.50	1689.
7- 9	.75	45.50	9781.6	8.1	161.200	6.24	1568.	2.10	746.
9- 11	.75	49.50	9332.3	6.0	141.400	5.56	1679.	1.91	879.
11- 13	.75	33.70	6549.9	5.5	145.800	5.33	1229.	1.72	714.
13- 15	.75	41.40	8962.4	6.3	162.400	5.28	1697.	1.46	1163.
15- 17	.75	76.40	19210.4	8.6	188.600	5.35	3591.	2.20	1632.
17- 19	.75	27.40	8198.8	7.0	224.400	5.51	1488.	1.74	855.
19- 21	.75	31.10	11239.1	6.4	271.000	5.73	1961.	1.87	1049.
21- 23	.75	19.10	8416.6	6.0	330.500	6.04	1394.	1.56	893.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E210 A_SP: 50.m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: S 30 W RS: 575.0m DEPTH: 290.0m

$$\text{Rho}_a = K1 * V / I$$

$$\text{Rho}_b = \text{Rho}_a / K2$$

$$\text{Rho}_{tc} = \text{Rho}_b / Ktc$$

*** R-S ELECTRODE CONFIGURATION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	3390.00	802.6	5.1	.237	1.17	686.	1.02	673.
3- 5	1.00	1020.00	1226.9	7.5	1.203	1.49	823.	1.43	576.
5- 7	1.00	256.00	734.3	8.2	2.868	1.56	471.	.76	619.
7- 9	1.00	77.60	410.9	6.9	5.296	1.60	257.	.54	476.
9- 11	1.00	132.00	1129.1	7.9	8.554	1.61	701.	.90	779.
11- 13	1.00	64.10	815.2	7.3	12.720	1.59	513.	.67	765.
13- 15	1.00	40.80	728.7	7.8	17.860	1.57	464.	.63	737.
15- 17	1.00	39.60	953.0	8.3	24.060	1.55	615.	.95	647.
17- 19	1.00	37.30	1171.5	6.4	31.410	1.53	766.	1.27	603.
19- 21	1.00	68.50	2737.7	7.1	39.970	1.52	1801.	1.78	1012.
21- 23	1.00	30.00	1494.7	7.9	49.820	1.51	990.	1.02	970.

*** D-S ELECTRODE CONFIGURATION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	2620.00	824.8	4.5	.236	1.16	711.	1.04	684.
3- 5	.75	793.00	1268.1	6.8	1.199	1.46	869.	1.46	595.
5- 7	.75	170.00	656.5	7.3	2.896	1.46	450.	.68	661.
7- 9	.75	49.70	362.8	6.2	5.475	1.42	256.	.44	581.
9- 11	.75	45.90	557.2	5.9	9.105	1.33	419.	.67	625.
11- 13	.75	11.00	204.3	4.5	13.930	1.21	169.	.43	393.
13- 15	.75	9.77	261.4	7.2	20.070	1.09	240.	.38	631.
15- 17	.75	6.41	235.8	4.8	27.580	.96	246.	.53	463.
17- 19	.75	.00	.0	.0	36.520	.86	0.	.55	0.
19- 21	.75	13.30	831.3	7.7	46.880	.76	1094.	.44	2486.
21- 23	.75	2.71	212.0	7.0	58.670	.68	312.	.09	3464.

*** D-R ELECTRODE CONFIGURATION **

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	50.50	5680.8	7.0	84.370	0.22	25822.	22.79	1133.
3- 5	.75	24.90	13383.6	-7.0	403.100	13.27	1009.	.24	4203.
5- 7	.75	23.60	9377.9	13.3	298.000	9.13	1027.	1.90	541.
7- 9	.75	8.41	1808.0	11.9	161.200	6.24	290.	1.16	250.
9- 11	.75	51.60	9728.2	9.0	141.400	5.56	1750.	1.71	1023.
11- 13	.75	37.00	7191.3	8.4	145.800	5.33	1349.	1.19	1134.
13- 15	.75	20.70	4481.2	9.0	162.400	5.28	849.	1.02	832.
15- 17	.75	23.20	5833.5	9.3	188.600	5.35	1090.	1.44	757.
17- 19	.75	27.60	8258.7	6.6	224.400	5.51	1499.	1.91	785.
19- 21	.75	64.30	23237.1	7.0	271.000	5.73	4055.	2.76	1469.
21- 23	.75	29.80	13131.6	7.2	330.500	6.04	2174.	1.59	1367.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E240 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2
 BRNG: S 60 W RS: 575.0m DEPTH: 290.0m

$$\text{Rho}_a = K1 \cdot V / I$$

$$\text{Rho}_b = \text{Rho}_a / K2$$

$$\text{Rho}_{tc} = \text{Rho}_b / Ktc$$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	3010.00	712.6	7.5	.237	1.17	609.	1.04	586.
3- 5	1.00	1240.00	1491.6	7.3	1.203	1.49	1001.	1.68	596.
5- 7	1.00	178.00	510.6	7.0	2.868	1.56	327.	.88	372.
7- 9	1.00	55.40	293.4	8.3	5.296	1.60	183.	.47	390.
9- 11	1.00	112.00	958.0	9.1	8.554	1.61	595.	1.02	583.
11- 13	1.00	34.90	443.8	7.2	12.720	1.59	279.	.56	498.
13- 15	1.00	50.00	893.1	7.1	17.860	1.57	569.	.76	748.
15- 17	1.00	49.40	1188.8	8.5	24.060	1.55	767.	.80	959.
17- 19	1.00	72.80	2286.4	7.6	31.410	1.53	1494.	1.71	874.
19- 21	1.00	13.90	555.5	6.5	39.970	1.52	366.	.77	475.
21- 23	1.00	20.20	1006.5	6.7	49.820	1.51	667.	.97	687.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	2280.00	717.7	7.5	.236	1.16	619.	1.04	595.
3- 5	.75	937.00	1498.3	6.9	1.199	1.46	1026.	1.65	622.
5- 7	.75	109.00	420.9	6.0	2.896	1.46	288.	.79	365.
7- 9	.75	30.20	220.5	7.4	5.475	1.42	155.	.41	379.
9- 11	.75	43.40	526.8	8.1	9.105	1.33	396.	.89	445.
11- 13	.75	4.24	78.8	8.1	13.930	1.21	65.	.48	136.
13- 15	.75	7.45	199.4	7.3	20.070	1.09	183.	.68	269.
15- 17	.75	9.45	347.6	7.5	27.580	.96	362.	.74	489.
17- 19	.75	7.11	346.2	5.8	36.520	.86	403.	1.49	270.
19- 21	.75	.00	.0	.0	46.880	.76	0.	.64	0.
21- 23	.75	.00	.0	.0	58.670	.68	0.	.82	0.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	20.50	2306.1	.0	84.370	0.22	10482.	2.99	3506.
3- 5	.75	9.44	5073.9	36.0	403.100	13.27	382.	2.96	129.
5- 7	.75	26.10	10371.4	8.5	298.000	9.13	1136.	2.08	546.
7- 9	.75	11.70	2515.3	10.7	161.200	6.24	403.	.80	504.
9- 11	.75	41.30	7786.3	9.1	141.400	5.56	1400.	1.47	953.
11- 13	.75	21.80	4237.1	7.1	145.800	5.33	795.	.72	1104.
13- 15	.75	30.40	6581.1	7.2	162.400	5.28	1246.	.89	1400.
15- 17	.75	27.70	6965.0	9.3	188.600	5.35	1302.	.88	1479.
17- 19	.75	47.80	14303.1	7.5	224.400	5.51	2596.	1.90	1366.
19- 21	.75	10.00	3613.9	6.8	271.000	5.73	631.	.86	733.
21- 23	.75	14.80	6521.7	6.0	330.500	6.04	1080.	1.06	1019.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: E270 A_SP: 50.m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: N 90 W RS: 575.0m DEPTH: 290.0m
 $Rho_a = K1 * V / I$ $Rho_b = Rho_a / K2$ $Rho_{tc} = Rho_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	2070.00	490.1	5.4	.237	1.17	419.	1.00	419.
3- 5	1.00	962.00	1157.2	7.2	1.203	1.49	777.	1.41	551.
5- 7	1.00	370.00	1061.3	6.9	2.868	1.56	680.	1.52	448.
7- 9	1.00	117.00	619.6	7.6	5.296	1.60	387.	.90	430.
9- 11	1.00	47.50	406.3	9.1	8.554	1.61	252.	.46	549.
11- 13	1.00	120.00	1526.0	7.7	12.720	1.59	960.	1.25	768.
13- 15	1.00	59.00	1053.8	7.5	17.860	1.57	671.	1.10	610.
15- 17	1.00	31.60	760.4	7.1	24.060	1.55	491.	.86	570.
17- 19	1.00	32.00	1005.0	6.9	31.410	1.53	657.	.81	811.
19- 21	1.00	15.30	611.5	6.0	39.970	1.52	402.	.54	745.
21- 23	1.00	6.85	341.3	6.6	49.820	1.51	226.	.37	611.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	1530.00	481.6	5.3	.236	1.16	415.	1.00	415.
3- 5	.75	722.00	1154.5	7.1	1.199	1.46	791.	1.39	569.
5- 7	.75	221.00	853.4	6.8	2.896	1.46	585.	1.43	409.
7- 9	.75	45.80	334.4	8.5	5.475	1.42	236.	.81	291.
9- 11	.75	12.00	145.7	10.2	9.105	1.33	110.	.42	261.
11- 13	.75	31.50	585.2	7.9	13.930	1.21	484.	1.17	413.
13- 15	.75	12.00	321.1	7.9	20.070	1.09	295.	1.02	289.
15- 17	.75	5.65	207.8	6.6	27.580	.96	217.	.83	261.
17- 19	.75	6.72	327.2	6.9	36.520	.86	381.	.80	476.
19- 21	.75	1.79	111.9	6.8	46.880	.76	147.	.58	254.
21- 23	.75	1.80	140.8	6.5	58.670	.68	207.	.42	493.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	3.90	438.7	37.0	84.370	0.22	1994.	10.88	183.
3- 5	.75	.00	.0	.0	403.100	13.27	0.	2.61	0.
5- 7	.75	54.50	21656.7	7.9	298.000	9.13	2372.	2.82	841.
7- 9	.75	42.30	9093.6	8.6	161.200	6.24	1457.	1.47	991.
9- 11	.75	23.30	4392.8	9.0	141.400	5.56	790.	.60	1317.
11- 13	.75	57.30	11136.8	7.7	145.800	5.33	2090.	1.43	1461.
13- 15	.75	32.40	7014.1	7.4	162.400	5.28	1328.	1.21	1098.
15- 17	.75	18.20	4576.3	7.2	188.600	5.35	855.	.91	940.
17- 19	.75	17.40	5206.6	7.0	224.400	5.51	945.	.80	1181.
19- 21	.75	9.51	3436.8	5.8	271.000	5.73	600.	.52	1153.
21- 23	.75	3.45	1520.3	6.5	330.500	6.04	252.	.33	763.

NAME: EL TORNEADO, BALZAPAMBA AREA
 LINE: E300 A_SP: 50. m ST_LO: 0 ST_HI: 23 DELTA: 2
 BRNG: N 60 W RS: 575.0m DEPTH: 290.0m
 $\text{Rho}_a = K1 \cdot V / I$ $\text{Rho}_b = \text{Rho}_a / K2$ $\text{Rho}_{tc} = \text{Rho}_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.00	2110.00	499.6	5.1	.237	1.17	427.	.96	445.
3- 5	1.00	763.00	917.8	6.8	1.203	1.49	616.	.73	844.
5- 7	1.00	432.00	1239.2	7.3	2.868	1.56	794.	1.31	606.
7- 9	1.00	272.00	1440.4	6.1	5.296	1.60	900.	1.36	662.
9- 11	1.00	154.00	1317.3	8.0	8.554	1.61	818.	1.13	724.
11- 13	1.00	71.80	913.1	8.9	12.720	1.59	574.	.75	766.
13- 15	1.00	38.60	689.4	7.1	17.860	1.57	439.	.58	757.
15- 17	1.00	45.50	1094.9	7.4	24.060	1.55	706.	1.07	660.
17- 19	1.00	42.50	1334.8	7.0	31.410	1.53	872.	1.06	823.
19- 21	1.00	21.00	839.3	7.2	39.970	1.52	552.	.85	650.
21- 23	1.00	13.50	672.6	6.8	49.820	1.51	446.	.59	755.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	1570.00	494.2	4.8	.236	1.16	426.	.95	449.
3- 5	.75	536.00	857.1	6.7	1.199	1.46	587.	.71	827.
5- 7	.75	282.00	1089.0	7.1	2.896	1.46	746.	1.27	587.
7- 9	.75	148.00	1080.5	5.9	5.475	1.42	761.	1.31	581.
9- 11	.75	57.30	695.6	8.5	9.105	1.33	523.	1.08	484.
11- 13	.75	18.00	334.4	8.9	13.930	1.21	276.	.74	373.
13- 15	.75	10.60	283.6	8.7	20.070	1.09	260.	.60	434.
15- 17	.75	16.00	588.5	7.9	27.580	.96	613.	1.17	524.
17- 19	.75	12.10	589.1	8.1	36.520	.86	685.	1.20	571.
19- 21	.75	5.45	340.7	7.0	46.880	.76	448.	1.03	435.
21- 23	.75	3.51	274.6	6.2	58.670	.68	404.	.77	524.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	22.00	2474.8	14.6	84.370	0.22	11249.	24.52	459.
3- 5	.75	32.90	17683.5	11.3	403.100	13.27	1333.	1.84	724.
5- 7	.75	40.50	16093.5	9.5	298.000	9.13	1763.	1.86	948.
7- 9	.75	53.60	11522.9	6.9	161.200	6.24	1847.	1.72	1074.
9- 11	.75	57.20	10783.9	7.7	141.400	5.56	1940.	1.32	1469.
11- 13	.75	35.70	6938.7	7.3	145.800	5.33	1302.	.79	1648.
13- 15	.75	18.40	3983.3	7.1	162.400	5.28	754.	.55	1372.
15- 17	.75	18.00	4526.0	7.4	188.600	5.35	846.	.95	891.
17- 19	.75	19.80	5924.7	6.7	224.400	5.51	1075.	.92	1169.
19- 21	.75	10.30	3722.3	7.3	271.000	5.73	650.	.72	902.
21- 23	.75	6.59	2903.9	7.2	330.500	6.04	481.	.49	981.

NAME: EL TORNEADO, BALZAPAMBA AREA

LINE: B330 A_SP: 50.m ST_LO: 0 ST_HI: 23 DELTA: 2

BRNG: N 30 W RS: 575.0m DEPTH: 290.0m

$Rho_a = K1 * V / I$

$Rho_b = Rho_a / K2$

$Rho_{tc} = Rho_b / Ktc$

*** R-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	1.50	3160.00	498.8	4.8	.237	1.17	426.	.77	554.
3- 5	1.50	1010.00	809.9	7.0	1.203	1.49	544.	.91	597.
5- 7	1.50	437.00	835.7	8.0	2.868	1.56	536.	.84	638.
7- 9	1.50	308.00	1087.3	6.1	5.296	1.60	680.	.94	723.
9- 11	1.50	286.00	1630.9	6.2	8.554	1.61	1013.	1.09	929.
11- 13	1.50	135.00	1144.5	7.0	12.720	1.59	720.	.90	800.
13- 15	1.50	81.60	971.7	7.4	17.860	1.57	619.	.86	720.
15- 17	1.50	79.90	1281.9	9.0	24.060	1.55	827.	.86	962.
17- 19	1.50	30.90	647.0	8.8	31.410	1.53	423.	.63	671.
19- 21	1.50	23.00	612.8	8.9	39.970	1.52	403.	.65	620.
21- 23	1.50	27.10	900.2	8.1	49.820	1.51	596.	.82	727.

*** D-S ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	1550.00	487.9	4.9	.236	1.16	421.	.76	553.
3- 5	.75	456.00	729.2	6.8	1.199	1.46	499.	.87	574.
5- 7	.75	169.00	652.6	7.9	2.896	1.46	447.	.80	559.
7- 9	.75	105.00	766.6	5.9	5.475	1.42	540.	.91	593.
9- 11	.75	88.70	1076.8	6.0	9.105	1.33	810.	1.07	757.
11- 13	.75	37.60	698.5	7.3	13.930	1.21	577.	.91	634.
13- 15	.75	20.10	537.9	7.8	20.070	1.09	493.	.92	536.
15- 17	.75	17.70	651.0	9.2	27.580	.96	678.	.98	692.
17- 19	.75	6.67	324.8	9.3	36.520	.86	378.	.76	497.
19- 21	.75	4.13	258.1	9.2	46.880	.76	340.	.85	400.
21- 23	.75	3.51	274.6	8.9	58.670	.68	404.	1.14	354.

*** D-R ELECTRODE CONFIGURTION ***

Rx	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	K1	K2	Rho_b (Ohm-m)	Ktc	Rho_tc (Ohm-m)
1- 3	.75	32.10	3610.9	11.8	84.370	0.22	16413.	28.20	582.
3- 5	.75	45.50	24456.0	10.3	403.100	13.27	1843.	2.99	616.
5- 7	.75	48.80	19391.6	8.1	298.000	9.13	2124.	1.42	1496.
7- 9	.75	49.80	10706.0	6.1	161.200	6.24	1716.	1.15	1492.
9- 11	.75	53.30	10048.7	6.4	141.400	5.56	1807.	1.13	1599.
11- 13	.75	29.20	5675.3	7.0	145.800	5.33	1065.	.86	1238.
13- 15	.75	20.70	4481.2	7.2	162.400	5.28	849.	.77	1102.
15- 17	.75	22.10	5556.9	8.8	188.600	5.35	1039.	.73	1423.
17- 19	.75	8.67	2594.3	8.5	224.400	5.51	471.	.51	923.
19- 21	.75	7.29	2634.5	8.8	271.000	5.73	460.	.51	902.
21- 23	.75	7.18	3163.9	7.9	330.500	6.04	524.	.62	845.

NAME: OSOHUAYCO, BALZAPAMBA AREA

LINE: 01 A_SP: 100.m ST_LO: 0 ST_HI: 32 DELTA: 2

BRNG: S 45 E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc	
30-32	26-28	1	.75	698.00	1827.0	2.1	.96	1827.0
30-32	24-26	2	.75	220.00	2169.0	6.0	1.02	2169.0
30-32	22-24	3	.75	81.30	2085.0	7.1	.98	2085.0
30-32	20-22	4	.50	36.20	2934.0	6.4	.93	2934.0
30-32	18-20	5	.50	31.80	4195.9	5.3	.83	5055.0
28-30	24-26	1	.75	515.00	1470.0	4.6	.88	1470.0
28-30	22-24	2	.75	137.00	1565.0	6.1	.88	1565.0
28-30	20-22	3	.50	52.00	2361.0	4.8	.83	2361.0
28-30	18-20	4	.50	44.30	4513.0	2.3	.74	4513.0
28-30	16-18	5	1.00	18.70	1870.0	-2.5	.66	1870.0
26-28	22-24	1	.75	386.00	1155.0	5.7	.84	1155.0
26-28	20-22	2	.50	90.40	1662.0	5.7	.82	1662.0
26-28	18-20	3	.50	57.30	3000.0	5.1	.72	3000.0
26-28	16-18	4	1.00	19.50	1131.0	1.9	.65	1131.0
26-28	14-16	5	1.00	45.70	3769.0	6.4	.80	3769.0
24-26	20-22	1	.50	199.00	974.3	4.0	.77	974.3
24-26	18-20	2	.50	106.00	2190.0	4.0	.73	2190.0
24-26	16-18	3	1.00	39.80	1137.0	2.6	.66	1137.0
24-26	14-16	4	1.00	87.50	4023.0	6.8	.82	4023.0
24-26	12-14	5	1.00	13.20	1613.0	7.7	.54	1613.0
22-24	18-20	1	.50	101.00	536.3	4.1	.71	536.3
22-24	16-18	2	1.00	37.40	414.7	3.6	.68	414.7
22-24	14-16	3	1.00	76.80	1723.0	7.2	.84	1723.0
22-24	12-14	4	1.00	11.40	767.5	8.3	.56	767.5
22-24	10-12	5	1.00	2.91	548.6	8.5	.35	548.6
20-22	16-18	1	1.00	261.00	615.0	4.4	.80	615.0
20-22	14-16	2	1.00	332.00	2454.0	8.1	1.02	2454.0
20-22	12-14	3	1.00	38.30	1094.0	9.0	.66	1094.0
20-22	10-12	4	1.00	8.77	787.1	8.7	.42	787.1
20-22	8-10	5	1.00	5.87	774.6	9.4	.50	774.6
18-20	14-16	1	1.00	1210.00	2258.0	5.4	1.01	2258.0
18-20	12-14	2	1.00	103.00	1159.0	7.0	.67	1159.0
18-20	10-12	3	1.00	19.90	833.6	5.9	.45	833.6
18-20	8-10	4	1.00	12.10	829.5	7.7	.55	829.5
18-20	6-8	5	1.50	9.68	734.0	6.0	.58	734.0
16-18	8-10	3	1.00	11.30	361.0	6.0	.59	361.0
16-18	6-8	4	1.50	8.67	335.2	5.0	.65	335.2
16-18	4-6	5	1.50	1.80	121.8	13.5	.65	121.8
16-18	12-14	1	1.00	162.00	526.6	5.7	.58	526.6
16-18	10-12	2	1.00	20.80	156.8	4.6	.45	348.4
14-16	10-12	1	1.00	257.00	621.0	9.9	.78	621.0
14-16	8-10	2	1.00	106.00	733.2	11.3	1.09	733.2
14-16	6-8	3	1.50	70.10	728.0	9.4	1.21	728.0
14-16	4-6	4	1.50	12.30	259.7	22.0	1.19	259.7
14-16	2-4	5	1.50	55.40	2436.6	8.6	1.80	1354.0
12-14	8-10	1	1.00	423.00	731.5	10.3	1.09	731.5
12-14	6-8	2	1.50	165.00	679.8	9.1	1.22	679.8
12-14	4-6	3	1.50	46.90	512.5	11.2	1.15	512.5
12-14	2-4	4	1.50	109.00	1640.0	6.9	1.67	1640.0
12-14	0-2	5	1.50	210.00	4462.0	6.4	2.07	4462.0
10-12	4-6	2	1.50	61.60	340.2	9.4	.91	340.2
10-12	2-4	3	1.50	104.00	1021.0	6.6	1.28	1021.0
10-12	0-2	4	1.50	168.00	2892.0	6.4	1.46	2892.0
10-12	6-8	1	1.50	356.00	461.2	9.8	.97	461.2
8-10	4-6	1	1.50	117.00	154.7	12.5	.95	154.7
8-10	2-4	2	1.50	191.00	700.8	7.5	1.37	700.8
8-10	0-2	3	1.50	208.00	1778.0	7.9	1.47	1778.0
6-8	2-4	1	1.50	384.00	473.0	7.5	1.02	473.0
6-8	0-2	2	1.50	255.00	1378.0	8.8	.93	1378.0
4-6	0-2	1	1.50	862.00	1231.0	4.4	.88	1231.0

NAME: OSOHUAYCO, BALZAPAMBA AREA

LINE: 02 A_SP: 100. m ST_LO: 0 ST_HI: 32 DELTA: 2

BRNG: S 45 E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc	
30- 32	26- 28	1	1.00	623.00	1290.0	2.7	.91	1290.0
30- 32	24- 26	2	1.00	334.00	2569.0	3.8	.98	2569.0
30- 32	22- 24	3	.75	94.00	2460.0	3.2	.96	2460.0
30- 32	20- 22	4	.50	42.30	3157.0	4.1	1.01	3157.0
30- 32	18- 20	5	.50	22.90	3321.0	3.6	.91	3321.0
28- 30	24- 26	1	1.00	577.00	1251.0	3.0	.87	1251.0
28- 30	22- 24	2	.75	122.00	1377.0	2.5	.89	1377.0
28- 30	20- 22	3	.50	47.80	1959.0	3.3	.92	1959.0
28- 30	18- 20	4	.50	24.10	2216.0	2.6	.82	2216.0
28- 30	16- 18	5	1.00	17.30	1678.0	2.8	.68	1678.0
26- 28	22- 24	1	.75	255.00	745.2	3.0	.86	745.2
26- 28	20- 22	2	.50	63.80	1057.0	3.6	.91	1057.0
26- 28	18- 20	3	.50	28.60	1365.0	3.1	.79	1365.0
26- 28	16- 18	4	1.00	19.20	1097.0	3.1	.66	1097.0
26- 28	14- 16	5	1.00	22.80	2032.0	4.1	.74	2032.0
24- 26	20- 22	1	.50	241.00	1021.0	2.3	.89	1021.0
24- 26	18- 20	2	.50	82.60	1538.0	2.3	.81	1538.0
24- 26	16- 18	3	1.00	45.90	1272.0	2.5	.68	1272.0
24- 26	14- 16	4	1.00	56.90	2786.0	3.9	.77	2786.0
24- 26	12- 14	5	.75	47.20	3954.0	5.1	1.05	3954.0
22- 24	18- 20	1	.50	387.00	1999.0	2.4	.73	1999.0
22- 24	16- 18	2	1.00	112.00	1224.0	2.2	.69	1224.0
22- 24	14- 16	3	1.00	86.90	2073.0	3.0	.79	2073.0
22- 24	12- 14	4	.75	68.30	3239.0	4.5	1.06	3239.0
22- 23	10- 12	5	1.00	36.80	2335.0	5.7	1.04	2335.0
20- 22	16- 18	1	1.00	643.00	1496.0	2.0	.81	1496.0
20- 22	14- 16	2	1.00	270.00	2036.0	3.2	1.00	2036.0
20- 22	12- 14	3	.75	187.00	3672.0	4.4	1.28	3672.0
20- 22	10- 12	4	1.00	90.80	2901.0	5.4	1.18	2901.0
20- 22	8- 10	5	1.50	40.10	2290.0	6.9	.77	2290.0
18- 20	14- 16	1	1.00	761.00	1406.0	3.0	1.02	1406.0
18- 20	12- 14	2	.75	359.00	2798.0	4.9	1.29	2798.0
18- 20	10- 12	3	1.00	139.00	2319.0	6.5	1.13	2319.0
18- 20	8- 10	4	1.50	51.30	1742.0	7.9	.74	1742.0
18- 20	6- 8	5	1.50	21.40	1651.0	8.6	.57	1651.0
16- 18	12- 14	1	.75	834.00	2254.0	3.7	.93	2254.0
16- 18	10- 12	2	1.00	229.00	2081.0	6.0	.83	2081.0
16- 18	8- 10	3	1.50	66.10	1510.0	8.3	.55	1510.0
16- 18	6- 8	4	1.50	26.20	1497.0	8.9	.44	1497.0
16- 18	4- 6	5	1.50	9.54	1234.0	8.7	.34	1234.0
14- 16	10- 12	1	1.00	1010.00	2759.0	5.8	.69	2759.0
14- 16	8- 10	2	1.50	200.00	1933.0	9.1	.52	1933.0
14- 16	6- 8	3	1.50	72.10	2059.0	9.7	.44	2059.0
14- 16	4- 6	4	1.50	26.30	1836.0	9.5	.36	1836.0
14- 16	2- 4	5	1.50	26.70	1631.0	7.3	.72	1631.0
12- 14	8- 10	1	1.50	781.00	1382.0	8.1	.71	1382.0
12- 14	6- 8	2	1.50	211.00	1514.0	9.5	.70	1514.0
12- 14	4- 6	3	1.50	68.30	1455.0	9.6	.59	1455.0
12- 14	2- 4	4	1.50	62.10	1334.0	7.5	1.17	1334.0
12- 14	0- 2	5	1.50	41.50	1093.0	7.1	1.67	1093.0
10- 12	6- 8	1	1.50	966.00	1278.0	8.4	.95	1278.0
10- 12	4- 6	2	1.50	239.00	1380.0	8.7	.87	1380.0
10- 12	2- 4	3	1.50	169.00	1249.0	6.7	1.70	1249.0
10- 12	0- 2	4	1.50	100.00	1122.0	6.7	2.24	1122.0
8- 10	4- 6	1	1.50	768.00	1135.0	7.0	.85	1135.0
8- 10	2- 4	2	1.50	352.00	1066.0	5.9	1.66	1066.0
8- 10	0- 2	3	1.50	176.00	1189.0	5.2	1.86	1189.0
6- 8	2- 4	1	1.50	823.00	623.0	3.3	1.66	623.0
6- 8	0- 2	2	1.50	297.00	1066.0	4.0	1.40	1066.0
4- 6	0- 2	1	1.50	381.00	665.3	2.9	.72	665.3

NAME: OSONHUAYCO, BALZAPAMBA AREA

LINE: 03 A_SP: 100.m ST_LO: 0

ST_HI: 32 Rho_tc = Rho_a/Ktc

DELTA: 2

BRNG: S 45 B

N=1 - 5

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc	
30- 32	26- 28	1	1.00	681.00	1366.0	2.3	.94	1366.0
30- 32	24- 26	2	1.00	325.00	2188.0	3.5	1.12	2188.0
30- 32	22- 24	3	1.00	120.00	1901.0	3.2	1.19	1901.0
30- 32	20- 22	4	1.00	60.30	2124.0	3.2	1.07	2124.0
30- 32	18- 20	5	1.00	31.20	2510.0	3.0	.82	2510.0
28- 30	24- 26	1	1.00	867.00	1618.0	2.1	1.01	1618.0
28- 30	22- 24	2	1.00	212.00	1480.0	2.1	1.08	1480.0
28- 30	20- 22	3	1.00	91.60	1837.0	2.0	.94	1837.0
28- 30	18- 20	4	1.00	43.60	2283.0	1.7	.72	2283.0
28- 30	16- 18	5	.50	16.00	3104.0	2.4	.68	3104.0
26- 28	22- 24	1	1.00	429.00	998.3	1.7	.81	998.3
26- 28	20- 22	2	1.00	142.00	1409.0	1.7	.76	1409.0
26- 28	18- 20	3	1.00	55.70	1750.0	1.4	.60	1750.0
26- 28	16- 18	4	.50	19.10	2526.0	1.5	.57	2526.0
26- 28	14- 16	5	1.00	55.10	3462.0	1.4	1.05	3462.0
24- 26	20- 22	1	1.00	552.00	1370.0	1.6	.76	1370.0
24- 26	18- 20	2	1.00	143.00	1585.0	1.6	.68	1585.0
24- 26	16- 18	3	.50	41.40	2330.0	1.7	.67	2330.0
24- 26	14- 16	4	.50	43.30	2721.0	3.1	1.20	2721.0
24- 26	12- 14	5	1.00	58.50	3606.0	4.3	1.07	3606.0
22- 24	18- 20	1	1.00	508.00	1244.0	1.8	.77	1244.0
22- 24	16- 18	2	.50	102.00	1788.0	1.5	.86	1788.0
22- 24	14- 16	3	.50	88.80	2232.0	2.6	1.50	2232.0
22- 24	12- 14	4	1.00	103.00	3082.0	3.9	1.26	3082.0
22- 24	10- 12	5	1.00	26.70	2842.0	5.7	.62	2842.0
20- 22	16- 18	1	.50	242.00	960.0	1.2	.95	960.0
20- 22	14- 16	2	.50	163.00	1490.0	2.8	1.65	1490.0
20- 22	12- 14	3	1.00	144.00	2225.0	3.6	1.22	2225.0
20- 22	10- 12	4	1.00	38.60	2509.0	5.3	.58	2509.0
20- 22	8- 10	5	1.00	33.20	2106.0	5.0	1.04	2106.0
18- 20	14- 16	1	.50	283.00	808.3	3.1	1.32	808.3
18- 20	12- 14	2	1.00	158.00	1489.0	3.8	.80	1489.0
18- 20	10- 12	3	1.00	43.80	2117.0	5.3	.39	2117.0
18- 20	8- 10	4	1.00	34.50	1807.0	5.0	.72	1807.0
18- 20	6- 8	5	.75	30.70	2647.0	4.6	1.02	2647.0
16- 18	12- 14	1	1.00	534.00	1797.0	4.6	.56	1797.0
16- 18	10- 12	2	1.00	98.50	2196.0	5.8	.33	2196.0
16- 18	8- 10	3	1.00	73.20	2226.0	5.8	.62	2226.0
16- 18	6- 8	4	.75	59.60	3444.0	5.7	.87	3444.0
16- 18	4- 6	5	.75	13.40	2312.0	4.6	.51	2312.0
14- 16	10- 12	1	1.00	435.00	1464.0	6.0	.56	1464.0
14- 16	8- 10	2	.50	132.00	1631.0	5.5	1.22	1631.0
14- 16	6- 8	3	.20	53.40	3126.0	6.4	1.61	3126.0
14- 16	4- 6	4	.75	40.20	2173.0	4.9	.93	2173.0
14- 16	2- 4	5	1.00	12.00	1466.0	5.8	.54	1466.0
12- 14	8- 10	1	.50	855.00	1733.0	5.4	1.86	1733.0
12- 14	6- 8	2	.50	419.00	3491.0	6.5	1.81	3491.0
12- 14	4- 6	3	.75	97.00	2540.0	5.9	.96	2540.0
12- 14	2- 4	4	1.00	28.60	1891.0	6.9	.57	1891.0
12- 14	0- 2	5	1.50	35.40	1153.0	6.0	1.35	1153.0
10- 12	6- 8	1	.50	466.00	2510.0	7.8	.70	2510.0
10- 12	4- 6	2	.75	63.70	1601.0	8.5	.40	1601.0
10- 12	2- 4	3	1.00	13.70	1033.0	10.0	.25	1033.0
10- 12	0- 2	4	1.50	16.40	675.7	8.8	.61	675.7
8- 10	4- 6	1	.75	223.00	1168.0	6.0	.48	1168.0
8- 10	2- 4	2	1.00	40.80	809.5	6.9	.38	809.5
8- 10	0- 2	3	1.50	43.00	557.1	6.3	.97	557.1
6- 8	2- 4	1	1.00	521.00	1212.0	4.4	.81	1212.0
6- 8	0- 2	2	1.50	392.00	966.0	4.1	2.04	966.0
4- 6	0- 2	1	1.50	742.00	439.8	1.7	2.12	439.8

NAME: OSOHUAYCO, BALZAPAMBA AREA

LINE: 04 A_SP: 100.m ST_LO: 0 ST_H1: 32 DELTA: 2

BRNG: S 45 E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc	
30- 32	26- 28	1	1.00	999.00	2242.0	2.2	.84	2242.0
30- 32	24- 26	2	.75	646.00	5958.0	2.0	1.09	5958.0
30- 32	22- 24	3	1.00	247.00	3725.0	2.3	1.25	3725.0
30- 32	20- 22	4	1.00	88.60	3711.0	1.7	.90	3711.0
30- 32	18- 20	5	1.00	65.30	3989.0	1.7	1.08	3989.0
28- 30	24- 26	1	.75	1130.00	2630.0	1.9	1.08	2630.0
28- 30	22- 24	2	1.00	363.00	2207.0	2.1	1.24	2207.0
28- 30	20- 22	3	1.00	122.00	2674.0	1.9	.86	2674.0
28- 30	18- 20	4	1.00	85.00	3111.0	1.4	1.03	3111.0
28- 30	16- 18	5	1.00	43.70	3134.0	2.0	.92	3134.0
26- 28	22- 24	1	1.00	462.00	978.4	1.8	.89	978.4
26- 28	20- 22	2	1.00	123.00	1427.0	1.7	.65	1427.0
26- 28	18- 20	3	1.00	79.30	1892.0	1.3	.79	1892.0
26- 28	16- 18	4	1.00	39.00	2070.0	1.7	.71	2070.0
26- 28	14- 16	5	1.00	47.70	4141.0	2.8	.76	4141.0
24- 26	20- 22	1	1.00	311.00	888.2	1.4	.66	888.2
24- 26	18- 20	2	1.00	172.00	1425.0	1.5	.91	1425.0
24- 26	16- 18	3	1.00	78.70	1788.0	1.9	.83	1788.0
24- 26	14- 16	4	1.00	95.50	4091.0	2.8	.88	4091.0
24- 26	12- 14	5	1.50	75.50	3533.0	3.0	.94	3533.0
22- 24	18- 20	1	1.00	470.00	738.3	1.2	1.20	738.3
22- 24	16- 18	2	1.00	142.00	982.6	1.4	1.09	982.6
22- 24	14- 16	3	1.00	144.00	2381.0	2.3	1.14	2381.0
22- 24	12- 14	4	1.50	101.00	2115.0	2.8	1.20	2115.0
22- 24	10- 12	5	1.50	66.10	2153.0	3.1	1.35	2153.0
20- 22	16- 18	1	1.00	286.00	748.8	1.0	.72	748.8
20- 22	14- 16	2	1.00	186.00	1710.0	1.8	.82	1710.0
20- 22	12- 14	3	1.50	112.00	1636.0	2.3	.86	1636.0
20- 22	10- 12	4	1.50	67.80	1813.0	2.8	.94	1813.0
20- 22	8- 10	5	1.50	41.90	2143.0	5.0	.86	2143.0
18- 20	14- 16	1	1.00	501.00	953.9	1.3	.99	953.9
18- 20	12- 14	2	1.50	225.00	1047.0	2.1	1.08	1047.0
18- 20	10- 12	3	1.50	121.00	1345.0	2.5	1.13	1345.0
18- 20	8- 10	4	1.50	68.60	1724.0	4.6	1.00	1724.0
18- 20	6- 18	5	1.50	45.40	2194.0	5.7	.91	2194.0
16- 18	12- 14	1	1.50	494.00	739.0	2.1	.84	739.0
16- 18	10- 12	2	1.50	188.00	1027.0	2.5	.92	1027.0
16- 18	8- 10	3	1.50	92.80	1356.0	4.9	.86	1356.0
16- 18	6- 8	4	1.50	55.90	1925.0	6.0	.73	1925.0
16- 18	4- 6	5	1.50	30.80	1673.0	5.5	.81	1673.0
14- 16	10- 12	1	1.50	938.00	1268.0	2.0	.93	1268.0
14- 16	8- 10	2	1.50	371.00	2247.0	4.3	.83	2247.0
14- 16	6- 8	3	1.50	202.00	3384.0	5.7	.75	3384.0
14- 16	4- 6	4	1.50	103.00	3157.0	5.6	.82	3157.0
14- 16	2- 4	5	1.00	32.90	2553.0	5.1	.85	2553.0
12- 14	8- 10	1	1.50	1140.00	1886.0	2.5	.76	1886.0
12- 14	6- 8	2	1.50	452.00	2989.0	4.3	.76	2989.0
12- 14	4- 6	3	1.50	196.00	2932.0	4.6	.84	2932.0
12- 14	2- 4	4	1.00	58.10	2546.0	4.1	.86	2546.0
12- 14	0- 2	5	1.00	13.10	1054.0	4.6	.82	1054.0
10- 12	6- 8	1	1.50	1190.00	1738.0	4.1	.86	1738.0
10- 12	4- 6	2	1.50	40.00	1991.0	4.5	1.01	1991.0
10- 12	2- 4	3	1.00	107.00	1977.0	4.5	1.02	1977.0
10- 12	0- 2	4	1.00	21.60	848.2	4.5	.96	848.2
8- 10	4- 6	1	1.50	1420.00	1858.0	4.9	.96	1858.0
8- 10	0- 2	3	1.00	47.20	889.7	5.3	1.00	889.7
8- 10	2- 4	2	1.00	294.00	2410.0	5.0	.92	2410.0
6- 8	2- 4	1	1.00	794.00	1721.0	2.6	.87	1721.0
6- 8	0- 2	2	1.00	104.00	956.2	3.5	.82	956.2
4- 6	0- 2	1	1.00	207.00	390.2	1.6	.89	438.4

NAME: OSOHUAYCO, BALZAPAMBA AREA

LINE: 05 A_SP: 100.m ST_LO: 0

BRNG: S 45 E

N=1 - 5

ST_H1: 32

DELTA: 2

Rho_tc=Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_tc (Ohm-m)	PFE (%)	Ktc
30- 32	26- 28	1	.25	71.40	1077.0	1.4	.50
30- 32	24- 26	2	.25	27.40	1198.0	1.6	.69
30- 32	22- 24	3	.75	30.50	2072.0	1.8	.37
30- 32	20- 22	4	1.00	79.90	4303.0	2.1	.70
30- 32	18- 20	5	1.00	17.70	1390.0	2.9	.84
28- 30	24- 26	1	.25	119.00	879.6	2.4	1.02
28- 30	22- 24	2	.75	96.70	1648.0	2.1	.59
28- 30	20- 22	3	1.00	220.00	3736.0	2.4	1.11
28- 30	18- 20	4	.50	20.80	1215.0	3.1	1.29
28- 30	16- 18	5	.50	11.80	1639.0	3.2	.95
26- 28	22- 24	1	.75	290.00	1487.0	1.9	.49
26- 28	20- 22	2	1.00	464.00	3300.0	2.2	1.06
26- 28	18- 20	3	.50	38.10	1227.0	2.9	1.17
26- 28	16- 18	4	.50	17.00	1545.0	3.3	.83
26- 28	14- 16	5	1.00	14.40	1092.0	4.7	.87
24- 26	20- 22	1	1.00	1480.00	1585.0	1.7	1.76
24- 26	18- 20	2	.50	68.30	660.3	2.4	1.56
24- 26	16- 18	3	.50	22.10	825.0	3.1	1.01
24- 26	14- 16	4	1.00	16.50	586.8	3.8	1.06
24- 26	12- 14	5	1.50	27.00	1006.4	5.7	1.18
22- 24	18- 20	1	.50	88.00	572.1	1.7	.58
22- 24	16- 18	2	.50	20.50	772.8	2.6	.40
22- 24	14- 16	3	1.00	14.30	626.7	3.6	.43
22- 24	12- 14	4	1.50	20.60	1056.0	5.4	.49
22- 24	10- 12	5	1.50	7.82	781.6	5.5	.44
20- 22	16- 18	1	.50	391.00	2340.0	2.5	.63
20- 22	14- 16	2	1.00	198.00	1843.0	3.7	.81
20- 22	12- 14	3	1.50	180.00	2459.0	4.8	.92
20- 22	10- 12	4	1.50	48.30	1577.0	5.1	.77
20- 22	8- 10	5	1.50	33.30	2063.0	5.5	.71
18- 20	14- 16	1	1.00	414.00	729.3	2.8	1.07
18- 20	12- 14	2	1.50	229.00	943.4	3.6	1.22
18- 20	10- 12	3	1.50	39.70	475.1	4.1	1.05
18- 20	10- 12	3	1.50	39.70	498.9	4.1	1.05
18- 20	8- 10	4	1.50	22.80	590.7	4.5	.97
18- 20	6- 8	5	1.50	12.60	780.6	4.0	.71
16- 18	12- 14	1	1.50	1520.00	1990.0	3.5	.96
16- 18	10- 12	2	1.50	178.00	1040.0	4.0	.86
16- 18	8- 10	3	1.50	79.80	1254.0	4.2	.80
16- 18	6- 8	4	1.00	24.20	1546.0	3.9	.59
16- 18	4- 6	5	1.50	39.10	1911.0	4.1	.90
14- 16	10- 12	1	1.50	590.00	962.9	4.1	.77
14- 16	8- 10	2	1.50	174.00	1067.0	4.8	.82
14- 16	6- 8	3	1.00	44.60	1334.0	4.2	.63
14- 16	4- 6	4	1.50	62.80	1627.0	4.6	.97
14- 16	2- 4	5	1.50	21.90	713.5	3.7	1.35
12- 14	8- 10	1	1.50	581.00	768.5	4.8	.95
12- 14	6- 8	2	1.00	122.00	1136.0	4.6	.81
12- 14	4- 6	3	1.50	157.00	1578.0	5.0	1.25
12- 14	2- 4	4	1.50	50.70	758.0	3.8	1.68
12- 14	0- 2	5	2.00	45.10	1110.0	4.3	1.34
10- 12	6- 8	1	1.00	328.00	782.7	4.4	.79
10- 12	4- 6	2	1.50	279.00	1087.0	5.0	1.29
10- 12	2- 4	3	1.50	75.60	583.0	4.2	1.63
10- 12	0- 2	4	2.00	59.40	910.3	4.7	1.23
8- 10	4- 6	1	1.50	1500.00	1396.0	3.8	1.35
8- 10	2- 4	2	1.50	288.00	952.4	3.6	1.52
8- 10	0- 2	3	2.00	172.00	1529.0	4.2	1.06
6- 8	2- 4	1	1.50	515.00	819.2	3.1	.79
6- 8	0- 2	2	2.00	248.00	1585.0	3.5	.59
4- 6	0- 2	1	2.00	866.00	1200.0	2.9	.68

NAME: OSOHUAYCO, BALZAPAMBA AREA

LINE: 06 A_SP: 100. m ST_LO: 0

BRNG: S 45 E

N=1 - 5

ST_HI: 32

DELTA: 2

Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_tc (Ohm-m)	PFE (%)	Ktc
30- 32	26- 28	1	.75	267.00	789.4	-.3	.85
30- 32	24- 26	2	1.00	82.30	827.3	-.7	.75
30- 32	22- 24	3	1.00	78.70	1206.0	.0	1.23
30- 32	20- 22	4	1.00	36.90	1199.0	1.9	1.16
30- 32	18- 20	5	1.00	7.70	564.4	1.5	.90
28- 30	24- 26	1	1.00	415.00	965.8	.7	.81
28- 30	22- 24	2	1.00	271.00	1459.0	1.2	1.40
28- 30	20- 22	3	1.00	97.60	1508.0	2.1	1.22
28- 30	18- 20	4	1.00	20.20	818.8	2.9	.93
28- 30	16- 18	5	1.00	6.22	554.6	4.6	.74
26- 28	22- 24	1	1.00	554.00	773.3	1.4	1.35
26- 28	20- 22	2	1.00	146.00	1048.0	1.9	1.05
26- 28	18- 20	3	1.00	26.70	645.3	1.8	.78
26- 28	16- 18	4	1.00	7.89	472.1	3.8	.63
26- 28	14- 16	5	1.00	9.59	620.3	3.5	1.02
24- 26	20- 22	1	1.00	298.00	936.2	2.7	.60
24- 26	18- 20	2	1.00	42.60	629.8	2.6	.51
24- 26	16- 18	3	1.00	11.20	490.9	4.6	.43
24- 26	14- 16	4	1.00	14.00	743.4	4.9	.71
24- 26	12- 14	5	1.00	4.77	533.4	3.6	.59
22- 24	18- 20	1	1.00	137.00	335.3	3.2	.77
22- 24	16- 18	2	1.00	33.00	327.4	5.0	.76
22- 24	14- 16	3	1.00	34.30	525.6	5.0	1.23
22- 24	12- 14	4	1.00	11.40	417.3	4.0	1.03
22- 24	10- 12	5	1.00	4.77	533.4	3.8	.59
20- 22	16- 18	1	1.00	160.00	338.9	4.4	.89
20- 22	14- 16	2	1.00	100.00	499.3	4.2	1.51
20- 22	12- 14	3	1.00	27.30	428.8	3.7	1.20
20- 22	10- 12	4	1.00	10.20	565.4	3.5	.68
20- 22	8- 10	5	1.00	10.60	592.6	4.2	1.18
18- 20	14- 16	1	1.00	374.00	510.9	4.4	1.38
18- 20	12- 14	2	1.00	71.60	529.3	3.7	1.02
18- 20	10- 12	3	1.00	21.30	680.5	3.3	.59
18- 20	8- 10	4	1.00	18.70	684.5	4.0	1.03
18- 20	6- 8	5	1.50	16.40	550.6	4.0	1.31
16- 18	12- 14	1	1.00	203.00	627.2	4.9	.61
16- 18	10- 12	2	1.00	42.40	761.2	5.4	.42
16- 18	8- 10	3	1.00	35.20	861.7	5.4	.77
16- 18	6- 8	4	1.50	28.10	720.6	5.4	.98
16- 18	4- 6	5	1.00	11.80	707.7	6.8	1.10
14- 16	10- 12	1	1.00	336.00	917.8	3.3	.69
14- 16	8- 10	2	1.00	225.00	1203.0	4.0	1.41
14- 16	6- 8	3	1.50	133.00	983.1	4.0	1.70
14- 16	4- 6	4	1.00	49.10	1028.0	5.5	1.80
14- 16	2- 4	5	1.00	17.90	862.0	4.9	1.37
12- 14	8- 10	1	1.00	530.00	312.9	2.4	1.63
12- 14	6- 8	2	1.50	197.00	626.7	2.7	1.58
12- 14	4- 6	3	1.00	62.30	788.1	4.2	1.49
12- 14	2- 4	4	1.00	20.70	716.0	3.9	1.09
12- 14	0- 2	5	1.00	17.70	1091.0	3.5	1.07
10- 12	6- 8	1	1.50	355.00	619.6	2.5	.72
10- 12	4- 6	2	1.00	91.80	988.9	4.0	.70
10- 12	2- 4	3	1.00	27.50	1016.0	3.8	.51
10- 12	0- 2	4	1.00	22.80	1719.0	3.6	.50
8- 10	4- 6	1	1.00	356.00	798.8	4.1	.84
8- 10	2- 4	2	1.00	78.40	869.3	3.7	.68
8- 10	0- 2	3	1.00	59.00	1589.0	3.5	.70
6- 8	2- 4	1	1.00	425.00	1144.0	5.8	.70
6- 8	0- 2	2	1.00	192.00	1744.0	4.8	.83
4- 6	0- 2	1	1.00	505.00	924.2	4.3	1.03

NAME: CHASO JUAN AREA
 LINE: C1 A_SP: 100. m ST_LO: 0 ST_HI: 32 DELTA: 2
 BRNG: N 120E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PPE (%)	Ktc
30- 32	26- 28	1	1.00	434.00	1258.0	3.8	.65
30- 32	24- 26	2	1.00	228.00	2149.0	3.7	.80
30- 32	22- 24	3	1.00	61.10	1858.0	3.0	.62
30- 32	20- 22	4	1.00	84.20	4809.0	3.1	.66
30- 32	18- 20	5	1.00	62.10	6944.0	3.5	.59
28- 30	24- 26	1	1.00	100.00	1698.0	3.4	1.11
28- 30	22- 24	2	1.00	190.00	1558.0	3.0	.92
28- 30	20- 22	3	1.00	203.00	3865.0	3.2	.99
28- 30	18- 20	4	1.00	136.00	5697.0	3.4	.90
28- 30	16- 18	5	1.00	129.00	6809.0	3.2	1.25
26- 28	22- 24	1	1.00	374.00	1052.0	2.5	.67
26- 28	20- 22	2	1.00	193.00	1753.0	2.5	.83
26- 28	18- 20	3	1.00	85.20	2059.0	2.7	.78
26- 28	16- 18	4	1.00	77.30	2698.0	2.5	1.08
26- 28	14- 16	5	1.00	52.70	2634.0	2.5	1.32
24- 26	20- 22	1	1.00	1400.00	2443.0	2.7	1.08
24- 26	18- 20	2	1.00	448.00	3156.0	2.7	1.07
24- 26	16- 18	3	1.00	339.00	4437.0	2.7	1.44
24- 26	14- 16	4	1.00	187.00	4222.0	2.7	1.67
24- 26	12- 14	5	1.00	76.10	3804.0	2.6	1.32
22- 24	18- 20	1	1.00	585.00	1362.0	2.8	.81
22- 24	16- 18	2	1.00	308.00	2002.0	2.5	1.16
22- 24	14- 16	3	1.00	162.00	2386.0	2.0	1.28
22- 24	12- 14	4	1.00	61.50	2365.0	2.2	.98
22- 24	10- 12	5	1.00	37.60	2235.0	2.7	1.11
20- 22	16- 18	1	1.00	1300.00	2149.0	2.7	1.14
20- 22	14- 16	2	1.00	571.00	3500.0	2.7	1.23
20- 22	12- 14	3	1.00	199.00	4122.0	2.6	.91
20- 22	10- 12	4	1.00	116.00	4373.0	2.7	1.00
20- 22	8- 10	5	1.00	66.90	4550.0	2.7	.97
18- 20	14- 16	1	1.00	944.00	2404.0	2.8	.74
18- 20	12- 14	2	1.00	278.00	3381.0	2.6	.62
18- 20	10- 12	3	1.00	155.00	4174.0	2.8	.70
18- 20	8- 10	4	1.00	88.00	4807.0	2.6	.69
18- 20	6- 8	5	1.00	67.00	7129.0	2.7	.62
16- 18	12- 14	1	1.00	646.00	1740.0	2.6	.70
16- 18	10- 12	2	1.00	297.00	2488.0	3.0	.90
16- 18	8- 10	3	1.00	145.00	3106.0	2.9	.88
16- 18	6- 8	4	1.00	105.00	4947.0	3.0	.80
16- 18	4- 6	5	1.00	71.60	5624.0	2.8	.84
14- 16	10- 12	1	1.00	796.00	1351.0	2.5	1.11
14- 16	8- 10	2	1.00	248.00	1685.0	2.5	1.11
14- 16	6- 8	3	1.00	157.00	2989.0	2.3	.99
14- 16	4- 6	4	1.00	99.10	3627.0	2.0	1.03
14- 16	2- 4	5	1.00	46.80	2662.0	2.3	1.16
12- 14	8- 10	1	1.00	392.00	960.0	2.4	.77
12- 14	6- 8	2	1.00	175.00	1759.0	2.2	.75
12- 14	4- 6	3	1.00	102.00	2404.0	2.2	.80
12- 14	2- 4	4	1.00	42.80	1812.0	2.0	.89
12- 14	0- 2	5	1.00	27.20	2136.0	1.8	.84
10- 12	6- 8	1	1.00	360.00	780.0	2.5	.87
10- 12	4- 6	2	1.00	156.00	1212.0	2.5	.97
10- 12	2- 4	3	1.00	54.00	960.4	2.5	1.06
10- 12	0- 2	4	1.00	30.30	1165.0	2.2	.98
8- 10	4- 6	1	1.00	785.00	1372.0	2.2	1.01
8- 10	2- 4	2	1.00	157.00	1057.0	2.4	1.12
8- 10	0- 2	3	1.00	65.10	1215.0	1.8	1.01
6- 8	2- 4	1	1.00	477.00	977.0	2.3	.92
6- 8	0- 2	2	1.00	156.00	1352.0	1.9	.87
4- 6	0- 2	1	1.00	327.00	751.2	2.0	.82

NAME: CHASO JUAN ARBA

LINE: C2 A_SP: 100.m ST_LO: 0 ST_HI: 32 DELTA: 2

BRNG: N 120E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc
30- 32	26- 28	1	.75	567.00	1952.0	4.4	.73
30- 32	24- 26	2	.75	239.00	2333.0	4.0	1.03
30- 32	22- 24	3	1.00	56.90	1218.0	3.8	.88
30- 32	20- 22	4	1.00	43.90	3123.0	4.2	.53
30- 32	18- 20	5	1.00	57.80	4014.0	3.8	.95
28- 30	24- 26	1	.75	2140.00	4372.0	3.4	1.23
28- 30	22- 24	2	1.00	265.00	1921.0	3.1	1.04
28- 30	20- 22	3	1.00	117.00	3556.0	3.3	.62
28- 30	18- 20	4	1.00	147.00	4904.0	3.2	1.13
28- 30	16- 18	5	.25	27.70	4686.0	3.4	1.56
26- 28	22- 24	1	1.00	1080.00	3181.0	3.0	.64
26- 28	20- 22	2	1.00	211.00	3616.0	3.2	.44
26- 28	18- 20	3	1.00	230.00	5161.0	2.9	.84
26- 28	16- 18	4	.30	48.10	5302.0	3.2	1.14
26- 28	14- 16	5	.30	12.50	4043.0	3.5	.68
24- 26	20- 22	1	1.00	700.00	2061.0	3.0	.64
24- 26	18- 20	2	1.00	582.00	3157.0	2.8	1.39
24- 26	16- 18	3	.30	96.00	3507.0	3.2	1.72
24- 26	14- 16	4	.30	22.00	2821.0	3.0	.98
24- 26	12- 14	5	1.00	45.50	2943.0	2.7	1.02
22- 24	18- 20	1	1.00	1700.00	2241.0	3.5	1.43
22- 24	16- 18	2	.30	148.00	2480.0	3.8	1.50
22- 24	14- 16	3	.30	24.60	1909.0	3.0	.81
22- 24	12- 14	4	1.00	52.70	2365.0	2.8	.84
22- 24	10- 12	5	1.00	29.00	1894.0	2.8	1.01
20- 22	16- 18	1	.30	270.00	2146.0	3.8	.79
20- 22	14- 16	2	.30	34.50	1927.0	3.6	.45
20- 22	12- 14	3	1.00	49.30	1977.0	3.3	.47
20- 22	10- 12	4	1.00	31.20	1897.0	3.3	.62
20- 22	8- 10	5	1.50	19.30	1974.0	3.3	.43
18- 20	14- 16	1	.30	155.00	1948.0	2.7	.50
18- 20	12- 14	2	1.00	217.00	2727.0	2.7	.60
18- 20	10- 12	3	1.00	112.00	2484.0	2.7	.85
18- 20	8- 10	4	1.50	71.50	2995.0	2.6	.60
18- 20	6- 8	5	1.50	83.20	4021.0	3.2	.91
16- 18	12- 14	1	1.00	1920.00	3067.0	3.0	1.18
16- 18	10- 12	2	1.00	573.00	2752.0	2.8	1.57
16- 18	8- 10	3	1.50	281.00	3331.0	2.4	1.06
16- 18	6- 8	4	1.50	267.00	4247.0	3.0	1.58
16- 18	4- 6	5	1.50	156.00	4370.0	2.8	1.57
14- 16	10- 12	1	1.00	928.00	2010.0	2.5	.87
14- 16	8- 10	2	1.50	298.00	2378.0	1.9	.63
14- 16	6- 8	3	1.50	204.00	2698.0	2.6	.95
14- 16	4- 6	4	1.50	117.00	3128.0	2.4	.94
14- 16	2- 4	5	1.50	77.70	3973.0	2.2	.86
12- 14	8- 10	1	1.50	707.00	1288.0	1.9	.69
12- 14	6- 8	2	1.50	321.00	1415.0	2.2	1.14
12- 14	4- 6	3	1.50	131.00	1524.0	2.2	1.08
12- 14	2- 4	4	1.50	86.40	2262.0	2.3	.96
12- 14	0- 2	5	1.50	54.90	2542.0	2.3	.95
10- 12	6- 8	1	1.50	917.00	681.7	2.3	1.69
10- 12	4- 6	2	1.50	231.00	907.0	1.9	1.28
10- 12	2- 4	3	1.50	115.00	1314.0	1.5	1.10
10- 12	0- 2	4	1.50	65.80	1503.0	0.7	1.10
8- 10	4- 6	1	1.50	574.00	949.1	2.1	.76
8- 10	2- 4	2	1.50	121.00	856.6	1.7	.71
8- 10	0- 2	3	1.00	62.70	1642.0	1.7	.72
6- 8	2- 4	1	1.00	478.00	1126.0	2.2	.80
6- 8	0- 2	2	1.00	169.00	1370.0	1.9	.93
4- 6	0- 2	1	1.00	251.00	537.5	1.8	.88

NAME: CHASO JUAN AREA

LINE: C3 A_SP: 100.m ST_LO: 0 ST_HI: 32 DELTA: 2

BRNG: N 120E

N=1 - 5

Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc
30-32	26-28	1	1.00	596.00	1321.0	3.0	.85
30-32	24-26	2	1.00	250.00	1224.0	3.7	1.54
30-32	22-24	3	.50	46.10	954.9	3.9	1.82
30-32	20-22	4	1.00	43.90	1191.0	3.7	1.39
30-32	18-20	5	1.00	36.60	1886.0	4.7	1.28
28-30	24-26	1	.50	745.00	1978.0	3.0	1.42
28-30	22-24	2	.50	84.90	907.8	2.9	1.41
28-30	20-22	3	1.00	64.00	1231.0	3.5	.98
28-30	18-20	4	1.00	54.50	2283.0	4.7	.90
28-30	16-18	5	1.00	23.80	2343.0	4.1	.67
26-28	22-24	1	.50	92.00	468.6	4.3	.74
26-28	20-22	2	1.00	58.90	854.0	4.0	.52
26-28	18-20	3	1.00	39.20	1508.0	4.9	.49
26-28	16-18	4	1.00	20.20	2004.0	4.4	.38
26-28	14-16	5	1.00	17.60	2832.0	5.3	.41
24-26	20-22	1	1.00	392.00	1087.0	3.3	.68
24-26	18-20	2	1.00	298.00	2996.0	4.5	.75
24-26	16-18	3	1.00	78.60	2512.0	4.0	.59
24-26	14-16	4	1.00	71.20	4067.0	4.8	.66
24-26	12-14	5	1.00	54.30	4368.0	4.8	.82
22-24	18-20	1	1.00	437.00	840.5	3.7	.98
22-24	16-18	2	1.00	98.00	890.2	3.7	.83
22-24	14-16	3	1.00	77.50	1522.0	4.4	.96
22-24	12-14	4	1.00	56.10	1792.0	4.5	1.18
22-24	10-12	5	1.00	49.30	2904.0	4.6	1.12
20-22	16-18	1	1.00	191.00	467.5	2.1	.77
20-22	14-16	2	1.00	132.00	1005.0	3.3	.99
20-22	12-14	3	1.00	76.30	1198.0	3.5	1.20
20-22	10-12	4	1.00	61.10	2056.0	3.7	1.12
20-22	8-10	5	1.00	31.40	1771.0	3.4	1.17
18-20	14-16	1	1.00	538.00	947.8	4.1	1.07
18-20	12-14	2	1.00	227.00	1316.0	4.8	1.30
18-20	10-12	3	1.00	143.00	2304.0	5.5	1.17
18-20	8-10	4	1.00	69.80	2211.0	4.9	1.19
18-20	6-8	5	1.00	50.80	2411.0	5.2	1.39
16-18	12-14	1	1.00	534.00	949.6	3.4	1.06
16-18	10-12	2	1.00	242.00	1921.0	5.5	.95
16-18	8-10	3	1.00	99.50	1974.0	4.5	.95
16-18	6-8	4	1.00	62.10	2148.0	4.5	1.09
16-18	4-6	5	1.00	35.10	2790.0	4.2	.83
14-16	10-12	1	1.00	556.00	1310.0	4.7	.80
14-16	8-10	2	1.00	209.00	1833.0	4.4	.86
14-16	6-8	3	1.00	114.00	2149.0	4.9	1.00
14-16	4-6	4	1.00	57.00	2826.0	4.9	.76
14-16	2-4	5	1.50	59.00	2790.0	6.1	.93
12-14	8-10	1	1.00	601.00	1100.0	3.4	1.03
12-14	6-8	2	1.00	251.00	1538.0	4.3	1.23
12-14	4-6	3	1.20	139.00	2373.0	4.5	.92
12-14	2-4	4	1.50	108.00	2423.0	5.5	1.12
12-14	0-2	5	1.00	24.60	1824.0	5.0	.89
10-12	6-8	1	1.00	1180.00	2444.0	3.6	.91
10-12	4-6	2	1.20	354.00	3005.0	3.8	.74
10-12	2-4	3	1.50	235.00	3210.0	4.8	.92
10-12	0-2	4	1.00	49.40	2516.0	4.6	.74
8-10	4-6	1	1.50	967.00	1711.0	3.3	.71
8-10	2-4	2	1.50	294.00	1493.0	4.1	.99
8-10	0-2	3	1.40	75.60	1272.0	3.7	.80
6-8	2-4	1	1.50	1370.00	1266.0	4.5	1.36
6-8	0-2	2	1.30	222.00	1275.0	4.2	1.01
4-6	0-2	1	1.30	568.00	1042.0	3.7	.79

NAME: CHASO JUAN AREA

LINE: C4 A_SP: 100.m ST_LO: 0 ST_HI: 32 DELTA: 2

BRNG: N 120E N=1 - 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc
0- 2	4- 6	1	.50	169.00	936.9	5.8	.68
0- 2	6- 8	2	.75	122.00	1179.0	5.8	1.04
0- 2	8- 10	3	1.00	78.10	1457.0	6.2	1.01
0- 2	10- 12	4	1.00	41.40	1661.0	6.5	.94
0- 2	12- 14	5	1.00	22.70	2203.0	7.4	.68
2- 4	6- 8	1	.75	927.00	1820.0	4.5	1.28
2- 4	8- 10	2	1.00	302.00	1913.0	4.8	1.19
2- 4	10- 12	3	1.00	137.00	2369.0	5.1	1.09
2- 4	12- 14	4	1.00	70.90	3383.0	5.6	.79
2- 4	14- 16	5	.75	43.80	2812.0	6.7	1.37
30- 32	26- 28	1	.50	551.00	1822.0	3.0	1.14
30- 32	24- 26	2	.45	260.00	2984.0	3.5	1.46
30- 32	22- 24	3	.50	100.00	2417.0	3.3	1.56
30- 32	20- 22	4	1.00	68.50	2776.0	3.3	.93
30- 32	18- 20	5	1.00	42.30	2114.0	2.7	1.32
28- 30	24- 26	1	.45	652.00	2483.0	3.3	1.10
28- 30	22- 24	2	.50	143.00	1859.0	3.3	1.16
28- 30	20- 22	3	1.00	76.70	2158.0	3.3	.67
28- 30	18- 20	4	1.00	42.70	1677.0	2.7	.96
28- 30	16- 18	5	.75	28.80	2638.0	3.5	.96
26- 28	22- 24	1	.50	273.00	1583.0	3.3	.65
26- 28	20- 22	2	1.00	115.00	1927.0	3.3	.45
26- 28	18- 20	3	1.00	55.70	1522.0	2.7	.69
26- 28	16- 18	4	.75	36.90	2576.0	4.2	.72
26- 28	14- 16	5	.75	13.10	1585.0	4.9	.62
24- 26	20- 22	1	1.00	678.00	2061.0	3.3	.62
24- 26	18- 20	2	1.00	235.00	1611.0	2.8	1.10
24- 26	16- 18	3	.75	118.00	2648.0	4.2	1.12
24- 26	14- 16	4	.75	36.30	1942.0	4.9	.94
24- 26	12- 14	5	1.00	23.50	2583.0	4.5	.60
22- 24	18- 20	1	1.00	136.00	1793.0	3.9	1.43
22- 24	16- 18	2	.75	346.00	2595.0	4.6	1.34
22- 24	14- 16	3	.75	78.80	1784.0	5.5	1.11
22- 24	12- 14	4	1.00	38.80	2061.0	5.0	.71
22- 24	10- 12	5	1.00	42.60	2422.0	4.4	1.16
20- 22	16- 18	1	.75	600.00	1909.0	4.0	.79
20- 22	14- 16	2	.75	94.10	1351.0	5.3	.70
20- 22	12- 14	3	1.00	35.10	1408.0	4.4	.47
20- 22	10- 12	4	1.00	35.80	1687.0	4.0	.80
20- 22	8- 10	5	1.00	23.80	1725.0	3.7	.91
18- 20	14- 16	1	.75	188.00	583.3	4.8	.81
18- 20	12- 14	2	1.00	51.40	615.1	4.3	.63
18- 20	10- 12	3	1.00	48.50	846.5	3.9	1.08
18- 20	8- 10	4	1.00	29.10	899.2	3.6	1.22
18- 20	6- 8	5	1.00	25.20	1330.0	4.0	1.25
16- 18	12- 14	1	1.00	369.00	1054.0	5.1	.66
16- 18	10- 12	2	1.00	259.00	1502.0	5.0	1.30
16- 18	8- 10	3	1.00	121.00	1618.0	4.8	1.41
16- 18	6- 8	4	1.00	92.60	2476.0	5.3	1.41
16- 18	4- 6	5	.70	34.80	2982.0	5.7	1.10
14- 16	10- 12	1	1.00	854.00	1059.0	4.6	1.52
14- 16	8- 10	2	1.00	252.00	1347.0	5.3	1.41
14- 16	6- 8	3	.90	141.00	2237.0	6.2	1.32
14- 16	4- 6	4	.70	45.20	2434.0	6.5	1.00
12- 14	8- 10	1	1.00	427.00	1032.0	3.8	.78
12- 14	6- 8	2	.90	198.00	2183.0	4.8	.76
12- 14	4- 6	3	.70	56.40	2619.0	5.3	.58
10- 12	6- 8	1	.90	522.00	1175.0	3.9	.93
10- 12	4- 6	2	.70	130.00	1795.0	4.7	.78
8- 10	4- 6	1	.70	433.00	1476.0	4.0	.79

NAME: CHASO JUAN AREA

LINE: C5 A_SP: 100.m ST_LO: 0 ST_HI: 32 DELTA: 2
 BRNG: N 120E N=1 -- 5 Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc
30-32	26-28	1	1.00	291.00	703.2	1.8	.78
30-32	24-26	2	1.00	152.00	1091.0	1.8	1.05
30-32	22-24	3	1.00	125.00	1707.0	1.9	1.38
30-32	20-22	4	1.00	79.20	2315.0	2.6	1.29
30-32	18-20	5	.50	24.80	2517.0	3.3	1.30
28-30	24-26	1	.75	316.00	690.6	2.4	1.15
28-30	22-24	2	.75	191.00	1324.0	2.5	1.45
28-30	20-22	3	1.00	138.00	2016.0	3.1	1.29
28-30	18-20	4	.50	37.60	2250.0	3.4	1.26
28-30	16-18	5	.50	8.22	1107.0	3.0	.98
26-28	22-24	1	.75	285.00	695.4	2.4	1.03
26-28	20-22	2	1.00	176.00	1474.0	2.8	.90
26-28	18-20	3	.50	39.30	1703.0	2.9	.87
26-28	16-18	4	.50	7.83	881.2	2.9	.67
26-28	14-16	5	1.00	31.10	2072.0	4.0	.99
24-26	20-22	1	1.00	470.00	1055.0	2.5	.84
24-26	18-20	2	.50	78.30	1357.0	3.0	.87
24-26	16-18	3	.50	14.50	780.9	3.2	.70
24-26	14-16	4	1.00	52.00	1902.0	3.9	1.03
24-26	12-14	5	1.00	13.80	1319.0	3.3	.69
22-24	18-20	1	.50	338.00	1300.0	2.7	.98
22-24	16-18	2	.50	49.30	874.6	3.2	.85
22-24	14-16	3	1.00	156.00	2315.0	4.1	1.27
22-24	12-14	4	1.00	34.30	1503.0	3.4	.86
22-24	10-12	5	.50	26.20	3457.0	4.4	1.00
20-22	16-18	1	.50	107.00	552.6	3.1	.73
20-22	14-16	2	1.00	272.00	1681.0	4.6	1.22
20-22	12-14	3	1.00	51.00	1187.0	3.7	.81
20-22	10-12	4	.50	37.70	3024.0	4.9	.89
20-22	8-10	5	.50	10.50	1385.0	4.9	1.00
18-20	14-16	1	1.00	1090.00	1361.0	3.9	1.51
18-20	12-14	2	1.00	138.00	1182.0	3.6	.88
18-20	10-12	3	.75	129.00	3117.0	4.8	1.04
18-20	8-10	4	.50	22.20	1522.0	4.5	1.10
18-20	6-8	5	.75	25.50	2312.0	4.9	.97
16-18	12-14	1	1.00	130.00	422.4	3.0	.58
16-18	10-12	2	.70	86.00	1158.0	4.2	.80
16-18	8-10	3	.45	12.40	611.1	3.8	.85
16-18	6-8	4	.75	14.10	944.9	4.2	.75
16-18	4-6	5	1.00	15.20	1045.0	4.7	.96
14-16	10-12	1	.70	1140.00	2361.0	4.3	1.30
14-16	8-10	2	.40	101.00	1453.0	4.1	1.31
14-16	6-8	3	.75	105.00	2295.0	4.8	1.15
14-16	4-6	4	1.00	102.00	2634.0	5.3	1.46
12-14	8-10	1	.40	147.00	736.9	3.2	.94
12-14	6-8	2	.75	118.00	1379.0	4.0	.86
12-14	4-6	3	1.00	100.00	1729.0	4.7	1.09
10-12	6-8	1	.75	477.00	1620.0	3.8	.74
10-12	4-6	2	1.00	336.00	2490.0	5.1	1.06
0-2	4-6	1	1.00	847.00	967.6	3.7	1.65
0-2	6-8	2	.75	213.00	1946.0	5.1	1.10
0-2	8-10	3	.40	40.20	1480.0	5.1	1.28
0-2	10-12	4	.60	54.60	3063.0	5.5	1.12
0-2	12-14	5	1.00	30.50	1813.0	4.9	1.11
2-4	6-8	1	.75	386.00	1448.0	4.4	.67
2-4	8-10	2	.40	61.90	1341.0	5.2	.87
2-4	10-12	3	.50	56.80	2817.0	5.2	.76
2-4	12-14	4	1.00	38.10	1890.0	4.4	.76
2-4	14-16	5	1.00	44.00	2818.0	4.5	1.03
4-6	8-10	1	.40	278.00	1083.0	4.2	1.21

NAME: CHASO JUAN AREA

LINE: C6 A_SP: 100.m ST_LO: 4 ST_HI: 36 DELTA: 2

BRNG: N 120E

N=1 - 5

Rho_tc = Rho_a/Ktc

Tx	Rx	n	I (A)	V (mV)	Rho_a (Ohm-m)	PFE (%)	Ktc
34-36	30-32	1	.75	248.00	670.2	4.2	.93
34-36	28-30	2	.75	62.90	679.9	2.8	.93
34-36	26-28	3	.75	31.10	849.6	2.6	.92
34-36	24-26	4	.75	18.60	882.0	2.4	1.06
34-36	22-24	5	1.00	19.20	1141.0	2.3	1.11
32-34	28-30	1	.75	284.00	784.4	4.7	.91
32-34	26-28	2	.75	73.20	766.6	3.9	.96
32-34	24-26	3	.75	35.90	805.6	3.4	1.12
32-34	22-24	4	1.00	34.90	1144.0	3.3	1.15
32-34	20-22	5	.75	15.30	1402.0	4.2	.96
30-32	26-28	1	.75	261.00	683.3	3.8	.96
30-32	24-26	2	.75	72.40	627.4	3.6	1.16
30-32	22-24	3	1.00	56.40	908.6	3.1	1.17
30-32	20-22	4	.75	21.50	1114.0	3.5	.97
30-32	18-20	5	.45	10.80	1632.0	4.0	.97
28-30	24-26	1	.75	244.00	625.7	3.6	.98
28-30	22-24	2	1.00	119.00	879.6	3.4	1.02
28-30	20-22	3	.75	36.00	1064.0	3.2	.85
28-30	18-20	4	.40	14.60	1600.0	4.0	.86
28-30	16-18	5	.35	10.20	1942.0	4.0	.99
26-28	22-24	1	1.00	301.00	616.7	3.0	.92
26-28	20-22	2	.75	61.00	738.8	3.3	.83
26-28	18-20	3	.40	21.80	1208.0	3.8	.85
26-28	16-18	4	.30	11.80	1513.0	4.3	.98
26-28	14-16	5	.45	12.80	2040.0	4.3	.92
24-26	20-22	1	.75	137.00	419.9	2.8	.82
24-26	18-20	2	.40	34.90	707.3	3.3	.93
24-26	16-18	3	.30	17.20	1001.0	4.0	1.08
24-26	14-16	4	.45	16.90	1402.0	4.0	1.01
24-26	12-14	5	.75	20.70	1751.0	4.0	1.04
22-24	18-20	1	.40	95.30	411.9	3.0	1.09
22-24	16-18	2	.30	34.90	701.7	3.8	1.25
22-24	14-16	3	.45	29.30	1076.0	3.9	1.14
22-24	12-14	4	.75	32.60	1401.0	4.0	1.17
22-24	10-12	5	1.00	20.60	1387.0	3.7	.98
20-22	16-18	1	.30	81.50	507.0	3.6	1.01
20-22	14-16	2	.45	45.00	802.1	3.8	.94
20-22	12-14	3	.75	44.30	1136.0	4.4	.98
20-22	10-12	4	1.00	25.00	1164.0	4.0	.81
20-22	8-10	5	.75	14.70	1361.0	4.4	.95
18-20	14-16	1	.45	148.00	756.0	4.0	.82
18-20	12-14	2	.75	88.30	954.5	4.2	.93
18-20	10-12	3	1.00	44.10	1066.0	4.0	.78
18-20	8-10	4	.75	22.90	1251.0	4.3	.92
4-6	8-10	1	.75	341.00	1008.0	4.1	.85
4-6	10-12	2	1.00	157.00	1233.0	4.2	.96
4-6	12-14	3	.75	89.50	1939.0	4.6	1.16
4-6	14-16	4	.45	28.80	2045.0	5.0	1.18
4-6	16-18	5	.30	9.16	1598.0	5.1	1.26
6-8	10-12	1	1.00	318.00	651.5	3.8	.92
6-8	12-14	2	.75	141.00	1222.0	4.6	1.16
6-8	14-16	3	.45	38.10	1388.0	4.7	1.15
6-8	16-18	4	.30	10.70	1112.0	5.1	1.21
6-8	18-20	5	.40	9.35	1512.0	4.9	1.02
8-10	12-14	1	.75	305.00	703.2	3.5	1.09
8-10	14-16	2	.45	68.40	1061.0	4.0	1.08
8-10	16-18	3	.30	16.70	936.6	4.5	1.12
10-12	14-16	1	.45	161.00	793.4	3.7	.85
10-12	16-18	2	.30	26.80	716.6	3.8	.94
12-14	16-18	1	.30	111.00	606.4	4.2	1.15

Table A-8 (1) Summary record of drilling results (MJE-4)

(1) MJE-4

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Aug. 27, 1989 ~ Sep. 5, 1989	Sep. 6, 1989 ~ Sep. 16, 1989				
Preparation			10	10	-	369
Drilling			11	11	-	314
Removing			1	1	-	19
Total			22	22	-	702
Planned Length	300 m	Overburden	Core Recovery for Each 100m Section			
Increase or Decrease in Length	+ 5.30 m	Core Length	Depth(m)	Section(m)	Core Length(m)	Core Recovery (%)
Drilled Length	305.30 m	Core Recovery	11.50 ~107.60	96.10	95.50	99.4
Drilling	186° 30'	75.2 %	107.60 ~203.20	95.60	95.60	100.0
Accompanying Works	61° 30'	24.8 %	203.20 ~305.30	102.10	101.80	99.7
Repairing	0°	-				
Sub Total	248°	100 %	Drilling Efficiency			
Preparation	24°		$\frac{305.30}{11} \left[\frac{\text{Total Length}}{\text{Drilling Days}} \right]$			
Moving	8°		$\frac{305.30}{22} \left[\frac{\text{Total Length}}{\text{Total Working Days}} \right]$			
Others	176°		$\frac{314}{305.30} \left[\frac{\text{Net Drilling Workers}}{\text{Total Length}} \right]$			
Grand Total	456°		$\frac{702}{305.30} \left[\frac{\text{Total Workers}}{\text{Total Length}} \right]$			
Pipe size			Remarks			
Inserted Length	$\frac{\text{Inserted Length}}{\text{Drilled Length}} \times 100$	Recovery of Casing Pipe				
NQ-NUCP 11.50 m	3.8 %	100 %				
BW cp 203.20 m	66.6 %	100 %				
Inserted Casing Pipe						

Table A-8 (2) Summary record of drilling results (MJE-5)

(2) MJE-5

Drilling Period	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	300 m	Overburden				
Preparation	Oct. 15, 1989 ~ Oct. 17, 1989	10.90 m	3	3	-	87
Drilling	Oct. 18, 1989 ~ Oct. 31, 1989	291.00 m	14	14	-	377
Removing	Nov. 1, 1989 ~ Nov. 10, 1989		10	10	-	321
Total	Oct. 15, 1989 ~ Nov. 10, 1989		27	27	-	785
Planned Length	300 m	10.90 m	Core Recovery for Each 100m Section			
Increase or Decrease in Length	+ 5.20 m	291.00 m	Depth(m)	Section(m)	Core Length(m)	Core Recovery (%)
Drilled Length	305.20 m	Core Recovery	10.90	111.00	95.50	97.0
Drilling	257°	80.3 %	~121.90			
Accompanying Works	63°	19.7 %	121.90	92.90	95.60	100.0
Repairing	0°	-	~214.80			
Sub Total	320°	100 %	214.80	90.40	101.80	100.0
Preparation	8°		~305.20			
Moving	48°		Drilling Efficiency			
Others	120°		$\frac{305.30}{14} \left(\frac{\text{Total Length}}{\text{Drilling Days}} \right)$			21.8 m/Day
Grand Total	496°		$\frac{305.20}{27} \left(\frac{\text{Total Length}}{\text{Total Working Days}} \right)$			11.3 m/Day
Pipe size			$\frac{377}{305.20} \left(\frac{\text{Net Drilling Workers}}{\text{Total Length}} \right)$			1.24 mens/Day
Inserted Length			$\frac{785}{305.20} \left(\frac{\text{Total Workers}}{\text{Total Length}} \right)$			2.57 mens/Day
NQ-NUCP 11.50 m	$\frac{\text{Inserted Length}}{\text{Drilled Length}} \times 100$	Recovery of Casing Pipe	Remarks			
BW cp 203.20 m	8.7 %	100 %				
	64.2 %	100 %				

Table A-8 (3) Summary record of drilling results (MJE-6)

(3) MJE-6

	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	300 m	Overburden				
Preparation	Sep.18,1989 ~ Sep.25,1989		8	8	-	246
Drilling	Sep.26,1989 ~ Oct.12,1989		17	17	-	418
Removing	Oct.13,1989 ~ Oct.14,1989		2	2	-	54
Total	Sep.18,1989 ~ Oct.14,1989		27	27	-	736
Planned Length	8.00 m		Core Recovery for Each 100m Section			
Increase or Decrease in Length	+ 53 m	Core Length	Depth(m)	Section(m)	Core Length(m)	Core Recovery (%)
Drilled Length	305.00 m	Core Recovery	8.00 ~108.00	100.00	97.50	97.5
Drilling	287°	80.3 %	108.00 ~202.90	94.90	94.80	99.9
Accompanying Works	105°	19.7 %	224.80 ~305.20	99.00	99.00	100.0
Repairing	0°	-	301.90 ~353.00	51.10	51.10	100.0
Sub Total	392°	100 %	Drilling Efficiency			
Preparation	32°		353.00	Total Length } 17 { Drilling Days		20.76 m/Day
Moving	48°		305.00	Total Length } 27 { Total Working Days		13.07 m/Day
Others	160°		418	Net Drilling Workers } 353.00 { Total Length		1.18 mens/Day
Grand Total	632°		736	Total Workers } 353.00 { Total Length		2.08 mens/Day
Pipe size	Inserted Length	× 100	Remarks			
Inserted Length	Drilled Length		Recovery of Casing Pipe			
NQ-NUCP 11.50 m	2.3 %	100 %				
BW cp 203.20 m	51.6 %	100 %				

Table A-9

Drilling equipments and consumed materials

A. Drilling Equipment

Article	Model	Specification	Quantity
Drilling Machine	L38	Maker:Longyear Capacity:BQ WL 725m Dimensions: Height 1450mm Length 2150mm Weight(without Power Unit) : 1150 kg	1 set
Diesel Engine	F4L 912	Maker:Mitsui Deutz Horse Power:52HP/1800rpm	1 set
Drilling Pump & Water Supply Pump	520 RQ	Maker:Longyear Poston Diameter 57mm Stroke 57mm Max.Capacity 76 l /min Max.Pressure 49kg/cm ² Weight(without Power Unit) : 395 kg	2 set
Diesel Engine	FIL 210	Maker:Mitsui Duetz Horse Power:8.5HP/1800rpm	2 set
Mixer	Jet Type	Run by Drilling Pump	1 set
Drill Rod		NQWL (3.00m/joint)	85 joints
		BQWL (3.00m/joint)	130 joints
		NQ-NU(2.50m/joint)	18 joints
		BW (2.80m/joint)	100 joints
Wireline Hoist		Attached to Drilling Machine	1 set

B. Consumed Materials

Article	Specification	Unit	Quantity			
			MJE-4	MJE-5	MJE-6	Total
Light oil	Engine	ℓ	680	1030	1120	2830
Cement	40 Kg/Sx	Sx	6	6	6	18
Bentonite	25 Kg/Sx	Sx	72	73	112	257
Libonite	20 Kg/Sx	Sx	15	8	30	53
C.M.C	10 Kg/Sx	Kg	42	49	78	169
TK60B	20 Kg/Sx	Sx	3	3	4	10

C. Consumed Bit

Hole NO.		MJE-4		MJE-5		MJE-6		Total	
Bit Type		Drilled Length	Quality	Drilled Length	Quality	Drilled Length	Quality	Drilled Length	Quality
101mm Single	Metal Bit	11.50 ^m	2 ^{pcs}	26.40 ^m	2 ^{pcs}	11.50 ^m	2 ^{pcs}	11.50 ^m	2 ^{pcs}
	reamer	-	-	-	-	-	-	-	-
NQWL	Dia. Bit	191.70	4	169.60	6	174.00	6	535.30	16
	Dia. Reamer	191.70	3	169.60	3	174.00	2	535.30	8
BWQL	Dia. Bit	102.10	2	109.20	3	171.00	8	382.30	13
	Dia. Reamer	102.10	1	109.20	2	171.00	4	382.30	7

Dia: Diamond

